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MAPS

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Specify Type of Document(s) / Comments:

Rev. 07/10/02

Report of Waste Surveys
at
Allied Paper Company
(Monarch Division)
Kalamazoo, Michigan

Survey Periods (24 hours for each)

January 10, 1956
January 11, 1956
January 12, 1956
January 13, 1956
January 14, 1956
January 15, 1956
January 16, 1956

Summary of Results:

Date	1-10	1-11	1-12	1-13	1-14	1-15	1-16
Flow, million g.p.d.	3.5366	3.7333	3.6860	3.5262	3.4319	0.6463	4.0465
Production, tons	113.28	101.88	110.50	94.64	97.94		83.02
5-Day B.O.D., lbs.	10,255	9,029	12,106	6,718	6,476		10,256
5-Day B.O. D., lbs/ton paper	90.52	88.63	109.55	70.98	66.12		123.53
Total Susp. Sol., lbs.	16,255	17,280	20,056	21,256	15,565		14,936
Total Susp. Sol.,lbs/ton paper	143.49	169.96	181.50	224.59	158.92		179.90
Total Susp.Vol.Sol., lbs.	6,218	4,359	5,525	6,578	5,164		4,739
Total Susp.Vol.Sol., lbs/ton paper	54.89	42.79	50.00	69.51	52.73		57.08
Gallons Waste per ton paper	31,219	36,644	33,357	37,259	35,040		48,741
Population Equivalent	61,407	54,066	72,491	40,228	38,778		61,413
Settleable Solids Removal, %		91.23	93.21	68.49	75.81		86.73
Other Paper Processing Susp. Sol., lbs.	1,212		1,150	670	453		256
Other Paper Processing Susp. Sol., lbs/ton paper	10.70		10.41	7.08	4.63		3.08

Type of Mill Production:

De-ink Mill

Mill Water Supply:

Well water and Portage Creek

Waste Control:

De-ink waste and bleach plant waste flows by gravity to the main pump house. White water is pumped to the gravity line. De-ink waste, bleach water and white water are pumped to a 90-foot diameter clarifier with a 12-foot side water depth. Effluent is discharged to Portage Creek. Sludge is discharged to a large lagoon. Occasional white water overflows and coating room wastes are discharged to Portage Creek through the Cork Street weir.

Survey Procedure:

Effluent from the clarifier is discharged through a weir box. A company installed recording head meter was used to obtain a continuous record of the flow. A composite sample of the effluent was obtained from the company's sampling device (water wheel type sampler).

An influent sample was obtained from the discharge line from the pump house. A constant size sample is taken at set time intervals by a timing device and valve arrangement.

White water overflows and other miscellaneous wastes plus uncontaminated were measured at a previously constructed weir in a culvert underneath Cork Street. A recording head meter was installed at the weir to obtain a continuous daily record of the flow. Samples were taken by an automatic sampler and composited for each survey period.

Survey Data:

Influent							
Date	1-10	1-11	1-12	1-13	1-14	1-15	1-16
5-Day B.O.D., ppm	420	380	495	285	285	30	395
Susp. Sol., ppm	1500	1440	1590	1500	1130	140	1370
Susp. Vol. Sol., ppm	870	800	870	780	770	110	790
2-hr. Settleable Sol.,ppm		970	1046	1168	794		1078
pH	8.2	7.3	6.9				
Effluent							
5-Day B.O.D., ppm	340	290	370	225	225		285
Susp. Sol, ppm	510	555	615	700	528	562	435
Susp. Vol. Sol., ppm	180	140	165	210	168	65	135
pH	7.8	7.1	7.2				
Flow, million gals/day	3.5366	3.7333	3.6860	3.5262	3.4319	0.6463	4.0465
Other wastes							
5-Day B.O.D., ppm	8		23	5.0	3.5	37	4.2
Susp. Sol., ppm	32		33	20	19	210	14
Susp. Vol. Sol., ppm	24		13	12	15	68	10
pH	8.1		7.7				
Flow, million gals/day	4.543	4.3018	4.1770	4.0200	2.8605		2.1884
Portage Creek							
5-Day B.O.D., ppm			3.1				1.4
Susp. Sol., ppm			0				0.0
Production, tons	113.28	101.88	110.50	94.64	97.94	0	83.02

Survey Calculations

Pounds of 5-Day B.O.D. to River

1-10 $3.5366 \times 8.34 \times 340 = 10{,}028$

$4.543 \times 8.34 \times (8 - 2) = 227$

Total 10,255

1-11	3.7333 x 8.34 x 290	=	9,029	
	Total			9,029
1-12	3.6860 x 8.34 x 370	=	11,374	
	4.1770 x 8.34 x (23-2)	=	732	
	Total			12,106
1-13	3.5262 x 8.34 x 225	=	6,617	
	4.0200 x 8.34 x (5-2)	=	101	
	Total			6,718
1-14	3.4319 x 8.34 x 225	=	6,440	
	2.8605 x 8.34 x (3.5-2)	=	36	
	Total			6,476
1-16	4.0465 x 8.34 x 285	=	9,618	
	2.1884 x 8.34 x (37-2)	=	638	
	Total			10,256

Pounds of 5-Day B.O.D. per ton of paper

1-10	10,255 / 113.28	=	90.52
1-11	9,029 / 101.88	=	88.63
1-12	12,106 / 110.50	=	109.55
1-13	6,718 / 94.64	=	70.98
1-14	6,476 / 97.94	=	66.12
1-16	10,256 / 83.02	=	123.53

Population Equivalent

1-10	10,255 / 0.167	=	61,407
1-11	9,029 / 0.167	=	54,066
1-12	12,106 / 0.167	=	72,491
1-13	6,718 / 0.167	=	40,228
1-14	6,476 / 0.167	=	38,778
1-15	No data		
1-16	10,256 / 0.167	=	61,413

Total pounds of suspended solids to river

1-10	3.5366 x 8.34 x 510	=	15,043	
	4.543 x 8.34 x 32	=	1,212	
	Total			16,255
1-11	3.733 x 8.34 x 555	=	17,280	
	Total			17,280
1-12	3.6860 x 8.34 x 615	=	18,906	
	4.1770 x 8.34 x 33	=	1,150	
	Total			20,056
1-13	3.5262 x 8.34 x 700	=	20,586	
	4.0200 x 8.34 x 20	=	670	
	Total			21,256
1-14	3.4319 x 8.34 x 528	=	15,112	
	2.8605 x 8.34 x 19	=	453	
	Total			15,565

1-15 No data

1-16	4.0465 x 8.34 x 435	=	14,680	
	2.1884 x 8.34 x 14	=	256	
	Total			14,936

Total Pounds of Suspended Solids per ton of paper

1-10	16,255 / 113.28	=	143.49
1-11	17,280 / 101.88	=	169.96
1-12	20,056 / 110.50	=	181.50
1-13	21,256 / 94.64	=	224.59
1-14	15,565 / 97.94	=	158.92
1-16	14,936 / 83.02	=	179.90

Total Pounds of Suspended Volatile Solids to river

1-10	3.5366 x 8.34 x 180	=	5,309	
	4.543 x 8.34 x 24	=	909	
	Total			6,218
1-11	3.733 x 8.34 x 140	=	4,359	
	Total			4,359
1-12	3.6860 x 8.34 x 165	=	5,072	
	4.1770 x 8.34 x 13	=	453	
	Total			5,525
1-13	3.5262 x 8.34 x 210	=	6,176	
	4.0200 x 8.34 x 12	=	402	
	Total			6,578
1-14	3.4319 x 8.34 x 168	=	4,808	
	2.8605 x 8.34 x 15	=	356	
	Total			5,164
1-15	No data			
1-16	4.0465 x 8.34 x 135	=	4,556	
	2.1884 x 8.34 x 10	=	183	
	Total			4,739

Total Pounds of Suspended Volatile Solids per ton of paper

1-10	6,218 / 113.28	=	54.89
1-11	4,359 / 101.88	=	42.79
1-12	5,525 / 110.50	=	50.00
1-13	6,578 / 94.64	=	69.51
1-14	5,164 / 97.94	=	52.73
1-16	4,739 / 83.02	=	57.08

Gallons Waste per ton of paper

1-10	(3,536,600)	/	113.28	=	31,219
1-11	(3,733,300)	/	101.88	=	36,644
1-12	(3,686,000)	/	110.50	=	33,357
1-13	(3,526,200)	/	94.64	=	37,259
1-14	(3,431,900)	/	97.94	=	35,040
1-16	(4,046,500)	/	83.02	=	48,741

Treatment Plant Efficiency

B.O.D. Removal

1-10	(420 - 340) x 100 / 420	=	19.05%
1-11	(380 - 290) x 100 / 380	=	23.68%
1-12	(495 - 370) x 100 / 495	=	25.25%
1-13	(285 - 225) x 100 / 285	=	21.05%
1-14	(285 - 225) x 100 / 285	=	21.05%
1-15	No data		
1-16	(395 - 285) x 100 / 395	=	27.85%

Suspended Solids Removal

1-10	(1500 - 510) x 100 / 1500	=	66.00%
1-11	(1440 - 555) x 100 / 1440	=	61.45%
1-12	(1590 - 615) x 100 / 1590	=	61.32%
1-13	(1500 - 700) x 100 /1500	=	53.33%
1-14	(1130 - 528) x 100 / 1130	=	53.27%
1-15	No data		
1-16	(1370 - 435) x 100 / 1370	=	68.24%

Suspended Volatile Solids Removal

1-10	(870 - 180) x 100 / 870	=	79.31%
1-11	(800 - 140) x 100 / 800	=	82.50%
1-12	(870 - 165) x 100 / 870	=	81.03%
1-13	(780 - 210) x 100 / 780	=	73.07%
1-14	(770 - 168) x 100 / 770	=	78.18%
1-15	No data		
1-16	(790 - 135) x 100 / 790	=	82.91%

Settleable Solids Removal

1-10	No data		
1-11	(1440 - 555) x 100 / 970	=	91.23%
1-12	(1590 - 615) x 100 / 1046	=	93.21%
1-13	(1500 - 700) x 100 / 1168	=	68.49%
1-14	(1130 - 528) x 100 / 794	=	75.81%
1-15	No data		
1-16	(1370 - 435) x 100 / 1078	=	86.73%

Theoretical Detention time:

1-10	3.89 hours
1-11	3.69 hours
1-12	3.73 hours
1-13	3.90 hours
1-14	4.01 hours
1-15	21.29 hours
1-16	3.40 hours

Other Paper Processing Suspended Solids per ton Paper

1-10	1212 / 113.28	=	10.70
1-11	No data		
1-12	1150 / 110.50	=	10.41
1-13	670 / 94.64	=	7.08
1-14	453 / 97.94	=	4.63
1-15	No data		
1-16	256 / 83.02	=	3.08

Remarks:

Since the July 1955 surveys, the bleach water discharged was relocated so that it receives waste treatment along with other de-ink wastes. This has decreased the quantity of suspended solids in those wastes that are classified as resulting from other paper processing operations to a point where they are within the limit set by this Commission. Other changes evidently were made that resulted in a decrease in waste flow to the treatment plant so that even after the addition of the bleach waste, the resulting flow to the unit is below the July 1955 levels. The result has been a substantial decrease in the quantity of B.O.D. and suspended solids remaining in the effluent.

The formation of a scum layer on the clarifier is no doubt decreasing the efficiency of this unit. If this can be eliminated, the treatment plant removals should increase.

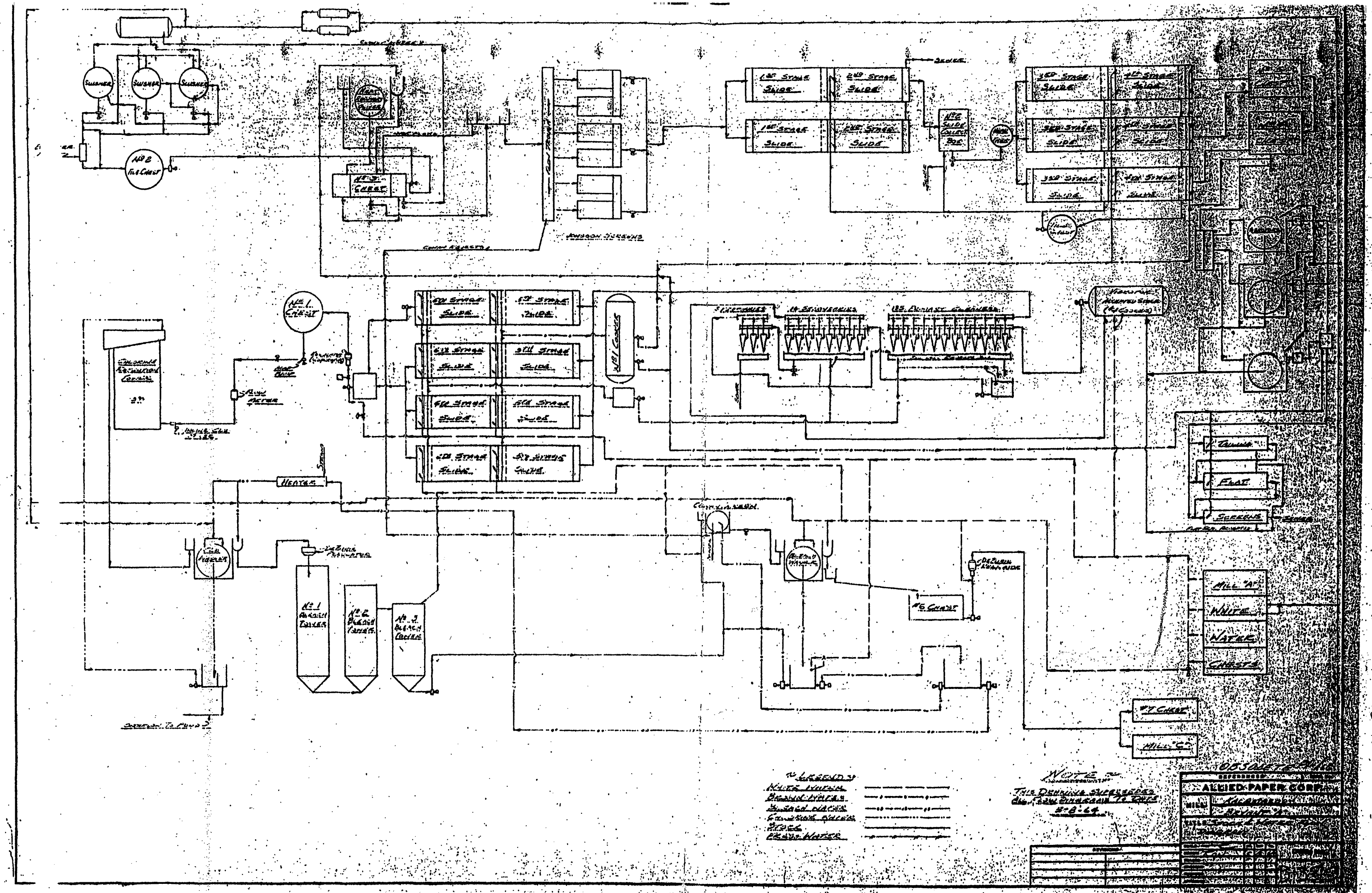
Survey written and supervised by:
Ralph Purdy

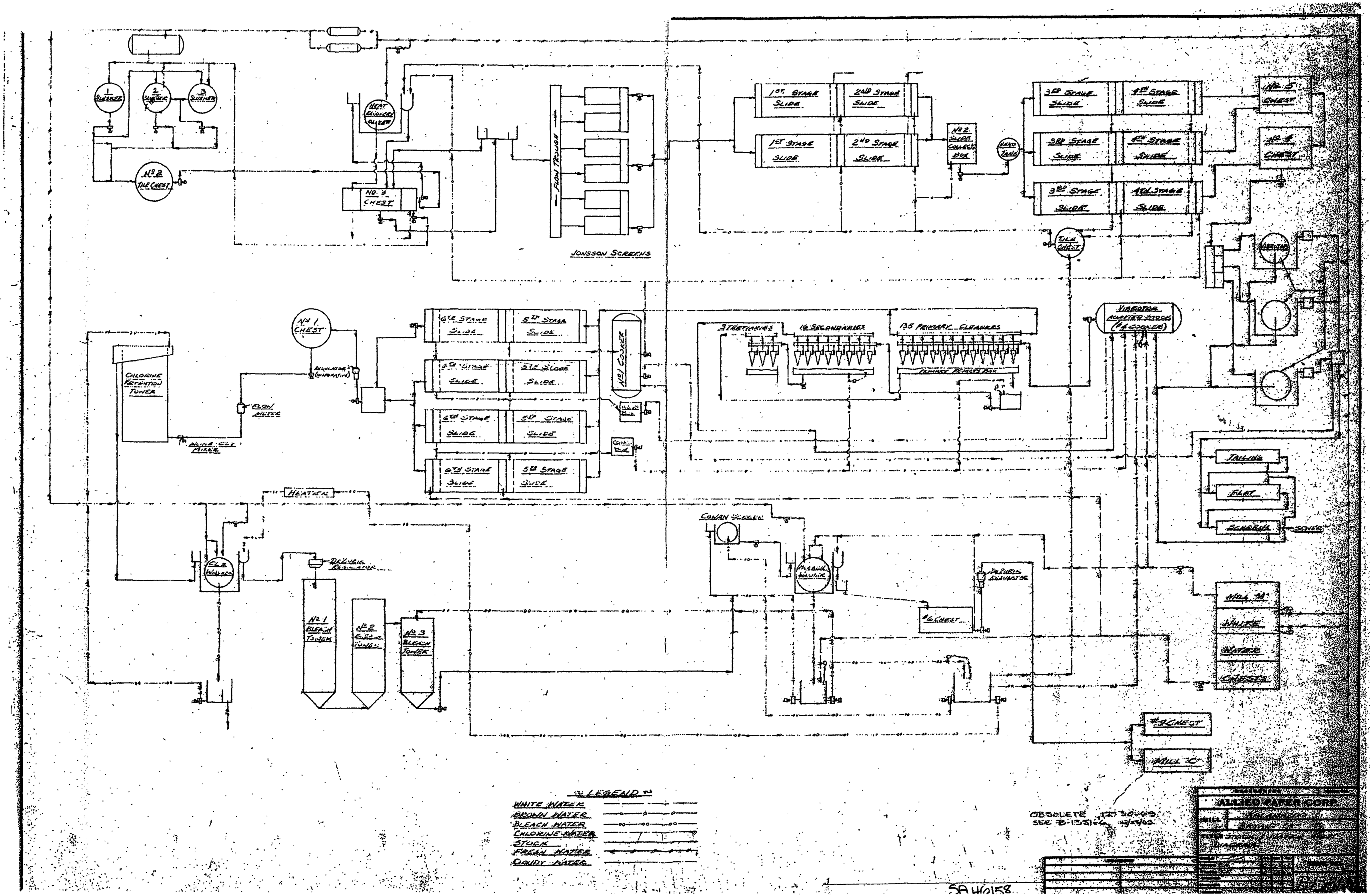
Field work by:
Robert Courchaine

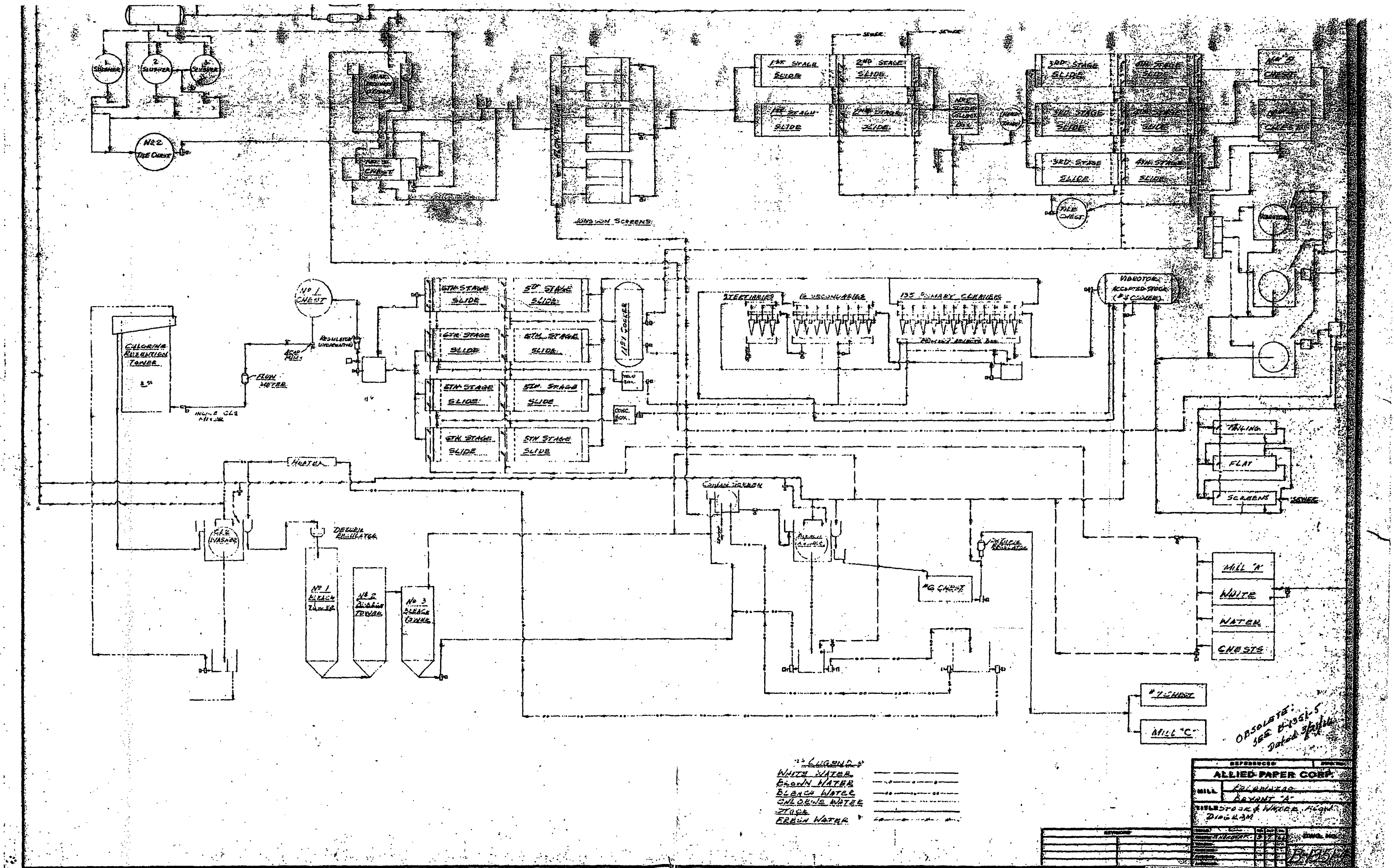
Chemical Analyses by:
Russell Krueger & Ralph Purdy

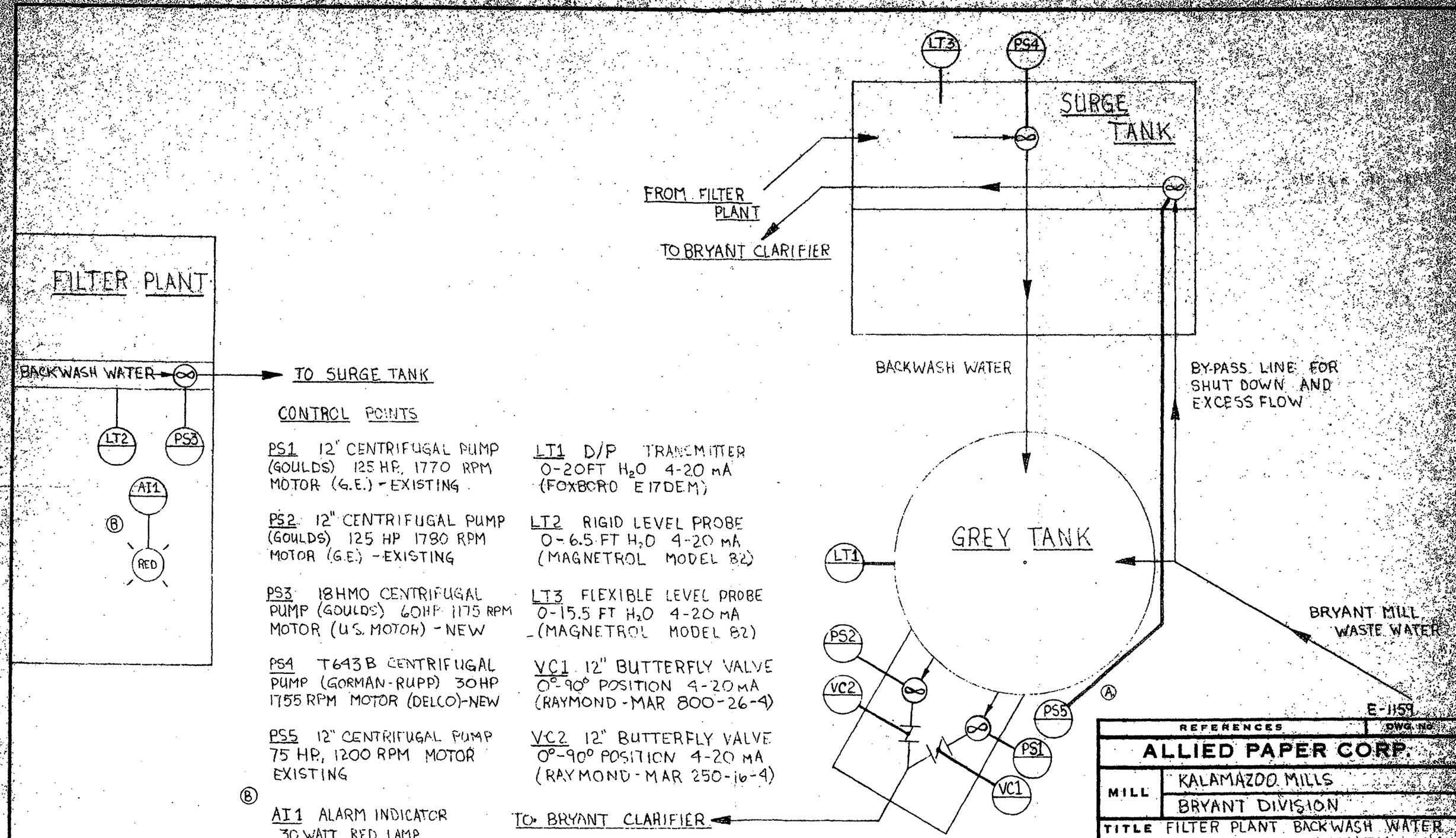
HWP:mj

063302


Washer
Washer
Washer
No 2 Fine Chest
No 3 Chest
Jordan Screens
1st Stage Slide
2nd Stage Slide
1st Stage Slide
2nd Stage Slide
No 2 Slide Chest Box
3rd Stage Slide
4th Stage Slide
3rd Stage Slide
4th Stage Slide
No 1 Chest
5th Stage Slide
6th Stage Slide
5th Stage Slide
6th Stage Slide
7th Stage Slide
8th Stage Slide
7th Stage Slide
8th Stage Slide
9th Stage Slide
10th Stage Slide
No 1 Cooler
Heater
Heater
Flat
Screens
Mill "A"
White
Natural
Chest 4
No 6 Chest
No 7 Chest
Mill "C"
No 1 Bleach Tower
No 2 Bleach Tower
No 3 Bleach Tower
Legend
White Water
Bleach Water
Bleached Water
Finished Water
Steam
Fresh Water
Note
This Drawing Supersedes Dwg. 5244 Diagram to Date 8-8-64
Allied Paper Corp.
Kalamazoo
Mill
Retail
Date


1 SLUICER
2 SLUICER
3 SLUICER
No 2 TILE CHEST
HEAT RECOVERY OUTLET
No. 3 CHEST
FLOW TRUNK
JONSSON SCREENS
1ST STAGE SLIDE
2ND STAGE SLIDE
1ST STAGE SLIDE
2ND STAGE SLIDE
No 2 SLIDE COLLECTOR BOX
HEAD TANK
3RD STAGE SLIDE
4TH STAGE SLIDE
3RD STAGE SLIDE
4TH STAGE SLIDE
3RD STAGE SLIDE
4TH STAGE SLIDE
TILE CHEST
No 5 CHEST
No 4 CHEST
VIBRATOR
No 1 CHEST
CHLORINE RETENTION TOWER
REGULATOR (EVAPORATIVE)
CLOW MIXER
SLIDE CLY MIXER
6TH STAGE SLIDE
5TH STAGE SLIDE
6TH STAGE SLIDE
5TH STAGE SLIDE
6TH STAGE SLIDE
5TH STAGE SLIDE
6TH STAGE SLIDE
5TH STAGE SLIDE
No 1 COOLER
3 TERTIARIES
16 SECONDARIES
135 PRIMARY CLEANERS
PRIMARY REJECTS BOX
VIBRATOR ADAPTED STOCK (#4 COOLER)
TAILING
FLAT
SCREENS
SEWER
HEATER
Cl2 WASHER
DEVULCIC RESIGNATOR
No 1 BLEACH TOWER
No 2 BLEACH TOWER
No 3 BLEACH TOWER
CONAN SCREEN
BLEACH MIXER
DEVULCIC RESIGNATOR
#6 CHEST
MILL "A"
WHITE
WATER
CHESTS
#8 CHEST
MILL "C"
LEGEND
WHITE WATER
BROWN WATER
BLEACH WATER
CHLORINE WATER
STOCK
FRESH WATER
CLOUDY WATER
OBSOLETE
SEE B-13314
ALLIED PAPER CORP.
SA 140158


1 SLUSHER
2 SLUSHER
3 SLUSHER
N22 TILE CHEST
JOHNSON SCREENS
1ST STAGE SLIDE
2ND STAGE SLIDE
3RD STAGE SLIDE
4TH STAGE SLIDE
5TH STAGE SLIDE
6TH STAGE SLIDE
7TH STAGE SLIDE
8TH STAGE SLIDE
FILE CHEST
VIBROTOR
ACCEPTED STOCK
TAILING
FLAT
SCREENS
SEWER
MILL "A"
WHITE
WATER
CHESTS
MILL "C"
CHLORINE RETENTION TOWER
FLOW METER
HEATER
DECHLORINATOR
No 1 BLEACH TOWER
No 2 BLEACH TOWER
No 3 BLEACH TOWER
CONC. BOX
CONDENSER
"G" CHEST
"LEGEND"
WHITE WATER
BROWN WATER
BLEACH WATER
CHLORINE WATER
STOCK
FRESH WATER
OBSOLETE SEE D-1051-5 Dated 3/1/61
REPRODUCED
ALLIED PAPER CORP.
MILL
KALAMAZOO
BRYANT "A"
TITLE STOCK & WATER HEAD DIAGRAM
DWG. NO.
SA 46150



CONTROL POINTS

PS1 12" CENTRIFUGAL PUMP (GOULDS) 125 HP, 1770 RPM MOTOR (G.E.) - EXISTING

PS2 12" CENTRIFUGAL PUMP (GOULDS) 125 HP 1780 RPM MOTOR (G.E.) - EXISTING

PS3 18HMO CENTRIFUGAL PUMP (GOULDS) 60HP 1175 RPM MOTOR (U.S. MOTOR) - NEW

PS4 T643B CENTRIFUGAL PUMP (GORMAN-RUPP) 30HP 1755 RPM MOTOR (DELCO)-NEW

PS5 12" CENTRIFUGAL PUMP 75 HP, 1200 RPM MOTOR EXISTING

(B) AI1 ALARM INDICATOR 30 WATT RED LAMP

LT1 D/P TRANSMITTER 0-20FT H_2O 4-20 mA (FOXBORO E17DEM)

LT2 RIGID LEVEL PROBE 0-6.5 FT H_2O 4-20 mA (MAGNETROL MODEL B2)

LT3 FLEXIBLE LEVEL PROBE 0-15.5 FT H_2O 4-20 mA (MAGNETROL MODEL B2)

VC1 12" BUTTERFLY VALVE 0°-90° POSITION 4-20 mA (RAYMOND-MAR 800-26-4)

VC2 12" BUTTERFLY VALVE 0°-90° POSITION 4-20 mA (RAYMOND-MAR 250-16-4)

B-106A

REVISIONS	
(A) PS5 RELOCATED AS INSTALLED	D.A.R 6-26-78
(B) AI1 ADDED D.A.R.	7-19-78

E-1159

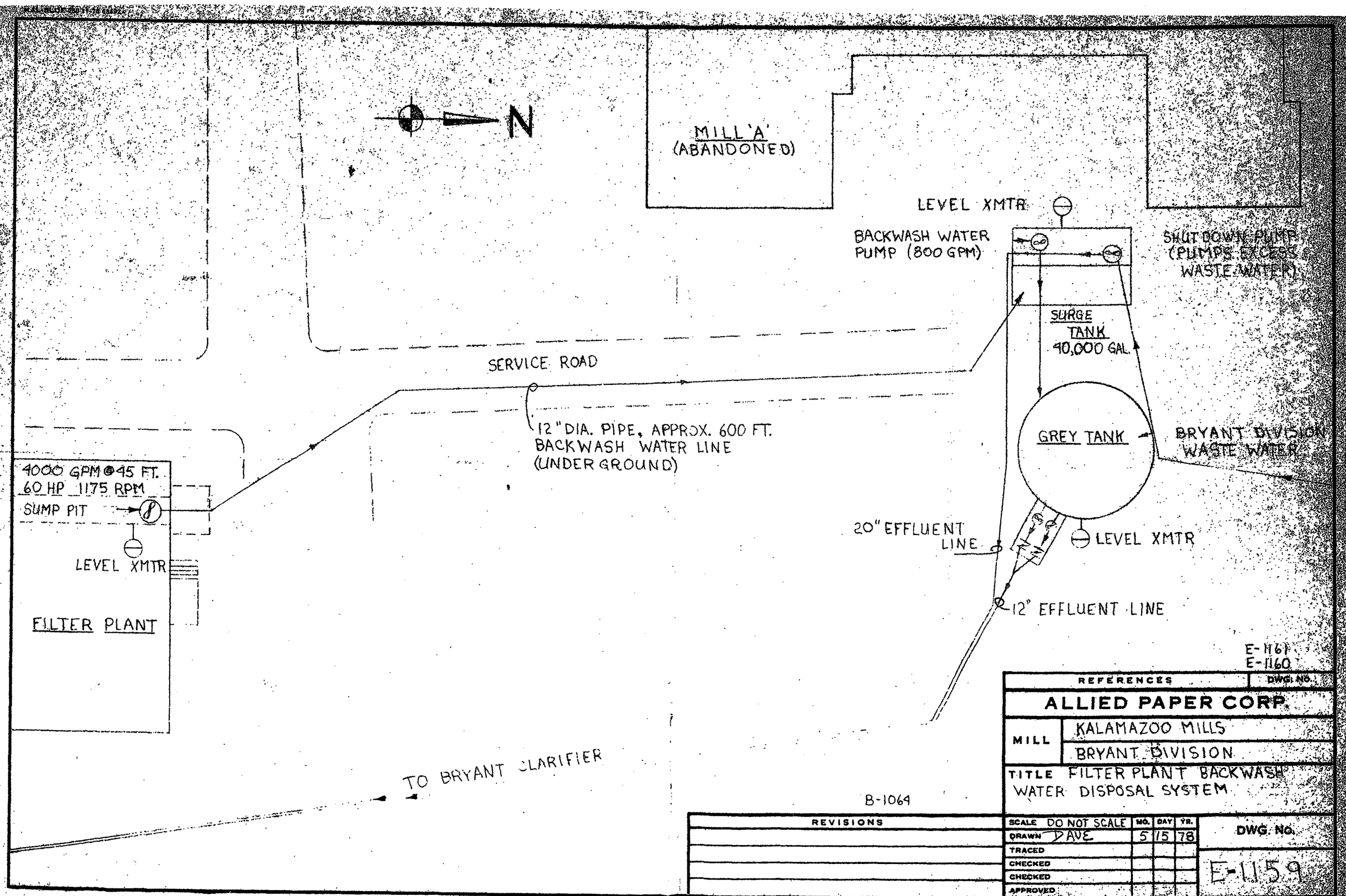
REFERENCES	DWG. No.

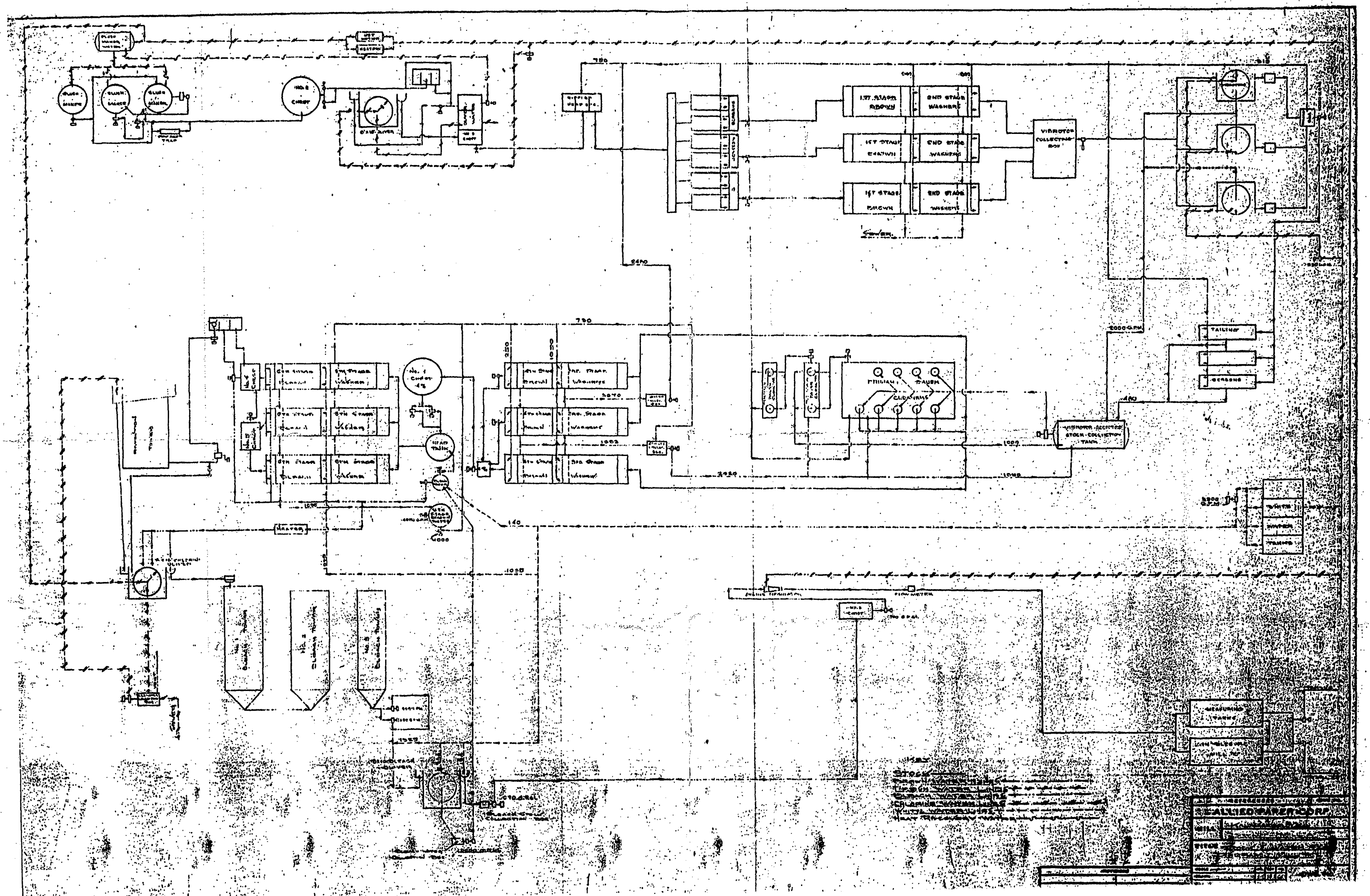
ALLIED PAPER CORP.

MILL: KALAMAZOO MILLS, BRYANT DIVISION

TITLE FILTER PLANT BACKWASH WATER DISPOSAL CONTROL SCHEMATIC

SCALE NONE	MO.	DAY	YR.	DWG. No.
DRAWN DAVE	5	17	78	E-1160
TRACED				
CHECKED				
CHECKED				
APPROVED				


N
MILL 'A'
(ABANDONED)
LEVEL XMTR
BACKWASH WATER
PUMP (800 GPM)
SHUTDOWN PUMP
(PUMPS EXCESS
WASTE WATER)
SURGE
TANK
40,000 GAL.
SERVICE ROAD
12" DIA. PIPE, APPROX. 600 FT.
BACKWASH WATER LINE
(UNDER GROUND)
GREY TANK
BRYANT DIVISION
WASTE WATER
4000 GPM @ 45 FT.
60 HP 1175 RPM
SUMP PIT
LEVEL XMTR
20" EFFLUENT
LINE
LEVEL XMTR
12" EFFLUENT LINE
FILTER PLANT
TO BRYANT CLARIFIER
B-1064
E-1161
E-1160
REFERENCES
DWG. NO.
ALLIED PAPER CORP.
MILL
KALAMAZOO MILLS
BRYANT DIVISION
TITLE FILTER PLANT BACKWASH
WATER DISPOSAL SYSTEM
REVISIONS
SCALE DO NOT SCALE
DRAWN DAVE
TRACED
CHECKED
CHECKED
APPROVED
MO. DAY YR.
5 15 78
DWG. NO.
E-1159


1ST STAGE BROWN
END STAGE WASHERS
1ST STAGE CHLORINE
END STAGE WASHERS
1ST STAGE BROWN
END STAGE WASHERS
VIBROTOR COLLECTING BOX
TAILINGS
SCREENS
BRIGHT STOCK COLLECTION TANK
BRIGHT STOCK
ALLIED PAPER CORP.

Report of Waste Surveys
at
Allied Paper Company
(Monarch Division)
Kalamazoo, Michigan

(WRC)

Survey Periods (24-hours for each)

July 28, 1955
July 29, 1955
July 30, 1955
July 31, 1955
August 1, 1955
August 2, 1955
August 3, 1955

Summary of Results

Date	7-28	7-29	7-30	7-31	8-1	8-2	8-3
Flow, million gallons per day	5.797	5.578	5.864	4.749	5.530	5.750	5.277
Production, tons	100.39	100.17	107.73		107.03	118.37	86.10
5-Day B.O.D., pounds	14,759	13,779	16,504	1,819	13,784	15,039	8,158
5-Day B.O.D., pounds per ton paper	147.02	137.55	153.19		128.78	127.05	94.75
Total suspended solids, pounds	20,745	28,402	27,969	5,163	28,735	26,387	17,826
Total susp. solids, lbs. per ton paper	206.64	283.53	259.62		268.47	222.91	207.03
Total susp. vol. solids, lbs.	8,723	9,600	9,545	3,192	10,632	7,859	7,708
Total susp. vol. solids, lbs. per ton paper	86.89	95.84	88.60		99.33	66.39	89.52
Gallons Waste per ton paper	57,745	55,685	54,432		51,668	48,576	61,289
Population equivalent	88,377	82,508	98,826	10,892	82,538	90,053	48,850
Settleable Solids Removal, per cent	101.25	82.80	81.59	-62.90	94.36	98.17	114.49
Other Paper Processing suspended solids, lbs.	5,305	5,504	6,960	3,234	11,431	7,754	4,845
Other Paper Processing suspended solids, lbs./ton paper	52.84	54.95	64.61		106.80	65.51	56.27

Type of Mill Production

De-ink Mill

Mill Water Supply

Well water and Portage Creek

Waste Control

De-ink waste flows by gravity to the main pump house. White water is pumped to the gravity line. De-ink waste and white water are pumped to a 90 foot diameter clarifier with a 12 foot side water depth. Effluent is discharged to Portage Creek. Sludge is discharged to a large lagoon. Waste waters from the bleach plant are discharged direct to Portage Creek.

Survey Procedure

063803

Effluent from the clarifier is discharged through a weir box. A company

installed recording head meter was used to obtain a continuous record of the flow. A composite sample of the effluent was obtained from the companies sampling device (water wheel type of sampler).

An influent sample was obtained from the discharge line from the pump house. A constant size sample is taken at set time intervals by a timing device and valve arrangement.

Bleach waste, white water overflows and other miscellaneous wastes plus uncontaminated waters were measured by building a weir in the culvert underneath Cork Street. A recording head meter was installed at the weir to obtain a continuous daily record of the flow. Samples were taken of the flow at fifteen minute intervals by an automatic sampler and composited for each survey period. A record of this flow was obtained during the mill shutdown period so that the difference in flow should represent the contaminated waste.

Survey Data

Influent							
Date	7-28	7-29	7-30	7-31	8-1	8-2	8-3
5-Day B.O.D., p.p.m.	690	705	610	70	440	440	240
Suspended Solids, p.p.m.	1,420	1,632	1,438	134	1,390	1,650	1,170
Suspended Vol. Solids, p.p.m.	800	708	686	74	700	650	660
2-hr. Settleable Solids, p.p.m.	956	1,116	978	124	905	1,090	690
pH	9.3	7.6	7.2	6.7	7.5	7.6	7.5
Effluent							
5-Day B.O.D., p.p.m.	350	375	430	96	350	370	200
Suspended Solids, p.p.m.	452	708	640	212	536	580	380
Suspended Vol. Solids, p.p.m.	144	204	180	96	160	132	140
pH	7.6	7.3	7.2	6.7	7.6	7.5	7.5
Flow, million gals. per day	4.096	3.878	3.936	1.091	3.871	3.852	4.096
Other Paper Processing Waste							
5-Day B.O.D., p.p.m.	58	35	48	33	52	63	31
Suspended Solids, p.p.m.	116	120	144	116	240	160	116
Suspended Vol. Solids, p.p.m.	76	60	70	76	110	70	64
2-hr. Settleable Solids p.p.m.		50	130		204	116	76
pH	6.4		6.1	8.0	6.0	4.5	6.6
Flow, million gals. per day	6.001	6.000	6.228	3.658	5.959	6.198	5.481
Production, tons	100.39	100.17	107.73		107.03	118.37	86.10

Flow during shutdown period - 4.3 million gallons per day.

Typical analyses of Portage Creek Water

B.O.D.	2	p.p.m.
Suspended Solids	10	p.p.m.
Suspended Vol. Solids	0	

Survey Calculations

Pounds of 5-Day B.O.D. to River

7-28	4.096 x 8.34 x 350 =	11,956	
	6.001 x 8.34 x (58-2) =	2,803	
			14,759
7-29	3.878 x 8.34 x 375 =	12,128	
	6.000 x 8.34 x (35-2) =	1,651	
			13,779

063804

7-30	3.936	x	8.34	x	430 =	14,115			
	6.228	x	8.34	x	(48-2) =	2,389			16,504
7-31	1.091	x	8.34	x	96 =	873			
	3.658	x	8.34	x	(33-2) =	946			1,819
8-1	3.871	x	8.34	x	350 =	11,299			
	5.959	x	8.34	x	(52-2) =	2,485			13,784
8-2	3.852	x	8.34	x	370 =	11,886			
	6.198	x	8.34	x	(63-2) =	3,153			15,039
8-3	4.096	x	8.34	x	200 =	6,832			
	5.481	x	8.34	x	(31-2) =	1,326			8,158

Pounds of 5-Day B.O.D. per ton of paper

7-28	14,759	/	100.39	=	147.02
7-29	13,779	/	100.17	=	137.55
7-30	16,504	/	107.73	=	153.19
8-1	13,784	/	107.03	=	128.78
8-2	15,039	/	118.37	=	127.05
8-3	8,158	/	86.10	=	94.75

Population Equivalent

7-28	14,759	/	0.167	=	88,377
7-29	13,779	/	0.167	=	82,508
7-30	16,504	/	0.167	=	98,826
7-31	1,819	/	0.167	=	10,892
8-1	13,784	/	0.167	=	82,538
8-2	15,039	/	0.167	=	90,053
8-3	8,158	/	0.167	=	48,850

Total Pounds of Suspended Solids to River

7-28	4.096	x	8.34	x	452 =	15,440			
	6.001	x	8.34	x	(116-10) =	5,305			20,745
7-29	3.878	x	8.34	x	708 =	22,898			
	6.000	x	8.34	x	(120-10) =	5,504			28,402
7-30	3.936	x	8.34	x	640 =	21,009			
	6.228	x	8.34	x	(144-10) =	6,960			
									27,969
7-31	1.091	x	8.34	x	212 =	1,929			
	3.658	x	8.34	x	(116-10) =	3,234			5,163
8-1	3.871	x	8.34	x	536 =	17,304			
	5.959	x	8.34	x	(240-10) =	11,431			
									28,735

063805

8-2	3.852	x	8.34	x	580	=	18,633	
	6.198	x	8.34	x	(160-10)	=	7,754	
								26,387
8-3	4.096	x	8.34	x	380	=	12,981	
	5.481	x	8.34	x	(116-10)	=	4,845	
								17,826

Total Pounds of Suspended Solids per Ton of Paper

7-28	20,745	/	100.39	=	206.64
7-29	28,402	/	100.17	=	283.53
7-30	27,969	/	107.73	=	259.62
8-1	28,735	/	107.03	=	268.47
8-2	26,387	/	118.37	=	222.91
8-3	17,826	/	86.10	=	207.03

Other Paper Processing Suspended Solids, pounds per Ton Paper

7-28	5,305	/	100.39	=	52.84
7-29	5,504	/	100.17	=	54.95
7-30	6,960	/	107.73	=	64.61
8-1	11,431	/	107.03	=	106.80
8-2	7,754	/	118.37	=	65.51
8-3	4,845	/	86.10	=	56.27

Total Pounds of Suspended Volatile Solids to River

7-28	4.096	x	8.34	x	144	=	4,919	
	6.001	x	8.34	x	76	=	3,804	
								8,723
7-29	3.878	x	8.34	x	204	=	6,598	
	6.000	x	8.34	x	60	=	3,002	
								9,600
7-30	3.936	x	8.34	x	180	=	5,909	
	6.228	x	8.34	x	70	=	3,636	
								9,545
7-31	1.091	x	8.34	x	96	=	873	
	3.658	x	8.34	x	76	=	2,319	
								3,192
8-1	3.871	x	8.34	x	160	=	5,165	
	5.959	x	8.34	x	110	=	5,467	
								10,632
8-2	3.852	x	8.34	x	132	=	4,241	
	6.198	x	8.34	x	70	=	3,618	
								7,859
8-3	4.096	x	8.34	x	140	=	4,782	
	5.481	x	8.34	x	64	=	2,926	
								7,708

Total Pounds of Suspended Volatile Solids per Ton of Paper

7-28	8,723	/	100.39	=	86.89
7-29	9,600	/	100.17	=	95.84
7-30	9,545	/	107.73	=	88.60
8-1	10,632	/	107.03	=	99.33
8-2	7,859	/	118.37	=	66.39
8-3	7,708	/	86.10	=	89.52

Gallons Waste per Ton of Paper

7-28	(4,096,000 + 6,001,000 - 4,300,000)	/	100.39	=	57,745
7-29	(3,878,000 + 6,000,000 - 4,300,000)	/	100.17	=	55,685
7-30	(3,936,000 + 6,228,000 - 4,300,000)	/	107.73	=	54,432
8-1	(3,871,000 + 5,959,000 - 4,300,000)	/	107.03	=	51,668
8-2	(3,852,000 + 6,198,000 - 4,300,000)	/	118.37	=	48,576
8-3	(4,096,000 + 5,481,000 -- 4,300,000)	/	86.10	=	61,289

Treatment Plant Efficiency
B.O.D. Removal

7-28	(690 - 350)	x	100	/	690	=	49.27%
7-29	(705 - 375)	x	100	/	705	=	46.80%
7-30	(610 - 430)	x	100	/	610	=	29.50%
7-31	(70 - 96)	x	100	/	70	=	37.14%
8-1	(440 - 350)	x	100	/	440	=	20.45%
8-2	(440 - 370)	x	100	/	440	=	15.90%
8-3	(240 - 200)	x	100	/	240	=	16.66%

Suspended Solids Removal

7-28	(1,420 - 452)	x	100	/	1,420	=	68.16%
7-29	(1,632 - 708)	x	100	/	1,632	=	56.61%
7-30	(1,438 - 640)	x	100	/	1,438	=	55.49%
7-31	(134 - 212)	x	100	/	134	=	58.20%
8-1	(1,390 - 536)	x	100	/	1,390	=	61.43%
8-2	(1,650 - 580)	x	100	/	1,650	=	64.84%
8-3	(1,170 - 380)	x	100	/	1,170	=	67.52%

Suspended Volatile Solids Removal

7-28	(800 - 144)	x	100	/	800	=	82.00%
7-29	(708 - 204)	x	100	/	708	=	71.18%
7-30	(686 - 180)	x	100	/	686	=	73.76%
7-31	(74 - 96)	x	100	/	74	=	29.72%
8-1	(700 - 160)	x	100	/	700	=	77.14%
8-2	(650 - 132)	x	100	/	650	=	79.69%
8-3	(660 - 140)	x	100	/	660	=	78.78%

Settleable Solids Removal

7-28	(1,420 - 452)	x	100	/	956	=	101.25%
7-29	(1,632 - 708)	x	100	/	1,116	=	82.80%
7-30	(1,438 - 640)	x	100	/	978	=	81.59%
7-31	(134 - 212)	x	100	/	124	=	62.90%
8-1	(1,390 - 536)	x	100	/	905	=	94.36%
8-2	(1,650 - 580)	x	100	/	1,090	=	98.17%
8-3	(1,170 - 380)	x	100	/	690	=	114.49%

Remarks

During the construction of the weir and also during the survey periods, suspended solids were observed that no doubt originated from white water overflows. These solids along with those from the bleach washers are included as those from other paper processing waste.

The following is the theoretical detention time in the clarifier for the average daily flow on each of the survey dates:

7-28	3.36 hours
7-29	3.54 hours
7-30	3.49 hours
7-31	12.60 hours
8-1	3.55 hours
8-2	3.57 hours
8-3	3.36 hours

Survey written by
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Chemical Analyses by
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FROM: P. E. GERMANN

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MONTH OF OCTOBER 1962

KING DIVISION WASTE TREATMENT EFFLUENT				BRYANT DIVISION WASTE TREATMENT EFFLUENT		
Flow (MGD)	BOD (#/Day)	Suspended Solids (#/Day)	DATE	Flow (MGD)	BOD (#/Day)	Suspended Solids (#/Day)
2.80	7,950	-	10/3	4.66	13,400	-
2.80	10,400	10,280	10/4	4.66	14,700	17,100
2.69	9,880	5,380	10/5	4.44	12,550	14,050
-	-	-	10/10	4.55	12,750	9,860
3.70	-	24,800	10/11	3.39	12,100	3,390
3.55	10,100	15,400	10/12	-	-	-
5.20	-	46,800	10/16	3.55	-	-
4.70	12,750	39,500	10/17	-	-	-
4.40	19,100	17,400	10/18	4.66	17,600	3,080
4.22	8,330	15,500	10/19	4.44	13,600	38,400
4.48	8,360	8,200	10/24	3.28	12,500	28,700
4.48	15,000	19,450	10/25	3.28	14,000?	30,100
4.35	16,200	32,600	10/26	4.46	12,200	27,400
Avg. 3.95	11,810	21,390	Avg.	4.12	13,540	19,120

Note: Tests run on grab samples. Full Flow at King 7MGD, Bryant 6MGD.

FMH-123

Allied Paper Company
King Division
Test Data

January 8, 1963 - 6-hr. composite Sample
Fresh Water Usage 7.87 mgd.
Tons Produced 173

Suspended Solids

Sampling Point	Flow Mgd.	Before Settling ppm	Before Settling lbs/day	After Settling 1-hr. ppm	After Settling 1-hr. lbs/day	Percent Settleable
East Sewer	1.19	4254	38,500	40	404	99.4
Pulp M. Bas.	2.18	3468	64,100	36	650	99.0
High Sewer	4.03	3572	119,100	36	1200	99.0
C. Influent	7.40	3600	✓221,700	85	5240	97.7
C. Effluent	7.40	1916	✓118,000	108	6580	94.3

Biochemical Oxygen Demand

						% Removed
East Sewer	1.19	290	2,880	50	495	83
Pulp M. Bas.	2.18	150	2,740	100	1820	33
High Sewer	4.03	860	28,800	140	4700	84
C. Influent	7.40	550	✓34,420	410	25300	26
C. Effluent	7.40	410	✓25,300	300	18500	26

lbs BOD/Ton produced 199

lbs Sus. Solids/Ton produced 1275

Sludge 5.1% Solids 19% Fiber

NCASI

Allied Paper Company
Mill Division
Test Data

January 16, 1963 - 8-hr. composite Sample

Fresh Water Usage 7.1 mgd.

Tons Produced - 199

Suspended Solids

Sampling Point	Flow Mgd.	Before Settling ppm	Before Settling lbs/day	After Settling 1-hr. ppm	After Settling 1-hr. lbs/day	Percent Settleable
East Sewer	1.14	2436	23,700	43	408	98.7
Pulp M. Bas.	2.65	1768	39,100	89	1960	95.0
High Sewer	3.01	1784	44,600	129	3230	91.3
C. Influent	6.80	1900	✓107,400	42	2380	97.8
C. Effluent	6.80	404	✓22,800	120	6800	70.0

Biochemical Oxygen Demand

						% Removed
East Sewer	1.14	350	3,340	75	710	97.9
Pulp M. Bas.	2.65	620	13,680	245	5400	60.0
High Sewer	3.01	350	8,780	200	5000	47.0
C. Influent	6.80	455	✓25,800	245	13850	46.0
C. Effluent	6.80	250	✓14,175	250	14175	00.0

lbs BOD/Ton produced 116

lbs Sus. Solids/Ton produced 540

Sludge 5.0% Solids 20% Fiber

Allied Paper Company
King Division
Test Data

January 24, 1963 - 8-hr composite Samples

Fresh Water usage. 8.55 mgd.

Tons Produced - 255

Suspended Solids

Sampling Point	Flow Mgd.	Before Settling ppm	Before Settling lbs/day	After Settling 1-hr. ppm	After Settling 1-hr. lbs/day	Percent Settleable
East Sewer	1.26	1578	16,550	59	620	95.8
Pulp M. Bas.	2.37	2434	48,000	182	3600	92.5
High Sewer	4.27	2740	97,500	102	3620	96.3
C. Influent	7.90	2463	162,050	20	1230	99.2
C. Effluent	7.90	368	24,200	10	615	96.7
		Biochemical Oxygen Demand				% Removed
East Sewer	1.26	355	3,730	110	1160	70.0
Pulp M. Bas.	2.37	1400	27,600	820	16150	41.5
High Sewer	4.27	700	24,800	480	17100	31.0
C. Influent	7.90	940	61,850	360	23600	61.8
C. Effluent	7.90	390	25,600	300	19700	23.0

Gals/Ton 33.5

lbs BOD/Ton produced 242

lbs Sus. Solids/Ton produced 635

Sludge - 5.2% Solids 22% Fiber

Allied Paper Company
King Division
Test Data

January 24, 1963 - 8-hr composite Samples

Fresh Water usage. 8.55 mgd.

Tons Produced - 255

Suspended Solids

Sampling Point	Flow Mgd.	Before ppm	Settling lbs/day	After ppm	Settling 1-hr. lbs/day	Percent Settleable
East Sewer	1.26	1578	16,550	59	620	95.8
Pulp M. Bas.	2.37	2434	48,000	182	3600	92.5
High Sewer	4.27	2740	97,500	102	3620	96.3
C. Influent	7.90	2463	162,050	20	1230	99.2
C. Effluent	7.90	368	24,200	10	615	96.7
		Biochemical Oxygen Demand				% Removed
East Sewer	1.26	355	3,730	110	1160	70.0
Pulp M. Bas.	2.37	1400	27,600	820	16150	41.5
High Sewer	4.27	700	24,800	480	17100	31.0
C. Influent	7.90	940	61,850	360	23600	61.8
C. Effluent	7.90	390	25,600	300	19700	23.0

Gals/Ton 33,500

lbs BOD/Ton produced 242

lbs Sus. Solids/Ton produced 635

Sludge - 5.2% Solids 22% Fiber

FMH-155

NCASI 000123

ALLIED PAPER CO.

TOTAL MILL WASTE SURVEY

September 1946

Surveys to determine the total quantity of waste entering the Kalamazoo River from the Allied Paper Co. mills were carried on during the week of September 22 by National Council for Stream Improvement personnel. These surveys were a part of the National Council's 1946 joint river survey program carried on in cooperation with the Michigan Stream Control Commission to determine the total waste load on the Kalamazoo River and the waste treating capacity of the river. Additional data were also collected at this time which will be of value in the future in considering the problem of waste disposal for this mill. The surveys were carried on simultaneously at the Monarch and King Divisions. No survey was made at the mill at Otsego as previous surveys have indicated that the waste from coating mills is negligible, in comparison to the overall pollution load except during the short periods of wash up.

Mr. H. B. Johnston, chief engineer of the Allied Paper Co. arranged for the installation of the measuring weirs and gave all necessary assistance in arranging for the survey.

MONARCH WEIR INSTALLATION.

To measure the total waste discharged from the Monarch mill a 6 feet 0 inch wide rectangular metal edged weir was set in the west side of the twin box culvert under Cork Street just north of the mill. The culvert was 10 feet wide and was of constant depth so provided an ideal approach section for this weir. A recording head meter was installed to obtain a continuous record of the flow during the period of the survey. The flow to the opposite half of the culvert which did not have the weir was blocked off with sand bags to temporarily divert all waste flow through the weir. It was impossible to stop all leakage through this sandbag dam so the quantity of this leakage was checked on the basis

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of velocity and end area of flow. In accordance with this data the indicated leakage of 150 gallons per minute has been added to all computed weir discharges to arrive at total mill waste values.

MONARCH SURVEY PROCEDURES.

The flow meter was in operation from 4 P.M. September 24 to 8 A.M. September 29 to obtain flow data on normal operation of the mill. Additional flow data were obtained on October 6 when the mill was shut down to determine the flow through the steam condenser and the leakage through the water wheel.

Samples were collected at half hour intervals from 4 P.M. to midnight September 24 for Run No. 1 and from 8 A.M. to 4 P.M. September 27 for Run No. 2. The 16 samples collected during a sampling period were composited in proportion to the flow to provide one sample for analysis. The data obtained are shown on the attached Waste Flow Data and Waste Analysis Sheets. Both flow and analytical data are summarized on the attached Summary data sheets and deductions are made for the solids and B.O.D. present in the raw water supply (pond water).

Mill operation during the sampling period was approximately normal. Production figures obtained from Mr. Johnston for the two shifts when samples were collected are presented on the summary data sheet as a record for future references.

KING WEIR INSTALLATION.

To measure the total waste discharged from the King mill a 5 feet,0 inch wide rectangular metal edged weir was set in the earth channel north of the mill at the east end of Vine Street. A recording head meter was installed to record the flow over this weir.

The weir was installed in this ditch on the understanding that all wastes from this mill were discharged to the Kalamazoo at this point. After the survey was completed it was found that an unknown amount of the mill waste was reaching the river through a city sewer, the condition possibly being aggravated during

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the survey period by the changed hydraulic balance because the measuring weir backed the flow up in the ditch.

The data obtained on quantity of flow for the King division therefore cannot be considered as accurate. The total flow will be somewhat greater than the data indicates. The analysis of the waste is, however, representative and the flow figures sufficiently accurate for the river survey work. They could not be considered accurate enough for considering waste treatment.

KING SURVEY PROCEDURE.

The same procedure was used at this mill as at the Monarch mill and flow data and samples were collected at the same times, except that additional flow data were not collected on October 6.

All data are presented in the attached Waste Flow Data, Waste Analysis and Summary Data Sheets.

Kalamazoo, Michigan

November 7, 1946

NCASI 000254

MONARCH DIVISION

ALLIED PAPER COMPANY

WASTE FLOW DATA

September - October 1946

	Waste Flow M.G.D.					
	Sept. 24	Sept. 25	Sept. 26	Sept. 27	Sept. 28	Oct. 6
Average Rate 8 A.M. to 4 P.M.	—	10.09	10.20	10.26[2]	10.22	
Average Rate 4 P.M. to Midnight	10.11[1]	10.25	10.34	10.26	10.34	
Average Rate Midnight to 8 A.M.	10.08	10.22	10.32	10.18	10.35	10.11
Maximum 10 Minute Rate	10.67	11.0	10.6	10.9	10.8	
Maximum 2 Hour Rate	10.27	10.4	10.4	10.4	10.4	
Average Flow Rate from Steam Plant and Water Wheel Leakage, Machines off, 12:20 P.M. to 2:25 P.M.						7.74
Average Rate Water Wheel Leakage - Mill completely down, 2:50 P.M.						4.84
Average Rate Water Wheel Operating, Mill Completely Down, 3:00 P.M.						17.+

Average Total Daily Waste Flow to River - 10.23 M.G.D.
4.84
5.39

Average Net Waste from Deinking Plant and Paper Manufacturing 2.49 M.G.D.

Notes: 1. Run No. 1, 4 P.M. Midnight September 24
2. Run No. 2, 8 A.M. to 4 P.M. September 27

7.74
4.84
2.90

	MGD
Water Wheel operating	17.+
Water wheel Leakage only	4.84
Condenser Water only	2.90
Process Water only	2.49
Process water and Condenser	5.39

MONARCH DIVISION

ALLIED PAPER COMPANY

WASTE ANALYSIS

September 1946 Survey

	Run No.1		Run No.2		Average
	p.p.m.	lb./day[2]	p.p.m.	lb./day[2]	lb./day
Raw Waste					
B.O.D.	122	10,280	133	11,380	10,840
Suspended Solids	467	39,400	245	20,950	30,180
Volatile Suspended (Fiber)	137	11,550	110	9.400	10,480
Total Solids	1075	95,000	851	72,700	83,850
Volatile Total	408	34,450	373	31,900	33,180
pH	8.38		8.42		
Methyl Orange Alkalinity	294		285		
Settled Waste		Reduction by Settling		Reduction by Settling	Average Reduction
B.O.D.	111	9%	119	10%	10%
Suspended Solids	215	54%	136	45%	50%
Volatile Suspended (Fiber)	37	73%	32	71%	72%
Total Solids	825	23%	711	17%	20%
Volatile Total	315	23%	311	17%	20%
Settled Solids					
Volume of Solids at one Hour in % of Waste Volume	1.2%		0.8%		
Filtrate of Waste		Reduction by Filtering		Reduction by Filtering	Average Reduction
B.O.D.	92	25%	110	27%	26%

Notes: 1. All values in p.p.m. except pH and Settled Solids
2. Based on average flow for corresponding period from "Waste Flow Data".

MONARCH DIVISION

ALLIED PAPER COMPANY

WATER SUPPLY ANALYSIS AND SUMMARY DATA

September 1946 Survey

Water Supply (Mill Pond) 4 P.M. to Midnight September 24, Composite Sample

	p.p.m.[1]	lb./day[2]
B.O.D.	2.4	205
Suspended Solids	0	-
Volatile Suspended	0	-
Total Solids	255	21,750
Volatile Total	77	6,580
pH	8.15	
Alkalinity - Methyl Orange	200	

Summary Data

	Total		Suspended		B.O.D.	Flow
	Solids lb/day	Volatile lb./day	Solids lb./day	Volatile lb./day	lb./day	M.G.D.
Total Waste	83,850	33,180	30,180	10,480	10,840	10.23 To
Water Supply	21,750	6,580	0	0	205	
Net Increase	62,100	26,600	30,180	10,480	10,635	2.49 Ne

Paper Production Rates During Sampling Period

Paper Production Rate, Run No. 1 - 86.40 Tons/day
Run No. 2 - 76.02 Tons/day

Notes: 1. All values in p.p.m. except pH
2. Based on average total waste flow from mill of 10.23 M.G.D.
3. Net flow is waste from paper and stock washing process.

KING DIVISION

ALLIED PAPER COMPANY

WASTE FLOW DATA

September 1946

	Waste Flow M.G.D.				
	Sept. 24	Sept. 25	Sept. 26	Sept. 27	Sept. 28
Average Rate 8 A.M. to 4 P.M.	-	4.48	4.62	4.16 [2]	4.62
Average Rate 4 P.M. to Midnight	4.63 [1]	4.60	4.51	4.84	
Average Rate Midnight to 8 A.M.	4.70	4.66	4.42	4.91	
Maximum 10 Minute Rate	5.00	5.25	4.95	5.25	
Maximum 2 hour Rate	4.75	4.85	4.70	4.96	

Average Total Daily Waste Flow to River 4.59 M.G.D.

Notes:
1. Run No. 1 4 P.M. to Midnight September 24
2. Run No. 2 8 A.M. to 4 P.M. September 27
3. See discussion on King Weir Installation regarding accuracy of this data

NCASI 000258

KING DIVISION

ALLIED PAPER COMPANY

WASTE ANALYSIS

September 1946 Survey

	Run No.1		Run No.2		Averag
	p.p.m.[1]	lb./day[2]	p.p.m.[1]	lb./day[2]	lb./da
RAW WASTE					
B.O.D.	202	7,800	250	8,650	8,22C
Suspended Solids	654	25,250	723	25,000	25,13C
Volatile Suspended (Fiber)	154	5,940	199	6,880	6,41C
Total Solids	1660	64,000	1850	64,000	64,000
Volatile Total	576	22,250	594	20,550	21,400
pH	8.60		8.62		
Methyl Orange Alkalinity	511		535		
SETTLED WASTE		Reduction by Settling		Reduction by Settling	Average Reductic
B.O.D.	189	6%	227	9%	8%
Suspended Solids	417	36%	402	44%	40%
Volatile Suspended (Fiber)	74	52%	91	54%	53%
Total Solids	1412	15%	1551	16%	16%
Volatile Total	449	22%	556	6%	14%
SETTLED SOLIDS		Reduction by Filtering		Reduction by Filtering	Average Reductic
Volume of Solids at one hour (in % of Waste Volume)	0.5		0.9		
FILTRATE OF WASTE					
B.O.D.	173	14%	194	22%	18%

Notes: 1. All values in p.p.m. except pH and settled solids
2. Based on average flow for corresponding period from "Waste Flow Dat

KING DIVISION

ALLIED PAPER COMPANY

WATER SUPPLY ANALYSIS AND SUMMARY DATA

September 1946 Data

Water Supply Samples of September 27th.

	Well Water p.p.m.[1]	Well Water lb./day[2]	River Water p.p.m.[1]
B.O.D.	0.5	19	2.9
Suspended Solids	0	-	15
Volatile Suspended	0	-	6
Total Solids	395	15,100	325
Volatile Total	52	1,990	55
pH	8.20		8.30
Alkalinity - Methly Orange	287		234

Summary Data [3]

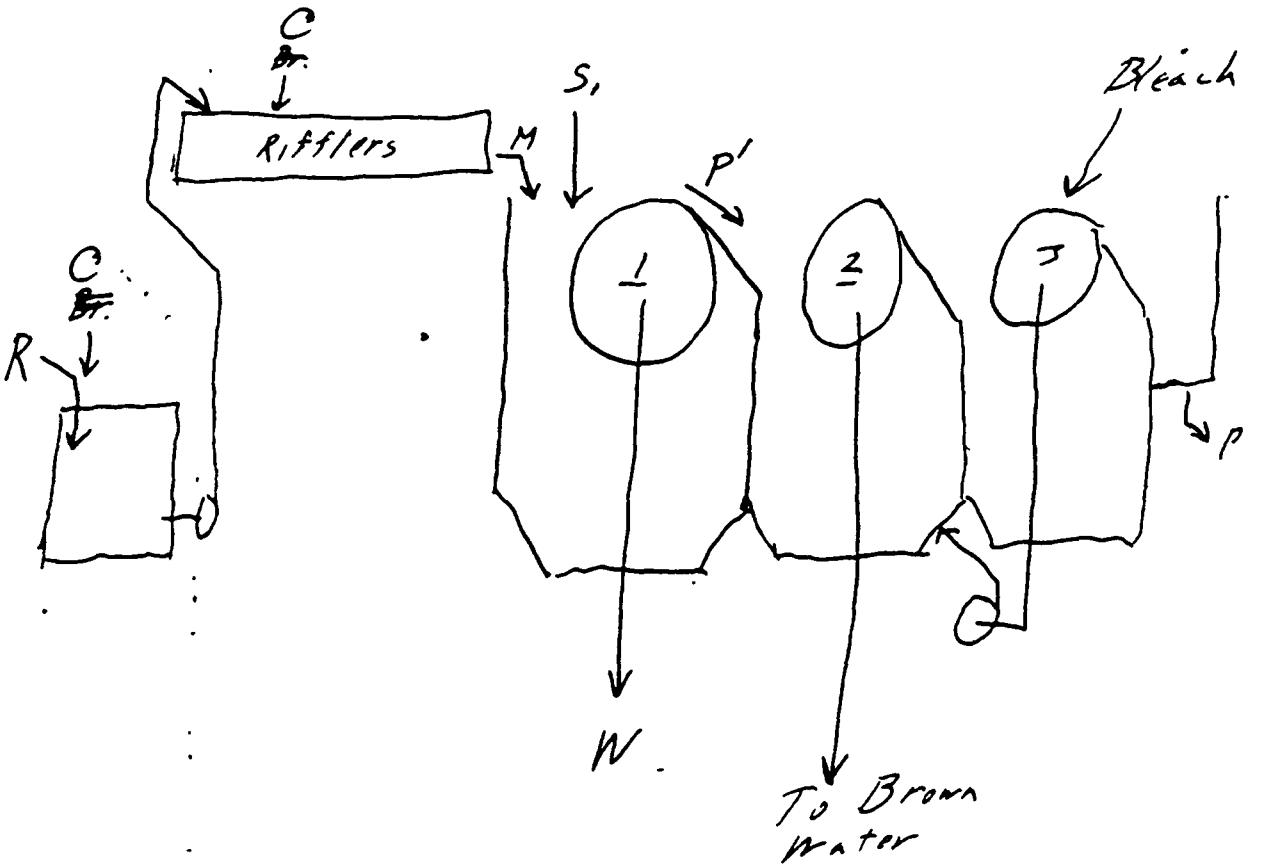
	Total Solids lb/day	Total Volatile lb/day	Suspended Solids lb/day	Suspended Volatile lb/day	B.O.D. lb./day	Flow M.G.D.
Total Waste	64,000	21,400	25,130	6,410	8,220	4.59
Water Supply	15,100	1,990	-	-	19	
Net Increase	48,900	19,410				

Paper Production Rates During Sampling Periods

Paper Production Rate - Run No. 1 - 147.1 Tons/day
Run No. 2 - 129.7 Tons/day

Notes:
1. All values in p.p.m. except pH.
2. Based on Total Water Consumption of 4.59 M.G.D.
3. See discussion on King Weir Installation regarding accuracy of these data.

Material Balance Allied Monarch
March 15 and 16, 1946



MARCH 16

Balance around first Cylinder

BASIS SUSP.

$M_s = P'_s + W_s$

$M_s = .0209 M$

$P'_s = .0630 P'$

$W = 5610$ lb/min

$W_s = .00264 W = .00264 \times 5610$

$= 14.8$ lb/min.

$S_1 = 2778$ lb/min

$.0209 M = .0630 P' + 14.8$

$M = 3.01 P' + 708$

$M + S_1 = P' + W$

$3.01 P' + 708 + 2778 = P' + 5610$

$2.01 P' = 2124$

$P' = 1057$

$P'_s = .0630 \times 1018 =$

$= 64.2$

BASIS TOTAL

$S_s + M_s = P'_s + W_s$

$M_s = .0244 M$

$P'_s = .0641 P'$

$W = 5610$

$W_s = .00556 \times 5610 = 31.$

$S_1 = 2778$

$S_{1s} = .00029 \times 2778 = 0.81$

$.81 + .0244 M = .0641 P' + 31.15$

$.0244 M = .0641 P' + 30.34$

$M = 2.625 P' + 1243$

$M + S_1 = P' + W$

$2.625 P' + 1243 + 2778 = P' + 5$

$1.625 P' = 1589$

$P' = 978$

Ave $P' = 1018$ lb/min

$P'_s = .0641 \times 1018 =$

$= 65.3$

$M + S_1 = P' + W$

$M = 1018 + 5610 - 2778$

$M = 3850$

$M_s = .0209 M = 80.4$

$= 80.4$

$M_s = .0244 \times 3850$

$= 94.0$

CHECK

P'_s 64.2 $M_s = 80.4$

W_s 14.8 $S_{1s} =$

79.0 lb 174.4 lb

CHECK

P'_s = 65.3 $M_s = 9$

W_s = 31.15 $S_{1s} =$

96.45 174.05

March 16

Balance around riffler

BASIS SUSP.

$R + C = M$

$R_s + C_s = M_s$

$M = 3850$

$M_s = 80.4$

$C_s = .00186\ C$

$R_s = .0312\ R$

$.0312R + .00186C = 80.4$

$C = 43{,}200 - 16.75R$

$R + 43{,}200 - 16.75R = 3850$

$15.75R = 39{,}350$

$R = 2{,}495$

~~Acc~~ $R = \cancel{2268}$ 2495 wrong

~~R_s 77.8~~

$R_s = .0312 \times \cancel{2268}\ 2495$

$= \cancel{70.8}\ 77.8$ lb/min

$C = M - R = 3850 - \cancel{2268}\ 2495$

$C = \cancel{1582}\ 1355$

$C_s = .00186 \times \cancel{1582}\ 1355$

$C_s = \cancel{2.94}\ 2.52$

Check

$R_s = \cancel{70.8}\ 77.8$ $M_s = 80.4$

$C_s = \cancel{2.3}$

73.7

70.7

BASIS TOTAL

$M_s = 94.0$

$C_s = .00337\ C$

$R_s = .0435\ R$

$.0435R + .00337C = \cancel{98.7}\ 94.0$

$C = 27{,}900 - 12.92R$

$R + 27{,}900 - 12.92R = \cancel{385}$

$11.92R = 24{,}050$

$R = 2040$ NOTE value

~~R_s 88.8~~

$R_s = .0435R = .0435 \times$

$R_s = \cancel{98.7}\ 108.1$

$C_s = .00337 \times \cancel{1582}\ 1355$

$C_s = \cancel{5.33}\ 4.57$

$R_s = 98.7$ $M_s = 94$

$C_s = \frac{5.3}{104.0}$ 104.7

B.O.D Computations

March 15

Brown water 1249 lb/min @ 570 ppm = .711 lb/min

Waste 3740 lb/min @ 1375 ppm 5.13 lb/min

March 16

Brown water 1355 @ 710 .70 lb/min

Waste. 5610 @ 1405 7.88

Waste Computations

Raw Fiber = 49.4 lb/min or 1000 lb in 20.2 min

Volume Waste 448 GPM × 20.2 = 9,080

BOD 5.13 × 20.2 103.8

Susp Solids 12.48 × 20.2 252.

Inert Susp Solids 7.78 × 20.2 157.

Fiber " 4.70 × 20.2 95

Waste Compst for [illegible] Raw Fiber [illegible] Volume reg. 13.45 min for 1000

Liquid Drained from Raw Stock

March 15

$R = 1822$ lb/min

$R_s = 75.3$ lb/min

x = Drained stock

Y = Liquid drained from stock

$$x + Y = R$$

$$x_s + Y_s = R_s$$

$$x_s = .0906\,x$$

$$Y_s = .0088\,Y$$

$$.0906\,x = 75.3 - .0088\,Y$$

$$x = 832 - .0972\,Y$$

$$832 - .0972\,Y + Y = 1822$$

$$.9028\,Y = 990$$

$$Y = 1098 \text{ lb/min}$$

$$Y_s = 9.67$$

BOD in drained liquor 1098 lb/min @ 3200 ppm = 3,515 lb/

Liquid drained from the stock

March 16

~~100%~~
~~9.34~~

$x + Y = R$ $\quad R = \cancel{2268}\ 2495$ lb/min

$x_s + Y_s = R_s$ $\quad R_s = \cancel{98.7}\ 89.4$ lb/min

$x_s = .0934\,x$

$Y_s = .01079\,Y$

$.0934X + .01079Y = \cancel{98.7}\ 89.4$

$x + 0.1155Y = \cancel{1057}\ 958$

$x = \cancel{1057}\ 958 - 0.1155Y$

$\cancel{1057}\ 958 - .1155Y + Y = \cancel{2268}\ 2495$

$.8845Y = \cancel{1211}\ 1537$

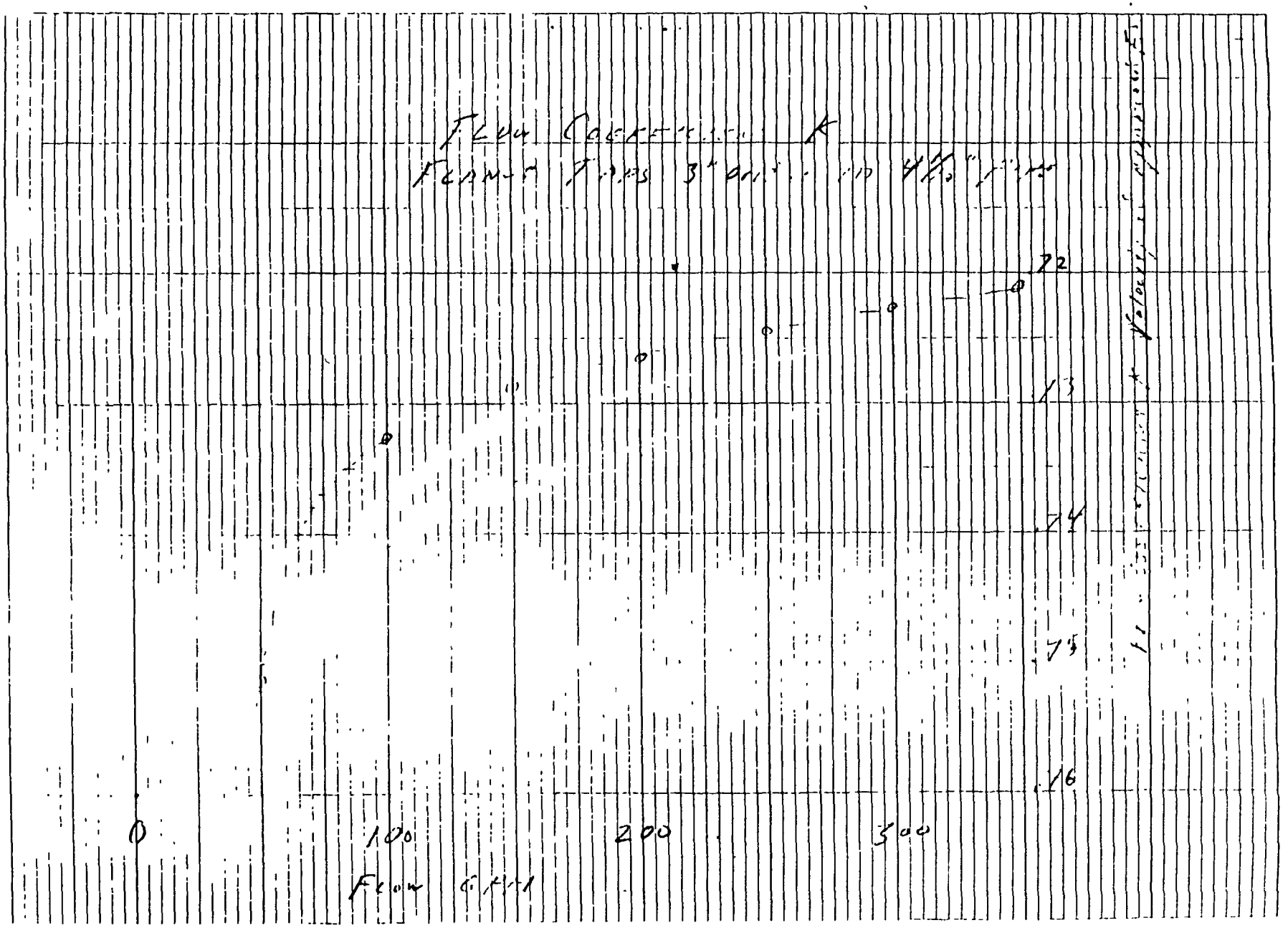
$Y = \cancel{1370}$ lb/min

$Y_s = 14.75$ lb/min

B.O.D. in drained liquor.

$\cancel{1370}$ lb/min @ 2700 = $\cancel{3.7}$ lb/min

NO. 340 10 DIETZGEN GRAPH PAPER
EUGENE DIETZGEN CO.



NCRSI 000267

Check Orifice discharge curve with formula from "Water and Sewage"

$$Q = C_o A_2 \sqrt{\frac{2 g h_d}{1-\left(\frac{A_2}{A_1}\right)^2}} = C_o A_2 \sqrt{\frac{2 g h_d}{1-\left(\frac{D_2}{D_1}\right)^4}}$$

$D_2 = (3'') = 0.25\ ft$

$D_1 = (4\tfrac{1}{16}'') = 0.334$ $\quad \frac{D_2}{D_1} = .748$

$A_2 = \frac{\pi 3^2}{4 \times 144} = .04920\ ft$ $\qquad 1-\left(\frac{D_2}{D_1}\right)^4 = 1 - .31 = .68$

$C_o = 0.606$

$$Q = .606 \times .0492 \sqrt{\frac{2g}{.6855} h_d} = .606 \times .0492 \sqrt{94.0}\ \sqrt{h_d}$$

$$Q = .289 \sqrt{h_d}$$

If h = head inches and h_d = head in feet

$Q = .289 \sqrt{\frac{h}{12}} = .289 \sqrt{.0834}\ \sqrt{h}$

$Q = .289 \times .2885 \sqrt{h} = .0835\ \sqrt{h}$

If q = discharge in gal/min

$q = \frac{60 \times 748}{7.48} \times .0835 \sqrt{h} = 37.5 \sqrt{h}$

for $h = 3''$ Hg $\quad q = 37.5 \sqrt{37.6} = 230$ gal

O.K. Check curve.

To: R. M. Levy & R. A. Larson

Date: May 25, 1959

From: U. G. Stoeffler ✓

cc: H. B. Johnston
L. B. Owen
E. J. Gilman
A. Mulder
D. Falvey
R. Bell
R. J. Willie

Subject: Waste Treatment Program

Now that a Kalamazoo meeting of the Water Resources Commission for late September (changed from June by request of the Kalamazoo River Improvement Company) is now definite, it becomes imperative that we make the very best effort to make a good showing. We must show progress and intent so that we will have sufficient time to complete studies and prepare plans for what is thought to be an inevitable ruling by the W. R. C. for further pollution abatement which will mean secondary treatment.

A letter of April 9, 1958 from W. R. C. contains "possible potential future obligations". The letter listed "two schemes of allocations (a) Require 61.4% reduction of all waste loads from the 1950 level, (b) Require a 75% reduction of the 1950 de-ink mill waste loads with all other waste sources limited to their 1955-56 level. Under these two schemes your share of this allocation would be either"

King Division

(a) 6,293# of 5-day B.O.D.
(b) 4,075# of 5-day B.O.D.

Monarch Division

(a) 3,900# of 5-day B.O.D.
(b) 2,526# of 5-day B.O.D.

Bryant Division

(a) 4,288# of 5-day B.O.D.
(b) 2,776# of 5-day B.O.D.

Falvey
EXHIBIT NO. 4
M. LANTIS 9/4/97

DEPOSITION EXHIBIT
Kendrick #563
4/24/97 cc

000778

KA04600378

The last monthly waste tank summary showed that at present the B.O.D. in the effluent to the river at King is 37% over W.R.C. order and at Bryant is 91% over W.R.C. order, being 106# B.O.D. per ton and 122# B.O.D. per ton respectively. It was thought advisable to prepare tables showing W.R.C. surveys before treatment in 1946 and 1950, the 1951 W.R.C. orders, the W.R.C. surveys after treatment in 1955 (1956) and 1957, and Allied surveys in 1957 and 1959. Past memos and reports from Wayne Kendrick, especially December 1958, have called attention to violation of W.R.C. orders.

There is some explanation of the increased ~~violate~~ volatile solids and B.O.D. load to the waste treatment plants. First, the bale weight tonnage at King has increased from about 170 T average in September, 1958 to the present 200-220 T. The book tonnage has, especially during this waste paper shortage of the past months, contained a greater percentage of groundwood and the overall quality has degenerated. At Bryant there is some by-passing of the waste to the creek. At King there is some recirculation of effluent water back to the wet well. Recent B.O.D. checks on sewer waters in the paper machine basement at King show an average of 200 ppm on East side to 458 ppm on West side. This is very high.

These are some suggestions to improve our waste treatment tank operations and show the W.R.C. that Allied is making progress towards further abatement.

1. Install the second sludge pump at King to prevent sludge build up in tank and utilize more settling volume of tank and prevent sludge carryover in the effluent.

2. Proceed with plan to change the tile by-passing the clarifier which will increase head differential between the wet well level and the clarifier effluent tile.

3. Reduce fresh water usage wherever possible. To note any reduction, it is recommended that meters be installed on the well water line and river water line at King. An estimate has been received from engineering on a 20 inch water meter for $900.00. A six (6) inch meter would be $400 (for an individual well line). This 20 inch model would be a saddle type.

4. Consider diverting the Chlorine Oliver drop leg water at King from the present sewer and piping it directly to the river. Comparative tests were run on the chlorine water at King and Bryant and the respective clarifier effluents. The B.O.D. of the King Chlorine water is 173 ppm as compared to 262 ppm of the Bryant chlorine water -- this water is now being sent to the creek directly. This would reduce the waste water in the clarifier by at least 1,300,000 gals/day based on a 2% consistency going into the chlorine Oliver and 7.5% consistency going out. Table is attached to this report showing the waters together with other sewer waters.

5. Segregate paper machine sewer waters with low B.O.D. (lower than B.O.D. content of present effluent from clarifier) and low solids, remove solids on a slide washer or in a Sveen Pedersen and either reuse this water or send it directly to river. The East sewer from the paper machines has a B.O.D. of 200 ppm and a solids content of 17#/M gals is the most desirable for this use. This flow is from 500,000-600,000 gal per day. This flow is from vacuum pumps primarily and overflow from white water boxes.

   The retention time in the King Clarifier at 6 million gallons is 4.28 hours; at 5 million gallons is 5.14 hours; and at 4 million gallons is 6.70 hours.

6. Proceed with plans to store concentrated D.I. waste water overflowing from heat recovery Oliver at Bryant and pump to new lagoon on weekend. This would reduce our B.O.D. load to the clarifier by about 6%. A survey is now under way to determine the weekly flow of this waste.

7. To participate in the reaeration study of Portage Creek to be conducted by the Kalamazoo River Improvement Company this July or August.

8. To consider installing and operating a pilot model of an activated sludge plant at King to evaluate this secondary method of treatment. A pilot model from Dorr-Oliver is available and could be installed and operated for about $800-$900.

These last three suggestions would certainly show the W.R.C. that studies are continuing to study further pollution abatement.

It is further suggested that a meeting of manufacturing, engineering and technical people be held to chart a course which the company will follow to implement improvement in our present waste treatment program.

TABLE I KING DIVISION

		W.R.C. Surveys Before 1946	W.R.C. Surveys Treatment 1950	W.R.C. Order 1951	W.R.C. Surveys After Treatment Jan 1956	W.R.C. Surveys After Treatment May 1957	Allied Surveys Nov. '57 To Jan '58	Allied Surveys Mar 31 - Apr 30, 1959
Paper Machine Production Tons/day		138.4	179.3		192.36	166.0		
Waste Flow Millions gallons/day		4.59	7.48		6.54	8.03	7.15	5.93
Gallons waste/ton		33,200	39,383		33,950	48,300		
Total Suspended Solids Pounds	in					137,100	113,670	105,560
	out	25,130	53,720	53,700	34,900	43,885	36,750	34,455
Suspended Solids #/ton production	out	181.6	301.2		181.7	264.5		
% Susp. Solids Removal						67.0	67.5	67.5
5 Day B.O.D. Pounds	in					25,050	23,150	34,700
	out	8,220	16,340	16,300	15,501	15,948	17,410	22,365
B.O.D. #/ton Production		59.4	90.9		80.7	96.2		
% B.O.D. Removal						36.8	20.5	32.7
Volatiles #/day	in					41,250	49,670	
	out					10,670	9,550	99,750

KA04600382

TABLE II BRYANT DIVISION

		W.R.C. Surveys Before Treatment 1946	1950	W.R.C. Order 1951	W.R.C. Surveys After Treatment Fall 1955	May 1957	Allied Surveys Nov. 1957 To Jan 1958	Mar 31 to Apr 30, 1959
Paper Machine Production Tons/day		187.05	149.36			168.4		
Waste Flow Million gals/day		3.25	5.042		6.77	5.58	7.124	6.57
Gallons Waste/Ton		33,200	39,383			30,200		
Total Suspended Solids Pounds	in							
	out	67,535	76,544	76,500	53,475	34,844	54,270	57,645
Suspend Solids #/Ton Production	out	360	514			207		
% Susp. Solids Removal						64.0	47.1	52.6
5 Day B.O.D. Pounds	in							
	out	12,395	11,116	11,100	16,837	12,391	15,710	21,000
B.O.D. #/ton out Production		66.0	74.6			73.6		
% B.O.D. Removal						39.9	10.9	26.2
Volatiles #/day	in					42,400	41,795	85,450
	out					11,618	21,370	

Redundant. looks like use of 5/27/57 - 1/28/57 which we have

KA04600383

TABLE III MONARCH DIVISION

	W.R.C. Surveys Before Treatment 1946	1950	W.R.C. Orders 1951	W.R.C. Surveys After Treatment Jan 1956
Paper Machine Production Tons/day	81.21	91.02		100.21
Waste Flow Million Gal/day	2.49	6.055		3.66
Gallons Waste/ton	30,700	67,533		36,580
Suspended Solids #/Day out	30,180	31,868	31,900	17,558
Suspended Solids #/ton Production	371.5	354.7		175.0
5 Day B.O.D. #/day	16,635	10,120	10,100	9,140
B.O.D. #/ton Prod.	131.0	113.6		91.3

KA04600384

TABLE 4

	East Sewer	West Sewer Before High Water Pump	West Sewer After Hydrapl. 1 per.	King Chlorine Oliver Drop Leg Water	Bryant Chlorine Oliver Drop Leg Water
Suspended Solids #/M gals.	17.0	14.0	13.0	* 4.67	* 1.67
Ash %	62.8	64.3	51.7	46.5	----
Soluble Solids #/M gals.	5.0	6.67	8.34	16.68	16.68
Fiber 200 mesh #/M gals.	2.45	1.62	1.37	----	----
PH	7.3	7.7	7.7	2.6	2.5
5-Day B.O.D. ppm	200	458	672	** 173	** 262

* Present waste treatment tank tests show the following avg suspended solids #/M gals:

King	influent	14.0
	effluent	5.22
Bryant	influent	17.5 ←
	effluent	11.15

** Present waste treatment tank tests show the following B.O.D. (ppm) taken same day as Chlorine water.

King	effluent	392
Bryant	effluent	368

200

PRIVILEGED AND CONFIDENTIAL

SUSPENDED SOLIDS - POUNDS/DAY

Year	1946	1950	1955	1961	1965	1968	1970
King	25,130	53,720	33,653	103,000	20,000	756	492
Monarch	30,180	31,868	25,011	214	600	350	[illegible]
Bryant	67,535	76,544	53,475	53,280	15,000	2,963	[illegible]
Kalamazoo River	122,845	162,132	112,139	156,494	35,600	4,069	1494
Portage Creek	97,715	108,412	78,486	53,494	15,600	3,313	1002

B.O.D. POUNDS/DAY

King	8,220	16,340	15,491	28,400	10,000	2,190	1509
Monarch	10,635	10,120	13,671	780	400	189	772
Bryant	12,395	11,116	16,838	16,500	16,500	10,500	0
Kalamazoo River	31,240	37,876	46,000	43,760	26,900	12,879	2281
Portage Creek	23,830	21,236	30,509	17,360	16,900	10,689	772

FLOW M.G.D.

Kalamazoo	4.590	7.475	6.507	7.399	7.000	3.50	3.666
Monarch	2.490	6.055	5.633	1.506	1.800	1.90	3.061
Bryant	3.251	5.042	6.771	4.233	5.400	3.75	[illegible]
Kalamazoo River	10.331	18.572	18.911	13.138	14.200	9.15	6.727
Portage Creek	5.741	11.097	12.404	5.739	7.200	5.65	3.061

DEPOSITION EXHIBIT
KENDRICK #56
4/24/97 CC

SA-049541

ALLIED PAPER COMPANY
KING DIVISION
KALAMAZOO, MICHIGAN

Survey No. 1	1st Shift	June 22, 1950
Survey No. 2	2nd Shift	June 13, 1950
Survey No. 3	3rd Shift	June 15, 1950

Type: Book Conversion Mill

Mill Water Supply

Well water.

Waste Sources

Normal mill production consists of the operation of four paper machines and a de-ink mill. White water from the paper machines is used as fresh water in the de-ink washers. Three of the paper machines and the de-ink washer are save-alled with Oliver vacuum filters. The fourth paper machine has a Bird type save-all.

Waste Measurement

Waste from this mill is normally discharged to an earth channel north of the mill and also to a city sewer on Lake Street. The flow to the city sewer was diverted to the earth channel so that all waste could be measured at this point. A 5.0 foot rectangular metal edged weir was constructed in the earth channel north of the mill at the east end of Vine Street.

Survey Procedure

A recording head meter was installed to obtain a continuous record of the flow during the three surveys. Composite samples during each survey were taken with the automatic sampler.

NCASI 000424

SURVEY NO. 1

June 22, 1950 - 1st Shift

Production: 112,325 lbs.

Flow Data: 2.39 mg.

Sample Analysis

	Mill Waste	Settled Mill Waste	Percent Reduction
5-Day B.O.D.	246	160	34.9
Total Solids	2,043	1,340	
Total Volatile Solids	806	436	
Suspended Solids	1,038	398	61.7
Suspended Volatile Solids	448	120	73.2
pH	7.1		
Settleable Solids	673		

All values in p.p.m. except pH

B.O.D.

Mill Waste (2.39 x 8.34 x 246) = 4,900 lbs. Net to River

Pounds of B.O.D. Per Ton Product

(4,900 ÷ 112,325) x 2,000 = 87.2 lbs.

Suspended Solids

Mill Waste (2.39 x 8.34 x 1,038) = 20,700 lbs. Net to River

Pounds of Suspended Solids per Ton Product

(20,700 ÷ 112,325) x 2,000 = 368 lbs.

Suspended Volatile Solids

Mill Waste (2.39 x 8.34 x 448) = 8,930 lbs. Net to River

Pounds of Suspended Volatile Solids per Ton Product

(8,930 ÷ 112,325) x 2.000 = 158.9 lbs.

Percent Fibre Loss

[158.9 ÷ (2.000 x 0.95)] x 100 = 8.35%

Population Equivalent

(4.900 ÷ 0.167) 29,350 people per 8 hours

Gallons of Waste Per Ton of Product

(2,390,000 ÷ 112,325) x 2,000 = 42,500 gallons

SURVEY NO. 2

June 13, 1950 - 2nd Shift

Production: 121,430 lbs.

Flow Data: 2.38 mg.

Sample Analysis

	Mill Waste	Settled Mill Waste	Percent Reduction
5-Day B.O.D.	270	220	18.5
Total Solids	1,952	1,690	
Total Volatile Solids	726	710	
Suspended Solids	686	251	63.4
Suspended Volatile Solids	260	74	71.5
pH	7.3		
Settleable Solids	398		

All values in p.p.m. except pH

B.O.D.

Mill Waste (2.38 x 8.34 x 270) = 5,360 lbs. Net to River

Pounds of B.O.D. per Ton Product

(5,360 ÷ 121,430) x 2,000 = 88.2 lbs.

Suspended Solids

Mill Waste (2.38 x 8.34 x 686) = 13,620 lbs. Net to River

Pounds of Suspended Solids per Ton Product

(13,620 ÷ 121,430) x 2,000 = 224.5 lbs.

Suspended Volatile Solids

Mill Waste (2.38 x 8.34 x 260) = 5,160 lbs. Net to River

Pounds of Suspended Volatile Solids per Ton Product

(5,160 ÷ 121,430) x 2,000 = 85 lbs.

Percent Fibre Loss

[85 ÷ (2,000 x 0.95)] x 100 = 4.47%

Population Equivalent

(5,360 ÷ 0.167) = 32,100 people per 8 hours

Gallons of Waste Per Ton of Product

(2,380,000 ÷ 121,430) x 2,000 = 39,200 gallons

SURVEY NO. 3

June 15, 1950 - 3rd Shift

Production: 124,865 lbs.

Flow Data: 2.705 mg.

Sample Analysis

	Mill Waste	Settled Mill Waste	Percent Reduction
5-Day B.O.D.	270	230	14.8
Total Solids	2,066	1,656	
Total Volatile Solids	816	664	
Suspended Solids	860	394	54.2
Suspended Volatile Solids	350	114	67.4
pH	7.7		
Settleable Solids	438		

All values in p.p.m. except pH

B.O.D.

Mill Waste (2.705 x 8.34 x 270) = 6,080 lbs. Net to River

Pounds of B.O.D. per Ton Product

(6,080 ÷ 124,865) x 2,000 = 97.4 lbs.

Suspended Solids

Mill Waste (2.705 x 8.34 x 860) = 19,400 lbs. Net to River

Pounds of Suspended Solids per Ton Product

(19,400 ÷ 124,865) x 2,000 = 311 lbs.

Suspended Volatile Solids

Mill Waste (2.705 x 8.34 x 350) = 7,890 lbs. Net to River

Pounds of Suspended Volatile Solids per Ton Product

(7,890 ÷ 124,865) x 2,000 = 126.4 lbs.

Percent Fibre Loss

$[126.4 \div (2,000 \times 0.05)] = 6.65\%$

Population Equivalent

$(6,080 \div 0.167) = 36,450$ people per 8 hours

Gallons of Waste Per Ton Product

$(2,705,000 \div 124,865) \times 2,000 = 43,300$ gallons.

Summary

	Survey No.1	Survey No.2	Survey No.3	Total
Production-Tons	56.16	60.72	62.43	179.31
Flow-Million Gallons	2.39	2.38	2.705	7.475
Pounds of B.O.D. (Net)	4,900	5,360	6,080	16,340
Pounds of B.O.D. Per Ton Product	87.2	88.2	97.4	90.9 *
Pounds of Dry Solids (Net)	20,700	13,620	19,400	53,720
Lbs. of Dry Solids Per Ton Prod.	368	224.5	311	301.2 *
Lbs. of Vol. Solids (Net)	8,930	5,160	7,890	21,980
Lbs. of Vol. Solids Per Ton Prod.	158.9	85	126.4	123.4 *
Gallons Waste Per Ton Product	42,500	39,200	36,450	39,383 *
Fibre Loss - Percent	8.35	4.47	6.65	6.49 *
Population Equivalent	29,350	32,100	36,450	97,900

* Average of three surveys

Remarks

All chemical analyses were made in the Water Resources Laboratory at the Health Department in Lansing. Samples were immediately transported to this laboratory and were iced during transit. The dilution water used to determine the biochemical oxygen demand of the waste waters was Lea-Nichols water and one per cent Plainwell settled sewage was used for seeding each dilution. All other analyses were made according to the Ninth Edition of "Standard Methods for the Examination of Water and Sewage."

When figuring per cent fibre loss the pounds of mill production is converted to a dry basis. For uniformity a product with five per cent moisture is assumed for all of the mills.

R. W. Purdy
W. S. Springer
W. H. Abbott
J. R. Couchois

Report of Survey

Allied Paper Company
Monarch Division
Kalamazoo, Michigan

Survey Periods:

November 3rd, 7:00 a.m. to November 4th, 7:00 a.m., 1953
November 4th, 7:00 a.m. to November 5th, 7:00 a.m., 1953

Type:

Book conversion mill

Mill Water Supply:

Portage Creek and well water

Production:

November 3rd	186,335 lbs.	93.17T
November 4th	239,290 lbs.	119.65T

Survey Procedure:

Effluent from the de-ink waste treatment plant is di through a four foot full channel weir. A record of the head over this weir was obtained by a continuous water level recorder. Influent and effluent twenty-four hour composite samples were obtained through the use of company installed equipment.

A portion of the bleach water was discharged directly to Portage Creek without treatment. This was discharged through a three foot full channel weir. A record of the head over this weir was obtained by a continuous water level recorder. A twenty-four hour composite sample of this waste was obtained through the use of a W.R.C. automatic sampler.

SA 039024

Miscellaneous sewers that discharged directly to Portage Creek were spot sampled and flow estimates were made.

Survey Data:

	Flow m.g.d.	5-Day B.O.D. p.p.m.	Susp. Solids p.p.m.	Susp. Vol. Solids p.p.m.	pH
November 3, 1953					
Waste Treatment Plant					
Influent		330	1528	628	7.9
Effluent	3.71	290	660	128	7.7
Condenser Water Sewer	1.5	17	226	61	7.6
November 4, 1953					
Waste Treatment Plant					
Effluent	4.01	410	850	200	8.9
Influent		495	1810	720	9.3
Bleach Water Sewer	0.60	99	210	120	2.5
Condenser Water Sewer	1.5	2.0	22	22	7.7

Calculations:

B.O.D. Data: (Pounds to River)

Waste Treatment Plant
November 3rd — 3.71 x 8.34 x 290 = 8,960
November 4th — 4.01 x 8.34 x 410 = 13,700

Bleach Water Sewer
November 3rd — Use same quantity as November 4th
November 4th — 0.60 x 8.34 x 99 = 495

Condenser Water Sewer
November 3rd — 1.5 x 8.34 x 17 = 213
November 4th — 1.5 x 8.34 x 2 = 25

B.O.D. Data: (Pounds per Ton of Production)

November 3rd	9,668/ 93.17 = 103.8
November 4th	14,220/119.65 = 118.9

B.O.D. Data: (% Reduction Through Waste Treatment Plant.)

November 3rd	(330-290)x100/330 = 12.1%
November 4th	(495-410)x100/495 = 17.2%

B.O.D. Data: (Population Equivalent)

November 3rd	9,668/0.167 = 57,900
November 4th	14,220/0.167 = 85,300

Suspended Solids Data: (Pounds to River)

Waste Treatment Plant	
November 3rd	3.71 x 8.34 x 660 = 20,400
November 4th	4.01 x 8.34 x 850 = 28,400
Bleach Water Sewer	
November 3rd	Use same quantity as Nov. 4
November 4th	0.60 x 8.34 x 210 = 1,050
Condenser Water Sewer	
November 3rd	1.5 x 8.34 x 226 = 2,830
November 4th	1.5 x 8.34 x 22 = 275

Suspended Solids Data: (Total Pounds per Ton of Production)

November 3rd	24,280/ 93.17 = 261
November 4th	29,725/119.65 = 249

Suspended Solids Data: (Pounds per ton of Production from sources other than waste treatment plant.)

November 3rd	3,880/ 93.17 = 41.7
November 4th	1,325/119.65 = 11.1

Suspended Solids Data: (% Reduction through Waste Treatment Plant)

November 3rd	(1528-660)x100/1528 = 56.8%
November 4th	(1810-850)x100/1810 = 53.0%

Suspended Volatile Solids Data: (Pounds to River)

Waste Treatment Plant

November 3rd	3.71 x 8.34 x 128 = 3950
November 4th	4.01 x 8.34 x 200 = 6680

Bleach Water Sewer

November 3rd	Use same quantity as Nov. [illegible].
November 4th	0.60 x 8.34 x 120 = 600

Condenser Water Sewer

November 3rd	1.5 x 8.34 x 61 = 763
November 4th	1.5 x 8.34 x 22 = 275

Suspended Volatile Solids Data: (Total Pounds Per Ton of Production)

November 3rd	5313/ 93.17 = 57.0
November 4th	7555/119.65 = 63.1

Suspended Volatile Solids Data: (% Reduction through Waste Treatment Plant)

November 3rd	(628-128)x100/628 = 79.6%
November 4th	(720-200)x100/720 = 72.2%

Flow Data: (Gallons of Waste per ton of Production)

November 3rd	4,310,000/ 93.17 = 46,200
November 4th	4,610,000/119.65 = 38,600

Summary and Comparison of Results:

	Sept. 1953	1950
Production, tons	106.41	91.02
Flow, million gallons	4.46	6.05
B.O.D., total pounds	11,944	10,120
B.O.D., total pounds per ton	111.3	113.6
Suspended Solids, total pounds	27,000	31,868
Suspended Solids, total pounds per ton	255	354.7
Suspendded Solids, lbs. per ton from machines	26.4	
Suspended Vol. Solids, total pounds	6,434	29,214
Susp. Vol. Solids, total pounds per ton	60.0	151.1
Gallons of waste per ton	42,400	67,533
Population equivalent	71,600	60,580

Remarks:

The September 1953 results reported in the summary are the average of two consecutive twenty-four hour surveys. Between the first and second survey a change was made that eliminated a solids loss from 41.7 to 11.1 pounds. Also, it was only due to an error made in making some mill changes over the preceding week end that the portion of the bleach water was discharged direct to Portage Creek. It has been and it was stated that it was the intent in the future to treat all of this waste in the waste treatment plant.

Survey made by:
Ralph W. Purdy
Chester Harvey

Chemical Analyses by:
Russell Krueger

ROUTING SLIP

SION

MR LES STEFFLER	Date
MGR, PROCESS DEVELOPMENT,	Initials
ALLIED PAPER CORP	Date
KALAMAZOO, MICH. 49001	Initials
	Date

ste Surveys

per Company
Michigan

— Approval — Prepare Reply
— Necessary Action — Prepare Reply for my Signature
— Investigate & Report — Note & File
— See me Regarding Attached — Return with Comments

EMARKS

			-21	7-22	7-23	7-24	7-25	7-26
			741	6.883	6.676	3.099	7.044	6.375
			.53	171.35	173.32		189.66	183.00
			709	18,771	18,373	4,730	12,337	14,940
R. Cochrane	Date 9/3/68		.46	109.54	106.00		65.04	81.63
			602	66,589	68,371	5,272	45,234	37,642
Total Suspended Solids, pounds per ton paper		313.00	238.36	388.61	394.47		238.50	205.69
Total Suspended Vol. Solids, pounds		20,740	12,818	22,502	23,384	1,396	9,047	7,443
Total Suspended Vol. Solids, pounds per ton paper		105.70	73.44	131.32	134.92		47.70	40.67
Gallons Waste per ton paper		35,207	38,624	40,169	38,518		37,140	34,836
Population Equivalent		11[illegible]5	106,041	112,401	110,017	28,323	73,874	89,461
Settleable Solids Removal, per cent		- 50	73.77	- 60.86	[illegible].23	113.74	71.42	86.38
White Water Susp. Solids, pounds		0.0	0.0	0.0	0	0.0	0.0	0.0
White Water Susp. Solids, pounds per ton paper.		0.0	0.0	0.0	0.0		0.0	0.0

Type of Mill Production

De-ink Mill

Mill Water Supply

Portage Creek above Allied Monarch Division augmented with city water. Creek water is filtered before it is used.

Waste Control

De-ink waste flows by gravity to the main pump house. White water is pumped from various collection points to the main pump house and then both de-ink waste

COMMISSION

Report of Waste Surveys

at

St. Regis Paper Company
Kalamazoo, Michigan

Survey Periods: (24 hours for each)

July 20, 1955
July 21, 1955
July 22, 1955
July 23, 1955
July 24, 1955
July 25, 1955
July 26, 1955

Summary of Results

Date	7-20	7-21	7-22	7-23	7-24	7-25	7-26
Flow, million gallons per day	6.908	6.741	6.883	6.676	3.099	7.044	6.375
Production, tons	196.21	174.53	171.35	173.32		189.66	183.00
5-Day B.O.D., pounds	18,897	17,709	18,771	18,373	4,730	12,337	14,940
5-Day B.O.D., pounds per ton paper	96.31	101.46	109.54	106.00		65.04	81.63
Total Suspended Solids, pounds	61,414	41,602	66,589	68,371	5,272	45,234	37,642
Total Suspended Solids, pounds per ton paper	313.00	238.36	388.61	394.47		238.50	205.69
Total Suspended Vol. Solids, pounds	20,740	12,818	22,502	23,384	1,396	9,047	7,443
Total Suspended Vol. Solids, pounds per ton paper	105.70	73.44	131.32	134.92		47.70	40.67
Gallons Waste per ton paper	35,207	38,624	40,169	38,518		37,140	34,836
Population Equivalent	11[illegible],[illegible]5	106,041	112,401	110,017	28,323	73,874	89,461
Settleable Solids Removal, per cent	[illegible]50	73.77	60.86	[illegible].23	113.74	71.42	86.38
White Water Susp. Solids, pounds	0.0	0.0	0.0	0	0.0	0.0	0.0
White Water Susp. Solids, pounds per ton paper.	0.0	0.0	0.0	0.0		0.0	0.0

Type of Mill Production

De-ink Mill

Mill Water Supply

Portage Creek above Allied Monarch Division augmented with city water. Creek water is filtered before it is used.

Waste Control

De-ink waste flows by gravity to the main pump house. White water is pumped from various collection points to the main pump house and then both de-ink waste

and white water are pumped to a 100 foot diameter sedimentation basin with a 12 foot sidewater depth. Effluent is discharged to Portage Creek. Sludge is discharged to a large lagoon.

Survey Procedure

Effluent from the sedimentation basin is discharged through a weir box. A recording head meter was installed at the weir to obtain a continuous daily record of the flow. Samples were taken of the flow at fifteen minute intervals by an automatic sampler and composited for each survey period.

An influent sample was obtained by continuously bleeding a small portion of the influent flow from the pump house discharge line through a small box equipped with an automatic sampler.

Survey Data:

Influent

Date	7-20	7-21	7-22	7-23	7-24	7-25	7-26
5-Day B.O.D., p.p.m.	420	590	495	455	205	390	525
Suspended Solids, p.p.m.	1,888	1,944	2,124	2,040	1,048	1,880	2,104
Suspended Vol. Solids, p.p.m.	760	824	780	812	456	772	840
2-hour Settleable Solids, p.p.m.	1,236	1,632	1,584	1,444	742	1,554	1,616
pH	7.2		6.9	7.6	7.8		7.0

Effluent

	7-20	7-21	7-22	7-23	7-24	7-25	7-26
5-Day B.O.D., p.p.m.	328	315	327	330	183	210	281
Suspended Solids, p.p.m.	1066	740	1160	1228	204	770	708
Suspended Vol. Solids, p.p.m.	360	228	392	420	54	154	140
pH		7.2	7.2	7.3	7.5	7.3	7.2
Production, Tons	196.21	174.53	171.35	173.32		189.66	183.00
Flow, million gallons per day	6.908	6.741	6.883	6.676	3.099	7.044	6.375

Survey Calculations

Pounds of 5-Day B.O.D. to River

				INFLUENT (Raw)
7-20	6.908 x 8.34 x 328 =	18,897		24,200 lbs./day
7-21	6.741 x 8.34 x 315 =	17,709		33,160
7-22	6.883 x 8.34 x 327 =	18,771		28,400
- 7-23	6.676 x 8.34 x 330 =	18,373		25,310
- 7-24	3.099 x 8.34 x 183 =	4,730		—
7-25	7.044 x 8.34 x 210 =	12,337		12,800
7-26	6.375 x 8.34 x 281 =	14,940		27,900

Pounds of 5-Day B.O.D. per ton of paper

7-20	18,897 / 196.21 =	96.31
7-21	17,709 / 174.53 =	101.46

SA 039020

7-22	18,771 / 171.35 =	109.54
7-23	18,373 / 173.32 =	106.00
7-25	12,337 / 189.66 =	65.04
7-26	14,940 / 183.00 =	81.63

Population Equivalent

7-20	18,897 / 0.167 =	113,155
7-21	17,709 / 0.167 =	106,041
7-22	18,771 / 0.167 =	112,401
7-23	18,373 / 0.167 =	110,017
7-24	4,730 / 0.167 =	28,323
7-25	12,337 / 0.167 =	73,874
7-26	14,940 / 0.167 =	89,461

Total Pounds of Suspended Solids to River

7-20	6.908	x	8.34	x	1066	=	61,414
7-21	6.741	x	8.34	x	740	=	41,602
7-22	6.883	x	8.34	x	1160	=	66,589
7-23	6.676	x	8.34	x	1228	=	68,371
7-24	3.099	x	8.34	x	204	=	5,272
7-25	7.044	x	8.34	x	770	=	45,234
7-26	6.375	x	8.34	x	708	=	37,642

Total Pounds of Suspended Solids per ton paper

7-20	61,414 / 196.21 =	313.00
7-21	41,602 / 174.53 =	238.36
7-22	66,589 / 171.35 =	388.61
7-23	68,371 / 173.32 =	394.47
7-25	45,234 / 189.66 =	238.50
7-26	37,642 / 183.00 =	205.69

Total Pounds of Suspended Volatile Solids to River

7-20	6.908	x	8.34	x	360	=	20,740
7-21	6.741	x	8.34	x	228	=	12,818
7-22	6.883	x	8.34	x	392	=	22,502
7-23	6.676	x	8.34	x	420	=	23,384
7-24	3.099	x	8.34	x	54	=	1,396
7-25	7.044	x	8.34	x	154	=	9,047
7-26	6.375	x	8.34	x	140	=	7,443

Total Pounds of Suspended Volatile Solids per ton of paper

7-20	20,740 / 196.21 =	105.70
7-21	12,818 / 174.53 =	73.44
7-22	22,502 / 171.35 =	131.32
7-23	23,384 / 173.32 =	134.92
7-25	9,047 / 189.66 =	47.70
7-26	7,443 / 183.00 =	40.67

Gallons of Waste per ton of paper

7-20	6,908,000 / 196.21 =	35,207
7-21	6,741,000 / 174.53 =	38,624
7-22	6,883,000 / 171.35 =	40,169

7-23	6,576,000 / 173.32 =	38,518
7-25	7,044,000 / 189.66 =	37,140
7-26	6,375,000 / 183.00 =	34,836

Treatment Plant Efficiency

B.O.D. Removal

7-20	(420 - 328) x 100 / 420 =	21.90%
7-21	(590 - 315) x 100 / 590 =	46.61%
7-22	(495 - 327) x 100 / 495 =	33.93%
7-23	(455 - 330) x 100 / 455 =	27.47%
7-24	(205 - 183) x 100 / 205 =	10.73%
7-25	(390 - 210) x 100 / 390 =	46.15%
7-26	(525 - 281) x 100 / 525 =	46.47%

Suspended Solids Removal

7-20	(1888 - 1066) x 100 / 1888 =	43.54%
7-21	(1944 - 740) x 100 / 1944 =	61.93%
7-22	(2124 - 1160) x 100 / 2124 =	45.39%
7-23	(2040 - 1228) x 100 / 2040 =	39.80%
7-24	(1048 - 204) x 100 / 1048 =	80.53%
7-25	(1880 - 770) x 100 / 1880 =	59.04%
7-26	(2104 - 708) x 100 / 2104 =	66.35%

Suspended Volatile Solids Removal

7-20	(760 - 360) x 100 / 760 =	52.63%
7-21	(824 - 228) x 100 / 824 =	72.33%
7-22	(780 - 392) x 100 / 780 =	49.74%
7-23	(812 - 420) x 100 / 812 =	48.27%
7-24	(456 - 54) x 100 / 456 =	88.15%
7-25	(772 - 154) x 100 / 772 =	80.05%
7-26	(840 - 140) x 100 / 840 =	83.33%

Settleable Solids Removal

7-20	(1888 - 1066) x 100 / 1236 =	66.50%
7-21	(1944 - 740) x 100 / 1632 =	73.77%
7-22	(2124 - 1160) x 100 / 1584 =	60.86%
7-23	(2040 - 1228) x 100 / 1444 =	56.23%
7-24	(1048 - 204) x 100 / 742 =	113.74%
7-25	(1880 - 770) x 100 / 1554 =	71.42%
7-26	(2104 - 708) x 100 / 1616 =	86.38%

Remarks

On the 7-20 survey and again during the 7-25 survey the by-pass sewer from the pump house was discharging untreated waste to Portage Creek even though all three pumps were in operation. This condition was again observed on August 24. From the flow charts obtained at the effluent weir it is possible to pick off the flows with one, two, and three pumps in operation. The discharge over the weir with one pump in operation is approximately 2,900 gallons per minute, with two

pumps 4,250 gallons per minute and with three pumps 5,000 gallons per minute.

According to a letter of October 19, 1953, the clarifier is 100 feet in diameter and has a sidewater depth of 12 feet. The three pumps in the main pump house are each of 3,000 gallons per minute capacity.

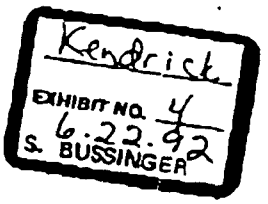
The following is the theoretical detention time in the clarifier for the average daily flow on each of the survey dates:

7-20	2.44 hours
7-21	2.51 hours
7-22	2.45 hours
7-23	2.53 hours
7-24	5.45 hours
7-25	2.40 hours
7-26	2.65 hours

Survey written and supervised by
Ralph W. Purdy

Field Work by
H. Liechti

Chemical Analyses by
R. Krueger



November 14, 1956

From: Wayne L. Kendrick

To: The Executive Committee

Attached are three tables giving data on settling tank performance at each of the three Allied mills.

(J)

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SA 029194

BRYANT MILL

		MILL DATA		WATER RESOURCES COM.	
		Averages	Number of Tests	Orders	Last Official Check
Date		Sept. & Oct. 1956		1951	Fall, 1955
Flow (MGD)		5.75			6.77
Suspended Solids					
(#/Day)	Influent	74,300	36		
	Effluent	37,000	35	76,500	53,475
	% Removal	56%			
BOD (#/Day)					
	Influent	30,700	4		
	Effluent	16,100	4	11,000	16,837
	% Removal	47.7%			

KA05001172

B R Y A N T M I L L

		MILL DATA		WATER RESOURCES COM.	
		Averages	Number of Tests	Orders	Last Official Check
Date		Sept. & Oct. 1956		1951	Fall, 1955
Flow (M.GD)		5.75			6.77
Suspended Solids					
(#/Day)	Influent	74,300	36		
	Effluent	37,000	35	76,500	53,475
	% Removal	56%			
BOD (#/Day)					
	Influent	30,700	4		
	Effluent	16,100	4	11,000	16,837
	% Removal	47.7%			

KA05001172

KA05001172

K I N G M I L L

	MILL DATA		WATER RESOURCES COM.	
	Averages	Number of Tests	Orders	Last Official Check
Date	Sept., Oct., Nov. 5 1956		1951	Jan. 1956
Flow (MCD)	6.13 *	10		6.54
Suspended Solids				
(#/Day) Influent	58,300	13		
Effluent	16,050	17	53,700	34,970
% Removal	69.2%			
BOD (#/Day)				
Influent **	16,400	6		
Effluent **	10,700	7	16,300	15,501
% Removal	33.8%			

* Flow figure low. Some waste bypassing tank. Steps being taken to correct this. The loss is low.

** Tests from June - September, 1956

N.B. The above figures based on the low flow figure given

KA05001173

KA05001173

MONARCH MILL

	MILL DATA		WATER RESOURCES COMMISSI	
	Averages	Number of Tests	Orders	Last Official Check
Date	Sept., Oct., 1956		1951	Jan. 1956
Flow (MGD)	5.25	50		3.66
Suspended Solids				
(#/Day) Influent	49,900	23		
Effluent	19,200	38	31,900	17,558
% Removal	61.5%			
BOD (#/Day)				
Influent	* 15,000	13		
Effluent	* 10,200	16	10,100	9,140
% Removal	32.0%			

* From June, 1956 - October, 1956

KA05001174

Report of Survey

ALLIED PAPER CORPORATION - BRYANT MILL
Kalamazoo, Michigan

Survey Periods: (24 hours each)

#1 - May 27 & 28, 1957, 8 a.m. to 8 a.m.
#2 - May 28 & 29, 1957, 8 a.m. to 8 a.m.

Summary of Results:

	#1		#2	
Flow, million gal. per day	5.36	5.17	5.81	5.68
Production, tons	150.45	—	186.31	—
5 Day B.O.D., lbs.	7,823	7,190	16,959	19,750
5 Day B.O.D., lbs. per ton paper	52	47	91	106
Susp. Solids, lbs.	21,234	17,200	48,455	44,600
Susp. Solids, lbs. per ton paper	141	114	260	239
Susp. Volatile Solids, lbs.	6,034	6,050	17,202	17,050
Susp. Volatile Solids, lbs. per ton paper	40	40	92	92
2 Hr. Settleable Solids, % removal	86	—	73	—
Population Equivalent	46,844	42,800	101,551	119,000
pH	7.4	7.9	7.9	8.2

Type of Production: De-ink Mill

Mill Water Supply: Portage Creek water from above Allied Monarch augmented with city water.

Waste Treatment: See Report of Survey St. Regis Paper Company, July 20-26, 1955, by R.W. Purdy.

Survey Procedure: Twenty-four hour composite samples and charts o obtained from the Allied Corp. sampling and rec equipment.

Survey Data:

	#1		#2	
Flow, M.G.D.	5.36	5.17	5.81	5.68
Production, tons	150.45	—	186.31	—
Influent:				
5 Day B.O.D., ppm	370	445	480	457
Susp. Solids, ppm	1720	1645	2300	2180
Susp. Volatile Solids, ppm	820	803	1000	760
2 Hr. Settleable Solids	1440	—	1780	—
pH	7.3	8.1	7.1	7.4
Net BOD Removal	52.7%		77.1	
Effluent:				
5 Day B.O.D., ppm	175	165	350	416
Suspended Solids, ppm	475	401	1000	940
Suspended Volatile Solids, ppm	135	141	355	360
~~2 Hr. Settleable Solids, ppm~~	~~123~~	—	~~500~~	—
pH	7.4	7.6	7.9	8.2

Report of Waste Survey
Allied Paper Corporation
(Monarch, Bryant & King Divisions)

Kalamazoo, Michigan

June 27 & 28, 1961

Summary of Results

	Monarch	Bryant	King	Total
Flow, million gallons/24 hrs.	1.506	4.233	7.399	13.138
5-day B.O.D., lbs./24 hrs.	780	16,580	28,400	45,760
Suspended Solids, lbs./24 hrs.	214	53,280	103,000	156,494
Suspended Vol. Solids, lbs./24 hrs.	125	16,140	41,950	58,215
Settleable Solids Removal, per cent		64.2	52.7	

Monarch Division

Survey Period

8 a.m., June 27, 1961 to 8 a.m., June 28, 1961.

Survey Procedure

A company installed recording head meter at the effluent weir box on the clarifier was used to obtain a continuous record of the flow. A composite sample of the effluent was obtained by the installation of a WRC automatic sampler.

Survey Data

	Effluent
Flow, million gallons/24 hrs.	1.506
5-day B.O.D. mg/l	62
Suspended Solids mg/l	17
Suspended Vol. Solids mg/l	10
pH	7.4

Survey Calculations

lbs. of 5-day B.O.D. per 24 hrs.

1.506 x 8.34 x 62 = 780

lbs. of Suspended Solids per 24 hrs.

1.506 x 8.34 x 17 = 214

lbs. of Suspended Vol. Solids per 24 hrs.

[illegible] x 8.34 x 10 = 125.

038998

Survey Calculations

lbs. of 5-day B.O.D. per 24 hrs.

3.000 x 8.34 x 400 = 14,[illegible]
0.300 x 8.34 x 700 = 2,[illegible]
Total 16,500

lbs. of Suspended Solids per 24 hrs.

3.[illegible] x 8.34 x 1300 = 44,[illegible]
0.3[illegible]7 x 8.34 x 2670 = 8,[illegible]
Total 52,280

lbs. of Suspended Vol. Solids per 24 hrs.

3.[illegible] x 8.34 x 300 = 10,[illegible]
0.3[illegible] x 8.34 x 1270 = 5,[illegible]
Total 16,140

Settleable Solids removal by clarifier

(2[illegible] - 1[illegible]) x 100/2320 = 6[illegible]%

Mine Division

Survey Period

8 a.m., June 27, 1961 to 8 a.m., June 28, 1961.

Survey Procedure

Effluent:

A company installed recording head meter at the weir box on the clarifier was used to obtain a continuous record of the flow. A composite sample was obtained from the company's sampling device (water wheel type sample).

Influent to Clarifier:

A composite sample was obtained by continuously bleeding a small portion of the influent flow from the pump house discharge line through a small box equipped with a WRC automatic sampler.

Survey Data

	Raw Waste	Clarifier Effluent
Flow, million gallons/24 hrs.		7.399
5-day B.O.D. mg/l	700	460
Suspended Solids mg/l	2040	1670
Suspended Vol. Solids mg/l	1230	680
[illegible]	[illegible]	
[illegible]	7.6	7.1

Summary Calculations

lbs. of Sludge B.O.D. per 24 hrs.

[illegible] x [illegible] x [illegible] = 28,400

lbs. of Suspended Solids per 24 hrs.

[illegible] x [illegible] x [illegible] = [illegible]

lbs. of Suspended Vol. Solids

[illegible] x [illegible] x [illegible] = [illegible]

Estimated % Solids removal by clarifier

[illegible] = [illegible] = 50.7%

Conclusions

The great decrease in waste load to the river at the Monarch Division from [illegible] is due to the discontinuance of dairy operations.

[illegible] Division, [illegible] waste [illegible] directly to Pierson Creek [illegible] the river [illegible] waste. The white [illegible] both pumps at the pump station. [illegible] in the plant [illegible] pump station [illegible] chlorine [illegible].

[illegible] Pierson Creek.

[illegible], an unfortunate [illegible] of bypassing takes place at the back [illegible] This bypassing was confirmed by the use [illegible] easily corrected by the construction [illegible] at such a level as to prevent [illegible].

[illegible] the slime for the 24 hour survey period, as shown in [illegible] larger if data on King raw waste by- [illegible] at Bryant mill were available and [illegible].

Report by: Chester Harvey

Field Survey by: John Bohnsky
Jim McDonald
Frank Vialog
Chester Harvey

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STATE OF MICHIGAN
WATER RESOURCES COMMISSION
JOHN B. SWAINSON, GOVERNOR

STAFF OFFICES
200 Mill Street
TEL. IV-5-8144, Ext. 676

STATION B
LANSING 13, MICHIGAN

LEGAL COUNSEL
PAUL L. ADAMS
Attorney General

STAFF
MILTON P. ADAMS
Executive Secretary
LORING F. OEMING
Chief Engineer
NORMAN BILLINGS
Chief Hydrology Division
JOHN L. DESMOND
Office Manager

August 2, 1961

Dr. Ward Harrison, President
Allied Paper Corporation
Kalamazoo, Michigan

Dear Dr. Harrison:

Enclosed herewith is a copy of a report of waste survey at Allied Paper Corporation (Monarch, Bryant, and King Divisions), Kalamazoo, June 27 and 28, 1961.

We would like to draw your particular attention to the bypassing of waste, prior to sedimentation, at the Bryant and King Divisions. We understand that new equipment is on order to correct the deficiencies at Bryant Division. Steps should also be taken to correct the problem at King Division.

If you or any of your technical people wish to discuss our report further, we would welcome this opportunity.

Very truly yours,

Loring F. Oeming
Chief Engineer

RWP:jb
cc: C. Harvey

0002778

Report of Waste Survey
at
Allied Paper Corporation
(Monarch, Bryant & King Divisions)

Kalamazoo, Michigan

June 27 & 28, 1961

Summary of Results

	Monarch	Bryant	King	Total
Flow, million gallons/24 hrs.	1.506	4.233	7.399	13.138
5-day B.O.D., lbs./24 hrs.	780	16,580	28,400	45,760
Suspended Solids, lbs./24 hrs.	214	53,280	103,000	156,494
Suspended Vol. Solids, lbs./24 hrs.	125	16,140	41,950	58,215
Settleable Solids Removal, per cent		64.2	52.7	

Monarch Division

Survey Period

8 a.m., June 27, 1961 to 8 a.m., June 28, 1961.

Survey Procedure

A company installed recording head meter at the effluent weir box on the clarifier was used to obtain a continuous record of the flow. A composite sample of the effluent was obtained by the installation of a WRC automatic sampler.

Survey Data

	Effluent
Flow, million gallons/24 hrs.	1.506
5-day B.O.D. mg/l	62
Suspended Solids mg/l	17
Suspended Vol. Solids mg/l	10
pH	7.4

Survey Calculations

lbs. of 5-day B.O.D. per 24 hrs.

$1.506 \times 8.34 \times 62 = 780$

lbs. of Suspended Solids per 24 hrs.

$1.506 \times 8.34 \times 17 = 214$

lbs. of Suspended Vol. Solids per 24 hrs.

$1.506 \times 8.34 \times 10 = 125$

0002779

Bryant Division

Survey Period

8 a.m., June 27 to 8 a.m., June 28, 1961.

Survey Procedure

Effluent:

A Stevens type F recording head meter was installed at the effluent weir box on the clarifier to obtain a continuous record of this flow. A composite sample was obtained by the installation of a WRC automatic sampler.

Influent to Clarifier:

A composite sample was obtained by continuously bleeding a small portion of the influent flow from the pump house discharge line through a small box equipped with a WRC automatic sampler.

Raw Waste By-pass:

The diversion dam in a manhole near the pump house served as a rough weir. Head over the weir was recorded continuously by a Stevens type F water level recorder. No samples were obtained since the quality is nearly identical with the influent to the clarifier. Flow for the 24 hour period was 367,000 gallons.

Bleach Plant Waste (Acid Wash):

Flow approximated at 300,000 gallons per 24 hours. Composite sample made up of three grab samples obtained at 8 hour intervals.

Gilman p. 201 says: White W typo: Wash be from C+D

White Water By-pass:

Flow approximated at 288,000 gallons per 24 hours. Composite sample made up of three grab samples obtained at 8 hour intervals.

Survey Data

	Raw Waste	Clarifier Effluent	Bleach Waste	White Water
Flow, million gallons/24 hrs.		3.866	.300	.288
5-day B.O.D. mg/l	780	440	160	170
Suspended Solids mg/l	2870	1380	160	760
Suspended Vol. Solids mg/l	1270	380	74	328
2 hr. Settleable Solids mg/l	2320			
pH	9.4	7.3	2.3	7.0

0002780

Survey Calculations

lbs. of 5-day B.O.D. per 24 hrs.

3.866 x 8.34 x 440 = 14,190
0.367 x 8.34 x 780 = 2,390
Total 16,580

lbs. of Suspended Solids per 24 hrs.

3.866 x 8.34 x 1380 = 44,500
0.367 x 8.34 x 2870 = 8,780
Total 53,280

lbs. of Suspended Vol. Solids per 24 hrs.

3.866 x 8.34 x 380 = 12,250
0.367 x 8.34 x 1270 = 3,890
Total 16,140

Settleable Solids removal by clarifier

(2870 - 1380) x 100/2320 = 64.2%

King Division

Survey Period

8 a.m., June 27, 1961 to 8 a.m., June 28, 1961.

Survey Procedure

Effluent:

A company installed recording head meter at the weir box on the clarifier was used to obtain a continuous record of the flow. A composite sample was obtained from the company's sampling device (water wheel type sample).

Influent to Clarifier:

A composite sample was obtained by continuously bleeding a small portion of the influent flow from the pump house discharge line through a small box equipped with a WRC automatic sampler.

Survey Data

	Raw Waste	Clarifier Effluent
Flow, million gallons/24 hrs.		7.399
5-day B.O.D. mg/l	700	460
Suspended Solids mg/l	2640	1678
Suspended Vol. Solids mg/l	1230	680
2 hr. Settleable Solids mg/l	1840	
pH	7.6	7.1

0002781

Survey Calculations

lbs. of 5-day B.O.D. per 24 hrs.

7.399 x 8.34 x 460 = 28,400

lbs. of Suspended Solids per 24 hrs.

7.399 x 8.34 x 1670 = 103,000

Lbs. of Suspended Vol. Solids

7.399 x 8.34 x 680 = 41,950

Settleable Solids removal by clarifier

(2640 - 1670) x 100/1840 = 52.7%

Remarks

The great decrease in waste load to the river at the Monarch Division from previously observed levels is due to the discontinuance of de-ink operations.

At Bryant Division, untreated waste is by-passing directly to Portage Creek at two locations. One is white water and the other is de-ink waste. The white water by-pass is due to mechanical troubles with both pumps at the pump station. Repairs are on order. De-ink waste by-passes due to the plugging of the hand cleaned bar grate at the main pump station. A new mechanically cleaned bar grate is on order.

Bleach waste (acid wash) goes directly to Portage Creek.

At King Division, an undetermined amount of by-passing takes place at the back water gate on the ~~by-pass sewer line~~. This by-passing was confirmed by the use of a tracer dye. This situation could be easily corrected by the construction of a weir in the by-pass line with the crest set at such a level as to prevent flooding problems.

The actual waste load to the river for the 24 hour survey period, as shown in the summary of results, would be somewhat larger if data on King raw waste by-pass, and bleach waste and white water data at Bryant mill were available and included as a part of this report.

Report by: Chester Harvey

Field Survey by: John Bohunsky
Jim McDonald
Frank Vining
Chester Harvey

0002782

NATIONAL COUNCIL FOR STREAM IMPROVEMENT
SURVEY OF SETTLEABLE SOLIDS REMOVAL
EQUIPMENT AND WET SOLIDS HANDLING PRACTICES

Date 12/6/63

A. MILL DESCRIPTION

Name of Mill Allied Paper Co Monarch

Mill Location Kalamazoo, Mich

Capacity 48 ~~M~~ Tons/day average

Pulping Process none

B CLARIFIER SIZE AND EQUIPMENT DATA

Diameter 90 ft. Center depth (water level to floor) 18'11" ~~[illegible]~~ ft.

Sidewall water depth ~~[illegible]~~ 12'2¾" ft. Stilling well 96" ft x 12 ft dia

Skimmer provided? no Collection mechanism mfgr Dorr

Design torque on collecting mechanism 72,000 ft. l

Sludge collection sump _____ annular _____ ✓ pocket

Sludge draw offlines 8 ~~[illegible]~~ inches, number 2

Sludge pumping facilities:

Manufacturer Nagao Type Screw

Model _____ Rated flow 100GPM

Actual flow _____ Variable speed ✓

Pumping cycle, continuous ~~[illegible]~~ intermittent ✓

Is clarifier used as thickener? yes Has thickening been attempted in clarifier? _____ Were there problems? _____

Is overload or breakage of collecting mechanism common? no

Is sludge line or sludge pump plugging common? no

Sedimentation system appurtenances:

Effluent screens 1" bar screen

Effluent pumps 1@ ~~[illegible]~~ 1' 4300 gpm

Pump cycle control float

Flow measurement devices ~~[illegible]~~ rectangular 4' weir

Sampling devices yes

Cost data:

Clarifier [illegible] Piping

Miscellaneous

Remarks: (Describe operating problems and pertinent observations)

C. EFFLUENT AND SLUDGE CHARACTERISTICS

March 1963

	Mill Effluent	Clarifier Effluent
Flow, MGD	4.5	4.5
Total solids, ppm		
Percent ash	4500 #/d	500 #/d
Suspended solids, ppm		
Percent ash		
Settleable solids, ppm	2000	125
BOD, ppm		

Sludge Characteristics

Volume 8,000 to 10,000 GPD Solids content 5%

Ash content _____ Fibre content (200 mesh) 25% dry solid

Remarks:

D. SLUDGE HANDLING PRACTICE

Dewatering

a) Storage basin with overflow _____ without overflow ✓

b) Drying beds: No. _____, Size _____, Soil type _____

How cleaned _____

Sludge solids content _____

c) Mechanical dewatering: Equipment _____ Mfgr _____

No. _____ Size _____ Coagulant dosage _____

Loading rate lb/ft^2/hr or GPM _____

Cake handling facilities _____

Remarks:

Final Disposal

How disposed Same lagoon landfill Where _____

How hauled _____ Problems encountered _____

Sludge Disposal Cost Data

Cover land cost, bed cleaning cost, and trucking cost. Power used in mechanical dewatering, labor cost. Maintenance costs, etc

Remarks:

6. GENERAL REMARKS AND SKETCHES

FILE COPY

NATIONAL COUNCIL FOR STREAM IMPROVEMENT
SURVEY OF SETTLEABLE SOLIDS REMOVAL
EQUIPMENT AND WET SOLIDS HANDLING PRACTICES

Date 12-10-63

A. MILL DESCRIPTION

Name of Mill Allied Paper Co. (Bryant)

Mill Location Kalamazoo, Michigan

Capacity 180 tons

Pulping Process None

B. CLARIFIER SIZE AND EQUIPMENT DATA

Diameter 100 ft Center depth (water level to floor) 22' 2¼"

Sidewall water depth 12'3¾" ft. Stilling well 5'5" ft x 16 ft d

Skimmer provided? No Collection mechanism mfgr Dorr

Design torque on collecting mechanism at center 72,000 ft

Sludge collection sump _____ annular X pocket

Sludge draw offlines 8 inches, number 2

Sludge pumping facilities

Manufacturer Moyno Type _____

Model CD 2L10H - CDQ 2L10 Rated flow each 15' 30-50 gpm

Actual flow _____ Variable speed yes

Pumping cycle, continuous _____ intermittent X

Is clarifier used as thickener? Yes Has thickening been attempted in clarifier? _____ Were there problems? _____

Is overload or breakage of collecting mechanism common? No

Is sludge line or sludge sump plugging common? No

Sedimentation system appurtenances:

Effluent screens 1" bar screen(Link Belt "thru-clean" mechanis

Effluent pumps 3 Allis Chalmers PWFV 3400 gpm 73' head

Pump cycle control float

Flow measurement devices 5' rectangular wier

Sampling devices continuous effluent and influent

Cost data:

Clarifier $160,000.00 Piping

Miscellaneous Link belt Effluent screw $7,000.

Remarks: (Describe operating problems and pertinent observations)

C. EFFLUENT AND SLUDGE CHARACTERISTICS

	Mill Effluent	Clarifier Eff
Flow, MGD	4.5 MGD	4.5 MGD
Total solids, ppm		
Percent ash		
Suspended solids ppm	48,100 #/d	1,090 #/d
Percent ash		
Settleable solids ppm		
BOD, ppm	7,125 #/d	1,090 #/d

Sludge Characteristics

Volume 41,000 GPD [illegible] content 7 to 10%

Ash content 84% Fibre content (XX) mesh) 16 % dry coli

Remarks:

D SLUDGE HANDLING PRACTICE

Dewatering

a) Storage basin with overflow _____ without overflow X

b) Drying beds: No _____, Size _____, Soil type _____

How cleaned _____

Sludge solids content _____

c) Mechanical dewatering Equipment _____ Mfgr _____

No _____ Size _____ Coagulant dosage _____

Loading rate lb/ft^2/hr or day _____

Cake handling facilities _____

Remarks:

Final Disposal

How disposed _____ Where _____

How hauled _____ Problems encountered _____

_____

Sludge Disposal Cost Data

Cover land cost, bed cleaning cost, and trucking cost. Power used in mechanical dewatering, labor cost, maintenance costs.

_____

_____

_____

_____

_____

_____

Remarks:

_____

_____

_____

_____

_____

_____

GENERAL REMARKS AND SKETCHES

4056 Plainfield, N. E.
Grand Rapids, Michigan 49505

August 15, 1967

Allied Paper Corporation
Kalamazoo, Michigan

Attention: Mr. E. J. Gilman
Vice President, Manufacturing

Dear Mr. Gilman:

Enclosed is a copy of waste survey reports made during May, 1967. The reports cover the discharge of the wastes from the King, Bryant, and Monarch Divisions.

The data in the report and the discussion is self-explanatory. However, I would like to call to your attention the load from the Bryant Division. The 5-day B.O.D. load from this division accounts for 88% of the total. The suspended solids loading is even greater, ranging from 88.5% to 93% of the total mill output.

While substantial reductions in the total mill's effluent can be shown, the Bryant Division with its discharge to the Portage Creek still requires considerable improvement. As the Kalamazoo area moves ahead on waste collection and treatment, the problems in the Portage area will surely stand out as one that must have greater control.

Your comments will be appreciated.

Very truly yours,

WATER RESOURCES COMMISSION

Chester Harvey
District Engineer

CH:as

Enclosure

cc: W.R.C., Lansing

WATER RESOURCES COMMISSION
Memorandum

To: R. J. Courchaine

Subject:

From: Ralph Purdy

Date: August 17, 1967

Discussion on survey report is in error. A close reading of the Final Order will show that the 10 pounds of solids per ton of product applies only to the white water if discharged separately from de-ink waste. Solids restriction on de-ink waste (Bryant Division) is for removal of freely settleable solids.

RWP: pb

STATE OF MICHIGAN

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300 MILL ST. LANSING 48922
Tel. 373 3560

RECEIVED
SEP 10 1968
WATER RESOURCES
O.E. STOEFFLER

September 5, 1968

Mr. Les Stoeffler
Manager, Process Development
Allied Paper Corporation
Kalamazoo, Michigan 49001

Re: Bryant Division

Dear Mr. Stoeffler:

Enclosed please find two copies of our report of the June 4, 5 and 6, 1968, wastewater studies made at the Bryant Division mill in Kalamazoo.

We particularly call your attention to the two pages designated as Table 3, which shows total waste loadings from all sources for the two twenty-four-hour survey periods.

If there are any comments or questions regarding the survey report, do not hesitate to get in touch with us.

Very truly yours,

WATER RESOURCES COMMISSION

Robert J. Courchaine

Robert J. Courchaine
Regional Engineer

RJC/ro

Enclosures

cc: C. Harvey

MICHIGAN
The Great Lake State

000397

MICHIGAN WATER RESOURCES COMMISSION
Wastewater Survey
Bryant Division
Allied Mills, Kalamazoo
6-4,5,66-68

Two consecutive twenty-four-hour wastewater surveys were conducted at the Bryant Division of the Allied Mills in Kalamazoo. The purpose of these surveys was to determine the quality and quantity of waste water being discharged to Portage Creek by the company.

Operation and Waste Treatment

The Bryant Division of the Allied Mills in Kalamazoo has five paper machines and a de-inking mill. The excess white water and a portion of the waste water from the de-inking mill is collected at a pump station near the de-inking mill and pumped to the 100-foot clarifier which is located further south (between Cork and Alcot Streets). The waste water from the clarifier is discharged to Portage Creek. Other waste waters are from the chlorine operation of the de-inking mill and are discharged to the mill pond on Portage Creek. The pumping station at the de-inking mill receiving the raw waste to be pumped to the clarifier occasionally by-passes. The influent rate to the wet well exceeds the pump rate. The Bryant Division employs approximately 600 people.

Survey Procedure

The waste water from the clarifier was measured and sampled at the weir on the clarifier. A weir box was constructed to intercept the waste water from the chlorine process at the de-inking mill. The quantity of waste water being by-passed was measured at the overflow baffle in a manhole by the pump station.

Automatic samplers and water level recorders were installed at the effluent weir of the clarifier and at the box intercepting the waste from the chlorine process at the de-inking mill. The automatic samplers took samples proportional to the instantaneous flow at fifteen-minute intervals and deposited them in clean glass containers to make up twenty-four-hour composite samples. The water level recorders provided a continuous account of the liquid level passing over the weirs on head-time charts from which the total flows could be computed.

The company has a water level recorder to measure the head of liquid passing over the baffle in the manhole at the point of by-pass. The water passing over the baffle by-passes the clarifier and goes directly to Portage Creek without treatment. The baffle is constructed diagonally across the corner of a square vault. The length of the baffle is 46" inches on the short side; therefore, it was considered to be equivalent to a 44" sharp crested weir. Since the baffle is constructed of 4" lumber and has worn rounded on the upstream side, this assumption should be conservative. The float line of a WRC water level recorder was attached to the float line of the company's recorder to provide an account of the head over the baffle.

Table I
Survey Periods and Flow Data

Period	Starting	Ending	Hours Monitored	Gallons Monitored	Projected Flow for 24 hours
Bryant Division By-pass					
	Monday, 6-3-68, @ 1800	Tuesday, 6-4-68, @ 0800	14	114,000	196,000 gal
1	Tuesday, 6-4-68, @ 0800	Wednesday, 6-5-68, @ 0800	24	14,600	14,600 gal
2	Wednesday, 6-5-68, @ 0800	Thursday, 6-6-68, @ 0800	24	96,000	96,000 gal
	Thursday, 6-6-68, @ 0800	Thursday, 6-6-68, @ 1945	11.75	28,000	60,000 gal
De-inking Mill--chlorine process discharge 28-inch full channel weir					
1	Tuesday, 6-4-68, @ 2000	Wednesday, 6-5-68, @ 0830	12.5	282,300	542,100 gal
2	Wednesday, 6-5-68, @ 0900	Thursday, 6-6-68, @ 0830	23.5	504,600	515,300 gal
3	Thursday, 6-6-68, @ 0900	Friday, 6-7-68, @ 0900	24	458,600	458,600 gal
Bryant Division clarifier effluent 48" weir ½ rectangular ½ full channel					
1	Tuesday, 6-4-68, @ 0830	Wednesday, 6-5-68, @ 0815	23.75	2,815,000	2,845,000 gal
2	Wednesday, 6-5-68, @ 0830	Thursday, 6-6-68, @ 0800	23.5	2,944,000	2,991,000 gal

SH 02923

Table 2

Production at Bryant Mill

Paper Machines		De-Inking Tons In	(80% In) Tons Out
First Survey Period	209.2 Tons	137	109.9
Second Survey Period	172.9 Tons	118	94.5

Table 3
Laboratory Analyses and Computed Pounds Per Day of Various Constituents
to
Portage Creek from the Bryant Division of Allied Paper Corporation, Kalamazoo

First Survey Period -- Tuesday, 6/4/68, @ 0800 - Wednesday, 6/5/68, @ 0800

Parameter	Clarifier effluent conc.*	Clarifier effluent lbs/day**	Chlorine process conc.*	Chlorine process lbs/day**	By-pass conc.****	By-pass Lbs/day**	Lbs/day to Portage Creek from Bryant Division
Five-day BOD	300	7,005	74	334	840	102.0	7,441
COD	500	11,676	330	1,490	2,000	243	13,410
Suspended Solids	90	2,101	228	1,060	2,180	265	3,426
Suspended Volatile Solids	45	1,050	96	434	1,120	136	1,620
Settleable Solids	10	233	148	668	2,100	255	1,156
Chloroform Extractables	18	420	18	81.4			500
Total PO_4-P	0.9	21	2.6	12.2			33.2
Soluble Ortho PO_4-P	0.0	0	1.4	6.3			6.3
Organic N-N	4.5	105	1.9	8.6			114
Ammonia N-N	0.0	0	0.0	0.0			0.0
Nitrate N-N	0.0	0	0.3	1.4			1.4
Turbidity	270		550				
pH	7.4		3.0		10.7		
Total Solids			1,230	5,550			

*Concentrations expressed as mg/l except pH and Turbidity
**Pounds per day computed from the following formula:
lbs/day = flow (mgd) x conc. (mg/l) x unit weight of water (8.34 lbs/gal)
***Lbs/day computed using the projected 24-hour flow
****Concentrations based on a grab sample obtained while the sewer was overflowing 6-5-68 @ 1715

SH 0.2921

Laboratory Analyses and Computed Pounds Per Day of Various Constituents
to
Portage Creek from the Bryant Division of Allied Paper Corporation, Kalamazoo

Second Survey Period -- Wednesday, 6/5/68, @ 0800 - Thursday, 6/6/68, @ 0800

Parameter	Clarifier effluent conc.*	Clarifier effluent lbs/day**	Chlorine process conc.*	Chlorine process lbs/day**	By-pass conc.***	By-pass Lbs/day**	Total lbs/day to Portage Creek
Five-day BOD	280	6,818	87	373	840	672	7,863
COD	540	13,150	400	1,718	2,000	1,600	16,468
Suspended Solids	105	2,557	300	1,288	2,180	1,745	5,590
Suspended Volatile Solids	60	1,461	120	515	1,120	895	2,871
Settleable Solids	37	901	240	1,030	2,100	1,680	3,611
Chloroform Extractables	25	608	20	85			693
Total PO_4-P	1.5	36.5	3.9	16.8			53.3
Soluble Ortho PO_4-P	0.0	0.0	2.0	8.5			8.5
Organic N-N	5.2	126.6	4.0	17.1			143.7
Ammonia N-N	0.0	0.0	0.0	0.0			0.0
Nitrate N-N	0.0	0.0	0.7	3.0			3.0
Total Solids			1,320	5,669			
Turbidity	300		750				
pH	7.6		2.6				

*All concentrations expressed as mg/l except pH and Turbidity
**Pounds per day are computed using the following general formula:
lbs/day = flow (mgd) x concentration (mg/l) x unit weight of water (8.34 lbs/gal)
***Concentration based on a grab sample collected when sewer was overflowing 6/5/68 @ 1715

SH 02921

Chlorine Process at Bryant Division

Third Survey Period -- Thursday, 6/6/68, @ 0900 - Friday, 6/7/68, @ 0900

Parameter	Conc.*	Lbs/day**
BOD	120	457
COD	390	1,489
Total Solids	1,480	5,638
Suspended Solids	305	1,165
Suspended Volatile Solids	105	401
Settleable Solids	245	935
Chloroform Extractables	24	92
Turbidity	550	
pH	2.8	

*All concentrations expressed as mg/l except pH and Turbidity
**Pounds per day are computed from the following formula:
lbs/day = flow (mgd) x concentration (mg/l) x unit weight of water (8.34 lbs/gal)

Discussion and Observations

The surveys at the clarifiers of the various mills were started at 8:00 a.m. to correspond with the production day of the plant. The measurement of the by-pass waste was started fourteen hours prior to beginning the surveys at the clarifiers. This fourteen-hour rate is more than double the flow rate during the remainder periods of survey.

Approximately 3.5 tons of BOD and one ton of suspended solids are being discharged to Portage Creek from the Bryant Division clarifier. Of the one ton of suspended solids discharged, approximately 50% were volatile. Also, approximately 500 pounds of chloroform extractables and 30 pounds of phosphorous are being discharged to Portage Creek each day from the clarifier.

The de-inking mill contributes one-seventh of the total flow from this plant but provides 30% of the total amount of suspended solids, when the by-pass is not flowing. The suspended solids from the chlorine process were between 60 and 80% settleable. The pH of the waste from the chlorine process was between 2.6 and 3.0. It was found in the WRC laboratories that, if the pH was raised to 7.5, a very heavy floc was formed which settled readily, resulting in a very clear supernatant. Also, approximately 85 pounds of chloroform [redacted]s were being discharged to Portage Creek from the chlorine process. Before the survey started, an inspection was made of the portion of Portage Creek which flows through the Bryant complex. Four separate discharges were noted between Bryant and Reed Streets. A twenty-four-inch clay tile, located ten feet north of Bryant Street on the east side of Portage Creek, was discharging a white turbid liquid into the creek. Before the survey started, a leak in a process waste line was discovered and repaired, thus the flow ceased. Approximately 150 feet north of Bryant Street, a discharge of approximately 500 gpm was noted. We were informed this was turbine tail water. Approximately 250 feet north of Bryant Street, a discharge of approximately 20 gpm was noted. The survey staff was informed that this was waste water from the lime-soda water softener and that plans were to combine it with the process waste. Approximately 250 feet north of Bryant Street, a discharge was noted. Below this discharge there was a large build-up of deposited solids. This was found to be a relief valve on a pump that discharges to the creek. It was also corrected by connection to the process line before the survey started.

A heavy deposit of solids was noted in the mill pond in the vicinity of the chlorine process outlet. The survey staff was informed that a failure in the process during the spring had allowed a large amount of fiber to be discharged to the pond. This deposit extended into the pond approximately 150 feet from the outlet in all directions.

The esthetic appeal of the stream above the discharges is more desirable than below the discharges. The turbidity of the clarifier waste water was 270 to 300 and 550 to 750 from the chlorine process at the de-inking mill. Mats of sludge and gas bubbles were observed rising from the bottom of the Mill pond. The mats of sludge break up as they float over the dam at Alcot Street.

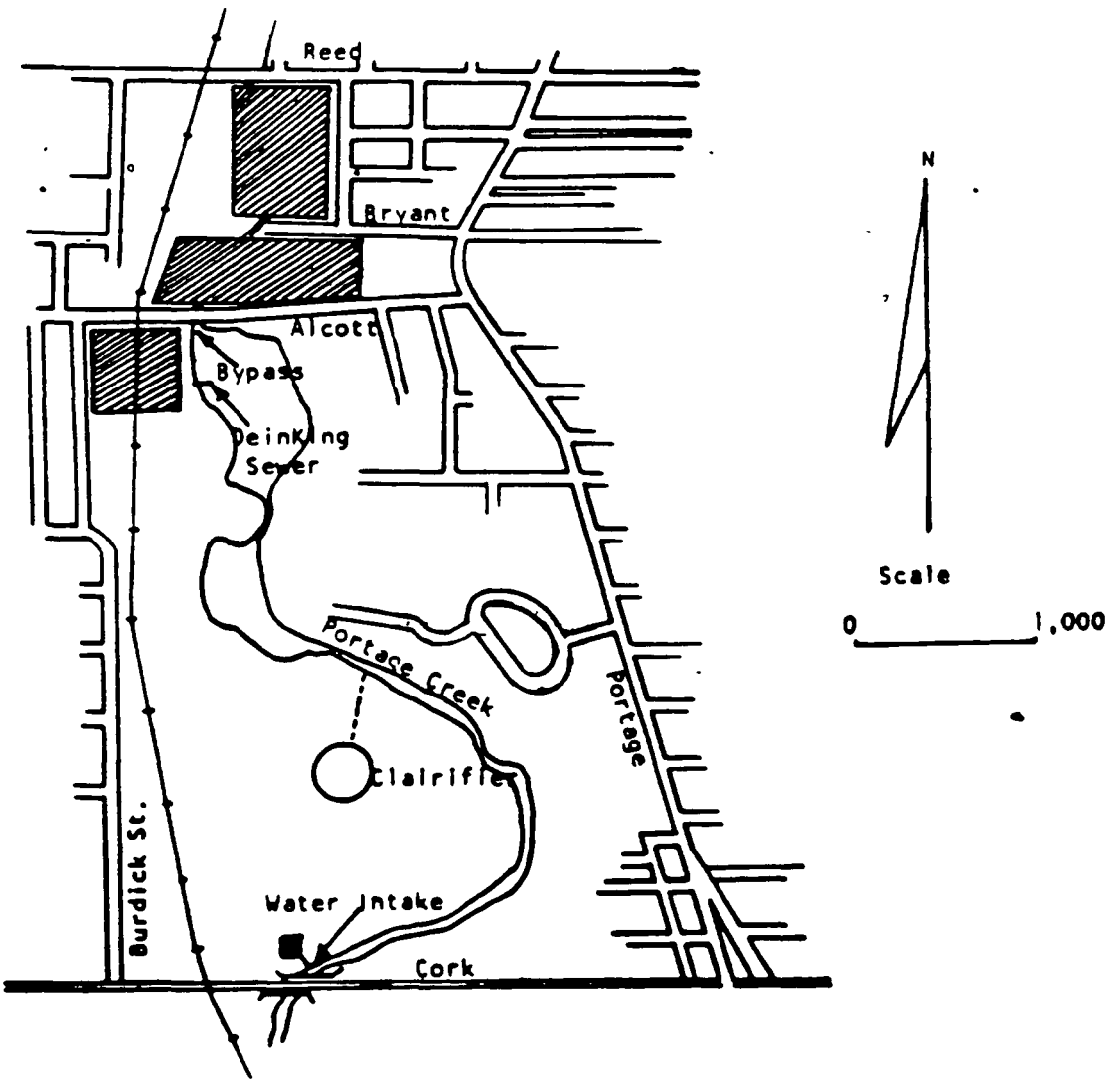
Survey by:
Galen Kilmer, Sanitary Engineer
Leroy Vahovick, Water Pollution Investigator
Laboratory analyses by:
Russel Krueger, Chemist
Contact with management:
Les Stoeffler
Report by:
Galen Kilmer
Leroy Vahovick
Water Quality Appraisal Unit
MICHIGAN WATER RESOURCES COMMISSION
7-25-68

MICHIGAN WATER RESOURCES COMMISSION

Report of Survey

Bryant Division, Allied Paper Co.

June 4,5,6, 1968



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MICHIGAN WATER RESOURCES COMMISSION
Waste Water Survey
Allied Paper Corporation
Bryant, Monarch, & King Divisions
May 13, 14, 15, 1967

A 40 hour waste water survey was conducted at the Bryant, Monarch & King Divisions of the Allied Paper Corporation in Kalamazoo on May 13-15, 1967. The purpose of the survey was to determine the quality and quanity of waste water being discharged to the Kalamazoo River by the company and to determine the extent of compliance with an agreement between the company and the Water Resources Commission dated November 30, 1961 and the Final Order of Determination adopted by the Commission October 24, 1951.

Operations

Bryant Division

The Bryant Division employs 900 people in a 6-day operation. This plant has 5 paper machines and a de-inking mill. Book printing paper from bleached kraft and de-inked stock is produced on the 5 paper machines. The water supply is from Portage Creek and a private well in the proportion of 6:1. The waste water consists of waste from the de-inking mill and excess white water from the paper machines. The waste control devices are savealls on each paper machine and a clarifier 100 feet in diameter.

Monarch Division

The Monacch Division employs 200 people on a 7-day schedule. The plant has two paper machines which produce carbon tissue and book printing paper. The raw materials are bleached and unbleached kraft and de-inked stock. The waste water treatment consists of a clarifier 90 feet in diameter which discharges to Portage Creek.

King Division

The King Division employs 400 people and operates on a 6 day schedule. The main product is book printing material which is produced on 4 paper machines. The plant water supply is a private well for processing and the Kalamazoo River water for cooling. The waste water treatment consists of save-alls on each paper machine and a 110 feet in diameter clarifier. At this division, a large part of the clarified water is re-used.

Survey Procedure

All the clarifiers had existing weirs on the discharges. We installed automatic samplers and water level recorders at each clarifier discharge. The automatic sampler took samples proportial to the instantaneous flow at 15 minute intervals. The water level recorder measured the head over the weir on a time chart from which we computed the flow.

Flow Data & Survey Periods

Survey Period #1 Starting May 13, 1967 at 8:00 a.m. EST
Ending May 14, 1967 at 9:00 a.m. EDST

Survey Period #2 Starting May 14, 1967 at 9:00 a.m. EDST
Ending May 15, 1967 at 9:00 a.m. EDST

	Period #1	Period #2
King Division	.972 MGD	.571 MGD
Bryant Division	4.79 MGD	3.43 MGD
Monarch Division	2.128 MGD	1.86 MGD
Total	7.89 MGD	5.86 MGD

TABLE 1 Laboratory analysis of composite samples

Parameter	King		Bryant		Monarch	
Survey Period	1	2	1	2	1	2
Concentration	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
5 day BOD	120	170	280	240	32	13
Suspended solids	72	46	204	214	28	16
Suspended volatile solids	29	32	74	62	13	12
Settleable solids	37	16	17	16	22	11
pH	6.9	7.3	6.6	7.1	7.3	7.5

TABLE 2 Pounds per day to Kalamazoo River

Period #1	King	Bryant	Monarch	Total
5 day BOD	972	11,200	568	12,740 #/day
Suspended solids	583	8,140	496	9,219 #/day
Suspended volatile solids	235	2,960	231	3,426 #/day
Settleable solids	299	679	390	1,368 #/day
Period #2				
5 day BOD	810	6,860	202	7,872
Suspended solids	220	6,120	248	6,588
Suspended volatile solids	153	1,775	186	2,114
Settleable solids	76.4	457	171	704.4

Pound per day was computed using following formula:

Flow (MGD) x concentration (mg/l) x unit wt. of water (8.34 lbs/gal) = lbs/day

TABLE 3 Paper production in tons during survey period

	King	Bryant	Monarch	Total
Period #1	234	211.5	82.5	528
	De-inking mill input 114 tons			
	output 91.6 tons			
Period #2	145.8	216.0	51.5	413.3
	De-inking mill input 109 tons			
	output 87 tons			

TABLE 4 Gallons of waste water discharged per ton of paper products

Period #1	4,154	22,650	25,790	14,940
Period #2	2,640	23,530	36,200	14,120

TABLE 5 Suspended solids discharged per ton of paper produced

	King	Bryant	Monarch	Ave. of Total
Period #1	2.49	38.6	6.04	17.45
Period #2	.973	42.0	4.81	15.95

TABLE 6 Pounds of BOD discharged per ton of paper produced

	King	Bryant	Monarch	Ave. of Total
Period #1	4.15	53.0	6.9	24.2
Period #2	3.85	47.0	3.933	19.05

Limits set forth in agreement between the company and the Water Resources Commission of November 30, 1961 and the Order of Determination of October 24, 1951 are as follows:

1. Total pounds of BOD 14,490 lbs/day
2. Suspended solids not to exceed 10 lbs/ton of paper produced.
3. No freely settleable solids

Discussion

During the first period of the survey the BOD load was 12,740 lbs/day with a production load of 528 tons. The second survey period the production was reduced by 22% and the BOD was reduced by 38%.

The King and Monarch plants seem to have adequate solids control to meet the order but the Bryant Division is in excess of the order by 30 lbs to the ton of paper produced. The average pounds of suspended solids per ton from all three plants exceeds the 10 pounds stipulated in the Order by 7.45 and 5.95 pounds per ton.

Survey by: G. Kilmer, Sanitary Engineer
J. Rydquist, Sanitary Engineer
R. Caltrider, Sanitary Engineer
L. Vahovick, Water Pollution Investigator

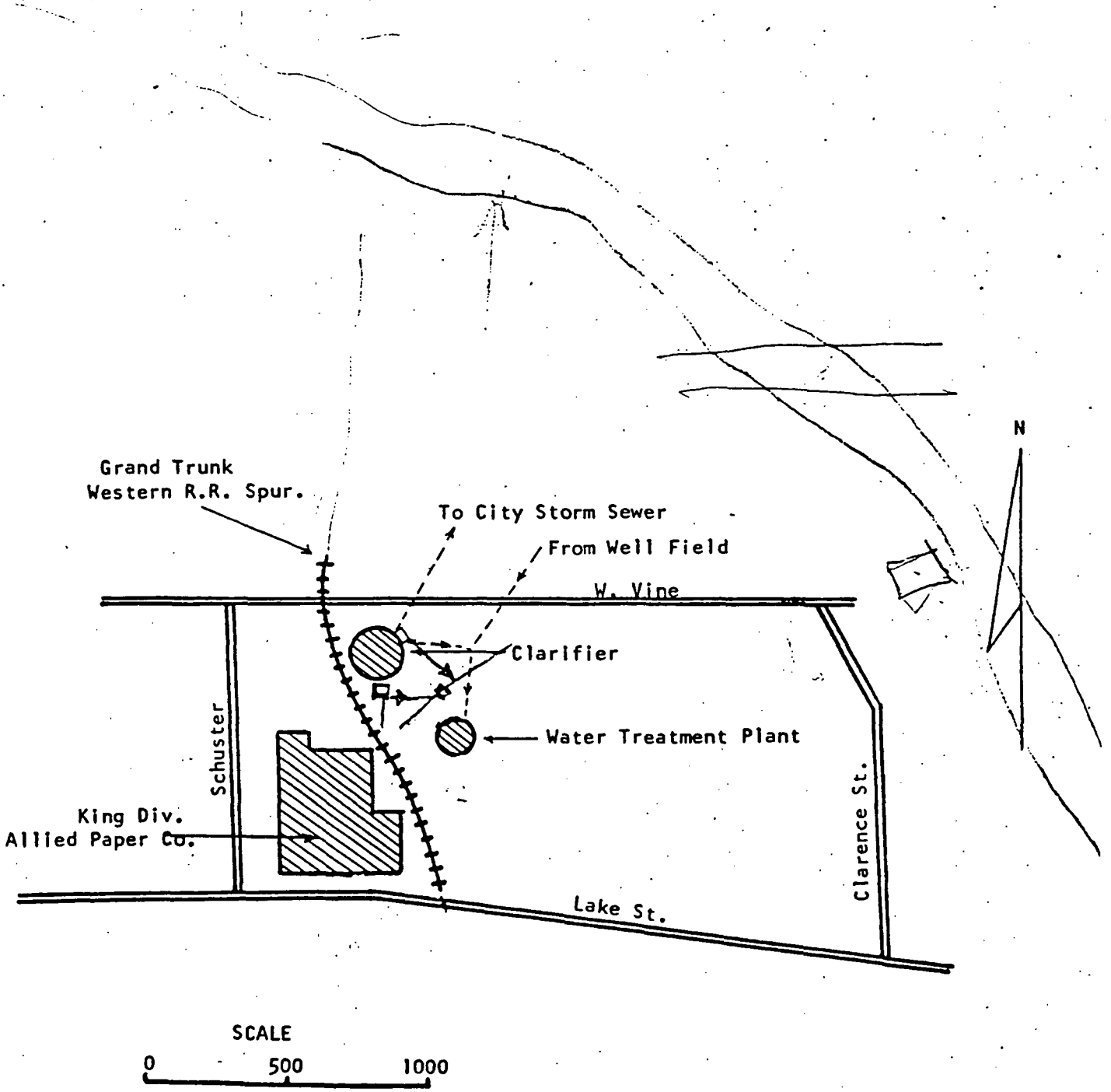
Laboratory analyses by: R. Krueger, Chemist

Report by: G. Kilmer

pb

Michigan Water Resources Commission

Report of Survey
King Division, Allied Paper Co.
June 13, 14, 15, 1967



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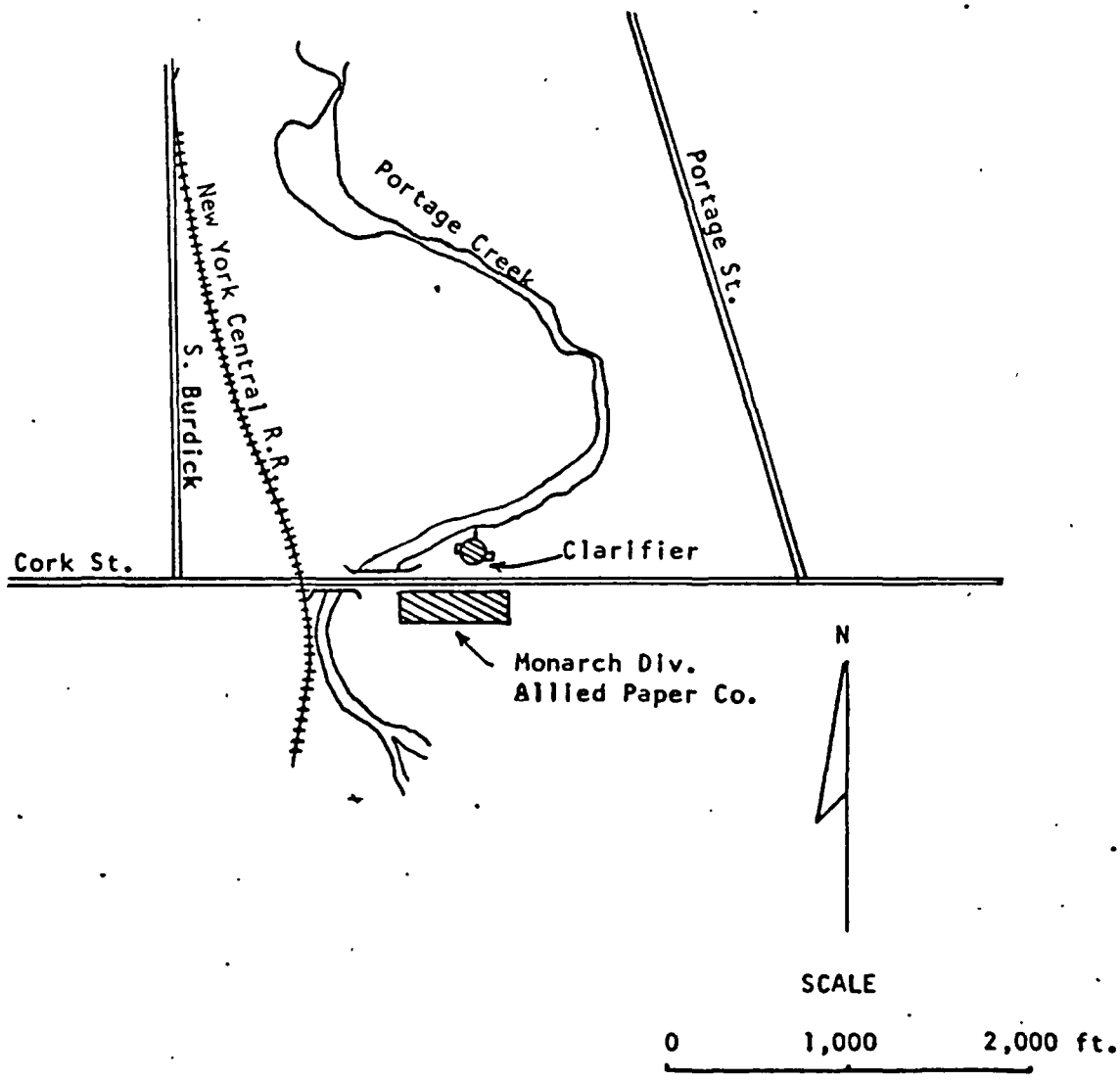
MICHIGAN WATER RESOURCES COMMISSION

Report of Survey
Monarch Division, Allied Paper Co.
June 13, 14, 15, 1967



LJK 6-20-6

MDNR 883656

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SA 032018

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SA 032011

INTRODUCTION

[redacted] Water Resources Commission adopted quality standards for [redacted] January 4, 1968. A portion of these standards designate the particular use or uses for which a stream or lake sector will be protected. The intent of the standards program is both to protect existing desirable use and to improve the quality of water where it does not now support desirable use consistent with Michigan Act 245, Public Acts of 1929, as amended.

Portage Creek, a tributary of the Kalamazoo River, has been degraded by industrial wastes as it passed through the cities of Portage and Kalamazoo. Improvements and changes in wastewater treatment at various industries have recently improved water quality in Portage Creek.

Intensive water quality surveys of the lower three miles of Portage Creek were conducted in the summers of 1968 and 1970. The purpose of these studies was to determine the quantity and strength of waste discharges to the creek and to determine the severity of chemical, physical, and bacteriological degradation caused by these waste discharges. This data was then used to determine the additonal restrictions necessary to adequately protect the designated uses of Portage Creek. In addition to restrictions intended to protect existing use designations, calculations were also made to determine restrictions if the use designations of the creek from Cork Street in Kalamazoo to its mouth were upgraded from the existing Warm Water Tolerant Fish use designation to a Warm Water Intolerant Fish use designation.

SP 032012

SUMMARY

1. Portage Creek has had a history of water quality degradation from industrial waste discharges. These have affected not only the entire reach of the creek below these discharges, but have also added to degradation of the Kalamazoo Rive

2. Changes in wastewater treatment practices at the Upjohn Company and the Geor Pacific Corporation Paper Converted Products Plant protect the water quality of upper portions of Portage Creek to satisfactory levels. Improvements and change wastewater treatment at the Allied Paper Corporation Monarch and Bryant Mills an the Cadillac Plastic and Chemcial Company have recently improved water quality i lower portion of Portage Creek.

3. Water quality investigations of the lower portion of the stream were conducted in August 1968 and in September 1970. Data indicated severe water quality degradation in 1968 for the entire reach of Portage Creek [illegible] Allied Paper Corporation (Cork Street to the mouth). In contrast, in 1970, after deinking and chlorine bleach wastes were diverted to the City of Kalamazoo sewerage system, the water quality in Portage Creek substantially improved.

4. Except for the Bryant millpond, the water quality of Portage Creek in September 1970 was satisfactory to meet the criteria of Michigan's Interst Water Quality Standards for the designated uses of Portage Creek. Dissolve oxygen concentrations in the millpond were not adequate to protect current designated uses.

5. To adequately maintain dissolved oxygen concentrations at specified (10 - year recurrence of minimum low flow of 7 - day duration) drought flow conditions, it will be necessary to reduce the discharge of biochemical oxygen demanding substances from the Allied Paper Corporation.

6. Upgrading of the existing Warm Water Tolerant Fish use designation to a Warm Water Intolerant Fish use designation would require even more substantial reductions in discharges of biochemical oxygen demanding substances.

SA 032013

BASIN DESCRIPTION

Portage Creek is a small tributary of the Kalamazoo River, draining approximately 55 square miles of Texas Township, the City of Portage and the City of Kalamazoo. Its headwaters are in eastern, central Texas Township, in the Gourdneck State Game Area. The creek flows east into Portage, passing through Hampton Lake, and then flows north into Kalamazoo. The West Fork of Portage Creek has its headwaters in Scouters Pond, located in the center of Texas Township. It flows northeast, passing through Atwater Millpond and Limekiln Lake, and then east, roughly paralleling the Portage - Kalamazoo boundary, until it joins Portage Creek just inside Kalamazoo. This portion of the Creek passes through residential areas and parks. Upstream from Cork Street and also upstream from Alcott Street low head dams form small impoundments, the Monarch millpond and the Bryant millpond. Industrial development is found along this portion of the creek. From Reed Avenue to East Walnut Street the creek continues north through residential, commercial, and park areas within Kalamazoo. The last three quarters of a mile of Portage Creek passes through a basically industrial area. It joins the Kalamazoo River just east of the central business district of Kalamazoo. (See Figure 1).

DESIGNATED USES OF PORTAGE CREEK

Intrastate Water Quality Standards, intended to protect and enhance the quality of Michigan's inland waters, were adopted by the Water Resources Commission on January 4, 1968. The standards include specific limits on water quality parameters and desiganted water uses to be protected in particular lakes and reaches of streams and rivers. Where multiple use classifications exist, the most restrictive limits on parameters apply. Water which does not meet the standards at all stream flows equal to or exceeding the 10-year recurrence of minimum low flow of 7-day duration will be improved to meet the standards.

SA 032014

The presently adopted uses for various reaches of Portage Creek are:

Industrial Water Supply - (manufacturing processes other than food processing) - Entire creek.

Recreation - Partial Body Contact - (hunting, fishing, boating, etc.) - Entire creek.

Fish, Wildlife, and Other Aquatic Life - Intolerant Fish, Warmwater Species - (bass, pike, panfish, etc.) - Entire creek upstream from Cork Street in Kalamazoo.

Fish, Wildlife, and Other Aquatic Life - Tolerant Fish, Warmwater Species - (carp, bullheads, etc.) - Entire creek downstream from Cork Street in Kalamazoo to its confluence with the Kalamazoo River.

Agricultural - (irrigation, stock watering, etc.) - Entire creek.

The Tolerant Fish, Warm-Water Species use designation for the lower portion of the stream will apply only until January 1974 by which time the waste disposal situations involved are to have been placed before the Water Resources Commission for critical reconsideration, with a view toward the application of higher quality use designations.

The limits on specific water quality parameters for various designated uses are shown in Table I.

WASTE DISCHARGES TO PORTAGE CREEK

Upjohn Company

This large pharmaceutical firm is located in Portage. Since 1954 certain strong wastes from antibiotics manufacture have been pretreated and injected in the Traverse and Monroe underground formations by two deep wells located on the company's property. The Water Resources Commission by Order of Determination requires that the quantities injected not exceed 300,000 gallons per day (gpd); that casing head pressures not exceed 1,250 pounds per square inch; and that the company report to the Commission at least once every six months showing quantities of waste disposal, waste injection pressures, pH of the waste, and any unusual conditions which develop in the underground waste disposal program. Solvents and certain other organic compounds are incinerated.

Sanitary and less concentrated process wastes were given secondary treatment in trickling filters, disinfected, and the final effluent was discharged to Portage Creek. In June, 1967 these liquid wastes were connected to the City of Kalamazoo sewerage system, thus eliminating this discharge to Portage Creek.

A portion of their cooling and storm water is still discharged to Portage Creek. The quantity of cooling water and its temperature, are determined daily by the company and monthly operating reports, containing this information, are sent to the Bureau of Water Management. For the last half of 1971, the average

SA 032015

TABLE I

QUALITY STANDARDS

6 TOTAL DISSOLVED SOLIDS (mg/l)	7 NUTRIENTS Phosphorus, nitrogen, nitrates and sulfates	8 TASTE & ODOR PRODUCING SUBSTANCES	9 TEMPERATURE (°F)	10 HYDROGEN ION (pH)	11 RADIOACTIVE MATERIALS
Total Dissolved Solids shall not exceed 500 as a monthly average nor exceed 750 at any time. Chlorides: The monthly average shall not exceed 125	Nutrients or ginating from industrial, municipal or domestic animal sources shall be limited to the extent necessary to prevent adverse effects on water treatment processes or the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use	Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the designated use. Phenol concentration less than 0.002 mg/l - maximum concentration limited to 0.005 mg/l for a single sample	The maximum natural water temperature shall not be increased by more than 1°F	pH shall not have an induced variation of more than 0.5 unit as a result of unnatural sources	An upper limit of 1000 picocuries/liter of gross beta activity (in absence of alpha emitters and Strontium-90). If this limit is exceeded the specific radionuclides present must be identified by complete analysis in order to establish the fact that the concentration of nuclides will not produce exposures above the recommended limits established by the Federal Radiation Council
Total Dissolved Solids shall not exceed 500 as a monthly average nor exceed 750 at any time. Chlorides: The monthly average shall not exceed 125	Nutrients or ginating from industrial, municipal or domestic animal sources shall be limited to the extent necessary to prevent the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use	Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the designated use.	The maximum natural water temperature shall not be increased by more than 1°F	Maintained within the range 6.5-8.5 with a maximum induced variation of 0.5 units within this range	Standards to be established when information becomes available on deleterious effects
Limited to concentrations less than those which are or may become injurious to the designated use	Nutrients or ginating from industrial, municipal or domestic animal sources shall be limited to the extent necessary to prevent the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use	Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the designated use	90°F maximum	Maintained within the range 6.5-8.5 with a maximum induced variation of 0.5 units within this range	Standards to be established when information becomes available on deleterious effects
Limited to concentrations less than those which are or may become injurious to the designated use	Nutrients originating from industrial, municipal or domestic animal sources shall be limited to the extent necessary to prevent the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use	Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the designated use	90°F maximum	Maintained within the range 6.5-8.5 with a maximum induced variation of 0.5 unit within this range	Standards to be established when information becomes available on deleterious effects
Standards to be established when information becomes available on deleterious effects	Nutrients originating from industrial, municipal, or domestic animal sources shall be limited to the extent necessary to prevent the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use	Concentrations of substances of unnatural origin shall be less than those which are causing or may cause taint in the flesh of fish or game.	In rivers capable of supporting: Ambient / Allowable Maximum Increase / Limit Intolerant fish, coldwater species (trout): 32° to 65°: 10°: 70° Intolerant fish, warmwater species (bass): 32° to 85°: 15°: 100°: 85° Tolerant fish, warmwater species (carp): 32° to 90°: 15°: 100°: 87° For anadromous fish migrations and inland lakes see discussion, page 29	Maintained between 6.5 and 8.0 with a maximum artificially induced variation of 1.0 unit within this range. Changes in the pH of natural waters outside these values must be toward neutrality (7.0)	Standards to be established when information becomes available on deleterious effects
Less than 700 dissolved minerals. Maximum percentage of sodium (Na) as determined by the formula $\frac{(Na + 100)}{(Ca+Mg+Na)}$ when the bases are expressed as milliequivalents per liter	Nutrients originating from industrial, municipal or domestic animal sources shall be limited to the extent necessary to prevent the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use. NO_3 concentrations shall conform to USPHS Drinking Water Standards.	Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the designated use	Not applicable	pH shall not have an induced variation of more than 0.5 unit as a result of unnatural sources.	An upper limit of 1000 picocuries/liter of gross beta activity (in absence of alpha emitters and Strontium-90). If this limit is exceeded the specific radionuclides present must be identified by complete analysis in order to establish the fact that the concentration of nuclides will not produce exposures above the recommended limits established by the Federal Radiation Council
Limited to concentrations less than those which are or may become injurious to the designated use	Nutrients or ginating from industrial, municipal or domestic animal sources shall be limited to the extent necessary to prevent the stimulation of growths of algae, weeds and slimes which are or may become injurious to the designated use	Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the designated use	The maximum natural water temperature shall not be increased by more than 1°F	Maintained within the range 6.5-8.5 with a maximum induced variation of 0.5 unit within this range	Standards to be established when information becomes available on deleterious effects

SA 032016

suspended solids per day. This Order also contained the provision that all paper processing wastes other than those from the deink pulping operations be restricted to not more than ten pounds of suspended solids per ton of paper produced. This Order became effective after June 1, 1954. Both mills provided waste solids removal or control facilities as required.

In April 1961 the Commission adopted further restrictions on all paper companies in Kalamazoo, Parchment, Plainwell, and Otsego intended to maintain a minimum dissolved oxygen (DO) content of 30 percent of the saturation value in the Kalamazoo River from Comstock to Allegan at the once in ten year, thirty day drought flow. The Allied Paper Corporations "share" of the allowable maximum waste discharge was a total of 14,490 pounds of BOD per day from all three of their Divisions: Monarch, Bryant, and King (the King Division clarifier discharged to the Kalamazoo River rather than to Portage Creek). In November 1961 a Stipulation containing this limitation was signed by the company. In September 1963 the company indicated that they would proceed independently to construct the facilities to meet this load limit, rather than joining an area wide treatment system. Ultimately, the company met the restriction by discontinuing deinking operations at the Monarch and King Divisions and modifying deinking operations at the Bryant Division. Inplant improvements also reduced the volume of water use and increased efficiency in reclaiming fiber.

While these measures taken by the Company improved water quality of the Kalamazoo River, it did little to improve the water quality of Portage Creek downstream from the Bryant Division. When Intrastate Water Quality Standards were adopted in January 1968, it became necessary to greatly improve wastewater treatment at the Monarch and Bryant Divisions to meet these standards in Portage Creek.

In March 1968 representatives of the company met with the Water Resources Commission to discuss measures necessary to elevate the water quality to satisfactory levels and at the same time were requested to terminate the frequent bypasses of portions of the untreated wastes from the Bryant Division. To achieve these goals, the company has since taken a number of steps. A twelve inch diameter pipeline was constructed from the Bryant Division mills to the Monarch Division clarifier located near Cork Street. White water from both divisions is settled in this clarifier before the supernatent liquid is discharged to Portage Creek. The settled materials are disposed of in large sludge ponds located between the two mills. A portion of the wastes from the Bryant Division (deinking wastes until December 1971) have been discharged to the City of Kalamazoo sewerage system after receiving treatment in the Bryant clarifier. This diversion to the City's system began in September 1969.

Although the early steps greatly reduced the load of waste materials to Portage Creek, the appearance of the creek below Alcott Street appeared virtually unchanged because of the continued discharge of chlorine bleach water from the Bryant Division deinking operation. To solve this problem the company in February 1970 began pumping this waste to the Monarch clarifier along with the Bryant white water. The same month they also discontinued the use of oxidized or chlorinated starch at the Bryant Division and began adding an anionic coagulant to the Monarch clarifier to improve settling.

SA 032017

Subsequent Commission action resulted in a Stipulation which was adopted at the August 1971 meeting of the Water Resources Commission. The company agreed to the following terms:

1. Commencing July 1, 1972, and continuing thereafter, the Company will treat or control its wastes to the extent that, when discharged to the waters of the state they shall:

   a. Contain not more than thirty-five (35) milligrams per liter of 5-day BOD.

   b. Contain not more than thirty-five (35) milligrams per liter of suspended solids.

   c. Contain not more than ten (10) milligrams per liter of chloroform extractable substances nor create a noticeable oil film on the receiving waters.

   d. Have a pH of not more than 9.5 nor less than 6.5.

   e. Contain no substances in amounts which are or may become injurious to designated uses of Portage Creek and the Kalamazoo River.

2. The Company shall provide facilities capable of treating and controlling its waste discharges as specified in paragraphs 1 (a), 1(b), 1(c), 1(d), and 1(e), above in accordance with the following time schedule:

   a. Submit complete construction plans and specifications for the necessary treatment facilities to the Chief Engineer of the Commission and obtain his approval thereof on or before October 1, 1971.

   b. Award contracts and commence construction of said facilities on or before October 15, 1971.

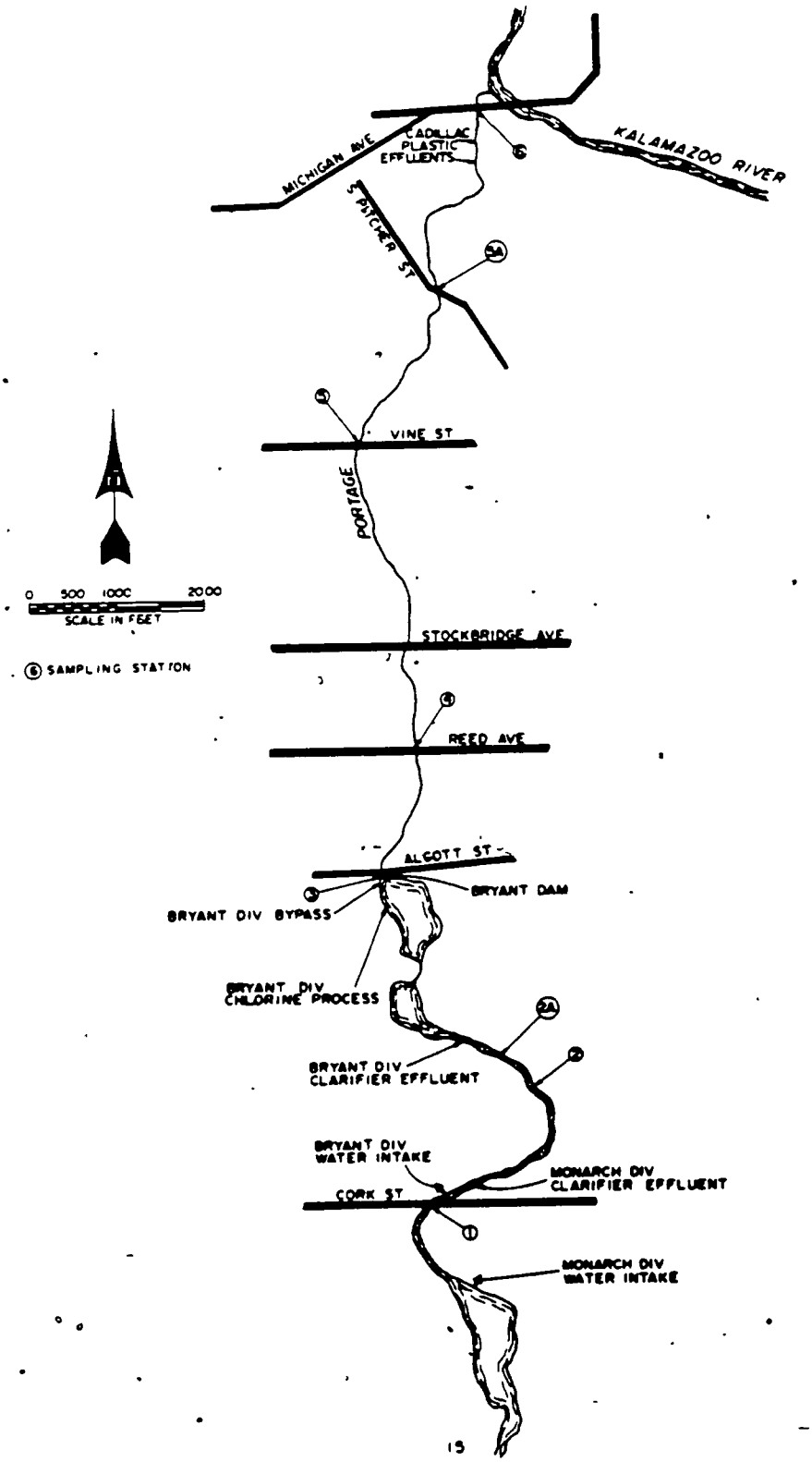
   c. Complete construction of facilites and place same into continuous operation on or before July 1, 1972.

The Stipulation stated that if the company planned to correct its pollution of Portage Creek and the Kalamazoo River by connecting its process waste to the City of Kalamazoo sanitary sewerage system, it was to notify the Commission of this intent by July 1, 1971 and complete its connection to the sewerage system by November 1, 1971. The company has selected this means of correcting its problem and the south sewer effluent (the strong wastes) now receives pretreatment and is discharged to the Kalamazoo sanitary sewer system. The company's north sewer effluent is essentially clear, cooling water which meets all of the restrictions of 1(a) through 1(e) of the Stipulation. It will continue to be discharged to Portage Creek. The company must submit monthly operating reports showing the daily quantity, pH, temperature, and oil-grease severity of this discharge.

SA 032018

FIGURE 2

SAMPLING STATION LOCATIONS
ON PORTAGE CREEK IN KALAMAZOO
1968 AND 1970 SURVEYS



SA 032019

Biochemical Oxygen Demand

BOD is a measure of the amount of oxygen required by bacteria and other organisms as they decompose the organic matter present in the water. During both the 1968 and 1970 surveys, concentrations at Cork Street were low, 1.7 mg/l and 2.3 mg/l, respectively. In 1968 concentrations approximately doubled below the Monarch clarifier to 3.2 mg/l while in 1970 they increased sixfold to more than 13.9 mg/l; in 1970 the Monarch clarifier was treating both the Monarch and Bryant Division whitewater. In 1968 the BOD concentrations were much higher downstream from the Bryant Dam. A comparison of average BOD concentrations found during the two surveys is presented graphically in Figure 3-B of Appendix B.

Solids

Total solids, suspended solids and suspended volatile solids all increased significantly below the Allied Paper Corporation in 1968 and 1970. In 1970, however, the majority of the suspended solids and suspended volatile solids found in Portage Creek below the outfall of the Monarch clarifier settled out in the Bryant millpond and did not affect the lower reaches of the stream. A graphical comparison of the 1968 and 1970 solids concentrations is presented in Figure 4-B of Appendix B.

Nutrients

In both 1968 and 1970 the ammonia-nitrogen, nitrate-nitrogen, and soluble ortho-phosphorus concentrations decreased in Portage Creek downstream from the discharges of the Allied Paper Corporation. This occurred because the growth of bacteria and other organisms utilized these chemicals in the formation of their cell material. Paper wastes are deficient in nitrogen and phosphorus compounds.

Total phosphorus concentrations did not change significantly below the Allied Paper Corporation.

Other Chemical & Physical Parameters

Calcium, magnesium, and iron concentrations and hardness were not significantly influenced by the Allied Paper Corporation effluents during the 1968 survey. Concentrations of sodium, potassium, chlorides and sulfate were increased by these effluents (see Table 3-B). pH values dropped from 7.7 at Cork Street to 7.1 at the Bryant dam.

In contrast, in 1970 sodium and chloride concentrations were only slightly increased by the Allied Paper Corporation effluent (see Table 4-B). pH values dropped from 8.2 at Cork Street to 7.8 at the Bryant dam. Turbidity, which was not measured in 1968, showed a great increase in Portage Creek downstream from the Monarch clarifier effluent.

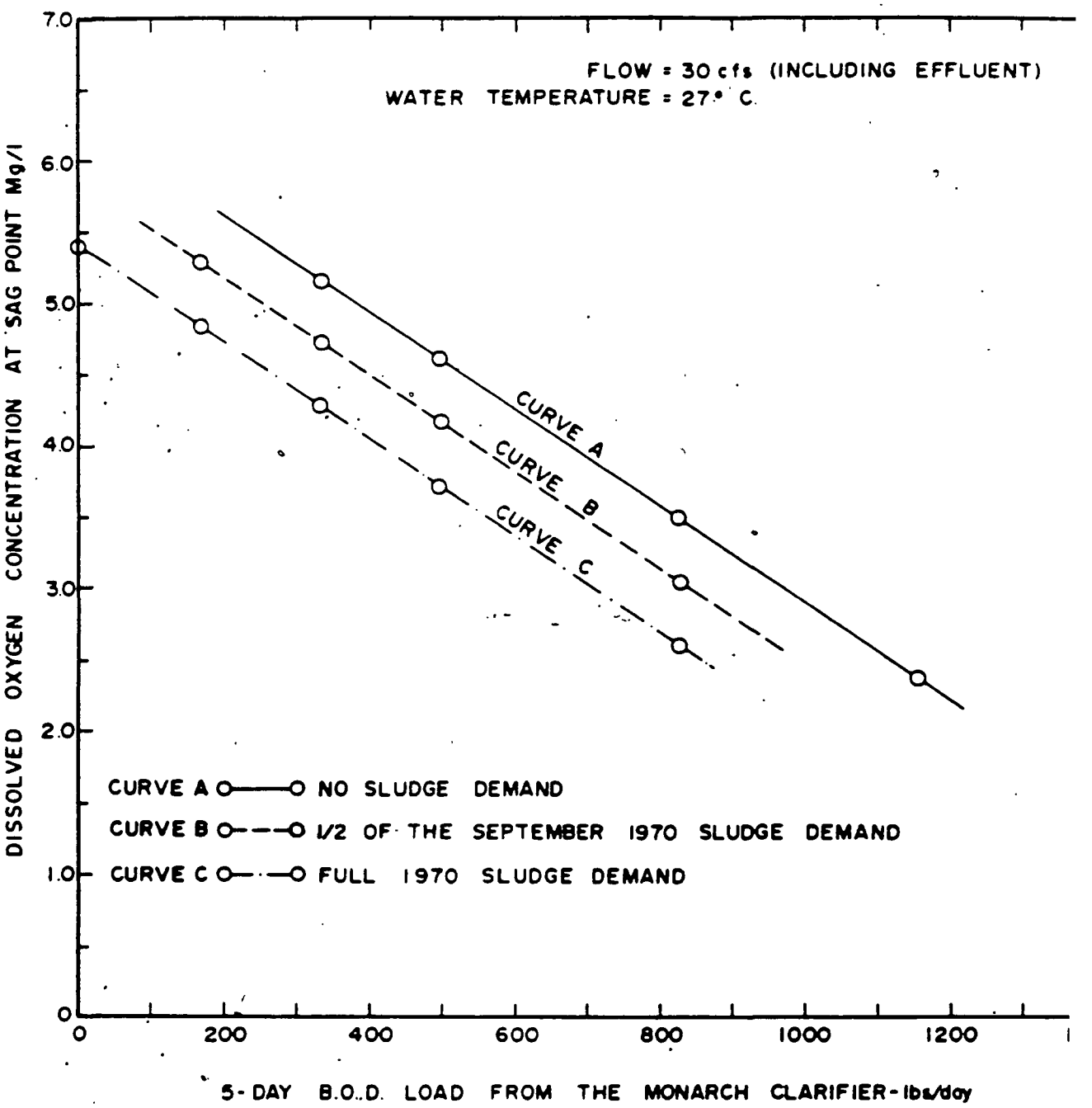
Bacterial Densities

Total and fecal coliform bacteria are indicator organisms whose presence

SA 032020

FIGURE 3

PREDICTED MINIMUM DISSOLVED OXYGEN CONCENTRATIONS IN PORTAGE CREEK BELOW THE MONARCH CLARIFIER EFFLU



SA 032021

APPENDIX A

WASTE DISCHARGES

TABLE 1-A

1971 INDUSTRIAL WASTE DISCHARGES TO PORTAGE CREEK (FLOW, BOD, & SUSPENDED SOLIDS)
(DATA FROM MONTHLY OPERATING REPORTS SUBMITTED BY THE COMPANIES)

		5/71	6/71	7/71	8/71	9/71	10/71	11/71	12/71	1971 Averages
Allied Paper Corp., Monarch Clarifier (390006)										
Flow (mgd)	Av.	3.832	3.776	3.830	3.871	3.780	3.728	3.609	3.644	3.759
	Max.	4.216	4.113	4.216	4.216	4.113	4.013	4.113	3.914	
	Min.	3.434	3.341	2.611	3.528	3.340	3.434	2.788	3.247	
BOD (lbs/day)	Av.	1900	1841	1543	1115	1381	1309	1519	1594	1525
	Max.	2900	2800	2900	1900	2000	2200	2500	2200	
	Min.	1000	1200	400	500	500	600	1000	1000	
Susp. Solids (lbs/day)	Av.	560	695	348	590	484	318	383	250	454
	Max.	2300	1800	1300	1900	1270	900	1000	1100	
	Min.	0	0	0	0	0	0	0	0	
Upjohn Co. (390055)										
Flow (mgd)	Av.	----	----	5.96	6.68	5.45	4.28	2.41	3.40	4.70
	Max.	----	----	8.18	11.09	8.90	6.97	5.34	8.62	
	Min.	----	----	3.05	2.67	1.47	1.00	1.09	1.17	
Georgia-Pacific Corp, Portage Paper Converted Prod. Plt. (390065)										
Flow (mgd)	Av.	----	----	----	----	0.007	0.007	0.006	----	0.007
	Max.	----	----	----	----	0.008	0.008	0.008	----	
	Min.	----	----	----	----	0.005	0.005	0.005	----	
BOD (mg/l)	Av.	----	----	----	----	1.6	1.4	2.0	----	1.7
	Max.	----	----	----	----	2.0	2.1	4.0	----	
	Min.	----	----	----	----	1.0	1.0	1.0	----	
Susp. Solids (mg/l)	Av.	----	----	----	----	1.9	2.2	4.5	----	2.9
	Max.	----	----	----	----	4.0	4.0	7.0	----	
	Min.	----	----	----	----	1.2	1.3	2.0	----	

SH 032823

TABLE 2-A

WASTE LOAD DISCHARGES (LBS./DAY) TO PORTAGE CREEK FROM ALLIED PAPER, INC.
MONARCH AND BRYANT DIVISIONS

MONARCH DIVISION

Parameter	6/13-14/67	6/14-15/67	6/4-5/68	6/5-6/68	8/20-21/68	9/16-17
5-day BOD	568	202	586	712	456	1,636
COD	----	----	870	1423	----	2,383
Total Solids	----	----	----	----	9,026	16,076
Susp. Solids	497	248	391	538	564	1,608
Susp. Vol. Solids	231	186	249	411	304	1,608
Settleable Solids	391	171	213	221	----	----
Total PO_4-P	----	----	7	20	----	3
Sol. Ortho PO_4P	----	----	0	0	----	0
Organic Nitrogen-N	----	----	37	52	----	43
Ammonia Nitrogen-N	----	----	7	0	----	0
Nitrate Nitrogen-N	----	----	0	0	----	6
Sodium	----	----	----	----	----	976
Sulfates	----	----	----	----	----	4,306
Chlorides	----	----	----	----	----	1,263
Flow (mgd)	2.128	1.86	2.127	1.895	2.6	3.44

BRYANT DIVISION

Parameter	*	*				
5-day BOD	11,193	6,870	7,559	8,036	10,008	Dischar
COD	----	----	13,608	16,801	----	include
Total Solids	----	----	5,550**	5,676**	46,904	in that
Susp. Solids	8,155	6,126	3,434	5,658	6,712	shown a
Susp. Vol. Solids	2,958	1,775	1,638	2,911	2,425	
Settleable Solids	680	458	1,163	3,638	----	
Total PO_4-P	----	----	33	54	----	
Sol. Ortho PO_4-P	----	----	6	9	----	
Organic Nitrogen-N	----	----	116	147	----	
Ammonia Nitrogen-N	----	----	0	0	----	
Nitrate Nitrogen-N	----	----	1	3	----	
Sodium	----	----	----	----	----	
Aluminum	----	----	----	----	101	
Sulfates	----	----	----	----	----	
Chlorides	----	----	----	----	----	
Chloroform Extr.	----	----	508	710	----	
Flow (mgd)	4.79	3.43	3.402	3.602	3.91	

NOTE: (1) All data is from analyses of composite samples collected during surveys of t plants conducted by the Bureau of Water Management.
(2) All loads are expressed as pounds per day except Flow which is in million ga per day.
* Only the Bryant clarifier discharge; does not include deinking bleach wastew or bypasses, if any.
** Only the deinking bleach wastewater contribution
*** White water from both the Monarch and Bryant Divisions treated in this clari

SH 032024

APPENDIX B

WATER QUALITY INVESTIGATIONS

SA 032025

TABLE 1-8

RESULTS OF ANALYSES OF 1968 GRAB SAMPLES OF PORTAGE CREEK

Sampling Stations	Date	Time	Temp. (°C)	K_1 Rate	Dissolved Oxygen (mg/l)	5-day BOD (mg/l)	Total Coliform Organisms (counts/100 ml)	Fecal Co Organ (counts/
1 Cork Street	8/20	0800	23	0.09	7.4	1.6	10,000	1
	8/20	1040	23	----	7.6	1.9	1,400	7
Mile Point 3.04	8/20	1320	24	----	7.6	1.8	900	5
	8/20	1552	26.5	----	7.4	1.6	4,000	4
	8/20	1850	26	----	7.2	1.4	4,000	2
	8/20	2114	26	----	7.6	2.0	8,000	1
	8/20	2350	25	----	7.2	1.4	6,000	1
	8/21	0240	25	----	7.4	2.0	18,000	6
	8/21	0520	24	----	7.6	1.9	11,000	-
	Arithmetic Ave.		24.7		7.4	1.7	7,000	1
	Geometric Ave.		----		7.4	1.7	4,989	2
2. End of sludge pond between Cork and Alcott Streets	8/20	0817	25	----	6.1	3.7	6,000	6
	8/20	1056	25.5	----	6.4	2.9	1,000	
	8/20	1332	26	----	6.2	3.0	7,800	
Mile Point 2.58	8/20	1610	27	----	6.6	3.0	400	
	8/20	1858	27	----	6.6	2.8	8,000	1
	8/20	2127	27	----	6.2	3.2	11,000	6
	8/21	0005	26	----	6.4	3.2	19,000	2
	8/21	0255	26	----	6.0	3.6	18,000	2
	8/21	0530	26	----	5.6	3.6	15,000	-
	Arithmetic Ave		26.2		6.2	3.2	9,600	1
	Geometric Ave		----		6.2	3.2	5,884	2
3. Byrant Dam	8/20	0829	25.5	0.13	1.6	27.0	400	
	8/20	1110	26	----	1.2	23.0	< 100	<
Mile Point 1.94	8/20	1344	27	----	1.0	30.0	< 100	<
	8/20	1614	28	----	2.6	23.0	3,400	<
	8/20	1908	29	----	0.6	32.0	1,100	1
	8/20	2133	28	----	3.0	----	< 100	<
	8/21	0015	28	----	1.6	29.0	< 100	
	8/21	0305	28	----	1.4	33.0	< 100	<
	8/21	0540	27	----	1.0	41.0	< 100	-
	Arithmetic Ave.		27.8		1.6	29.8	< 611	<
	Geometric Ave.		----		1.4	29.3	< 225	<
4. Reed Avenue	8/20	0837	25.5	----	7.2	32.0	< 100	<
	8/20	1121	26	----	7.4	32.0	< 100	<
Mile Point 1.63	8/20	1352	27	----	6.8	29.0	< 100	<
	8/20	1620	28	----	6.8	31.0	< 100	<
	8/20	1911	28	----	6.2	38.0	130,000	8,0
	8/20	2139	28	----	6.0	37.0	240,000	<
	8/21	0025	26	----	6.6	33.0	800	
	8/21	0310	27	----	6.8	34.0	< 100	<
	8/21	0545	28	----	7.0	30.0	< 100	<
	Arithmetic Ave.		27.1		6.8	32.9	< 41,267	< 8
	Geometric Ave.		----		6.7	32.8	< 664	<
5. Vine Street	8/20	0848	25.5	----	6.4	33.0	70,000	1,0
	8/20	1130	26	----	6.4	30.0	< 100	<
Mile Point 0.94	8/20	1400	27	----	6.2	28.0	500	
	8/20	1625	28	----	6.0	32.0	29,000	1
	8/20	1920	28	----	4.6	38.0	20,000	2,1
	8/20	2147	27.5	----	5.6	38.0	110,000	7,0
	8/21	0035	26	----	5.8	35.0	8,800	<
	8/21	0315	27	----	6.2	34.0	900	
	8/21	0555	27	----	6.4	33.0	30,000	—
	Arithmetic Ave.		27.0		6.0	33.4	< 29,922	< 1,
	Geometric Ave.		----		5.9	33.3	< 4,089	<
6. Michigan Avenue	8/20	0858	25	0.12	5.2	33.0	1,500	<
	8/20	1145	26	----	5.0	30.0	14,500	
Mile Point 0.06	8/20	1410	26.5	----	5.0	21.0	20,700	
	8/20	1637	27	----	4.6	32.0	400,000	38,1
	8/20	1928	27	----	4.2	33.0	84,000	1,5
	8/20	2155	27	----	4.0	37.0	160,000	2,0
	8/21	0040	26	----	4.0	51.0	150,000	6,0
	8/21	0330	27	----	4.0	35.0	80,000	1,0
	8/21	0605	26	----	4.0	35.0	11,000	—
	Arithmetic Ave.		26.4		4.4	34.1	113,411	< 5,5
	Geometric Ave		----		4.4	33.3	40,888	< 6

NOTE: Field dissolved oxygen saturation at 23°C = 8.2 mg/l at sampling station #1.

SA 032026

TABLE 3-B

RESULTS OF ANALYSES OF 1968 COMPOSITE SAMPLES OF PORTAGE CREEK

Analysis	Sampling Stations					
	Cork Street 1	End of Sludge Pond 2	Bryant Dam 3	Reed Avenue 4	Vine Street 5	Michigan Avenue 6
Total Solids	348	358	502	472	486	506
Suspended Solids	12	25	55	41	51	46
Suspended Volatile Solids	3	16	20	14	23	14
pH	7.7	7.4	7.1	7.3	7.3	7.3
Ammonia - N	0.1	0.1	0.2	0.0	0.0	0.0
Nitrate - N	0.50	0.40	0.10	0.10	0.0	0.0
Soluble Ortho PO_4-P	0.06	0.02	0.0	0.0	0.0	0.0
Total PO_4-P	0.15	0.19	0.26	0.18	0.26	0.25
Hardness	230	230	230	230	230	260
Calcium	64	64	62	62	62	70
Magnesium	17	17	18	18	18	21
Sodium	9.2	12	37	34	33	37
Potassium	0.8	0.9	1.8	1.6	1.6	1.8
Iron	0.5	0.7	0.6	0.5	0.6	0.6
Chloride	18	20	50	40	40	50
Sulfate	36	40	56	54	52	58

NOTE: All constituents except pH are expressed as mg./l.

Survey Period from 0800, August 20, 1968 to 0800, August 21, 1968

Average Flow upstream from Cork St. = 33.7 cfs.
Average Flow at Reed Ave. = 44.0 cfs.

SA 032027

TABLE 5 B

SEASONAL VARIATIONS OF PORTAGE CREEK WATER QUALITY
PRIOR TO IMPROVEMENTS IN ALLIED PAPER COMPANY'S
WASTEWATER TREATMENT

Sampling Station	Date	Time	Flow (cfs)[1]	Temp (°C)	Dissolved Oxygen	BOD	5 Day BOD	O_2 Ratio	pH	Total Solids	Susp Solids	Susp Vol Solids	NH_3 N	NO_2 N	NO_3 N	Total P PO_4 P	Ortho P PO_4 P	Total Coliform (/100 ml)	Fecal Coliform (/100 ml)	Fecal Strep (/100 ml)
Lovers Lane	9/26/67	1120	51	16.5	8.4	85.3	7.7		7.9		24	17						12,000	7,600	
	6/26/68	1115	61	11		-			7.4	114					1.04					
Park St	9/26/67	1130	50	16	8.7	87.4	7.5				10							4,000	400	
	10/30/67	1112	51	5	11.2	87.5	7.6	0.07	7.1	370	0	7	<0.1		1.1	0.25	0.20	700	400	
	3/13/68	1045	61	3	11.8	87.5	7.6		8.2	300	9		0.8	0.01	0.20	0.7	0.45	10,000	100	
	3/19/68	1050	61	1	12.0	87.4	7.9		8.1	260	10	5	0.4		0.90	0.10	0.25	7,100	100	
	3/21/68	1055	63	6	10.8	86.5	7.7		8.1		25	6	0.0		0.7	0.10	0.35	1,400	200	
	4/26/68	0830	62	7	10.5	86.3	7.1		8.0	300	9		0.0		0.40	0.10	0.20	1,400	100	0.0
	5/31/68	1104	70	11	9.4	86.2	7.6		8.1	265	22	11	0.0	0.01	0.10	0.15	0.25	11,000	500	0.1
	6/25/68	1615	90	22	7.6	81.0	6.7		7.7	205	266	50	0.2	0.04	0.40	0.10	1.7	54,000	7,700	
	7/22/68	1132	15	23	7.5	86.4	6.7		7.7	265	10	9	0.1	0.01	0.60	0.11	0.75	81,000	5,010	
[illegible] Ave	9/26/67	1135		18	3.9	48.9	60		7.4		500	150						4,100	100	
	2/19/68	1115		1	10.8	35.9	8	0.17	8.0	395	11	5	0.0		0.90	0.12	0.35	700	100	
	3/17/68	1110		9	8.3	71.6	27		8.0		11	5	0.0		0.55	0.10	0.60	4,100	100	
	4/26/68	0830		8.5	7.8	66.5	61		7.9	377	10	11	0.0		0.10	0.00	0.55	4,100	100	0.1
	5/31/68	1130		16.5	6.8	58.7	39		7.5	365	27	15	0.0	0.01	0.00	0.05	0.40	40,000	200	0.1
	6/25/68	1635	-	24	8.5	5.9	35		7.7	355	64	25	0.0	0.00	0.00	0.10	0.80	51,000	7,400	
	7/22/68	1141	---	25	8.4	6.0	21		7.7	375	17	14	0.0	0.00	0.00	0.04	0.67	47,000	7,301	
Reed Ave	12/20/67	1120	---	8	10.6	89.3	39	0.04	8.0	350	197	50	<0.2		0.40	0.10	7.1	4,100	100	
	1/23/68	1100	---	5	11.2	87.5	15		8.0	360	24	5	0.4	0.00	0.45	0.25	0.50	4,100	100	
	2/19/68	1125	---	3	12.2	88.2	6.6	-	7.9		10	8	0.0		1.0	0.15	0.40	4,100	100	
	3/21/68	1120	---	9.5	10.2	89.8	29		8.2		64	11	0.0		0.70	0.15	0.70	4,100	100	
	4/26/68	0840	---	9	10.0	86.3	45		7.9		57	17	0.0		0.30	0.00	0.55	4,100	100	1.0
	5/9/68	1300	40	19	- -	---	-		7.7	354					0.07		-			
	5/31/68	1144	40	16	8.6	86.4	30		7.7	350	31	14	0.0	0.00	0.40	0.00	0.70	10,000	600	0.1
	6/25/68	1635	124	24	6.6	75.0	33		7.3	315	154	42	0.0	0.07	0.80	0.10	1.1	84,000	7,400	
	7/22/68	1155	53	26	6.6	77.0	41		7.3	340	55	20	0.0	0.00	0.00	0.11	1.17	16,000	5,500	
Blackbridge Ave	8/26/67	1145	--	18	7.6	79.7	43		7.8		177	64						4,100	4,100	
Michigan Ave	9/26/67	1210	---	18.5	6.6	69.9	50		7.6		140	60						800	100	
	12/20/67	1020	---	7.5	9.6	79.9	56		8.1	350	265	157	<0.2		0.65	0.10	7.5	4,100	4,100	
	1/23/68	1115	---	5	10.6	83.0	17		7.8	370	14	11	0.0	0.07	2.7	0.15	0.95	4,100	4,100	
	2/19/68	1140	---	2	11.2	90.9	9.9	0.11	8.0		30	10	0.0		0.90	0.15	0.60	4,100	4,100	
	3/21/68	1130	---	9	9.7	83.7	36		8.0		102	20	0.0		0.65	0.20	1.3	700	4,100	
	4/26/68	0850	---	9	10.0	86.3	61	-	7.8	357	45	17	0.0		0.10	0.00	0.75	4,100	4,100	0.5
	5/31/68	1156	---	16	8.0	80.4	33	-	7.7	380	13	21	0.0	0.00	0.40	0.05	0.70	4,100	4,100	0.1
	6/25/68	1650	---	22.5	5.7	59.4	23	-	7.7	360	110	35	0.0	0.00	0.00	0.01	1.5	79,000	5,500	
	7/22/68	1200	---	25.5	4.0	46.3	21		7.3	360	83	26	0.0	0.00	0.00	0.00	1.70	35,000	3,500	
	8/11-12/68	---	---	18.9	7.1	75.0	50.1		7.5	345	49	22	0.0	-	0.10	0.00	1.11	7,400	4,200	

NOTE All constituents except O_2 ratio, pH and those otherwise designated are expressed as mg/l

[1] Flows at the first two stations are those recorded at the USGS gage at Lovers Lane
Flows at other stations are those recorded at the USGS gage at Reed Ave

NO_2 value is included in the NO_3 value

** These values are the means of composites of up to 15 samples collected from 0700 9/11/68 to 0700 9/12/68
Coliform counts are geometric means

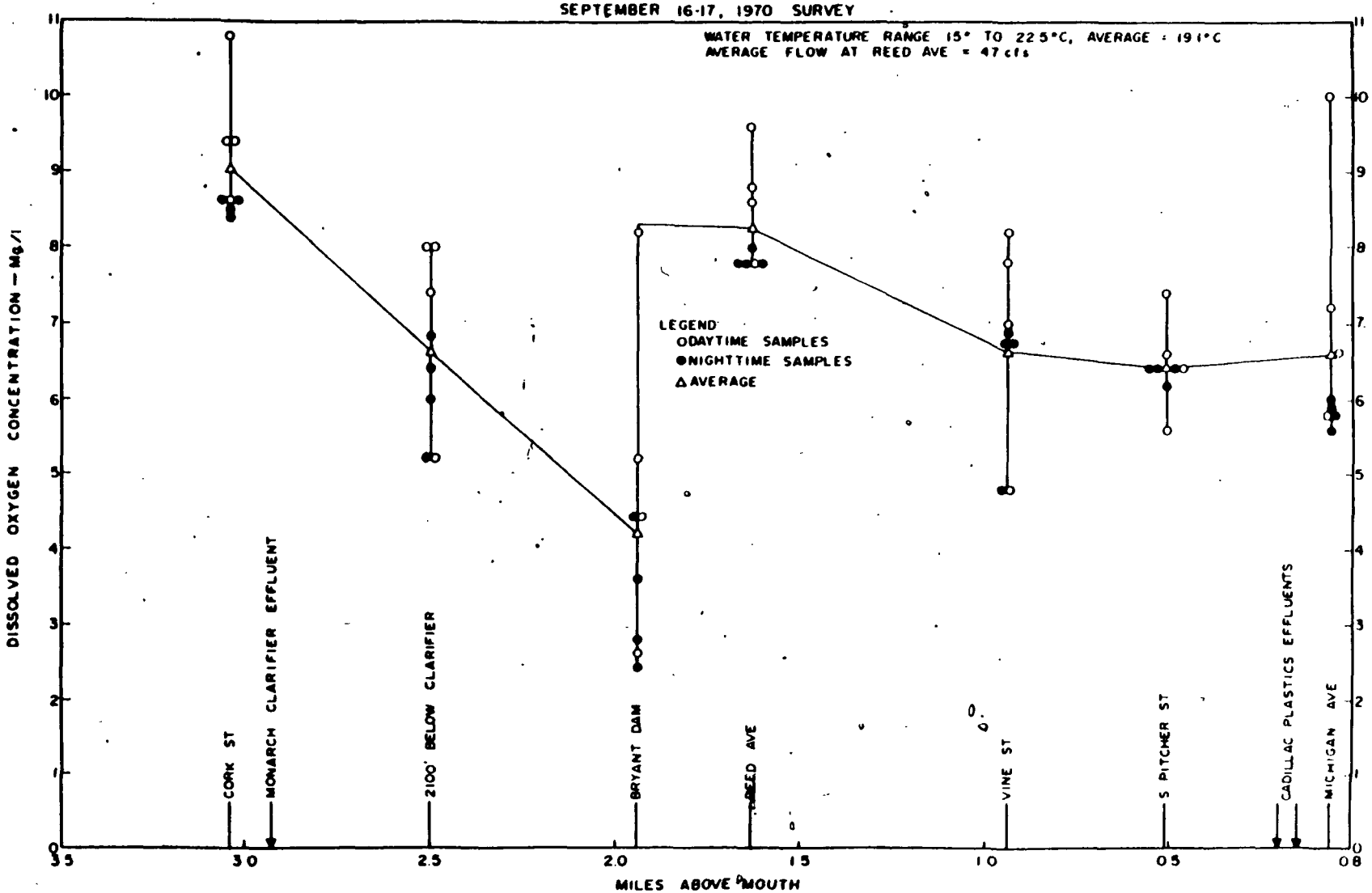
SA 032028

FIGURE 2-8

PORTAGE CREEK IN KALAMAZOO

DISSOLVED OXYGEN PROFILE

SEPTEMBER 16-17, 1970 SURVEY

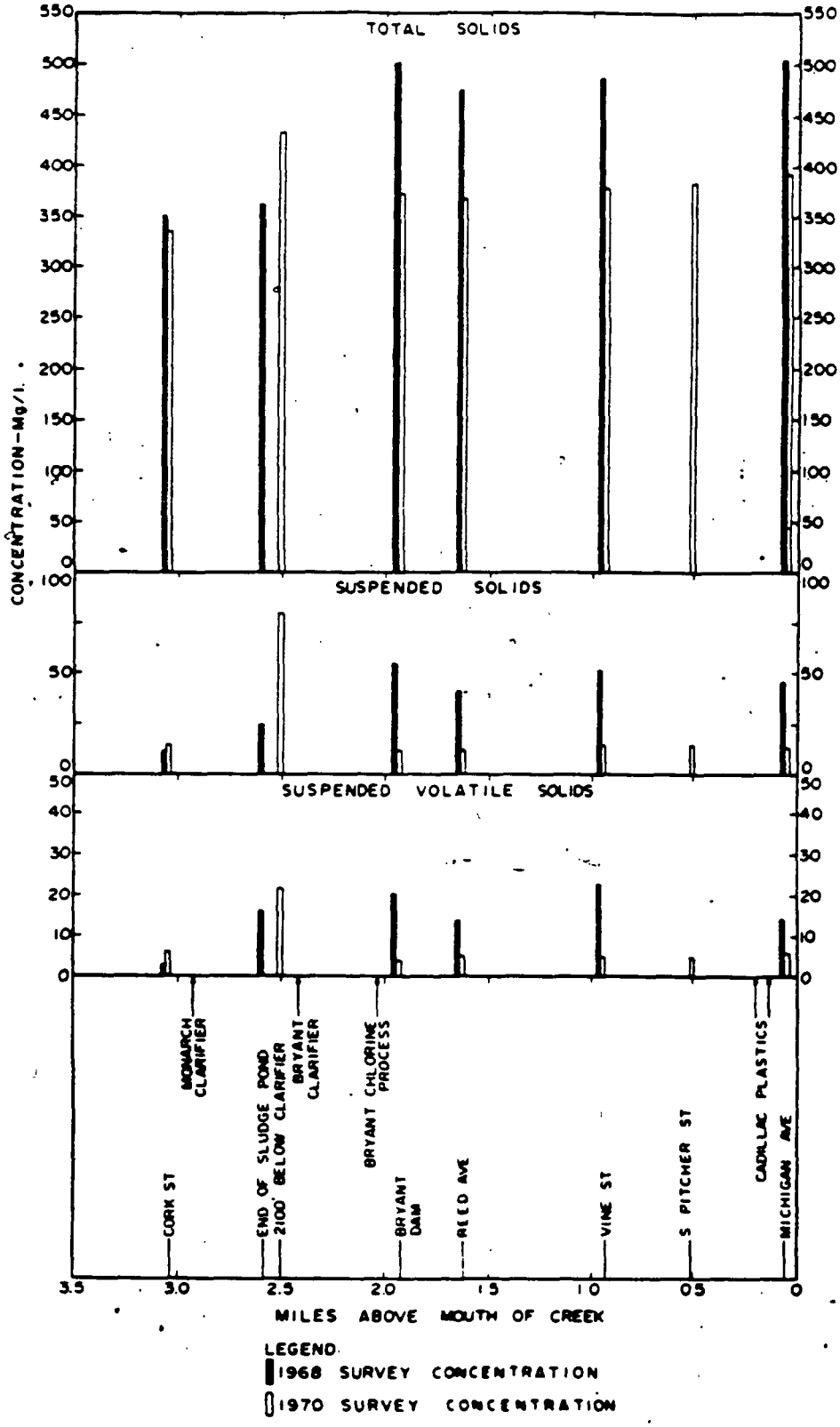


SA 032029

FIGURE 4 B

COMPARISON OF 1968 AND 1970 SOLIDS CONCENTRATIONS

PORTAGE CREEK IN KALAMAZOO



SA 032030

4056 Plainfield, N. E.
Grand Rapids, Michigan 49505

September 4, 1968

Mr. Les Stoeffler, Manager
Process Development
Allied Paper Corporation
Kalamazoo, Michigan 49001

Dear Mr. Stoeffler:

Enclosed you will find a copy of a waste survey report in reference to the King and Monarch Divisions of the Allied Mills. These surveys covered two consecutive 24-hour periods at each of the mills and were conducted June 4, 5, and 6, 1968. The tables included in each report give pertinent data related to volume and pounds on a per-day basis as well as expressing the information on per ton of paper produced basis.

The following table compares our May 1967 with June 1968 surveys:

	KING DIVISION		MONARCH DIVISION	
	1967	1968	1967	1968
Flow mgd.	.972	2.33	2.12	2.12
	.571	2.72	1.86	1.89
Pounds of B.O.D.	972	1234	568	583
Per Day	810	1973	202	709
Pounds of Susp.	583	349	496	388
Solids/Day	220	408	248	535
Paper Production	234	209	82.5	35.5
Tons/Day	145.8	159	51.5	64.7
Pounds of	4.15	5.9	16.4	6.9
B.O.D./Ton	3.85	12.4	10.9	3.9
Pounds of Susp.	2.49	1.67	10.9	6.04
Solids/Ton	0.97	2.56	8.3	4.81

0002645

Your comments on these surveys and reports is solicited.

Very truly yours,

WATER RESOURCES COMMISSION

Chester Harvey
District Engineer

CH:nw

0002846

SA 011339

CONSERVATION COMMISSION
CARL T. JOHNSON
Chairman
E. M. LAITALA
ROBERT L. MCCALLUM
AUGUST SCHOLLE
HARRY H. WHITELEY

STATE OF MICHIGAN

GEORGE ROMNEY Governor

DEPARTMENT OF CONSERVATION

4056 Plainfield, N. E.
Grand Rapids, Michigan 49505

WATER RESOURCES COMMISSION
GEORGE P. LOUCKS
JOHN A. VOLK
DIRECTOR
B. MAXIE ALL
GERALD E. EMMONS
JAMES V. MURRAY
LYNN F. BALDWIN
JIM GILMORE
200 MILL ST. LANSING 48926
Tel 373 3560

September 4, 1968

Mr. Les Stoeffler, Manager
Process Development
Allied Paper Corporation
Kalamazoo, Michigan 49001

Dear Mr. Stoeffler:

Enclosed you will find a copy of a waste survey report in reference to the King and Monarch Divisions of the Allied Mills. These surveys covered two consecutive 24-hour periods at each of the mills and were conducted June 4, 5, and 6, 1968. The tables included in each report give pertinent data related to volume and pounds on a per-day basis as well as expressing the information on per ton of paper produced basis.

The following table compares our May 1967 with June 1968 surveys:

	KING DIVISION		MONARCH DIVISION	
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Flow mgd.	.972	2.33	2.12	2.12
	.571	2.72	1.86	1.89
Pounds of B.O.D.	972	1234	568	583
Per Day	810	1973	202	709
Pounds of Susp.	583	349	496	388
Solids/Day	220	408	248	535
Paper Production	234	209	82.5	35.5
Tons/Day	145.8	159	51.5	64.7
Pounds of	4.15	5.9	16.4	6.9
B.O.D./Ton	3.85	12.4	10.9	3.9
Pounds of Susp.	2.49	1.67	10.9	6.04
Solids/Ton	0.97	2.56	8.3	4.81

000400

MICHIGAN
WATER-WINTER WONDERLAND

Your comments on these surveys and reports is solicited.

Very truly yours,

WATER RESOURCES COMMISSION

Chester Harvey

Chester Harvey
District Engineer

CH:nw

MICHIGAN WATER RESOURCES COMMISSION

Report of
Wastewater Survey

King Division of
Allied Mills Inc., Kalamazoo
June 4 - 6, 1968

Two consecutive 24-hour wastewater surveys were conducted at the King Division of the Allied Mills Inc. in Kalamazoo starting June 4, 1968. The purpose of the surveys were to determine the quality and quantity of wastewater being discharged to the Kalamazoo River from the King Division.

Operation and Waste Treatment

The King Division employs 400 people and operates on a [illegible] schedule. The product is book printing material which is produced on [illegible] machines. The water supply for processing is from private wells. Both [illegible] water and [illegible] River water is used for cooling purposes. The waste treatment consists of [illegible] alls for each machine and a large clarifier [illegible] large portion of the clarified effluent is reused in the process at the [illegible].

Survey procedure and Results

The wastewater from the clarifier which is discharged to the [illegible] River passes over a 6 foot full channel weir enroute to the River. The [illegible] was equipped with an automatic sampler and a water level recorder. The [illegible] book samples proportional to the instantaneous flow at fifteen [illegible] and deposited then in a clean glass container to [illegible] a 24-hour composite sample. The water level recorder provided a continuous account of the [illegible] on a real-time chart from which the total daily flow could be [illegible]. The composite samples were transported to the Water Resources Commission laboratory in Lansing where certain quantitative chemical and physical analyses were [illegible].

Table 1. Flow data and survey period

	Starting	Ending	Total
Survey period 1	Tuesday 6-4-68 @ 0815	Wednesday 6-5-68 @ 0800	[illegible]
Survey period 2	Wednesday 6-5-68 @ 0900	Thursday 6-6-68 @ 0900	[illegible]

Table 2. Laboratory analyses of composite samples collected [illegible] computed pounds per day of various constituents discharged [illegible] Kalamazoo River.

Parameter	First Survey Period Concentration*	Lbs/day**	[illegible] Survey Period Concentration*	Lbs/day**
5 day BOD	64	1,234	[illegible]	[illegible]
COD	98	1,904	155	[illegible]
Suspended ~~solids~~	18	349	13	[illegible]
Suspended volatile solids	14	272	14	[illegible]
Settleable solids	14	272	8	[illegible]
Total phosphrus	0.1	1.9	0.05	[illegible]
Soluble othro phosphrus	0.0	0.0	0.0	0.0
Organic nitrogen	3.1	60	7.4	[illegible]
Ammonia nitrogen	0.3	5.8	0.50	[illegible]
Nitrate nitrogen	0.0	0.0	0.0	0.0
Turbidity	45	--	20	--
pH	7.5	--	7.4	--

*Concentrations expressed as mg/l except pH and turbidity. Turbidity expressed as Jackson units.

**The pounds per day are computed from the following formula: lbs/day = flow (mgd) x concentration (mg/l) x unit weight of water (8.34 lbs/gal.)

Table 3. Pounds of paper produced at the King Division during survey periods.

Survey period 1	209.24 tons
Survey period 2	159.3 tons

Table 4. Calculations of various constituents discharged to the Kalamazoo River as related to the tons of paper produced, and water usage per ton.

Survey period 1	Survey period 2
11,150 gallons/ton	12,400 gallons/ton
59 lbs BOD/ton	12.4 lbs BOD/ton
9.1 [illegible] COD/ton	22 lbs of COD/ton
1.67 [illegible] of susp. solids/ton	2.56 lbs of susp. solids/ton
1.3 [illegible] of susp. volt solids/ton	1.99 lbs of susp. vol. solids/ton
1.[illegible] lbs of settleable solids/ton	1.13 lbs of settleable solids/ton

Discussion of Results

The wastewater from the King Division clarifier was [illegible] not apparent. Those solids present appeared to be the sloughing [illegible] within the clarifier. The turbidity of the waste was [illegible] (40-20).

Survey by:	Galen Kilmer, Sanitary Engineer Leroy Vanovick, Water Pollution Control [illegible]
Laboratory analyses by:	Russel Kroeger, Chemist
Contact with management:	Les Stoeffler
Report by:	Galen Kilmer Leroy Vanovick Michigan Water Resources [illegible] Water Quality Appraisal [illegible] 7-23-68

cc
7-30-68

MICHIGAN WATER RESOURCES COMMISSION

Wastewater Survey
Monarch Division
Allied Paper Inc., Kalamazoo
June [illegible] - [illegible] 6, 1968

Two consecutive 24-hour wastewater surveys were conducted at the Monarch [illegible] of the Allied Mills, Inc. at Kalamazoo. The purpose of the survey was to [illegible] the quality and quantity of wastewater being discharged from the Monarch Division to Portage Creek.

Operation and Waste Treatment

The Monarch Division employs 200 people on a 7-day schedule. The plant has [illegible] paper machines which produce carbon tissue and book printing paper. The raw materials are bleached and unbleached kraft and ce-[illegible] stock. The waste is treated in a clarifier (90 feet in diameter) before discharging to Portage Creek.

Survey Procedure and Results

The effluent of the clarifier passed over a [illegible]-inch full [illegible] before entering Portage Creek. The weir was equipped with a water level recorder and an automatic sampler. The water level recorder provided a continuous record of the head over the weir on a head-time chart from which the total 24-hour flow could be computed. The automatic sampler took samples proportional to the instantaneous flow at fifteen minute intervals and deposited them in a glass container to make up a composite sample. The composite samples were transported to the Water Resources Commission laboratories in Lansing for analyses.

Table 1. Flow data and survey period, Allied Paper Inc., Monarch Division

	Starting	Ending	Total flow
Survey period 1	Tuesday 6-4-68 @ 0900	Wednesday 6-5-68 @ [illegible]	[illegible]
Survey period 2	Wednesday 6-5-68 @ 0800	Thursday 6-6-68 @ 0800	[illegible]

Table 2. Laboratory analyses of composite samples and [illegible] various constituents being discharged to Portage Creek [illegible] Division of Allied Paper Inc.

Parameter	First survey period Concentration*	First survey period Pounds/day**	Second survey period Concentration*	Second survey period Pounds/day**
5 day BOD	33	563	45	[illegible]
COD	49	866	90	1,[illegible]
Suspended solids	22	383	34	[illegible]
Suspended volatile solids	14	247	26	[illegible]
Settleable solids	12	212	14	[illegible]
Total phosphorus	0.13	2.35	1.26	[illegible]
Soluble ortho phosphorus	0.0	0.0	0.0	[illegible]
Organic nitrogen	2.1	37	3.3	[illegible]
Ammonia nitrogen	0.4	7.0	0.0	[illegible]
Nitrate nitrogen	0.0	0.0	0.0	[illegible]
Turbidity	40	--	45	--
pH	7.5	--	7.4	--

*All concentrations expressed as mg/l except pH and turbidity. Turbidity expressed as Jackson units.

**Pounds per day are computed from the following formula: lbs/day = flow (mgd) x unit weight of water (8.34 lbs/gallon).

Table 3. Tons of paper produced during the survey periods.

Survey period 1	35.5 tons
Survey period 2	64.7 tons

Table 4. Calculations relating tons of paper produced to gallons of water used and pounds of waste constituents discharged to Portage Creek during survey periods.

Parameter	Survey period 1 per ton of paper	Survey period 2 per ton of paper
Gallons of water	60,000	39,[illegible]
Pounds of BOD	16.4	[illegible]
Pounds of COD	24.2	[illegible]
Pounds of suspended solids	10.9	[illegible]
Pounds of suspended vol. solids	6.9	[illegible]
Pounds of settleable solids	6.0	[illegible]

Results and Observations

The effluent from the Monarch clarifier was clear and clearly appear to have [illegible] solids. The solids that were passing over the weir appeared to be the slimes that had sloughed off the side of the clarifier.

Survey conducted by:	Galen Kilmer, Sanitary Engineer
	Leroy Vanovick, Water Pollution Investigator
Chemical analyses by:	Russel Krueger, Chemist
Contact with management:	Les S. [illegible]
Reported by:	Galen Kilmer
	Leroy Vanovick
	Water Quality Appraisal Unit
	Water Resources Commission
	July 23, 1968

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7-30-68

MICHIGAN WATER RESOURCES COMMISSION

Wastewater Survey
Monarch Division
Allied Paper Inc., Kalamazoo
June 4 - 6, 1968

Two consecutive 24-hour wastewater surveys were conducted at the Monarch Division of the Allied Mills Inc. at Kalamazoo. The purpose of the survey was to determine the quality and quantity of wastewater being discharged from the Monarch Division to Portage Creek.

Operation and Waste Treatment

The Monarch Division employs 200 people on a 7-day schedule. The plant has two paper machines which produce carbon tissue and book printing paper. The raw materials are bleached and unbleached kraft and de-ink stock. The waste is treated in a clarifier (90 foot in diameter) before discharging to Portage Creek.

Survey Procedure and Results

The effluent of the clarifier passed over a 48-inch full channel weir enroute to Portage Creek. The weir was equipped with a water level recorder and an automatic sampler. The water level recorder provided a continuous account of the head over the weir on a head-time chart from which the total 24-hour flow could be computed. The automatic sampler took samples proportional to the instantaneous flow at fifteen minute intervals and deposited them in a glass container to make up a composite sample. The composite samples were transported to the Water Resources Commission laboratories in Lansing, for analyses.

Table 1. Flow data and survey period, Allied Paper Inc., Monarch Division

	Starting	Ending	Total 24-hr. f
Survey period 1	Tuesday 6-4-68 @ 0900	Wednesday 6-5-68 @ 0800	2,127,000 ga
Survey period 2	Wednesday 6-5-68 @ 0800	Thursday 6-6-68 @ 0800	1,895,000 ga

Table 2. Laboratory analyses of composite samples and computed loads per day of various constituents being discharged to Portage Creek from the [illegible] Division of Allied Paper Inc.

Parameter	First survey period Concentration*	First survey period Pounds/day**	Second survey period Concentration*	Second survey period Pounds/day**
5 day BOD	33	583	45	709
COD	49	866	90	1,4[illegible]
Suspended solids	22	388	[illegible]	535
Suspended volatile solids	14	247	26	400
Settleable solids	12	212	14	200
Total phosphorus	0.13	2.35	1.26	19.9
Soluble ortho phosphorus	0.0	0.0	0.0	0.0
Organic nitrogen	2.1	37	3.3	52
Ammonia nitrogen	0.4	7.0	0.0	0.0
Nitrate nitrogen	0.0	0.0	0.0	0.0
Turbidity	40	--	45	--
pH	7.5	--	7.4	--

*All concentrations expressed as mg/l except pH and turbidity. Turbidity expressed as Jackson units.
**Pounds per day are computed from the following formula: Lbs/day = flow (mgd) x unit weight of water (8.34 lbs/gallon).

Table 3. Tons of paper produced during the survey periods.

Survey period 1	35.5 tons
Survey period 2	64.7 tons

Table 4. Calculations relating tons of paper produced to gallons of water used and pounds of waste constituents discharged to Portage Creek during survey periods.

Parameter	Survey period 1 per ton of paper	Survey period 2 per ton of paper
Gallons of water	60,000	29,300
Pounds of BOD	16.4	10.9
Pounds of COD	24.2	21.9
Pounds of suspended solids	10.9	8.3
Pounds of suspended vol. solids	6.9	6.3
Pounds of settleable solids	6.0	3.4

Results and Observations

The effluent from the Monarch clarifier was clear and didn't appear to have many solids. The solids that were passing over the weir appeared to be the solids that had sloughed off the side of the clarifier.

Survey conducted by:	Galen Kilmer, Sanitary Engineer
	Leroy Vahovick, Water Pollution Investigator
Chemical analyses by:	Russel Kreuger, Chemist
Contact with management:	Les Stoeffler
Reported by:	Galen Kilmer
	Leroy Vahovick
	Water Quality Appraisal Unit
	Water Resources Commission
	July 23, 1968

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7-30-68

MICHIGAN WATER RESOURCES COMMISSION

Report of
Wastewater Survey

King Division of
Allied Mills Inc., Kalamazoo
June 4 - 6, 1968

Two consecutive 24-hour wastewater surveys were conducted at the King Division of the Allied Mills Inc. in Kalamazoo starting June 4, 1968. The purpose of the surveys were to determine the quality and quantity of wastewater being discharged to the Kalamazoo River from the King Division.

Operation and Waste Treatment

The King Division employs 400 people and operates on a 6-day schedule. The main product is book printing material which is produced on 4 paper machines. The water supply for processing is from private wells. Both well water and Kalamazoo River water is used for cooling purposes. The waste treatment consists of save-alls for each machine and a large clarifier which is 110 feet in diameter. A large portion of the clarified effluent is reused in the process at this plant.

Survey procedure and Results

The wastewater from the clarifier which is discharged to the Kalamazoo River passes over a 6 foot full channel weir enroute to the River. The weir was equipped with an automatic sampler and a water level recorder. The automatic sampler took samples proportional to the instantaneous flow at fifteen minute intervals and deposited them in a clean glass container to make up a 24-hour composite sample. The water level recorder provided a continuous account of the head over the weir on a head-time chart from which the total daily flow could be computed. The composite samples were transported to the Water Resources Commission laboratories in Lansing where certain quantitative chemical and physical analyses were performed.

Table 1. Flow data and survey period

	Starting	Ending	Total flow
Survey period 1	Tuesday 6-4-68 @ 0815	Wednesday 6-5-68 @ 0800	2,339,000 g.
Survey period 2	Wednesday 6-5-68 @ 0900	Thursday 6-6-68 @ 0900	2,720,000 g.

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Table 2. Laboratory analyses of composite samples collected at King Division and computed pounds per day of various constituents discharged to the Kalamazoo River.

Parameter	First Survey Period Conc.*	First Survey Period Lbs/day**	Second Survey Period Conc.*	Second Survey Period Lbs/day**
5 day BOD	64	1,234	87	1,973
COD	98	1,904	155	3,513
Suspended solids	18	349	18	408
Suspended volatile solids	14	272	14	317
Settleable solids	14	272	8	181
Total phosphrus	0.1	1.9	0.05	1.1
Soluble othro phosphrus	0.0	0.0	0.0	0.0
Organic nitrogen	3.1	60	7.4	168
Ammonia nitrogen	0.3	5.8	0.50	11.3
Nitrate nitrogen	0.0	0.0	0.0	0.0
Turbidity	45	--	20	--
pH	7.5	--	7.4	--

*Concentrations expressed as mg/l except pH and turbidity. Turbidity expressed as Jackson units.

**The pounds per day are computed from the following formula: lbs/day = flow (mgd) x concentration (mg/l) x unit weight of water (8.34 lbs/gallon)

Table 3. Pounds of paper produced at the King Division during survey periods.

Survey period 1	209.24 tons
Survey period 2	159.3 tons

Table 4. Calculations of various constituents discharged to the Kalamazoo River as related to the tons of paper produced, and water usage per ton.

Survey period 1

11,150 gallons/ton
59 lbs BOD/ton
9.. lbs COD/ton
1.67 lbs of susp. solids/ton
1.3 lbs of susp. vol. solids/ton
1.3 lbs of settleable solids/ton

Survey period 2

12,400 gallons/ton
12.4 lbs BOD/ton
22 lbs of COD/ton
2.56 lbs of susp. solids/ton
1.99 lbs of susp. vol. solids/ton
1.13 lbs of settleable solids/ton

Discussion of Results

The wastewater from the King Div[illegible]on clarifier was fairly clear and solids [illegible] not apparent. Those solids prese[illegible] appeared to be the sloughing of s[illegible] within the clarifier. The turbidity of the waste was low for paper [illegible] effluents (40-20).

Survey by:	Galen Kilmer, Sanitary Engineer
	Leroy Vahovick, Water Pollution Investigator
Laboratory analyses by:	Russel Krueger, Chemist
Contact with management:	Les Stoeffler
Report by:	Galen Kilmer
	Leroy Vahovick
	Michigan Water Resources Commission
	Water Quality Appraisal Unit
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MICHIGAN WATER RESOURCES COMMISSION
BUREAU OF WATER MANAGEMENT
ENVIRONMENTAL PROTECTION BRANCH
DEPARTMENT OF NATURAL RESOURCES

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER INC.
Monarch Mill
All Outfalls No. 390222
Kalamazoo County
Kalamazoo, Michigan
May 5-7, 1975

Survey Summary

Wastewater monitoring was performed during two twenty-four hour survey periods starting Monday, May 5, 1975.

The results of this survey met the initial limitations in the facility's National Pollutant Discharge Elimination System Permit (NPDES), No. MI0000779 except for three out of four pH grab samples. The pH of all the grab samples ranged from 5.8 to 6.5. The pH of the two 24-hour composite samples were 6.4 and 6.9 (Tables 1 and 2). Plant personnel said that the low pH was possibly due to a malfunction in the automatic alum feed system over the weekend before the survey.

The survey results agreed well with the results reported by the company in the monthly operating report (Table 4). The two twenty-four hour composite samples were split with the company and analyzed in their laboratory. The results of the company's analysis agrees well with our laboratory results (Table 5).

Survey Comments

The company is monitoring pH from a composite sample and using the hexane extractable test for measuring oil and grease.

The company appears to be reporting settleable solids in grams per liter on the monthly operating report.

A heavy flock was being discharged over the final weir on May 5, 1975 at 5:00 p.m. This problem was still occurring at 10:20 p.m. on the same day and a grab sample collected at that time showed 110 mg/l of suspended solids (Table 2). In the afternoon of May 6, 1975 there was foam in Portage Creek from the plant discharge which was evident approximately 2000 feet downstream.

Table 2 Quantitative analyses of grab samples collected from Allied Paper Inc., Monarch Mill discharge 390006 (002) to determine concentrations of select physical and chemical constituents present in the wastewater.

Outfall	390006 (002)	390006 (002)	390006 (002)	390006 (002)
Time	10:20pm	8:40am	3:35pm	8:07am
Date	5-5-75	5-6-75	5-6-75	5-7-75
Temp. , °C	23	22.5	23	23.5
pH (S.U.)	5.8	6.3	6.5	6.4
	mg/l	mg/l	mg/l	mg/l
BOD	28	20	43	47
COD	110	47	75	170
TOC	--	17	42	46
Total solids	520	488	476	432
Suspended solids	110	2	15	1
Settleable solids	104	< 2	< 15	< 1
TDS (TC-CO)	40	406	46	431
Oil & Grease	< 1	< 1	1	2
Sulfate	210	190	170	152
Color (S.U.)	4	6	7	16
Turbidity (J.C.U.)	250	26	90	46

Table 3 Quantitative analyses of a 48-hour grab composite sample collected from Allied Paper Inc., Monarch Mill discharge, 390006 (002) to the Portage Creek to determine concentrations of select chlorinated hydrocarbons.

Outfall	390006 (002)
Date	5-5-75 to 5-7-75
PCB 1242	< 0.01
PCB 1254	< 0.01
PCB 1260	< 0.01
DEHP	< 0.5
DBP	< 1.5

Note: Results reported in ug/l.

PCB - Polychlorinated biphenyls
DEHP - Diethylhexylphthalates
DBP - Dibutylphthalates

WATER RESOURCES COMMISSION
4056 Plainfield Avenue, N.E.
Grand Rapids, Michigan 49505

November 19, 1975

Mr. Jack Gilman
Allied Paper Incorporated
P. O. Box 2528
Kalamazoo, Michigan 49003

Dear Mr. Gilman:

The City of Kalamazoo relayed a complaint in regard to turbidity and discoloration of Portage Creek between Cork and Alcott Streets. Our information indicated this was occurring on weekends, especially Saturdays.

In order to confirm the basis of this complaint, one of our staff members visited the complainant on Saturday, November 8, 1975. The river remained normal until approximately 10:00 A.M. and then the river water was noted to change drastically with a white color and marked increase in suspended solids.

A followup at the Monarch clarifier showed this to be the source of the high turbidity and suspended solids. Further contact with mill personnel confirmed that cleanup and washdown of equipment beginning around 7:00 A.M., overloaded the clarifier's capability and a substantial carry-over of suspended solids takes place two to three hours after cleanup operations begin.

A grab sample of the clarifier effluent taken on Saturday, November 8, 1975, shortly after 10:00 A.M. had the following concentrations:

5-Day B.O.D.	146 mg/l
Suspended Solids	212 mg/l
Volatile Suspended Solids	68 mg/l

If the waste volume is normal and the concentration remained at the level of the grab sample, the daily limitation of pounds would be almost double the level of the permit.

Is there a procedure or a change in method or adjustments that can be accomplished to overcome this periodic short-term exceedence of permit levels?

More

DEPOSITION EXHIBIT
Allied #523
4/23/97 CC

We also discovered another outlet from the machine room basement containing miscellaneous drainage generally clear but with a marked oil film. Our data does not indicate this source to be set out in the permit for the Monarch mill. This source should be addressed and eventually placed in the permit. We would anticipate only an oil and grease restriction and monitoring.

After your staff has evaluated our findings, would you please communicate on the points raised.

Very truly yours,

WATER RESOURCES COMMISSION

Chester Harvey,
District Engineer

CH/mc
cc: L. H. Pratt
Karl Zollner

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE STUDIES SECTION

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER, INC.
MONARCH MILL
Kalamazoo County
Kalamazoo, Michigan
August 16-18, 1976

Survey Summary

Wastewater monitoring was performed during two twenty-four hour survey periods starting Monday, August 16, 1976.

The results of this survey met the initial limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0000779 (Table 3).

Comparison of survey results with the company's August 1976 monthly operating report indicates the survey was representative of plant performance for the month of August (Table 3).

Composite samples from the two 24-hour surveys were split with the company for analysis in their laboratory. The company's BOD results compare well with the Environmental Protection Bureau laboratory results. Company's results for suspended solids and settleable solids were lower than EPB results (Table 4).

Comparison of the results of this survey with results of the May 1975 survey show a reduction in the concentration of most parameters while the flow increased by about 0.9 MGD (Table 5).

Leachate from the company's sludge lagoons is entering a ditch and flowing into Portage Creek. This leachate was sampled after it combined with the ditch flow (Figure 1).

The leachate had a concentration of 1242 PCB of 0.4 ug/l.

Survey Comments

This company appears to be reporting settleable solids in grams per liter.

Purpose of Survey

The purpose of the survey was to determine the quality and quantity of wastewater being discharged by Allied Paper, Inc., Monarch Mill, to Portage Creek and to check for compliance with the NPDES Permit No. MI0000779.

This survey was conducted in conjunction with an intensive water quality study of the Kalamazoo River conducted by the Comprehensive Studies Section.

Plant Processes

Allied Paper, Inc. currently operates two mills in Kalamazoo, the Monarch Mill and the Bryant Mill (Figure 1). A third mill, the King Mill, is no longer in operation.

A total of 275 tons of paper products are produced at the mills under normal production. Both mills use virgin pulp in a standard papermaking operation.

The Monarch Mill utilizes two Fourdrinier paper machines to produce bible paper and carbon tissue for "one-time" carbon paper. Both machines were operating during the survey.

The Bryant Mill produces bible paper and other specialty papers using five Fourdrinier paper machines. One of the machines was out of service at the beginning of the survey.

The mills employ about 475 people. Both mills were shut down during the weekend prior to the survey, but production had resumed on the first day of the survey. Production is on a twenty-four hour a day basis, averaging six days per week.

Water, Wastewater and Treatment

Potable water for the mills is obtained from the City of Kalamazoo. Domestic wastewater is discharged to the Kalamazoo Wastewater Treatment System. Process water for the Monarch Mill is obtained from Portage Creek upstream of the Monarch dam and is treated using sand filters before being used in the mill. Process water for the Bryant Mill is obtained from Portage Creek near Cork Street and is also passed through sand filters prior to use.

A 90-foot circular clarifier at the Monarch Mill and a 110-foot circular clarifier at the Bryant Mill are used to treat process wastewater. All process wastewater from the Monarch Mill, consisting mainly of excess white water-paper machines, goes directly to the Monarch clarifier. Backwash water from the sand filters at the Monarch Mill is also discharged to the Monarch clarifier.

The Bryant clarifier receives a portion of the process waste from the Bryant Mill along with wastes from the zeolite and lime-soda ash softeners. The Bryant clarifier discharges to the Kalamazoo Wastewater Treatment System. The remainder of the flow from the Bryant Mill is then diverted to the Monarch clarifier for treatment.

Alum and a coagulation agent are added to the Monarch clarifier to increase settling and flocculation. The effluent from the clarifier discharges to

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Portage Creek through outfall 390006. The sludge from the clarifier is disposed of on plant property across Portage Creek (Figure 2).

Sand filter backwash from the Bryant Mill's water system is discharged directly to Portage Creek. This discharge is not covered in the NPDES permit.

Leachate from this sludge disposal area was observed to be flowing into a ditch and eventually to Portage Creek, just upstream of the company's intake. The water was very dark at the beginning of the survey, however the company applied a large dosage of lime causing it to clear up. Results of samples collected from the sludge leachate are included in the tables.

Survey Procedure

The survey crew utilized a company constructed 48-inch full channel weir for flow measurement and proportional sample collection on outfall 390006 (002), the wastewater discharge from the company's clarifier. The survey crew constructed a 60-degree vee-notch weir on the sludge leachate.

Each weir was equipped with a water level recorder and an automatic sampler: scoop-type on sludge leachate and air-activated on 390006 (002). The water level recorder provided a continuous account of the liquid level or head above the crest of each weir on a head versus time graph for the duration of each survey period. The total volume of wastewater over each weir during the survey period was computed from the graph. The automatic scoop-type and air-activated samplers obtained samples proportional to the instantaneous flow over each weir at 5-minute intervals. These individual samples were deposited in a clean container to make up a composite sample representative of the total flow over each weir during the survey period.

A series of individual grab samples were collected from outfalls 390006 (002) and sludge leachate for selected physical, chemical and bacteriological analyses.

All samples collected were preserved according to Table 6.

The composite and grab samples were transported to the Environmental Protection Bureau laboratory located in Lansing for selected quantitative physical and chemical analyses. The following formula was used to compute the pounds per day of various wastewater constituents discharged:

lbs/day = flow (mgd) x conc. (mg/l) x unit weight of water (8.34 lbs/gal).

The bacteria samples were transported to the Michigan Department of Public Health, Bureau of Laboratories located in Lansing for selected quantitative bacteriological analyses.

The results of the physical, chemical and bacteriological analyses are presented in Tables 1 and 2.

Table 1 Quantitative analyses of the two 24-hour composite samples collected from Allied Paper, Inc., Monarch Mill discharge, 390006 (002) and sludge leachate, to Portage Creek to determine the concentration of the wastewater constituents present in the samples, plus the computed pounds per day (lbs/day) of these constituents being discharged. Also noted are the highest and lowest flow rates recorded during the respective survey periods.

Outfall		390006 (002)			
Survey Period	From	8-16-76 - 1300		8-17-76 - 1335	
	To	8-17-76 - 1330		8-18-76 - 1335	
Computed flow rate (mgd) *		3.64		4.28	
Highest flow rate (mgd)		4.33 - 1510-8/16		4.67 - 1420-8/17	
Lowest flow rate (mgd)		2.9 - 1620-8/16		2.25 - 0950-8/18	
pH (S.U.)		7.3		6.9	
		mg/l	lbs/day	mg/l	lbs/day
5-day BOD		14	430	17	600
20-day BOD		20	600	21	750
COD		20	600	30	1,100
T.O.C.		8.7	260	9.7	350
Suspended solids		6	200	2	70
Dissolved solids		468	14,200	448	16,000
Orthophosphate-P		< 0.01	--	0.01	0.4
Total phosphorus-P		0.02	0.6	0.06	2
Nitrite & nitrate nitrogen-N		0.49	15	0.66	24
Ammonia nitrogen-N		0.02	0.6	0.01	0.4
Organic nitrogen-N		0.25	8	0.72	26
Chlorides (Cl)		38	1,200	33	1,200
Sulfates (SO_4)		140	4,300	130	4,600
Phenols		0.69	18	0.45	16
Color (Pt. Co.)		3	--	2	--
Turbidity (F.T.U.)		16	--	8.0	--
		mg/l			
1242 PCB **		< 0.1			
1254 PCB **		< 0.1			
1260 PCB **		< 0.1			

* Flow rates used in the computation of lbs/day.
** PCB samples were composited over 48 hours.

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Table 1 (continued)

Outfall	Sludge Leachate			
Survey Period From	8-16-76 - 1410		8-17-76 - 1415	
To	8-17-76 - 1410		8-18-76 - 1415	
Computed flow rate (mgd) *	0.03 (1)		0.03 (1)	
pH (S.U.)	8.4		10.6	
	mg/l	lbs/day	mg/l	lbs/day
5-day BOD	11	2.8	9	2.3
20-day BOD	13	3.3	11	2.8
COD	32	8.0	29	7.3
Suspended solids	535	130	280	70
Dissolved solids	324	80	224	60
Settleable solids	491	120	--	--
Orthophosphate-P	0.02	0.01	< 0.01	--
Total phosphorus-P	0.21	0.05	0.05	0.01
Nitrite & nitrate nitrogen-N	0.04	0.01	0.06	0.02
Ammonia nitrogen-N	0.39	0.1	0.49	0.1
Organic nitrogen-N	0.35	0.09	0.41	0.1
Chlorides (Cl)	24	6	26	7
Sulfates (SO_4)	96	20	72	20
Phenols	0.15	0.04	0.08	0.02
Color (Pt. Co.)	--	--	7	--
Turbidity (F.T.U.)	--	--	92	--
	ug/l			
1242 PCB **	0.40			
1254 PCB **	< 0.1			
1260 PCB **	< 0.1			

* Flow rates used in the computation of lbs/day.
** PCB samples were composited over 48 hours.
(1) - Flow was constant over survey period.

Table 2 Quantitative analyses of grab samples collected from Allied Paper, Inc., Monarch Mill discharges, 39000 and leachate, to Portage Creek to determine concentrations of select physical, chemical and bacterial constituents present in the wastewater.

Date	Time	Flow[1] MGD	Temp 2 °C	pH[2] S.U.	Oil & Grease mg/l	BOD5 mg/l	Susp. solids mg/l	Settle. solids mg/l	Ortho-phosphate mg/l	Total phos-phorus mg/l	Nitrite & nitrate nitrogen mg/l	Ammonia nitrogen mg/l	Organic nitrogen mg/l
390006 (002)													
8-16-76	2115	3.72	25	6.9	1	16	21	13	< 0.01	0.03	0.53	0.06	0.28
8-17-76	0820	3.6	24.5	7.0	< 1	--	4	--	< 0.01	0.01	0.42	0.02	0.21
8-17-76	2130	4.6	27	7.3	2	--	8	--	< 0.01	0.01	0.69	0.04	0.67
8-18-76	1335	4.0	26	6.9	2	24	12	--	< 0.01	0.02	0.78	0.04	0.62
Sludge Leachate													
8-16-76	2055	0.03	15	7.4	--	16	--	--	0.21	0.29	0.01	0.07	0.63
8-17-76	0600	0.03	12.5	7.3	--	--	--	--	0.20	0.28	0.01	0.14	0.56
8-17-76	2115	0.03	15	11.8	--	--	--	--	< 0.01	0.04	0.07	0.50	0.32
8-18-76	1400	0.03	14.5	10	--	9	--	--	0.01	0.07	0.02	0.50	0.37

	Fecal Coliform cts/100 ml	Fecal Strep. cts/100 ml	Temperature °C
390006 (002)			
8-16-76 1300	30	< 10	21.5
8-16-76 2115	140	< 10	25
8-17-76 0820	50	< 10	24.5
8-17-76 2130	< 10	--	27
8-18-76 0840	60	--	--
8-18-76 1335	70	--	26
Geometric Mean	50	--	
Sludge Leachate			
8-16-76 1410	430	800	12.5
8-16-76 2055	210	790	15
8-17-76 0600	230	570	12.5
8-17-76 2115	< 10	--	15
8-18-76 0855	< 10	--	--
8-18-76 1400	10	--	14.5
Geometric Mean	50	700	

1 - Flow at time of grab sampling.
2 - Values determined in the field at time of sampling.

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Table 3 Comparison of results obtained during the survey at Allied Paper, Inc., Monarch Mill with the fac NPDES Permit, No. MI0000779, and monthly operating report for August, 1976.

Parameter (Unit)	NPDES Permit Initial Limitations		Monthly Operating Report					Survey 9	
	Daily Average	Daily Maximum	Monthly Average	Monthly Maximum	8-16-76	8-17-76	8-18-76	1st 24	2nd 24
390006 (002)									
Flow (MGD)	--	--	3.91	5.0	3.09	3.93	3.65	3.64	4.28
BOD_5 (lbs/day)	1205	2210	320	653	154	265	269	430	600
Susp. solids (lbs/day)	825	2300	196	964	258	197	304	200	70
Sett. solids (mg/l)	--	—	0.06	0.15	0.10	0.05	0.05	--	—
Oil & Grease (mg/l)	--	10	0.7	1.0	--	1.0	--	--	--
pH (S.U.)	not <6.5 nor >9.5		—	max 7.6 min 6.5	7.2	7.1	6 9	7.3	6.9

Table 4 Comparison of the laboratory analytical results obtained by Allied Paper, Inc., Monarch Mill and th Environmental Protection Bureau from the split composite samples.

Outfall	390006 (002)				Sludge Leachate			
	1st 24-hour		2nd 24-hour		1st 24-hour		2nd 24-hour	
	E.P.B.	Allied	E.P.B.	Allied	E.P.B.	Allied	E.P.B.	Allied
pH (S.U.)	7.3	6.9	6.9	6.7	8.4	9.2	10.6	10.4
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
5-day BOD	14	10.6	17	13.6	11	15	9	19.5
Suspended solids	6	2.8	2	1.0	535	513	280	2.8
Settleable solids	--	trace	—	trace	491	2.0	--	1.5

Table 5 Comparison of the analytical results obtained on the previous survey of Allied Paper, Inc., Monarch Mill in May 1975 with the results obtained in this current survey.

Outfall	390006 (002)			
Survey Date From	5/5/75-1855	5/6/75-1600	8/16/76-1300	8/17/76-1335
To	5/6/75-1555	5/7/75-1550	8/17/76-1330	8/18/76-1335
Flow Rate (MGD)	2.70	3.35	3.64	4.28
pH (S.U.)	6.4	6.9	7.3	6.9
	mg/l	mg/l	mg/l	mg/l
5-day BOD	23	35	14	17
COD	57	86	20	36
TOC	22	41	8.7	9.7
Total solids	404	424	460	454
Suspended solids	26	8	6	2
Settleable solids	2	<.8	--	--
Sulfates (SO_4)	--	156	140	130
Color (S.U.)	4	8	3	2
Turbidity (F.T.U.)	59	54	16	8.8

Table 6 Sample Preservation

Parameter	Preservative
BOD	Cooled to 4°C.
COD	5 drops H_2SO_4/125 ml (to pH <2). Cooled to 4°C.
D.O.	Fixed on site.
General Chemistry	Cooled to 4°C.
Microbiology	2 drops 10% sodium thiosulfate/125 ml to dechlorinate sample. Cooled to 4°C.
Nutrients	Cooled to 4°C.
Oil & Grease	1 ml 1:1 H_2SO_4/250 ml (to pH <4). Cooled to 4°C.
Phthalate, PCB	Collected in glass bottle.

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Survey by: Dennis Bittner, Sanitary Engineer
William Long, Water Quality Investigator
Richard Irvin, General Foreman

Contact with Management: U. G. Stoeffler

Hydrocarbon Analyses by: Tom Wilcox, Chemist

Physical & Chemical Analyses by: Ray Wimmer, Chemist

Bacteriological Analyses by: Michigan Department of Public Health
Bureau of Laboratories

Report by: Dennis Bittner
William Long
Point Source Studies Section
Environmental Services Division
Environmental Protection Bureau
Michigan Department of Natural Resources

Distribution "A"
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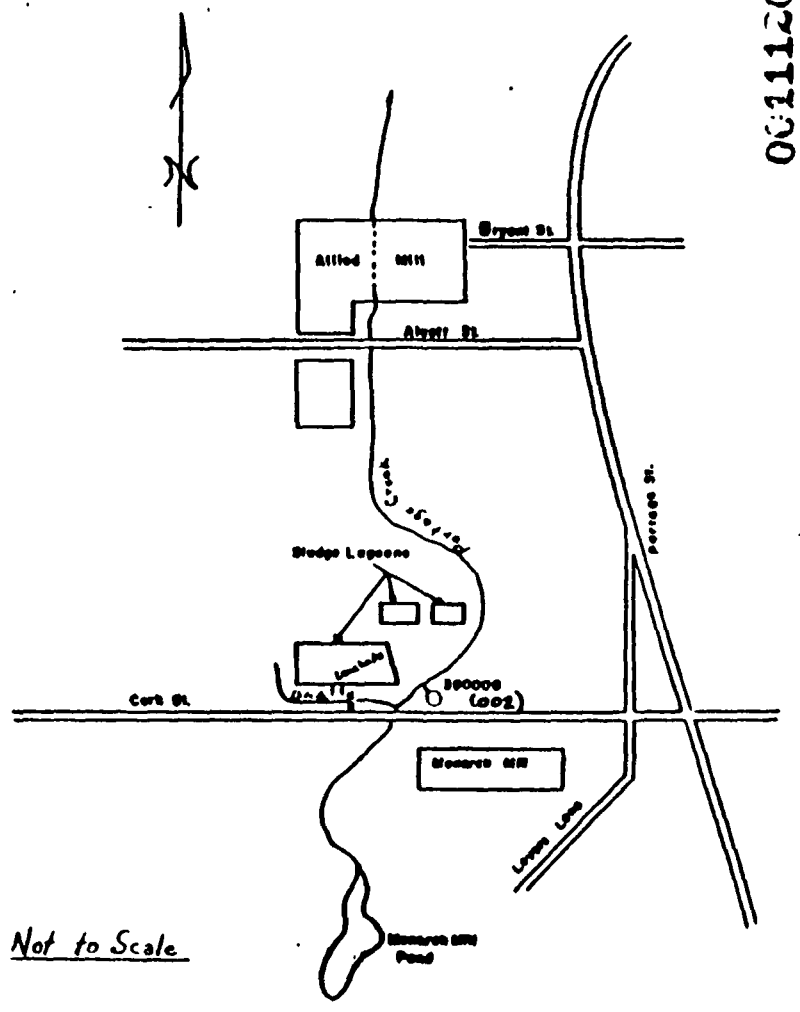
ALLIED PAPER MILLS
KALAMAZOO



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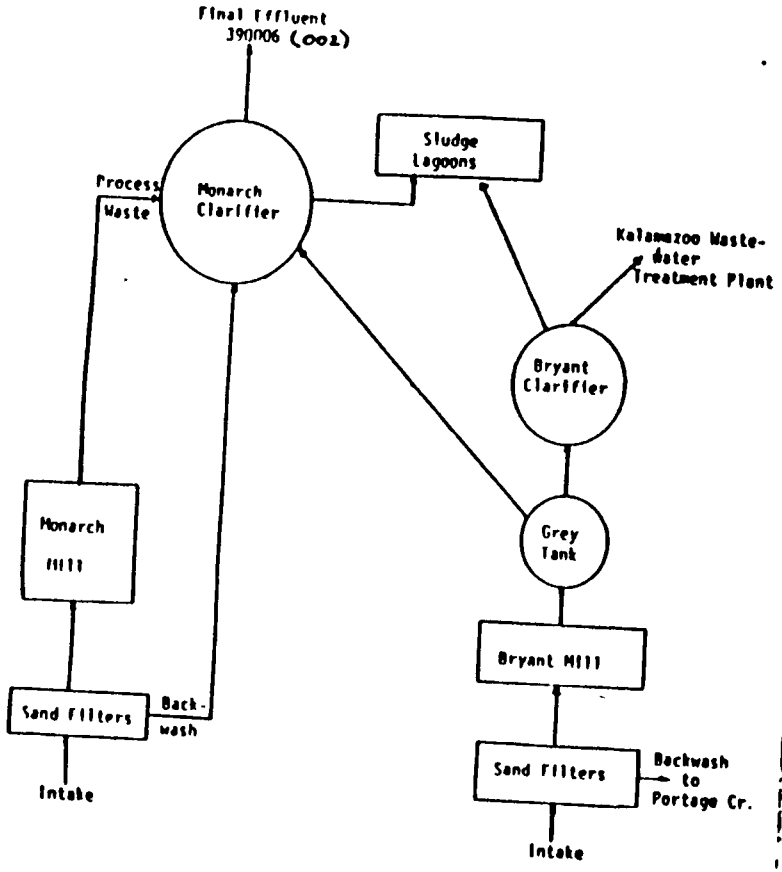

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93-1777

WATER QUALITY DIVISION
State of Michigan Office Building
350 Ottawa Avenue, N. W.
Grand Rapids, Michigan 49503

October 24, 1977

Mr. U. G. Stoeffler, Manager
Process Development
Allied Paper, Inc.
2030 Portage Street
Kalamazoo, Michigan 49003

Dear Mr. Stoeffler:

Enclosed are two copies of the "Report of An Industrial Wastewater Survey" conducted at Allied Paper's Monarch Mill on July 18-19, 1977. The report includes the volume of wastewater discharged and results of the chemical analyses performed on the composite of the collected effluent. In addition, grab samples were obtained for certain determinations.

Results of the survey indicate Allied Paper's discharge to Portage Creek from the Monarch Mill clarifier did not meet the final effluent limitations contained in N.P.D.E.S. Permit No. MI 0000779 at the time of this survey. The survey report states that 220 kg/day of B.O.D. were discharged during the survey period which exceeds the daily maximum permit limitation of 177 kg/day. An examination of the company's July 1977 operating report shows a monthly maximum of 334 kg/day of B.O.D. The August 1977 operating report also shows that the maximum B.O.D. loading was exceeded fifteen (15) days during the month. In addition, the July operating report shows a monthly maximum suspended solids loading of 380 kg/day which is in excess of the daily maximum permit limitation of 230 kg/day.

The survey staff also reported that the sand filter backwash from the Bryant Mill is still discharging directly to Portage Creek. This unpermitted discharge was called to your attention in my letter of June 21, 1976, at which time I enclosed permit application forms. To date, our office has not received any application for this discharge.

Drainage from the southwest corner of the sludge disposal site was again sampled during the survey (Table 1). The results show a drop in the waste constituents previously reported in the August 1976 survey report. Although this drainage is attributed to springs in the area, because of its close proximity to the sludge site, monitoring of this drainage to Portage Creek may be required to assure that no leachate is reaching Portage Creek.

The survey staff also identified some problems associated with sample collection and preservation. The 24-hour composite effluent sample must be collected in a clean refrigerated container to maintain proper preservation of the sample prior to analysis. Likewise, the setting of B.O.D. samples should be done the same day. Analyses of split samples show that the Environmental Protection Bureau Laboratory results were high for B.O.D. and total suspended solids compared to the results obtained by the company.

Lastly, it has come to our attention that Allied Paper has not submitted a Pollution Incident Prevention Plan (P.I.P.P.) for the 550,000-gallon aboveground storage of #6 fuel oil. Rule 162 of the Water Resources Commission Part 5 Rules for the "Spillage of Oil and Polluting Materials" requires that a P.I.P.P. be submitted. To assist you in the development of a plan for your facility, I have enclosed a copy of the General Instructions for Content and Development and a Check List. The completed P.I.P.P. should be submitted to our office within 30 days.

In conclusion, a formal Notice of Noncompliance will be issued to the company for those elements which were in violation of the permit conditions. Therefore, a response to the items cited in this letter may be deferred until after receipt and review of the notice.

Very truly yours,

WATER QUALITY DIVISION

Roger Przybysz

Roger Przybysz,
Water Quality Specialist

RP/mc
Enclosures

cc: Karl Zollner

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE STUDIES SECTION

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER, INC.
All Outfalls No. 390222
Kalamazoo County
Kalamazoo, Michigan
July 18-19, 1977

Survey Summary

Wastewater monitoring was performed during one twenty-four hour survey period starting Monday, July 18, 1977.

The results of this survey did not meet the final limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0000779. The BOD_5 loading from outfall 390006 (002) was from 11 percent to 23 percent over limitations specified in the permit (Table 3).

Comparison of the results from the composite sample split between the company and the Environmental Protection Bureau (EPB) Laboratory show EPB concentrations higher for all parameters measured, except for settleable solids on outfall 002 (Table 4).

Comparison of the results of this survey with the survey performed on August 16-18, 1976 show that flow has decreased and TOC has increased slightly. (Table 5)

Underdrainage of the sludge disposal area, which is not covered in the permit, continues to discharge into Portage Creek (Table 1).

Survey Comments

Samples were collected from the Bryant clarifier discharge to the City of Kalamazoo sanitary sewer system (Table 1).

Purpose of Survey

The purpose of the survey was to determine the quality and quantity of wastewater being discharged by Allied Paper, Inc., to Portage Creek and to check for compliance with the NPDES Permit No. MI0000779.

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Allied Paper, Inc.

Table 1 Analyses of composite samples.

Outfalls	390006 (002)		Sludge Leachate		Bryant Mill Clarifier to City Sewer	
Survey Period From	7-18-77 - 1150		7-18-77 - 1225		7-18-77 - 1240	
To	7-19-77 - 1150		7-19-77 - 1225		7-19-77 - 1240	
Computed flow rate* (M^3/day)	11,500		74		8,800	
Highest flow rate (M^3/day)	20,700 @ 2315		130 @ 2330		16,400 @ 2258	
Lowest flow rate (M^3/day)	7,300 @ 0608		44 @ 1612		450 @ 0344	
	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day
5-day BOD	19	220	< 5	--	100	880
COD	22	250	13	0.96	52	460
T.O.C.	12	140	--	--	--	--
Color (C.U.)	7	--	11	--	21	--
Turbidity (F.T.U.)	17	--	17	--	290	--
Suspended solids	7	80	32	2.4	69	610
Dissolved solids	470	5,400	420	31	580	5,100
Settleable solids	--	--	29	2.1	26	230
Phenols	< 0.00001	--	0.00003	0.000002	0.00004	0.0004
	ug/l		ug/l		ug/l	
PCB 1242	< 0.1	--	< 0.1	--	< 0.1	--
PCB 1254	< 0.1	--	< 0.1	--	< 0.1	--
PCB 1260	< 0.1	--	< 0.1	--	< 0.1	--

* Flow rates used in the computation of kg/day.
To obtain MGD multiply M^3/day by 0.000264
To obtain lbs/day multiply kg/day by 2.2046

SR 033502

Figure 2 Allied Paper Incorporated, Kalamazoo Mills

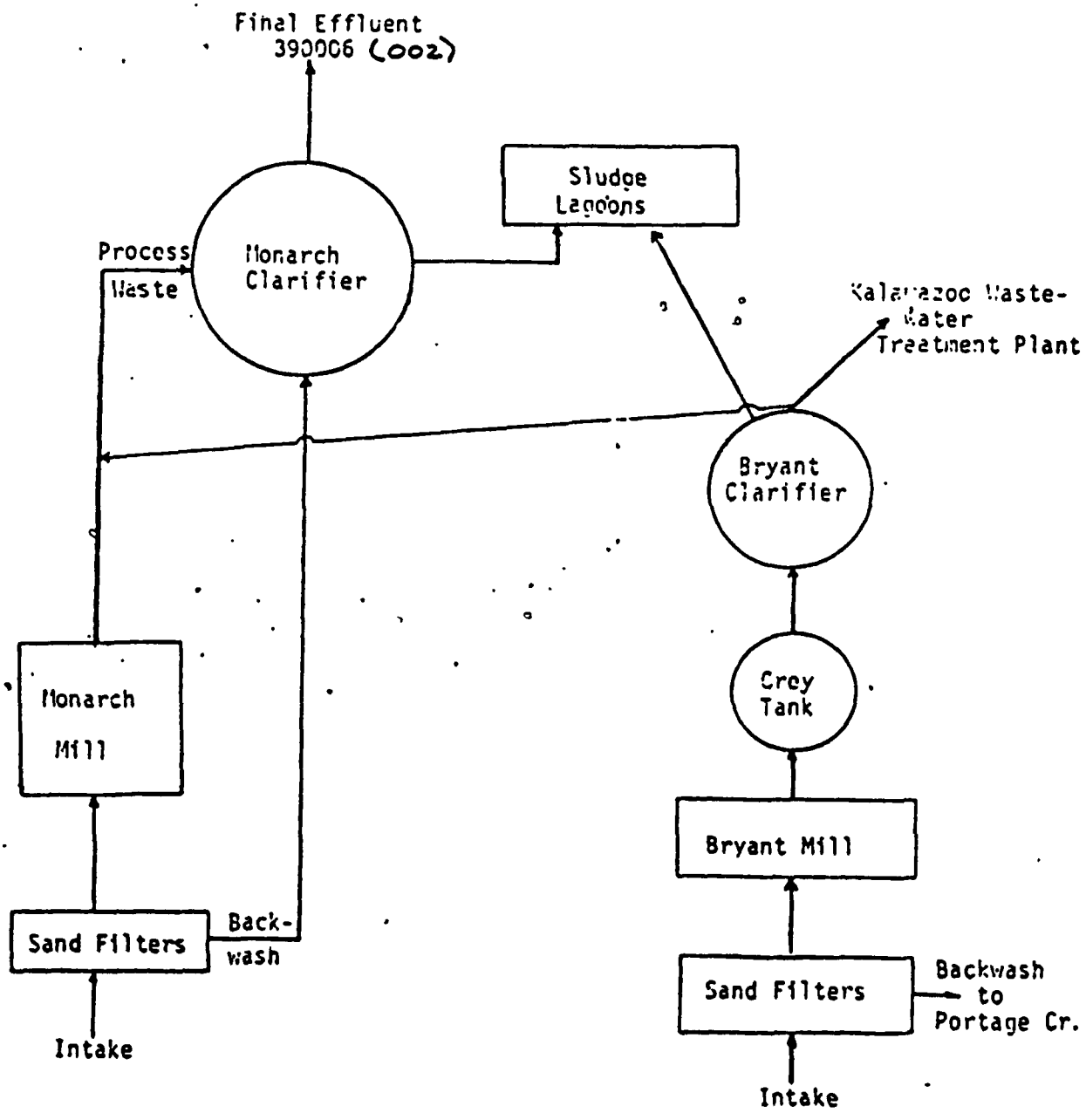
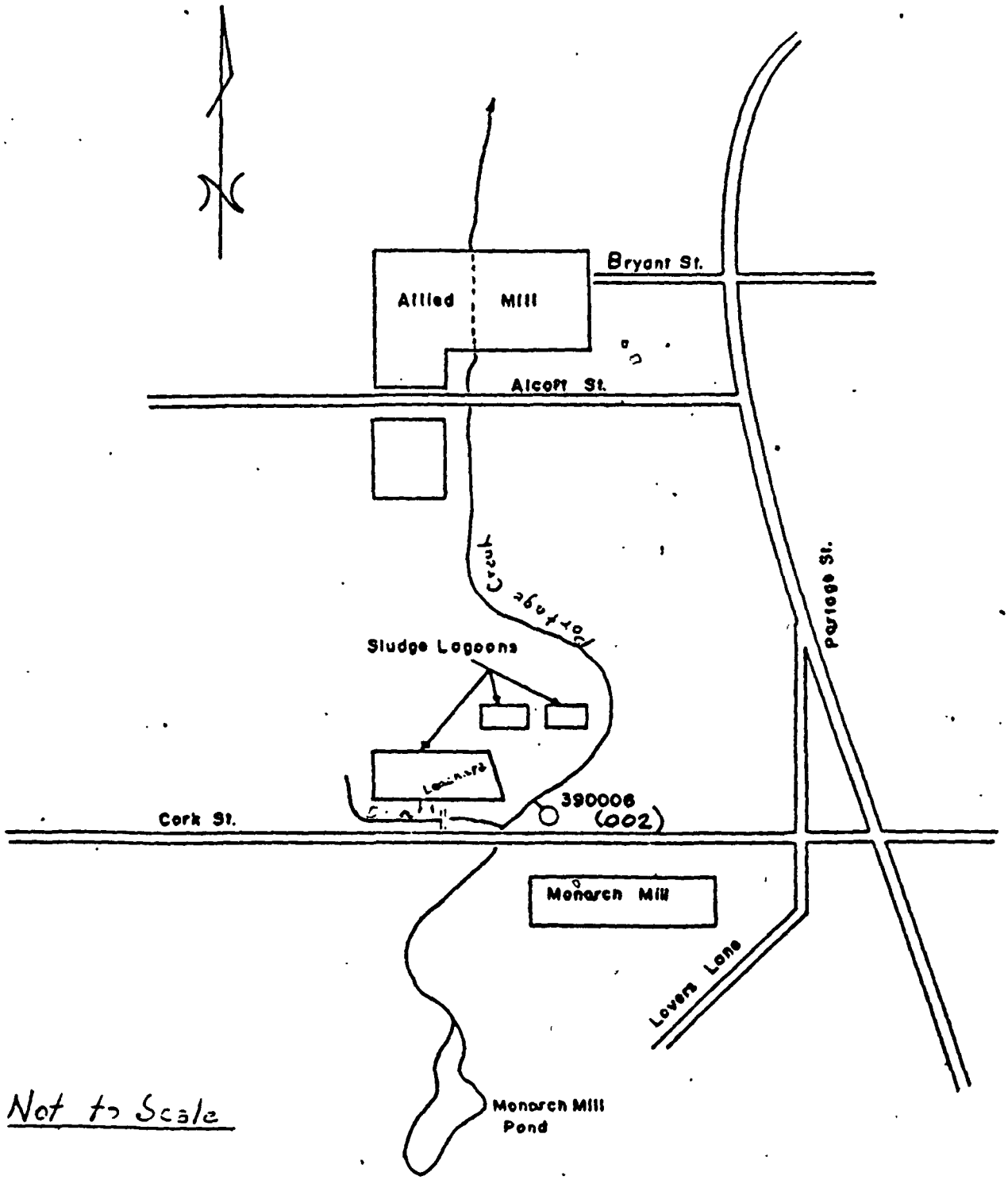


FIGURE. 1

ALLIED PAPER MILLS
KALAMAZOO



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MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE STUDIES SECTION

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER, INC.
All Outfalls No. 390222
Kalamazoo County
Kalamazoo, Michigan
February 27-28, 1978

RECEIVED
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DISTRICT 3
WATER QUALITY DIV.

Survey Summary

Wastewater monitoring was performed during one twenty-four hour survey period starting Monday, February 27, 1978.

The results of this survey were compared to the final limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0000779. Based on that comparison, outfall 390006 (002) did not meet permit limitations for BOD loading (see Table 3).

The results of this survey were also compared to the company's Monthly Operating Report (MOR) results for February 1978. The survey results were not similar to the MOR values for the survey period for BOD or suspended solids loadings (see Table 3).

A portion of the composite sample was split with the company for analysis in their laboratory. The company results for BOD did not agree favorably with Environmental Protection Bureau results (see Table 4).

A survey was previously conducted at this company in July 1977. Since that survey, the flow rate and the concentrations of BOD, COD, and TOC have increased (see Table 5).

Purpose of Survey

The purpose of the survey was to determine the quality and quantity of wastewater being discharged by Allied Paper, Inc., to Portage Creek and to check for compliance with NPDES Permit No. MI0000779.

Plant Processes

Allied Paper, Inc. operates two mills in Kalamazoo. The Monarch Mill utilizes two Fourdrinier machines to produce bible paper and carbon tissue for "one time" carbon paper. The Bryant Mill produces bible paper and other specialty papers on five Fourdrinier machines. The fourdrinier machines were all operating during the survey.

Under normal production, the mills produce 275 tons of product per day. Pulp utilized at the mills has previously been treated by the Kraft process at other locations.

The mills employ a total of approximately 475 people. Operation is on a 24-hour per day, 5 or 6 day per week schedule depending on demand. Production during the survey was considered normal.

Water, Wastewater & Treatment

Portage Creek supplies the process water used at both mills. That water is passed through sand filters prior to its use. Potable water for the mills is obtained from the City of Kalamazoo. Domestic wastes are discharged to the city's sanitary sewer system.

A schematic of wastewater treatment is shown in Figure 1. Wastewater received at the 100-foot circular Bryant clarifier originates from excess white water and from the soda ash softening process used for boiler feed water. A coagulation agent is added to the Bryant clarifier to improve settling. The Bryant clarifier effluent is either discharged to the city sanitary sewer system or to the Monarch clarifier. The split of flow depends on how much additional loading can be placed on the Monarch clarifier without exceeding permit limitation for discharge to Portage Creek.

Wastewater entering the 90-foot circular Monarch clarifier, in addition to effluent from the Bryant clarifier, is excess white water and zeolite waste from the boiler feed water system at the Monarch Mill. Alum and a coagulation agent are added to the Monarch clarifier to improve settling. Monarch clarifier effluent discharges to Portage Creek via outfall 390006 (002).

Sludge from both clarifiers is disposed of on plant property. The sand filter backwash from the Bryant Mill is currently discharged directly to Portage Creek. Although the filter discharge is not covered in the NPDES permit, efforts are being made to connect it to the city sanitary sewer.

The outfall locations are shown in Figure 2.

Survey Procedure

The flow and composite sample were obtained as follows:

Outfall	Flow Measurement	Sampling
390006 (002)	48" company's full channel weir.	Automatic air activated sampler.

The water level recorder at 390006 (002) provided a continuous account of the liquid level or head above the crest of the weir on a head versus time graph

MDNR 88398

for the duration of the survey period. The total volume of wastewater over the weir during the survey period was computed from the graph.

The samplers at 390006 (002) obtained samples proportional to the instantaneous flow over the weir at a timed interval.

Individual grab samples were collected from 390006 (002) for selected physical and chemical analyses.

The following formula was used to compute the kilograms per day of various wastewater constituents discharged: kg/day = flow (M^3/d) x conc. (mg/l) x 0.001.

Samples were analyzed by the Environmental Protection Bureau Laboratories located in Lansing.

Samples were preserved according to Table 6. The results of the physical and chemical analyses are presented in Tables 1 and 2.

Allied Paper, Inc. - Kalamazoo

Table 1 Analyses of composite samples.

Outfall	390006 (002)	Monarch
Survey Period From	2-27-78 - 1440	
To	2-28-78 - 1440	
Computed flow rate* (M^3/day)	15,000	3.96
Highest flow rate (M^3/day)	20,000 - 2-28-78 @ 1329	
Lowest flow rate (M^3/day)	8,000 - 2-28-78 @ 0846	

	mg/l	kg/day	lbs
5-day BOD	42	630	1388
COD	54	810	1785
TOC	21	320	705
Suspended solids	7	100	220
Dissolved solids	490	7,400	
Settleable solids	< 7	--	
Phenols	< 0.01	--	

* Flow rates used in the computation of kg/day.
To obtain MGD multiply M^3/day by 0.000264
To obtain lbs/day multiply kg/day by 2.2046

Allied Paper, Inc. - Kalamazoo

Table 2 Analyses of grab samples.

Date	Time	Flow[1] M^3/day	Temp.[2] °C	pH[2] S.U.	Oil & Grease mg/l	BOD_5 mg/l	COD mg/l	TOC mg/l	Susp. solids mg/l	Settle. solids mg/l	Diss. solids mg/l	Phenol mg/l
390006 (002)												
2-27-78	2115	15,600	17	7.8	< 1	43	63	26	29	15	480	0.01
2-28-78	0830	11,500	19	7.3	< 1	37	76	25	4	< 4	480	< 0.01
2-28-78	1430	--	18	7.3	< 1	30	53	23	11	< 11	470	< 0.01

1 - Flow at time of grab sampling.
2 - Values determined in the field at time of sampling.

Table 3 Comparison of survey results with the facility's NPDES Permit and Monthly Operating Report.

Parameter (Unit)	NPDES Permit Final Limitations: Daily Average	NPDES Permit Final Limitations: Daily Maximum	February Monthly Operating Report: Monthly Average	February Monthly Operating Report: Monthly Maximum	February Monthly Operating Report: 2-27-78	February Monthly Operating Report: 2-28-78	Survey Results[1]
390006 (002)							
Flow (M^3/day)	--	--	12,500	16,700	13,500	12,800	15,000
Settleable solids[2] (mg/l)	--	--	0.07	0.10	0.1	0.1	< 7 (<4, <11, 15
Oil & Grease (visual)	--	--	--	1.0	0	0	--
(mg/l)	--	--	--	--	--	--	(<1, <1, <1)
BOD_5 (kg/day)	230	350	226	345	319	274	630
Total susp. sol. (kg/day)	230	350	60	237	203	165	100
pH (S.U.)	not <6.5 nor >9.5		--	8.2 6.7 min.	7.6	7.0	(7.3, 7.3, 7.8

1 - Survey results are for the composite sample. Grab sample ranges are shown in parantheses ( ).
2 - Company reports their settleable solids results as ml/l, the EPB lab as mg/l.
To obtain MGD multiply M^3/day by 0.000264
To obtain lbs/day multiply kg/day by 2.2046

MDNR 085987

Table 4 Comparison of the laboratory analytical results obtained by Allied Paper, Inc. and the Environmental Protection Bureau from the split composite sample.

Outfall	390006 (002)		
	Allied Paper		E.P.B.
Flow (M^3/day)	13,300	3.51 MGD	15,000
	mg/l		mg/l
5-day BOD	24.9		42
Suspended solids	9	20	7

Table 5 Comparison of the previous survey results with the results obtained in this survey at Allied Paper, Inc.

Outfall	390006 (002)		
Survey Date From	7-18-77		2-27-78
To	7-19-77		2-28-78
Flow Rate (M^3/day)	11,500	3.04	15,000
	mg/l		mg/l
5-day BOD	19	+2	42
COD	22		54
TOC	12		21
Suspended solids	7	15	7
Phenols	< 0.01		< 0.01

Table 6 Sample Preservation

Parameter	Preservative
COD & TOC	10 drops H_2SO_4/250 ml (to pH <2).
Cyanide, Phenolics	Dechlorinate with ascorbic acid (if needed). 8 drops 10 N NaOH (to pH 12)/250 ml.
Oil & Grease	1 ml 1:1 H_2SO_4/250 ml (to pH <2).

All samples cooled to 4°C upon collection.

Survey by: Mike Beck, Sanitary Engineer
L.J. McDonald, Water Quality Investigator
Joseph Hey, Water Quality Investigator

Contact with Management: U.G. Stoeffler, Certified Operator
Martin Smith

Physical & Chemical Analyses by: Environmental Protection Bureau Laboratory

Report by: Mike Beck
L.J. McDonald
Point Source Studies Section
Environmental Services Division
Environmental Protection Bureau
Michigan Department of Natural Resources

Distribution "A"
MM

FIGURE. I

ALLIED PAPER MILLS
KALAMAZOO

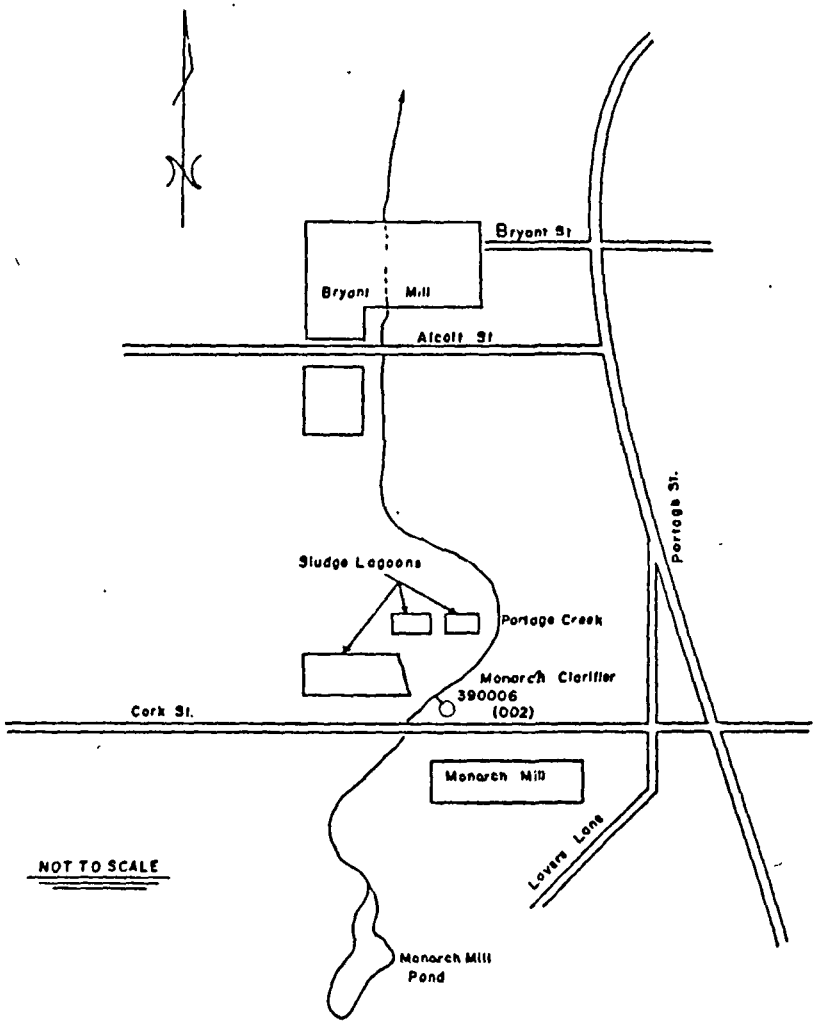
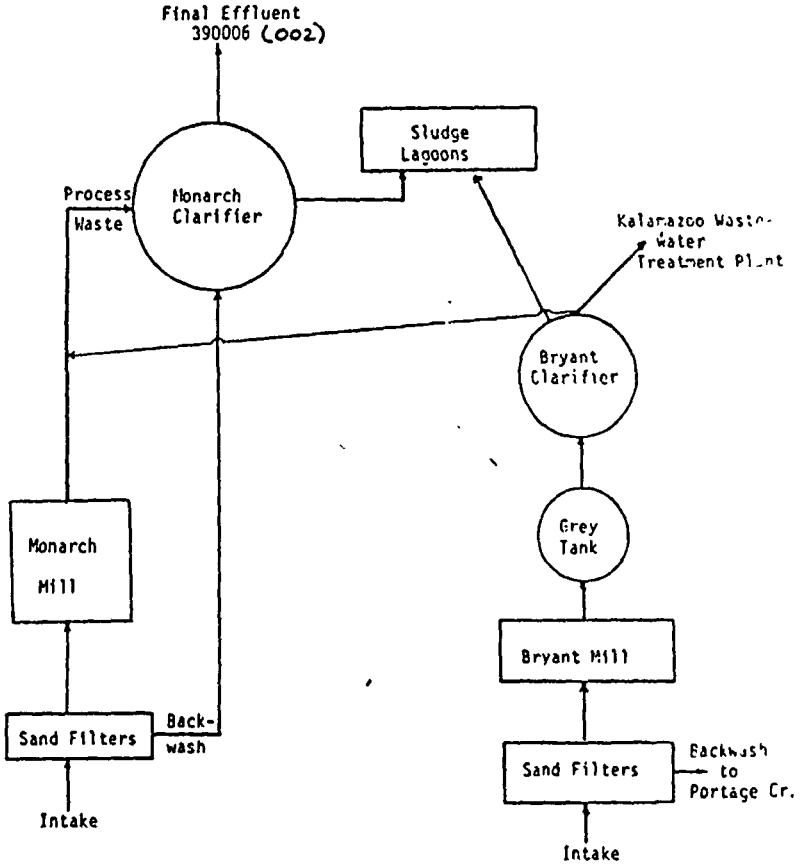


Figure 2 Allied Paper Incorporated, Kalamazoo Mills



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MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE STUDIES SECTION

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER COMPANY
All Outfalls No. 390222
Kalamazoo County
Kalamazoo, Michigan
March 27-28, 1979

Survey Summary

Wastewater monitoring was performed during one twenty-four hour survey period starting Tuesday, March 27, 1979.

The results of this survey were compared to the final limitations in the facility's National Pollutant Discharge Elimination System Permit, No. MI00779. Based on this comparison, the company exceeded their daily average permit limitations for BOD_5 loading at outfall 390006 (002), but met the daily maximum permit limitations (Table 3).

The results of this survey were also compared to the company's Monthly Operating Report (MOR) results for March, 1979. Flows reported by the company on the survey dates were approximately 19% lower than the reported monthly average flow. Suspended solids and BOD_5 loading rates reported by the company on the survey dates did not agree favorably with Environmental Protection Bureau results (Table 3).

A portion of the composite sample collected at outfall 390006 (002) was split with the company for analysis in their laboratory. The company's BOD_5 results were lower than Environmental Protection Bureau results (Table 4).

Results obtained in this survey were compared to the results of the previous survey conducted in February, 1978 (Table 5). Dissolved solids and BOD_5 concentrations are lower than previous survey results, while COD is higher. Flow during the present survey was approximately one-half the rate computed for the previous survey.

Plant Processes

Allied Paper Company operates two mills in Kalamazoo. The Monarch Mill uses two Fourdrinier machines to produce bible paper and specialty grades. The Bryant Mill produces bible paper and other specialty papers on five Fourdrinier machines. The Fourdrinier machines were all operating during the survey.

Under normal production, the mills produce 313 tons of product per day Pulp utilized at the mills has previously been treated by the Kraft process at other locations.

The mills employ a total of 485 people. Bryant Mill operation was on a 24-hour per day, 6 day per week schedule during the survey, while the Monarch Mill operated 7 days per week. Production was considered normal during the survey.

Water, Wastewater & Treatment

Portage Creek supplies the process water used at both mills. That water is passed through sand filters prior to its use. Potable water for the mills is obtained from the City of Kalamazoo. Domestic wastes are discharged to the city's sanitary sewer system.

Schematics of the wastewater treatment system and plant configeration are shown in Figure 1 and 2. Wastewater received at the 100-foot circular Bryant clarifier originates from excess white water, filter backwash, and from the lime-soda ash softening process used for boiler feed water. Alum and a polymer are added to improve settling in the Bryant clarifier. The Bryant clarifier effluent is either discharged to the city sanitary sewer system or to the Monarch clarifier. The company maximizes the loading which can be placed on the Monarch clarifier without exceeding permit limitations for discharging to Portage Creek. Flow is automatically apportioned via a computerized system utilizing a total organic carbon analyzer.

The 90-foot circular Monarch clarifier receives Bryant clarifier effluent as well as excess white water, filter backwash, and zeolite waste from the boiler feed water system at the Monarch Mill. Alum and a coagulation agent are added to the Monarch clarifier to improve settling. Monarch clarifier effluent discharges to Portage Creek via outfall 390006 (002).

Sludge from both clarifiers is disposed of on plant property

Survey Procedure

The flows and samples were obtained as follows:

Outfall	Flow Measurement	Sampling
390006 (002) Process	Flow was obtained using an existing 48-inch full channel weir and Stevens water level recorder.	A proportional automatic air-activated composite sampler + 2 grabs. Sample for phenols was grab composited.

A water level recorder provides a continuous account of the liquid level or head above the crest of a weir or through a flume. A head versus time graph is obtained for the duration of the survey period. The total volume of wastewater over the weir or through the flume during the survey period is computed from the graph.

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EXHIBIT NO. 32
11-22-92
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An automatic sampler composites samples at timed intervals. Samples may be proportional to the instantaneous flow over the weir or through the flume.

A grab composite consists of a series of individual grabs composited into one sample.

An individual grab is a single instantaneous sample.

Samples were analyzed by the Environmental Protection Bureau Laboratories located in Lansing.

Samples were preserved according to Table 6. The results of the physical and chemical analyses are presented in Tables 1 & 2.

Allied Paper Company - Kalamazoo

Table 1 Analyses of composite samples.

Outfall		390006 (002) Process
Survey Period	From	3-27-79 - 1200
	To	3-28-79 - 1200
Computed flow rate* (M^3/day)		7,660
Highest flow rate (M^3/day)		13,400
Lowest flow rate (M^3/day)		3,630

	mg/l	kg/day
5-day BOD	34	260
COD	65	500
TOC	21	160
Suspended solids	7	50
Dissolved solids	460	3,520
Settleable solids	< 7	< 50
Phenols	< 0.01	--
Total chromium (Cr)	< 0.01	--
Total zinc (Zn)	0.01	0.08

* Flow rates used in the computation of kg/day.
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

Allied Paper Company - Kalamazoo

Table 2 Analyses of grab samples.

	Date	Time	Temp.[1] °C	pH[1] S.U.	Oil & Grease mg/l	TOC mg/l	COD mg/l	BOD mg/l	Susp. solids mg/l	Diss. solids mg/l	Settle. solids mg/l	Phenols mg/l	Total zinc mg/l	Total chromium mg/l
390006 (002) Process														
1	3-27-79	2020	17.0	6.7	1.0	24	74	41	6	480	< 6	< 0.01	0.02	< 0.01
2	3-28-79	0745	19.5	7.1	1.0	21	67	44	5	450	< 5	0.018	0.03	< 0.01

1 - Values determined in the field at time of sampling.

Table 3 Comparison of survey results with the facility's NPDES Permit and Monthly Operating Report.

Parameter (Unit)	NPDES Permit Final Limitations: Daily Average	NPDES Permit Final Limitations: Daily Maximum	March Monthly Operating Report: Monthly Average	March Monthly Operating Report: Monthly Maximum	3-27-79	3-28-79	Survey Resul
390006 (002) Process							
Flow (M^3/day)	--	--	9,035	--	7,267	7,358	7,660
Settleable solids (ml/l)	--	--	0.07	0.10	0.05	0.05	--
Oil & Grease (visual) (mg/l)	--	--	--	1	1	1	--
pH (S.U.)	not <6.5 nor >9.5	--	--	7.3 min. 6.5	7.1	7.2	(1, 1) (6.7,
BOD_5 (kg/day)	230	350	216	321	154	181	260
Total susp. sol. (kg/day)	230	350	145	329	116	147	50

1 - Survey results are for the composite sample. Grab sample ranges are shown in parentheses ( ).
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

9001458

Table 4 Comparison of the laboratory analytical results obtained by Allied Paper Company and the Environmental Protection Bureau from the split composite samples.

Outfall	390006 (002) Process	
	E.P.B.	Allied Paper
Flow (M^3/day)	7,660	7,343
	mg/l	mg/l
5-day BOD	34	23.2
Suspended solids	7	4

Table 5 Comparison of the previous survey results with the results obtained in this survey.

Outfall		390006 (002)	
Survey Date	From	2-27-78 - 1440	3-27-79 - 1200
	To	2-28-78 - 1440	3-28-79 - 1200
Flow Rate (M^3/day)		15,000	7,660
		mg/l	mg/l
5-day BOD		42	34
COD		54	65
TOC		21	21
Suspended solids		7	7
Dissolved solids		490	460
Settleable solids		< 7	< 7
Phenols		< 0.01	< 0.01

Table 6 Sample Preservation

Parameter	Preservative
COD & TOC	10 drops conc. H_2SO_4/250 ml (to pH <2).
Phenolics	Dechlorinate with ascorbic acid (if needed). 10 drops 10 N NaOH (to pH 12)/250 ml.
Total Metals	2 ml 1:1 HNO_3/250 ml (to pH <2).
Oil & Grease	10 drops conc. H_2SO_4/250 ml (to pH <2).

All samples cooled to 4°C and preserved upon collection and chain of custody maintained.

Survey by: John Schroeter, Sanitary Engineer
Joseph Hey, Water Quality Investigator
William Erickson, Water Quality Technician

Contact with Management: U.G. Stoeffler, Certified Operator

Physical & Chemical Analyses by: Environmental Protection Bureau Laboratory

Report by: John Schroeter
Joe Hey
Point Source Studies Section
Environmental Services Division
Environmental Protection Bureau
Michigan Department of Natural Resources

Distribution "A"
MM

9001459

FIGURE. I

ALLIED PAPER MILLS
KALAMÁZOO

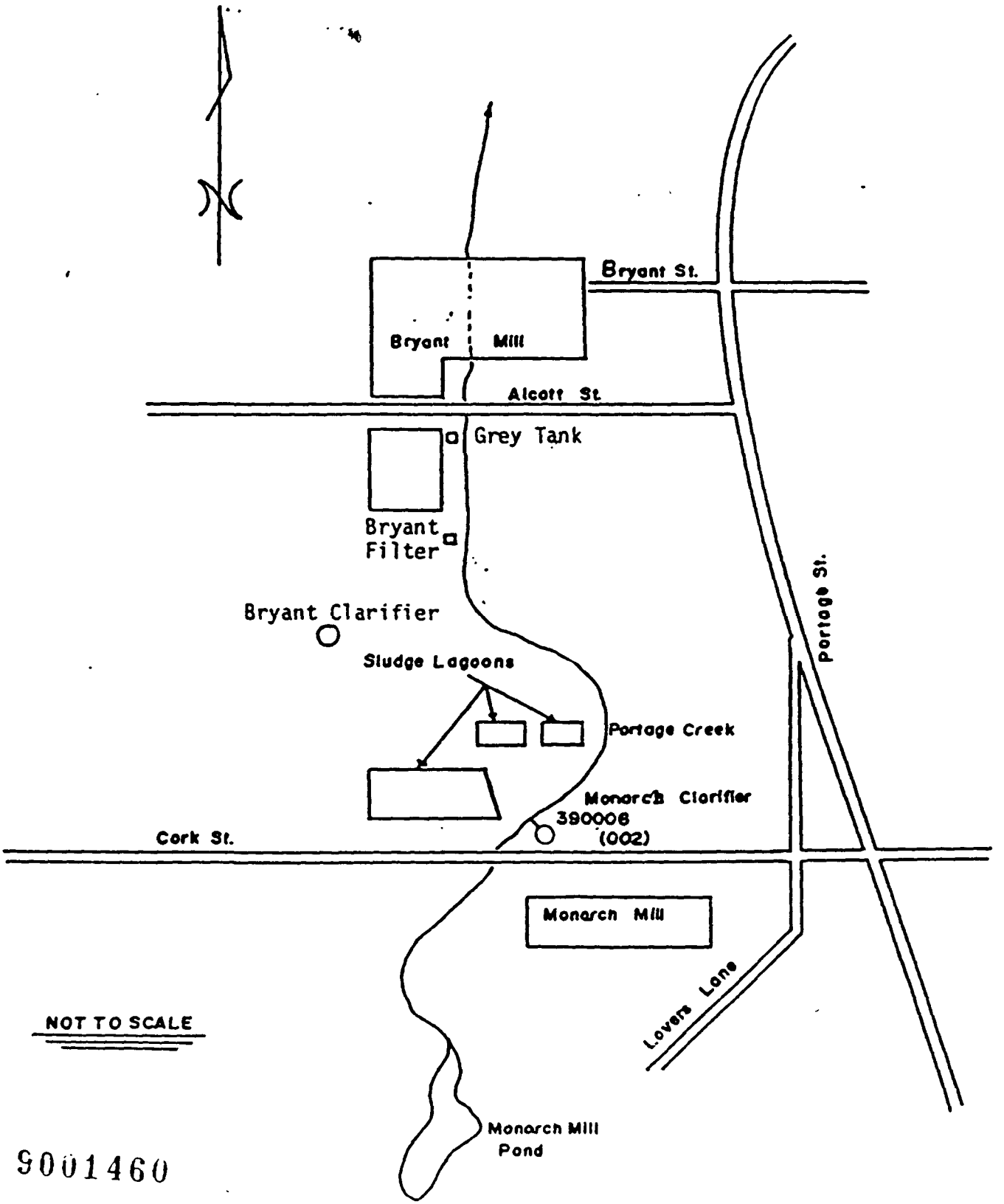

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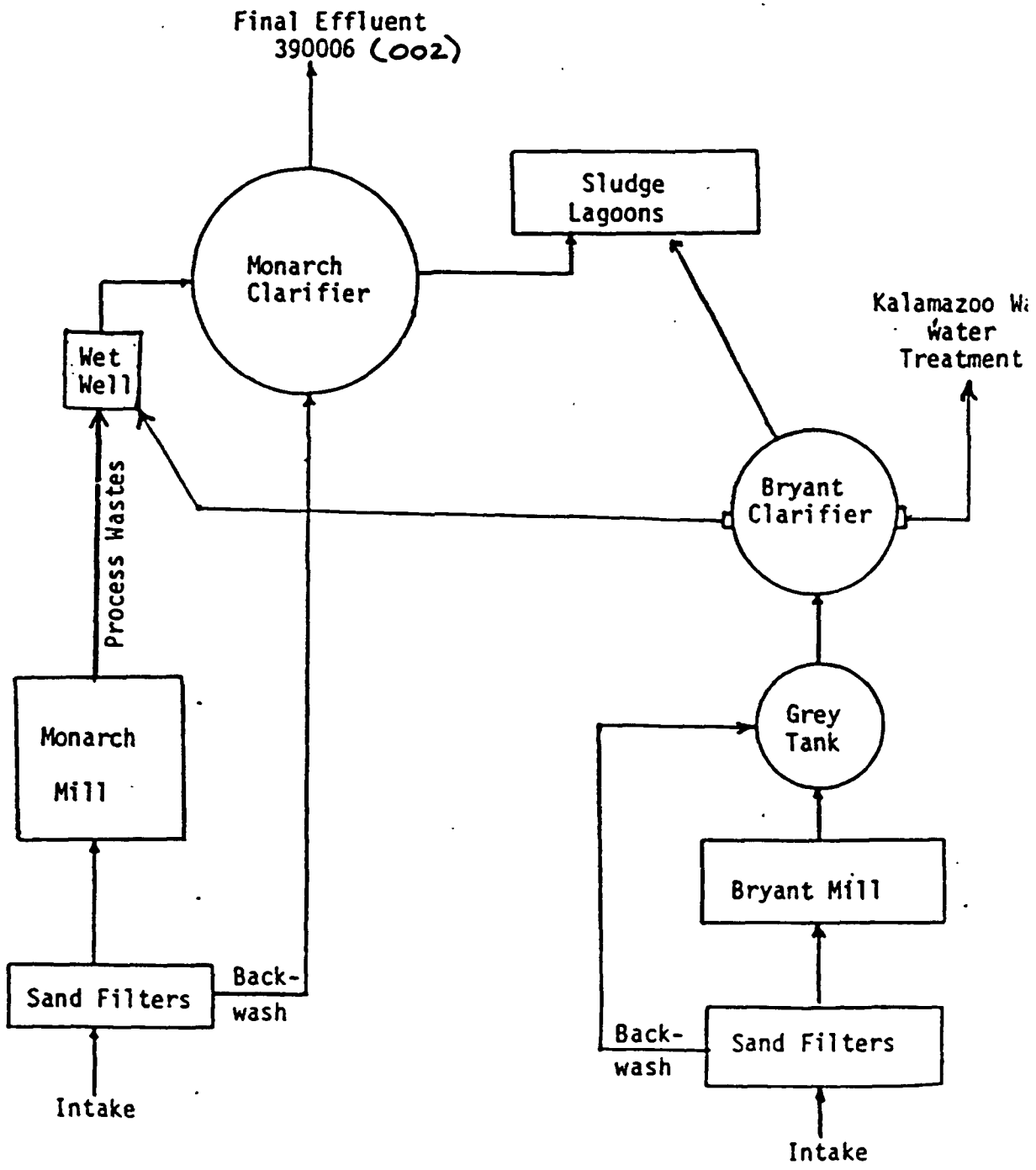
Figure 2 Allied Pape\ ncorporated, Kalamazoo Mills



9001461

Report of a Toxicity Evaluation Conducted on Wastewaters Discharged by
ALLIED PAPER COMPANY
Kalamazoo, Michigan
March 29-31, 1979

Summary

During March 29-31, 1979 a static toxicity evaluation was conducted on a sample of treated process wastewater discharged by Allied Paper Company, outfall 390006 (002), to Portage Creek. The macroinvertebrate Daphnia magna was used as the test species during the toxicity evaluation.

Effluent from outfall 390006 (002) was not toxic to D. magna on an acute (short term) basis. A 48-hour LC50 (effluent concentration lethal to 50 percent of the test organisms) could not be calculated due to the lack of daphnid mortality.

Methods & Procedures

On March 27-28, 1979 Environmental Protection Bureau personnel collected a 24-hour composite sample of treated process wastewater from outfall 390006 (002) at Allied Paper Company, Kalamazoo. The sample was transported to the Lansing laboratory for toxicity testing.

A 48-hour static toxicity test using Daphnia magna (<24 hours old) was conducted according to procedures outlined in the U.S.-EPA publication, Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians. The following effluent concentrations were prepared using dechlorinated, activated carbon filtered Lansing city water as the diluent: 100, 75, 50, 25, 10 and 5 percent effluent. Controls were provided using 100 percent dilution water. Duplicate test chambers (250 ml glass beakers) containing 200 mls of test solution were prepared for each concentration and control to provide suitable replication. Five daphnids were randomly assigned to each test chamber marking the start of the test (3-29-79 at 1210). Selected chemical and physical analyses were run on the 100 percent, 25 percent and control solutions at the beginning and end of the test. Table 1 presents the results of these analyses.

Results & Discussion

Wastewater discharged from outfall 390006 (002) during the survey period was not toxic to D. magna on an acute basis (Table 2). A 48-hour LC50 could not be calculated due to a lack of daphnid mortality.

Table 1 Routine water chemistry analyses run in the 100% effluent, 25% effluent and control test solutions at the beginning and end of the 48-hour exposure period.

Parameter	Outfall 390006 (002)					
	3-29-79			3-31-79		
	Control	25%	100%	Control	25%	100%
Dissolved oxygen (mg/l)	8.8	8.9	9.4	8.0	7.0	6.9
Percent saturation	101	102	108	92	80	69
pH (S.U.)	7.3	7.0	6.8	7.2	7.2	7.1
Temperature (°C)	22	22	22	22	22	22
Conductivity (umhos)	343	433	706	348	436	701

Table 2 Percent mortality in each test concentration after 48 hours exposure to Allied Paper Company process wastewater.

	48-hour percent mortality 390006 (002)
100	0
75	0
50	0
25	0
10	0
5	0
0	0

Effluent Samples Collected By: Joseph Hey, Water Quality Investigator
William Erickson, Water Quality Technicia

Industrial Wastewater Survey Engineer: John Schroeter, Sanitary Engineer

Toxicity Evaluation By: Bonnie White, Aquatic Biologist

Report By: Bonnie White
Point Source Studies Section
Environmental Services Division
Environmental Protection Bureau
Michigan Department of Natural Resources

9001462

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE STUDIES SECTION

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER CORPORATION
All Outfalls No. 390222
NPDES Permit No. MI0000779
Kalamazoo County
Kalamazoo, Michigan
June 24-25, 1980

Survey Summary

Wastewater monitoring was performed during one twenty-four hour survey period starting Tuesday, June 24-25, 1980.

The results of this survey are compared to the final limitations in the facilities' National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0000799 in Table 3. Based on this comparison, the company exceeded the daily maximum loading limitation for BOD_5. The other parameters met the permit limitations.

The results of this survey are also compared to the company's Monthly Operating Report (MOR) results for June, 1980 in Table 3. The results are similar except for the lower BOD_5 loadings reported by the company. The company's BOD_5 loadings on June 24 and 25 were 40% and 54% of the survey results, respectively. This difference cannot be attributed to differences in flows as these were similar.

The composite sample collected at outfall 390006 (002) was split with the company for comparison of laboratory analyses. The results are shown in Table 4. The company reported a BOD_5 concentration 57% of the EPB laboratory's result and also reported a higher suspended solids concentration.

The results obtained in this survey are compared to the results of the previous survey conducted in March, 1979 in Table 5. The results are similar.

The sludge leachate (groundwater seepage) was sampled. The results are shown in Table 2.

Plant Processes

Allied Paper Corporation operates two mills in Kalamazoo. The Monarch Mill uses two Fourdrinier machines to produce bible paper and specialty grades. The Bryant Mill produces bible paper and other specialty papers on five Fourdrinier machines. The Fourdrinier machines were all operating during the survey.

Under normal production, the mills produce 285 tons of product per day. Pulp utilized at the mills has previously been treated by the Kraft process at other locations.

The mills employ a total of 485 people. Monarch Mill operation was on a 24-hour per day, 6 days per week schedule during the survey, while the Bryant Mill operated 7 days per week. Production was considered normal during the survey.

Water, Wastewater & Treatment

Portage Creek supplies the process water used at both mills. Water used at the Bryant Mill is chlorinated and passed through sand filters prior to its use. Water used at the Monarch Mill is passed through sand filters and then chlorinated prior to its use. Potable water for the mill is obtained from the City of Kalamazoo. Domestic wastes are discharged to the city's sanitary sewer system.

Schematics of the wastewater treatment system and plant configeration are shown in Figure 1 and 2. Wastewater received at the 100-foot circular Bryant clarifier originates from excess white water, filter backwash, and from the lime-soda ash softening process used for boiler feed water. Alum and a polymer are added to improve settling in the Bryant clarifier. The Bryant clarifier effluent is either discharged to the city sanitary sewer system or to the Monarch clarifier. The company maximizes the loading which can be placed on the Monarch clarifier without exceeding permit limitations for discharging to Portage Creek. Flow is automatically apportioned via a computerized system utilizing a total organic carbon analyzer.

The 90-foot circular Monarch clarifier receives Bryant clarifier effluent, as well as excess white water, filter backwash, and zeolite waste from the boiler feed water system at the Monarch Mill. Alum and a coagulation agent are added to the Monarch clarifier to improve settling. Monarch clarifier effluent discharges to Portage Creek via outfall 390006 (002).

Sludge from both clarifiers is disposed of on plant property.

Survey Procedure

The flows and samples were obtained as follows:

Outfall	Flow Measurement	Sampling
390004 (001) Bryant Mill	Company installed 46.5" rectangular weir. Staff installed water level recorder.	Scoop type composite, individual grabs.
390006 (002) Monarch Mill	Company installed 47.75" full channel weir. Staff installed water level recorder.	Scoop type composite, individual grabs.
Sludge Leachate	None	Individual grab.

A water level recorder provides a continuous account of the liquid level or head above the crest of a weir. A head versus time graph is obtained for the duration of the survey period. The total volume of wastewater over the weir during the survey period is computed from the graph.

An automatic sampler composites samples at timed intervals. Samples may be proportional to the instantaneous flow over the weir.

An individual grab is a single instantaneous sample.

Samples were analyzed by the Environmental Protection Bureau Laboratories located in Lansing.

Samples were preserved according to Table 6. The results of the physical, chemical and bacteriological analyses are presented in Tables 1 & 2.

Allied Paper Corporation - Kalamazoo

Table 1 Analyses of composite samples.

		Bryant		Monarch	
Outfalls		390004 (001)		390006 (002)	
Survey Period	From	6-24-80 - 1520		6-24-80 - 1615	
	To	6-25-80 - 1520		6-25-80 - 1615	
Computed flow rate* (M^3/day)		10,500	2.77 MGD.	5,910	1.56 MGD
Highest flow rate (M^3/day)		19,300 - 6-25-80 @ 1123		11,200 - 6-25-80 @ 1420	
Lowest flow rate (M^3/day)		476 - 6-25-80 @ 0115		4,150 - 6-25-80 @ 1522	

	mg/l	kg/day		mg/l	kg/day	
Suspended solids	46	480	1062	< 2	--	
Dissolved solids	650	6,800	15,209	460	2,700	5165
Settleable solids	4	40		< 2	--	
COD	300	3,000		66	390	
TOC	59	620		19	110	
BOD_5	130	1,400	3,002	44	260	571
$CBOD_5$	120	1,300		37	220	
$CBOD_{20}$	> 140	> 1,500		46	270	
Nitrite & nitrate nitrogen-N						
nitrogen-N	5.2	55		1.0	5.9	
Ammonia nitrogen-N	0.17	1.8		0.06	0.4	
Kjeldahl nitrogen-N	4.0	42		0.92	5.4	
Orthophosphates-P	0.08	0.8		< 0.01	--	
Total phosphorus-P	0.13	1.4		0.02	0.1	

* Flow rates used in the computation of kg/day.
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

Allied Paper Corporation - Kalamazoo

Table 2 Analyses of grab samples.

Date	Time	Flow[1] M³/day	Temp.[2] °C	pH[2] S.U.	Residual[2] chlorine mg/l	O&G I.R. mg/l	O&G Grav. mg/l	Susp. solids mg/l	Total diss. solids mg/l	Settle. solids mg/l	COD mg/l	TOC mg/l	BOD_5 mg/l	Carb. BOD_5 mg/l
390004 (001)														
6-24-80	1530	10,000	31.0	7.3	U	2	6	30	550	< 2	260	50	140	120
6-24-80	2245	9,300	31.5	7.2	U	2	4	28	800	< 2	260	53	170	130
6-25-80	0820	9,600	32.5	--	U	2	< 2	42	690	< 2	280	52	> 170	130
390006 (002)														
6-24-80	1630	4,800	30.5	7.4	U	1	5	9	510	8	59	17	36	31
6-24-80	2310	5,200	30.5	7.5	U	1	< 2	10	520	5	62	18	32	30
6-25-80	0850	5,300	31.0	--	U	1	< 2	9	530	3	63	19	41	32
Sludge Leachate														
6-24-80	2255	--	15.5	7.2	--	< 1	< 2	23	480	16	20	--	1.6	2.0
6-25-80	0830	--	15.0	--	--	4	< 2	100	510	80	40	--	4.4	1.9

		Carb. BOD_{20} mg/l	Nitrite & nitrate nitrogen mg/l	Ammonia nitrogen mg/l	Kjeldahl nitrogen mg/l	Ortho-phosphates-P mg/l	Total phosphorus-P mg/l
390004 (001)							
6-24-80	1530	> 140	2.3	0.18	3.7	0.05	0.18
6-24-80	2245	> 140	8.0	0.09	3.7	0.05	0.11
6-25-80	0820	> 150	6.2	0.10	3.5	0.11	0.12
390006 (002)							
6-24-80	1630	55	0.62	0.02	1.0	0.01	0.03
6-24-80	2310	51	0.87	0.04	1.1	< 0.01	0.02
6-25-80	0850	54	1.2	0.06	0.95	< 0.01	0.02
Sludge Leachate							
6-24-80	2255	2.9	0.03	0.43	0.79	0.03	0.09
6-25-80	0830	3.0	0.03	0.42	1.2	0.04	0.24

1 - Flow at time of grab sampling.
2 - Values determined in the field at time of sampling.

Allied Paper Corporation - Kalamazoo

Table 3 Comparison of survey results with the facility's NPDES Permit and Monthly Operating Report.

Parameter (Unit)	NPDES Permit Final Limitations		June Monthly Operating Report				Survey Results[1]
	Daily Average	Daily Maximum	Monthly Average	Monthly Maximum	6-24-80	6-25-80	
390006 (002)							
Flow (M^3/day)	--	--	5,299	6,533	5,348	6,533	5,910
Settleable solids (ml/l)	--	--	0.09	0.10	0.1	0.1	--
(mg/l)	--	--	--	--	--	--	< 2 (8, 5, 3)
Oil & Grease (visual 0 - 4)	No visible film		0	0	0	0	--
(mg/l)	--	--	--	--	--	--	(5, <2, [illegible])
BOD_5 (kg/day)	--	177	140	175	103	141	260
Total suspended solids (kg/day)	--	230	25	89.8	21	52.2	--
(mg/l)	--	--	--	--	--	--	< 2 (9, 10, 9)
pH (S.U.)	not <6.5 nor >9.5		min. 6.5	7.8	7.0	7.0	(7.4, 7.5)

1 - Survey results are for the composite sample. Grab sample ranges are shown in parentheses ( ).
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION
JACOB A. HOEFER
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HARRY F. SNELL
PAUL H. WENDLER
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WILLIAM G. MILLIKEN, Governor

DEPARTMENT OF NATURAL RESOURCES

HOWARD A. TANNER, Director

State Office Building
350 Ottawa N. W.
Grand Rapids, Michigan 49503
Phone: 456-6232

September 9, 1982

Mr. U.G. Stoeffler, Manager
Process Development
Allied Paper, Inc.
Kalamazoo, MI 49003

Dear Mr. Stoeffler:

Enclosed is a copy of a "Report of an Industrial Wastewater Survey" conducted at Allied Paper Company on March 1-2, 1982. The report includes the volume of wastewater discharged and results of the chemical analyses performed on the composite of the collected effluent. Grab samples were also obtained for certain determinations. In addition, a 48-hour static toxicity screening test was conducted on a portion of the composite sample at Outfall 390006 (002). The results of the tests are found in Appendix A.

The results of the survey indicate that Allied Paper's discharge to Portage Creek from the Monarch clarifier 390006 (002) met the daily maximum limitations contained in N.P.D.E.S. Permit No. MI0000779 at the time of the survey.

The composite sample collected at Outfall 390006 (002) showed a pentachlorophenol concentration of 60 ug/l (Table 1). This value is higher than the survey concentration found in the previous survey. As a result, it will be our recommendation that the current N.P.D.E.S. permit reissuance for the discharge to Portage Creek from the Monarch clarifier contain a special condition requiring short-term monitoring of this parameter to determine if a water quality based effluent limitation needs to be established.

The remainder of the report is self-explanatory. We would appreciate receiving any comments you may have on the survey report at your earliest convenience.

Very truly yours,

WATER QUALITY DIVISION

Roger Przybysz
Water Quality Specialist

RP/mam

CC: Galen Kilmer, Permit Section, Water Quality Division
Jim Forney, Office of Toxic Materials Control, Environmental Services Div.
John Bohunsky/WQD Files, Lansing
Scott Ross, Compliance Section, Water Quality Division
Jean Eldred, Kalamazoo Wastewater Treatment Plant

Kilmer
EXHIBIT NO. 14
M. LANTIS 10/27/82

SA

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE STUDIES SECTION

Report of an
Industrial Wastewater Survey
Conducted at
ALLIED PAPER COMPANY
All Outfalls No. 390222
NPDES Permit No. MI0000799
Kalamazoo County
Kalamazoo, Michigan
March 1-2, 1982

Survey Summary

Wastewater monitoring was performed during one twenty-four hour survey period starting Monday, March 1, 1982.

The results of this survey met the final limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0000799 (Table 3).

The survey results are compared to the company's Monthly Operating Report (MOR) results for March, 1982 in Table 3.

A grab sample collected at outfall 390006 (002) was split with the company for comparison of laboratory results. The company reported a higher suspended solids concentration. The BOD_5 results compared well (Table 4).

The results obtained in this survey are compared to the results of the previous survey conducted in January, 1981 in Table 5.

Groundwater drainage from the company's landfill area was sampled. The results are presented in Table 2.

Survey Comments

The composite sample collected at outfall 390006 (002) showed a pentachlorophenol concentration of 60 ug/l (Table 1).

A 48-hour static toxicity screening test was conducted on a portion of the composite sample collected at outfall 390006 (002). The sample was found to be toxic to *Daphnia magna* on an acute (short term) basis (Appendix A).

Plant Processes

Allied Paper Corporation now operates one mill in Kalamazoo. This is known as the Bryant Mill. Another mill, known as the Monarch Mill, has been permanently shut down and is being demolished. The Bryant Mill produces bible paper and other specialty papers on five Fourdrinier machines.

Under normal production the mill produces approximately 220 tons of product per day. The mill uses bleached kraft pulp manufactured at other locations.

The mill employs 389 people and operates 24 hours per day, 7 days per week. Production was considered normal during the survey.

Water, Wastewater & Treatment

Portage Creek supplies the process water. Water used at the Bryant Mill is chlorinated and passed through sand filters prior to its use. Potable water for the mill is obtained from the City of Kalamazoo. Domestic wastes are discharged to the city's sanitary sewer system.

Schematics of the wastewater treatment system and plant configeration are shown in Figures 1 & 2. Wastewater received at the 100-foot circular Bryant clarifier originates from excess white water, filter backwash, and from the lime-soda ash softening process used for boiler feed water. A polymer is added to improve settling in the Bryant clarifier. Alum is available but wasn't used during the survey. A portion of the Bryant clarifier effluent is discharged to the city sanitary sewer system. The rest is discharged to the 90-foot circular Monarch clarifier. The company maximizes the loading which can be placed on the Monarch clarifier without exceeding permit limitations for discharging to Portage Creek. Flow is automatically apportioned via a computerized system utilizing a total organic carbon analyzer. Some of the Monarch clarifier effluent is recycled for process water. The remaining portion is discharged to Portage Creek via outfall 390006 (002).

Sludge from both clarifiers is disposed of on plant property.

SA 034343

Survey Procedure

The flows and samples were obtained as follows:

Sample Description	Flow Measurement	Sampling Methods & Location
390006 (002) (Monarch Mill)	Company installed 36-inch rectangular weir/staff installed water level recorder.	Automatic air activated composite sample, 4-aliquot grab composite sample and individual grab sample; collected at discharge from clarifier.
390004 (001) (Bryant Mill)	Company totalizer.	4-aliquot grab composite sample and individual grab sample; collected at discharge from clarifier.
Drainage from Landfill	--	Individual grab sample; collected at service road to Bryant clarifier

A water level recorder provides a continuous account of the liquid level or head above the crest of a weir. A head versus time graph is obtained for the duration of the survey period. The total volume of wastewater over the weir during the survey period is computed from the graph.

An automatic sampler composites samples at timed intervals. Samples may be proportional to the instantaneous flow over the weir.

Extractable organic composite samples are collected by the grab composite method.

A grab composite consists of a series of individual grabs composited into one sample.

An individual grab is a single instantaneous sample.

Samples were analyzed by the Environmental Protection Bureau Laboratories located in Lansing.

Samples were preserved according to Table 6. The results of the physical and chemical analyses are presented in Tables 1 & 2. Letter codes for laboratory results are defined in Table 6.

Allied Paper Company - [illegible]

Table 1 Analyses of composite samples.

Outfalls	390006 (002)		390004 (001)	
Survey Period From	3-1-82 - 1125		3-1-82 - 1420	
To	3-2-82 - 1435		3-2-82 - 1320	
Computed flow rate[1] (M^3/day)	1,210		(5,710)	
	mg/l	kg/day	mg/l	kg/day
Suspended solids	20	20	28	160
Dissolved solids	740	900	720	4,100
Settleable solids	4	5	6	30
COD	220	270	220	1,300
TOC	75	91	74	420
BOD_5	140	170	130	740
$CBOD_5$	140	170	--	--
$CBOD_8$	130	160	--	--
$CBOD_{12}$	160	190	--	--
$CBOD_{15}$	150	180	--	--
$CBOD_{20}$	170	210	--	--
Nitrite & nitrate nitrogen-N	5.0	6.0	4.3	25
Ammonia nitrogen-N	0.95	1.2	0.90	5.1
Kjeldahl nitrogen-N	9.5	11	7.5	43
Total phosphorus-P	0.12	0.15	0.13	0.74
	ug/l		ug/l	
Phenol	5.2 NA	0.0063	4.6 NA	0.026
Phenols Scan				
Pentachlorophenol (PCP)	60	0.07	< 20	--
Others in scan	U	--	U	--

1 - Flow rate [illegible]d in the computation of kg/day (obtained from company totalizer).
To obtain [illegible] multiply M^3/day by 0.0002642
To obtain [illegible]s/day multiply kg/day by 2.205

Allied Paper Company - Kalamazoo

Table 2 Analyses of grab samples.

Date	Time	Flow[1] M³/day	Temp.[1] °C	pH[1] S.U.	Residual[1] Chlorine mg/l	D.O. mg/l	Susp. solids mg/l	Diss. solids mg/l	Settle. solids mg/l	COD mg/l	TOC mg/l	BOD_5 mg/l	$CBOD_5$ mg/l
390006 (002)													
3-1-82	1450	1140	22.5	6.7	U	8.2	20	840	4	240	110	170	170
3-2-82	0745	886	21.5	6.9	U	9.0	20	730	4	220	72	130	130
390004 (001)													
3-2-82	0725	--	23.5	7.0	U	--	16	720	NA	200	75	140	--
Drainage													
3-2-82	0735	--	3.0	7.6	--	--	< 4	530	NA	21	6.7	--	--

Date	Time	$CBOD_8$ mg/l	$CBOD_{12}$ mg/l	$CBOD_{15}$ mg/l	$CBOD_{20}$ mg/l	Nitrite & nitrate nitrogen mg/l	Ammonia nitrogen mg/l	Kjeldahl nitrogen mg/l	Total phosphorus-P mg/l	O&G I.R. mg/l	O&G Grav. mg/l	Phenol µg/l
390006 (002)												
3-1-82	1450	150	180	170	190	7.2	0.64	10.	0.13	1	< 2	6 2
3-2-82	0745	130	130	160	180	4.1	0.85	8.2	0.12	1	2	4 [illegible]
390004 (001)												
3-2-82	0725	--	--	--	--	3.8	0.66	7.7	0.12	1	< 2	3 8
Drainage												
3-2-82	0735	--	--	--	--	0.32	0.67	1.2	0.10	< 1	2	--

1 - Values determined in the field at time of sampling.

Allied Paper Company - Kalamazoo

Table 3 Comparison of survey results with the facility's NPDES Permit and Monthly Operating Report.

Parameter (Unit)	NPDES Permit Final Limitations		March Monthly Operating Report				Survey Results[1]
	Daily Average	Daily Maximum	Monthly Average	Monthly Maximum	3-1-82	3-2-82	
390006 (002)							
Flow (M^3/day)	--	--	1,800	2,970	1,330	2,770	1,210 (1,450, 745)
Settleable solids (ml/l)	--	--	0.05	0.05	0.05	0.05	--
(mg/l)	--	--	--	--	--	--	4 (4, 4)
Oil & Grease (visual)	No visible film		0	0	0	0	--
(mg/l)	Quantitative analysis not required		--	--	--	--	-- (2, 2)
BOD_5 (kg/day)	230	350	226	349	195	335	170
Suspended solids (kg/day)	230	350	92.1	215	37	66.2	20
pH (S.U.)	not <6.5 nor >9.5		--	7.2 min. 6.5	6.5	6.8	-- (6.7, 6.9)

1 - Survey results are for the composite sample. Grab sample ranges are shown in parentheses ( ).
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

Table 4 Comparison of the laboratory analytical results obtained by Allied Paper Company and the Environmental Protection Bureau from the split grab sample

Outfall	390006 (002)	
	Allied Paper	E.P.B.
Flow (M^3/day)	1,320	1,210
	mg/l	mg/l
Suspended solids	36	20
BOD_5	138.3	130

Table 5 Comparison of the previous survey results with the results obtained in this survey at Allied Paper Company - Kalamazoo.

Outfalls	Monroe 390006 (002)				Bryant 390005 (001)			
Survey Date From	1-26-81		3-1-82		1-26-81		3-1-82	
To	1-27-81		3-2-82		1-27-81		3-2-82	
Flow Rate (M^3/day)	2,500	0.26	1,210		5,806	1.52 MGD	5,710	
	mg/l		mg/l		mg/l	lb/d	mg/l	
Suspended solids	47	258	20		49	126	28	
Dissolved solids	590	3244	740		640	8172	720	
Settleable solids	9		4		< 2		6	
COD	110		220		180		220	
TOC	38		75		58		74	
BOD_5	62	341	140		110	1404	130	
$CBOD_5$	56		140		--		--	
Nitrite & nitrate nitrogen-N	0.08		5.0		0.83		4.3	
Ammonia nitrogen-N	< 0.01		0.96		< 0.01		0.90	
Kjeldahl nitrogen-N	4.0		9.5		4.2		7.5	
Total phosphorus-P	0.33		0.12		0.50		0.13	
	ug/l		ug/l		ug/l		ug/l	
Phenol	8		5.2		7		4.6	
Pentachlorophenol	0.58		60		--		--	

Table 6 Sample Preservation

Parameter	Preservative
COD/TOC/Phenol/Nutrients (Chlorine Absent)	5 drops conc. H_2SO_4/250 ml (to pH 2).
D.O.	Fixed on site.
Oil & Grease	10 drops conc. H_2SO_4/250 ml (to pH 2).
Acid Extractables	Dechlorinated (if needed) with sodium thiosulfate (1 drop 0.1N N/mg/l Cl_2/250 ml). 40 drops H_2SO_4/1000 ml (to pH 2).

Samples preserved as required, cooled to 4°C with chain of custody maintained.

Lab Letter Codes

NA - Analytical method has not yet been approved by laboratory.
U - Indicates material was analyzed for but not detected.

Survey by: Peter Ostlund, Environmental Engineer
William Long, Water Quality Investigator
Richard Irvin, Water Quality Technician

Contact with Management: U.G. (Les) Stoeffler
John Roth, Certified Operator

Hydrocarbon Analyses by: Environmental Protection Bureau Laboratory

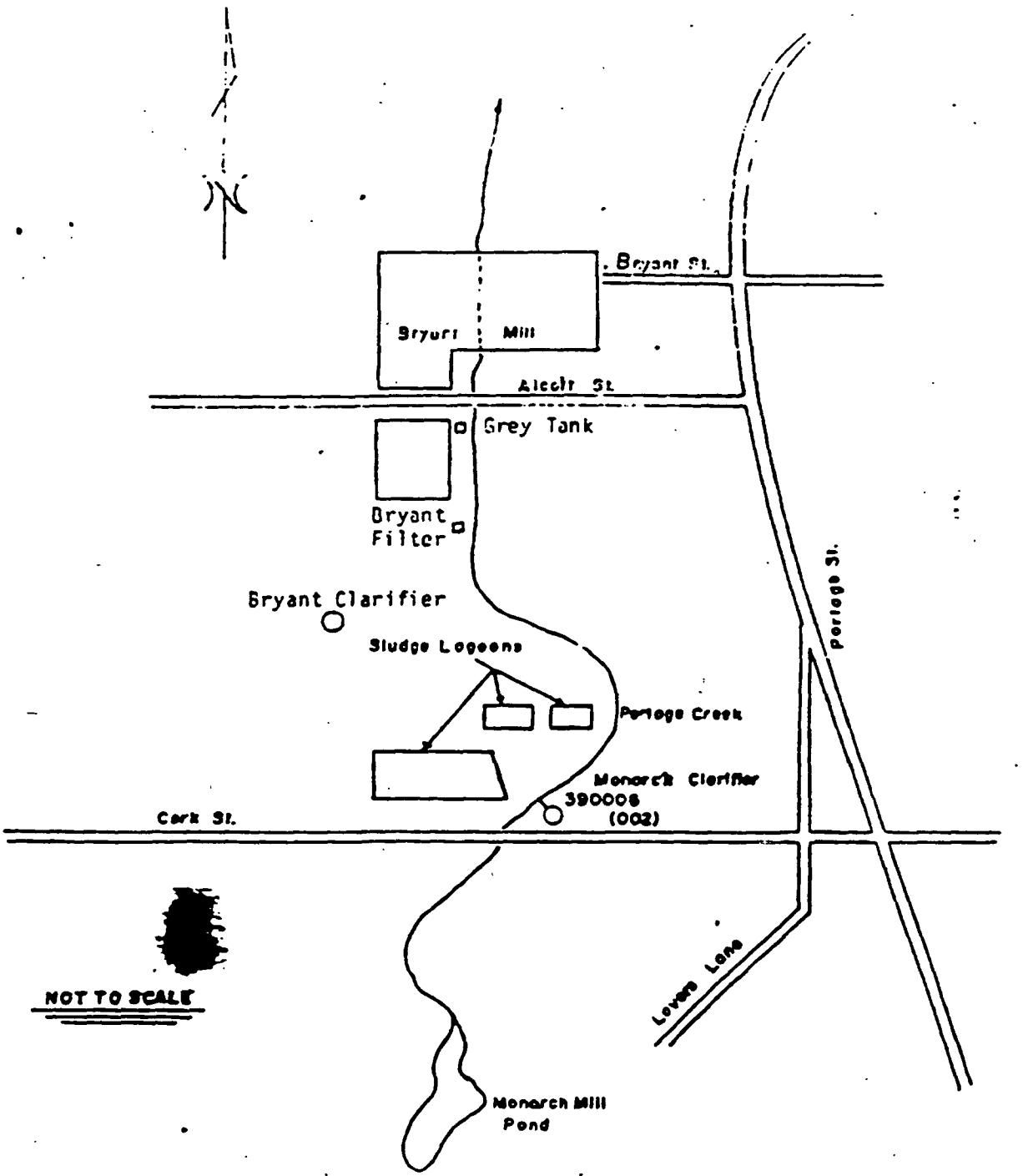
Physical, Chemical & Bacteriological Analyses by: Environmental Protection Bureau Laboratory

Report by: Peter Ostlund
William Long
Point Source Studies Section
Environmental Services Division
Environmental Protection Bureau
Michigan Dept. of Natural Resources

Distribution "A"
MM
5/17/82

FIGURE 1

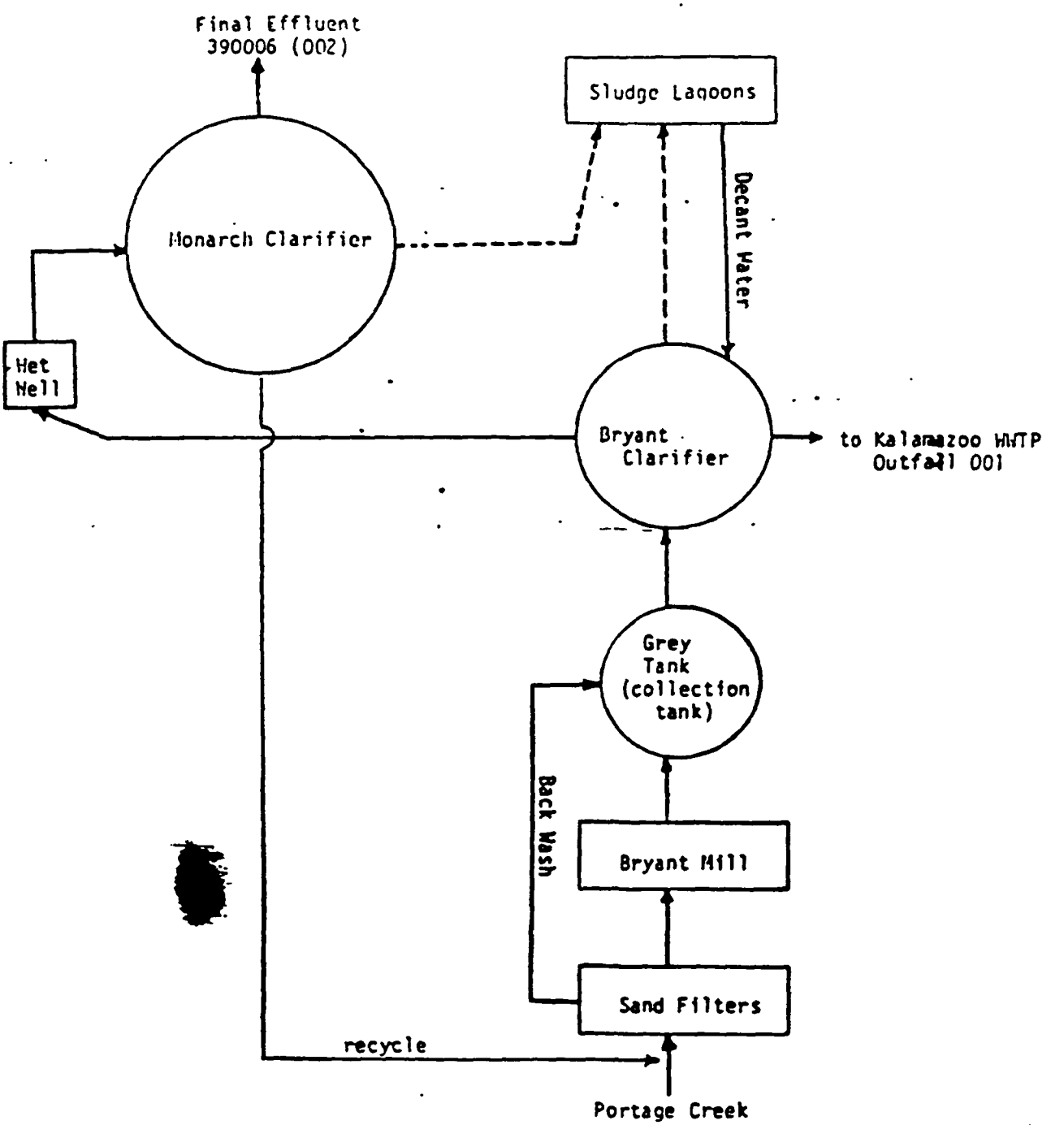
ALLIED PAPER MILLS
KALAMAZOO



TEX 9-1676
REV 36

Figure 2 Allied Paper Company - Kalamazoo

Wastewater Treatment



Appendix A

Mini Screening Test for Acute Effluent Toxicity

ALLIED PAPER COMPANY
Kalamazoo, Michigan
March 3-5, 1982

Unpreserved portions of the composite sample collected from outfall 390006 (002) was tested for acute toxicity using the macroinvertebrate *Daphnia magna*. Ten daphnids (<24 hours old) were exposed to 200 ml of undiluted effluent and control water (carbon filtered Lansing city water). The daphnids, contained in pairs of beakers, were observed at 48 hours to determine the percent immobilized (Table 1). Conditions present in test solutions at 0 and 48 hours are given in Table 2. Additional details are available upon request.

This mini screening test provides an indication of effluent toxicity at the point of discharge. The results identify possible violations of Rule 1002 (Water Quality Standards, 1973) and indicate where more extensive testing may be needed.

Table 1 Toxicity to *Daphnia magna*.

Outfall	% immobilized in 48 hours
390006 (002)	100

Table 2 Test conditions.

	Outfall 390006			
	0 hours		48 hours	
	Control	100%	Control	100%
Dissolved oxygen (mg/l)	8.5	6.3	8.4	1.8
Oxygen saturation (%)	96	70	95	20
pH (S.U.)	7.7	7.0	7.6	7.2
Temperature (°C)	20	20	20	20
Conductivity (umhos)	270	1000	270	950
Alkalinity (mg/l)	40	100	--	--
Hardness (mg/l)	84	250	--	--

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION BUREAU
POINT SOURCE MONITORING SECTION

Report of an
[redacted]
Conducted at
ALLIED PAPER
All Outfalls No. 390222
NPDES Permit No. MI0000779
Kalamazoo County
Kalamazoo, Michigan
[redacted]

Survey Summary

Wastewater monitoring was performed during one twenty-four hour survey period starting Monday, October 25, 1982.

The results of this survey met the final limitations in the facility's National Pollutant Discharge Elimination System (NPDES) Permit, No. MI0000779. (Table 3)

The survey results were compared to the plant's Monthly Operating Report (MOR) results. The results compare well except for settleable solids. (Table 3)

One grab sample from outfall 390006 (002) was split for comparison of analytical results. These results also compare well. (Table 4)

The results from this survey are presented along with those of the previous survey conducted in March 1982 in Table 5.

Special Comments

A small amount of groundwater seepage from the old Monarch Mill area was observed entering the Monarch clarifier inlet. This seepage was sampled and analyzed for organic chemicals. Only trace amounts of chlorinated hydrocarbons were detected. (Table 2)

A 96-hour flow-through bioassay was conducted encompassing the survey period. Results will be forthcoming in a separate report.

Plant Processes

The Allied Paper Corporation produces bible paper, light weight printing papers and other specialty papers at its Bryant Mill in Kalamazoo. The mill operates 5 fourdrinier paper machines and one off-machine coater. The normal production of the mill is approximately 220 tons of product per day and actual production figures are given in the appendix. The mill employs about 390 people and operates 24 hours per day, 7 days per week.

The mill uses bleached kraft pulps manufactured at other locations. Both softwood and hardwood pulps are used. Clay, titanium dioxide and calcium carbonate are used as fillers. Very small amounts of direct dyes are used for tinting some grades of paper. Rosin and alum are used for sizing. On some grades of paper small amounts of melamine formaldehyde is used to improve wet strength. No bleaching is done in the normal process of making paper.

On the coater polymeric synthetic latices and/or natural water soluble polymers are used as binders. Styrene-butadiene, vinyl acetate and acrylics are all used from time to time. Of the five paper machines three have flotation type save-alls and two have disc-type save-alls.

Water Supply, Wastewater & Treatment

Process water used at the Bryant Mill is obtained from the Portage Creek and is chlorinated and passed through sand filters prior to use. Potable water for the mill is obtained from the City of Kalamazoo. Domestic wastes are discharged to the city's sanitary sewer system. Boiler water is softened by a hot lime-soda process.

Process wastewaters from excess white water, coating machine water, filter backwash, softener backwash and boiler blowdown are discharged to the 100 ft. diameter Bryant clarifier. A polymer is added to improve settling. A portion of the Bryant clarifier effluent is discharged to the City of Kalamazoo sanitary sewer system via outfall 390004 (001). The remainder of the Bryant clarifier effluent is discharged to the 90 ft. diameter Monarch clarifier. Flow is automatically apportioned by a computerized system utilizing a total organic carbon analyzer. Some of the Monarch clarifier effluent may be recycled for process water, but this was not being done during this survey. The remaining Monarch clarifier effluent is discharged to Portage Creek via outfall 390006 (002).

Sludge from both clarifiers is pumped to drying lagoons on plant property adjacent to the clarifiers.

Survey Procedure

The flows and samples were obtained as follows:

Sampling Location	Flow Measurement	Sampling Methods
390004 (001)	Company totalizer	Automatic air activated sampler, 4 portion grab composite and individual grabs.
390006 (002)	Staff installed water level recorder on a company 36" rectangular weir.	Automatic air activated sampler, 5 portion grab composite and individual grabs.
Manhole near 002	none	Individual grab.

SA 833485

A water level recorder provides a continuous account of the liquid level or head above the crest of a weir. A head versus time graph is obtained for the duration of the survey period. The total volume of wastewater over the weir during the survey period is computed from the graph.

An automatic sampler composites samples at timed intervals. Samples may be proportional to the instantaneous flow over the weir.

Extractable organic and sulfide composite samples are collected by the grab composite method.

A grab composite consists of a series of individual grabs composited into one sample.

An individual grab is a single instantaneous sample.

Samples were analyzed by the Environmental Protection Bureau Laboratories located in Lansing.

Samples were preserved according to Table 6. The results of the physical, chemical and bacteriological analyses are presented in Tables 1 & 2. Letter codes for laboratory results are defined in Table 6.

Allied Paper Corporation - Kalamazoo

Table 1 Analyses of composite samples.

		Vigant		Monarch	
Outfalls		390004 (001)		390006 (002)	
Survey Period	From	10-25-82 @ 1527		10-25-82 @ 1255	
	To	10-26-82 @ 1527		10-26-82 @ 1255	
Computed flow rate[1] (M^3/day)		(6,990)		1,590	
		mg/l	kg/day	mg/l	kg/day
Suspended solids		34	240	25	40
Dissolved solids		580	4,100	600	1,000
Settleable solids		17	--	9	10
COD		140	980	190	300
TOC		53	370	59	94
Cyanide (Total)		< 0.005	--	0.011	0.017
Cyanide (Free)		FCN	--	FCN	--
Sulfide		< 0.02 PA	--	< 0.02 PA	--
BOD_5		84	590	100	200
Nitrite & nitrate nitrogen-N		1.3	9.1	0.64 DM	1.0
Ammonia nitrogen-N		0.12 DS	0.84	0.30 DM	0.48
Kjeldahl nitrogen-N		2.0	14	2.2	3.5
Total phosphorus-P		0.07	0.5	0.06	0.1
Chlorides		49	340	46	73
Alkalinity (as $CaCO_3$)		126	--	113	--
Hardness (as $CaCO_3$)		270	--	280	--
		ug/l		ug/l	
Phenol		4 NB	0.03	4 NB	0.006
Total cadmium (Cd)		< 20	--	< 20	--
Total chromium (Cr)		< 50	--	< 50	--
Total copper (Cu)		< 20	--	< 20	--
Total nickel (Ni)		< 50	--	< 50	--
Total lead (Pb)		< 50	--	< 50	--
Total zinc (Zn)		< 50	--	< 50	--
Total aluminum (Al)		2,800	20	< 1,000	--
Total titanium (Ti)		< 1,000	--	< 1,000	--
Chlorinated Hydrocarbons Scan					
1,2 Dichlorobenzene		1.20	0.0084	0.35	0.00056
B-Chloronaphthalene		--	--	1.20	0.0019
Hexachlorobenzene		< 0.1	--	< 0.1	--
Other Chlorinated Hydrocarbons		U (<0.1)	--	U (<0.1)	--
Phenols Scan					
Pentachlorophenol		< 10	--	< 10	--
Other Phenols		U	--	U	--

1 - Flow rates used in the computation of kg/day (obtained from company totalizer).
To obtain MGD multiply M^3/day by 0.0002642
To obtain lbs/day multiply kg/day by 2.205

033486 HS

Table 2 Analyses of grab samples.

Date	Time	Temp.[1] C	pH S.U.	Residual[1] Chlorine mg/l	Susp. solids mg/l	Diss. solids mg/l	Settle. solids mg/l	Diss. oxygen mg/l	COD mg/l	TOC mg/l	Total cyanide mg/l	Free cyanide mg/l
390001 (001)												
10-25-82	2215	20.0	7.3	U	41	570	5	--	150	54	< 0.005	FCN
10-26-82	0745	21.0	7.4	U	19	550	7	--	130	51	0.005	FCN
390006 (002)												
10-25-82	2215	20.5	7.3	U	38	590	19	1.3	190	61	0.010	FCN
10-26-82	0830	18.0	7.3	U	24	580	< 4	1.7	150	56	0.008	FCN
Manhole at 002												
10-26-82	0845	16.0	7.7	U	--	--	--	--	--	--	--	--

	Sulfide mg/l	DMS mg/l	Nitrite & nitrate nitrogen mg/l	Ammonia nitrogen mg/l	Kjeldahl nitrogen mg/l	Total phosphorus-P mg/l	Chlorides mg/l	Hardness (as $CaCO_3$) mg/l	Alkalinity (as $CaCO_3$) mg/l
390001 (001)									
10-25-82 2215	< 0.02 PA	80	0.34 DM	0.09 DM	1.8	0.08	46	280	122
10-26-82 0745	< 0.02 PA	76	1.5	< 0.05 DM	1.8	0.05	51	280	125
390006 (002)									
10-25-82 2215	< 0.02 PA	110	0.50 DM	0.05 DM	2.1	0.06	45	280	113
10-26-82 0830	< 0.02 PA	100	0.58 DM	< 0.05 DM	2.0	0.05	46	280	115

	O&G I.R. mg/l	O&G Grav. mg/l	Phenol ug/l	Total cadmium ug/l	Total chromium ug/l	Total copper ug/l	Total nickel ug/l	Total lead ug/l	Total zinc ug/l	Total aluminum ug/l	Total titanium ug/l
390001 (001)											
10-25-82 2215	2	2	4 NB	< 20	< 50	< 20	< 50	< 50	< 50	1,200	< 1,000
10-26-82 0745	1	< 2	3 NB	< 20	< 50	< 20	< 50	< 50	< 50	< 1,000	< 1,000
390006 (002)											
10-25-82 2215	2	2	3 NB	< 20	< 50	< 20	< 50	< 50	< 50	< 1,000	< 1,000
10-26-82 0830	2	< 2	3 NB	< 20	< 50	< 20	< 50	< 50	< 50	< 1,000	< 1,000

1 - Values determined in the field at time of sampling.

Allied Paper Corporation - Kalamazoo

Table 2 (continued)

		Purgeable Halocarbon Scan[2]					Purgeable[2] Aromatic Hydrocarbon Scan	Aromatic Amines
Date	Time	Chloroform ug/l	1,1,1 Trichloroethane ug/l	Bromodichloromethane ug/l	Trichloroethene ug/l	Other Purgeable Halocarbons ug/l	ug/l	ug/l
390004 (001)								
10-25-82	2215	6.00 PS	1.10	1.20	--	U (<1.00)	U (<5.00)	< 100
10-26-82	0745	5.00 PS	1.30	1.10	--	U (<1.00)	U (<5.00)	< 100
390006 (002)								
10-25-82	2215	4.00 PS	--	--	--	U (<1.00)	U (<5.00)	< 100
10-26-82	0830	3.00 PS	--	--	--	U (<1.00)	U (<5.00)	< 100
Manhole at 002								
10-26-82	0845	2.00 PS	1.30	--	1.20	U (<1.00)	U (<5.00)	--

	Chlorinated Hydrocarbon Scan			Phenols Scan		
	1,2 Dichlorobenzene ug/l	8-Chloronaphthalene ug/l	Other Chlorinated Hydrocarbons ug/l	Pentachlorophenol ug/l	Hexachlorobiphenol ug/l	Other Phenols ug/l
Manhole at 002						
10-26-82 0845	1.20	0.95	U (<0.11)	< 10	< 0.1	U

2 - The recommended maximum laboratory holding time was exceeded before analysis was completed. Because of possible sample changes, the actual level may have been higher than the reported value.

Table 3 Comparison of survey results with the facility's NPDES Permit and Monthly Operating Report.

Parameter (Unit)	NPDES Permit Final Limitations Daily Average	NPDES Permit Final Limitations Daily Maximum	October Monthly Operating Report Monthly Average	October Monthly Operating Report Monthly Maximum	10-25-82	10-26-82	Survey Results
390006 (002)							
Flow (M^3/day)	--	--	1,850	3,180	1,430	2,010	1,590
Settleable solids (mg/l)	--	--	0.05	0.05	0.05	0.05	9 (19, <4)
Oil & Grease (visual)	No visible film		0	0	0	0	--
(mg/l)	Quantitative analysis not required		--	--	--	--	(2, <2)
BOD_5 (kg/day)	230	350	207*	269*	160	177	200
Suspended solids (kg/day)	230	350	53*	115*	40	40	40
pH (S.U.)	not <8.5 nor >9.5		--	7.1 min. 6.5	6.9	7.0	(7.1, [illegible]

1 - Survey results are for the composite sample. Grab sample ranges are shown in parentheses ( ).
To obtain MGD multiply M^3/day by 0.000264
To obtain lbs/day multiply kg/day by 2.205
* - Results reported were determined using data from October 16-31 only, due to a seasonal limit change in effect from October 15 - May 15.

Table 4 Comparison of the laboratory analytical results obtained by Allied Paper - Kalamazoo and the Environmental Protection Bureau from the split grab sample.

Outfall	390006 (002)	
Sample Time & Date	10-26-82 @ 0830	
	Allied	E.P.B.
Flow[1] (M^3/day)	1,450	1,590
	mg/l	mg/l
BOD_5	100.3	100
Settleable solids	0.05	<.4
Suspended solids	30.0	24

1 - Flow reported corresponds to the 24-hour sampling period.

Table 5 Comparison of the previous survey results with the results obtained in this survey.

Outfalls	390006 (001)		390006 (002)	
Survey Date From	3-1-82	10-25-82	3-1-82	10-25-82
To	3-2-82	10-26-82	3-2-82	10-26-82
Flow Rate (M^3/day)	5,710	6,950	1,210	--
	mg/l	mg/l	mg/l	mg/l
Suspended solids	20	34	20	25
Dissolved solids	720	580	740	600
Settleable solids	--	--	4	9
COD	220	140	220	190
TOC	74	53	75	56
BOD_5	100	84	100	102
Nitrite & nitrate nitrogen-N	4.3	1.3	5.0	0.64
Ammonia nitrogen-N	0.60	0.12	0.96	0.30
Kjeldahl nitrogen-N	2.5	2.0	9.5	2.2
Total phosphorus-P	0.13	0.07	0.12	0.05

Table 6 Sample Preservation

Parameter	Preservative
COD/TOC/Phenol/Nutrients (Chlorine Absent)	5 drops conc. H_2SO_4/250 ml (to pH <2).
Cyanide	Dechlorinate if needed with sodium thiosulfate (1 drop 0.141 N/mg/l Cl_2/250 ml). 10 drops 10 N NaOH (to pH ≥12)/250 ml.
D.O.	Fixed on site.
Total Metals	2 ml 1:1 HNO_3/250 ml (to pH <2).
Oil & Grease	10 drops conc. H_2SO_4/250 ml (to pH <2).
Sulfides	10 drops 1M ZnAc/250 ml.
Base-neutral Extractables Purgeable Organics	Dechlorinated (if needed) with sodium thiosulfate (1 drop 0.141 N/mg/l Cl_2/250 ml).
Acid Extractables	Dechlorinated (if needed) with sodium thiosulfate (1 drop 0.141 N/mg/l Cl_2/250 ml). 40 drops H_2SO_4/1000 ml (to pH <2).

Samples preserved as required, cooled to 4°C with chain of custody maintained.

Lab Letter Codes

PS - Possible interference may have affected the accuracy of the lab result.
U - Indicates material was analyzed for but not detected.
FC% - Free cyanide was not analyzed due to low level of total cyanide found. By definition, the free cyanide would be less than or equal to total cyanide.
PB - High absorbance of the sample reagent blank may have affected the precision of the reported result.
DS - Sample was diluted due to other high values on a multi-channel analytical system.
NS - Analytical method has not been approved for routine use. Due to possible low recovery, the actual level may have been higher than the reported value.
DM - Sample was diluted to reduce possible matrix interference.

Survey by: Martin Rock, Environmental Engineer
Elizabeth Browne, Water Quality Technician
Edward Hamilton, Water Quality Technician

Contact with Management: Les Stoeffler

Laboratory Analyses by: Environmental Protection Bureau Laboratory

Report by: Martin Rock
Elizabeth Browne
Point Source Monitoring Section
Surface Water Quality Division
Environmental Protection Bureau
Michigan Department of Natural Resources

Distribution "A"
MM
12/22/82

SR 033489

FIGURE 1

ALLIED PAPER MILLS
KALAMAZOO

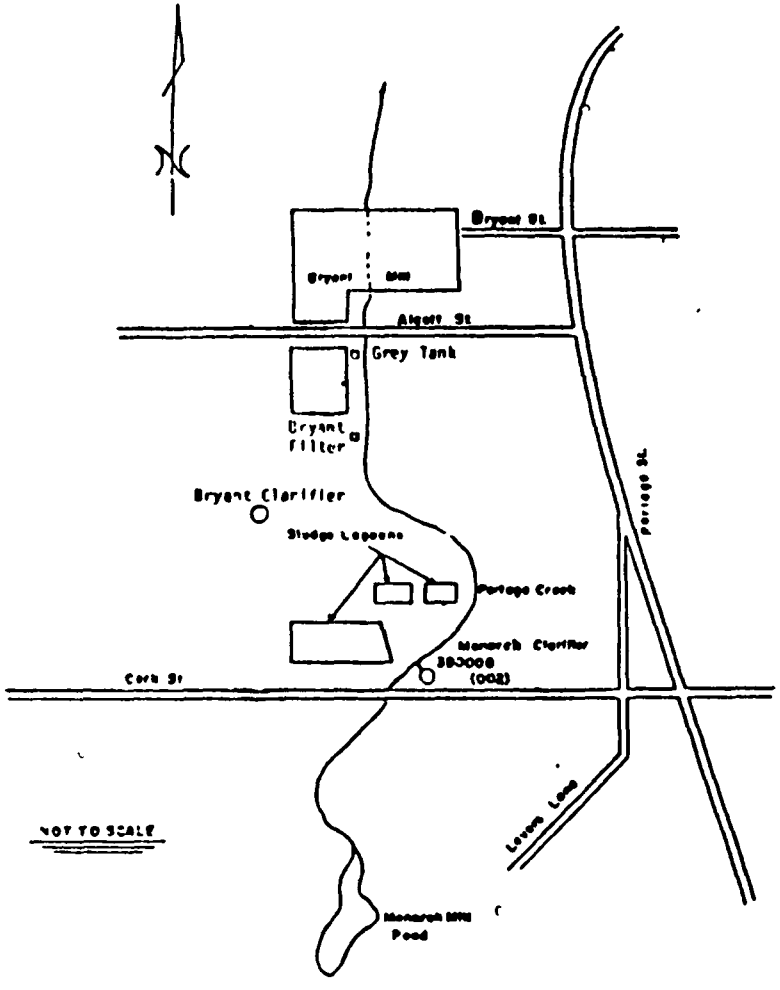
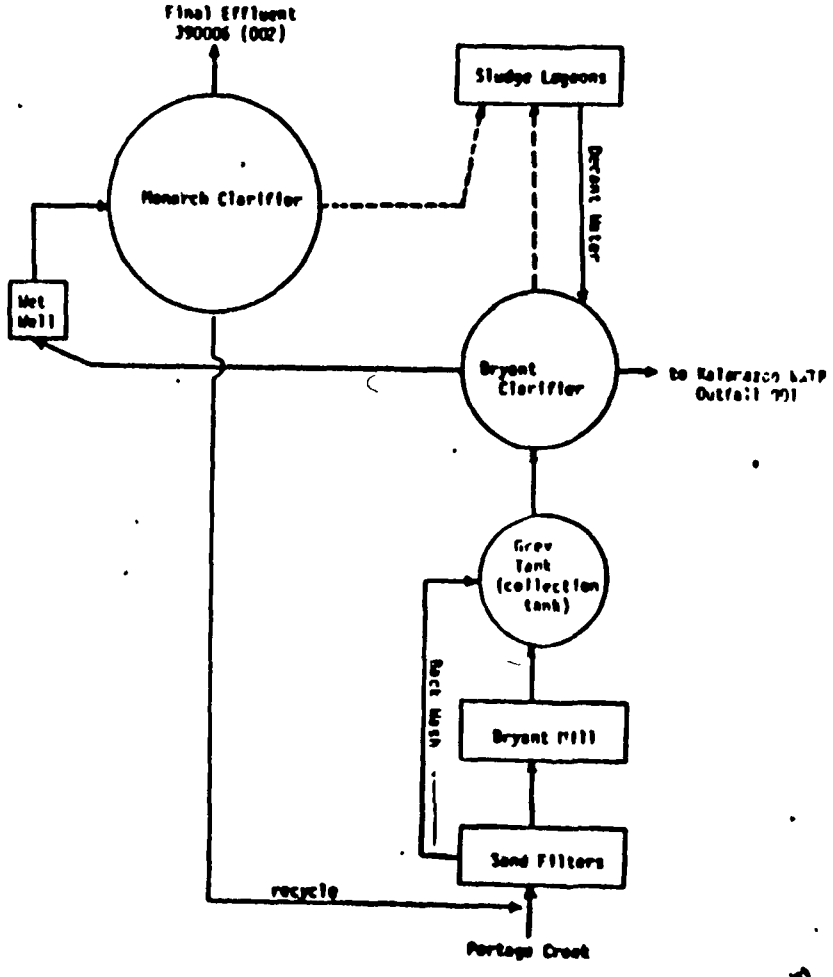


Figure 2 Allied Paper Company - Kalamazoo

Wastewater Treatment



03490 US

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Scan 1 Purgeable Halocarbons

1-Bromo-3-chloropropane
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroform
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethene
1,2-Dichloropropane
Methylene chloride (methyl chl
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene

none Scan 2 Purgeable Aromatic Hydrocarbons

Benzene
Ethylbenzene
Toluene
Styrene
Xylene isomers

6% Scan 3 Chlorinated Hydrocarbons

3A	3B
Hexachlorobenzene	*2-Chloronaphthalene.
Hexachlorocyclopentadiene	*1,2-Dichlorobenzene
Hexachlorobutadiene	*1,3-Dichlorobenzene
*Mirex	*1,4-Dichlorobenzene
Octachlorocyclopentene	*Hexachloroethane
Pentachloronitrobenzene	*1,2,4-Trichlorobenzene

6% Scan 4 Polychlorinated Biphenyl & Organochlorine Pesticides

Arochlor 1016
Arochlor 1221
Arochlor 1232
Arochlor 1242
Arochlor 1248
Arochlor 1254
Arochlor 1260
Arochlor 1262
Aldrin
Chlordane
DDD
DDE
DDT
Heptachlor
Heptachlor epoxide
Hexabromobenzene
Lindane
Methoxychlor

6% Scan 5 Brominated Hydrocarbons

Hexabromobiphenyl (PBB) Spike 6A

15,50 Scan 6 Phthalate Esters & Polar Pesticides

Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate
Di-N-butyl phthalate
Diethyl phthalate
Di-N-octyl phthalate
Dieldrin
Endosulfan I
Endrin

none Scan 7 Polynuclear Aromatic Hydrocarbons

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(ghi)perylene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

none Scan 8 Phenols
acid extraction

*2-Chlorophenol
*4-Chloro-3-methylphenol
2,4-Dichlorophenol
*2,4-Dimethylphenol
*2,4-Dinitrophenol
*2-Methyl-4,6-dinitrophenol
*2-Nitrophenol
*4-Nitrophenol
Pentachlorophenol
*Phenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol

none Scan 9 Aromatic Amines

*Curene (4,4'-Methylene(bis)2-chloroaniline)
*3,3'-Dichlorobenzidine

* Compounds added to scan since 1/82 revision

ENVIRONMENTAL PROTECTION AGENCY
SURVEY FORM
PULP, PAPER, AND PAPERBOARD INDUSTRY

NON-INTEGRATED MILLS
PART II

I. MILL BACKGROUND DATA

A. **Mill & Division Name:** Bryant Division - Allied Paper, Inc.

Address: 2030 Portage St., Kalamazoo, MI **ZIP:** 49001

Telephone: 616 / 345-7131

Corporate Affiliation (if applicable) SCM Corporation

Contacts and Title: **(Use an asterisk next to the responsible personnel completing the survey form)**

E. J. Gilman	Vice President, Operations
*U. G. Stoeffler	Manager, Process Development

B. **Age of Mill**

1-2. **DELETED - ANSWERED IN PART I**

II. PRODUCTION INFORMATION

3-23. **DELETED - ANSWERED IN PART I**

III. PROCESS RAW MATERIALS

24-164. **DELETED - ANSWERED IN PART I**

000012

SH 030370

Mill: Bryant Location: Kalamazoo, MI

IV. MANUFACTURING PROCESS AND INTERNAL POLLUTION CONTROL PRACTICES

A. General

165. Give the typical production days per year 260

166. High level alarms - do chemical and stock tanks have operable high level alarms to prevent spills?

(a) Yes

(b) No

(c) To the extent possible

Explanation (if needed) On recent installations

167. pH or conductivity monitor of internal sewers - Do sewers have such devices to detect or divert spills?

(a) Yes

(b) No

(c) To the extent possible

Explanation (if needed) _____

168-181. Is the cooling water collected and reused from the following locations: Indicate answer using one of the following responses: (a) Yes; (b) No; (c) Seasonal; (d) To Extent Possible; (e) Not Applicable.

	a	b	c	d	e
168. Air Compressor Cooling Water		x			
169. Dryer Drainage Condensate Cooling				x	
170. Lube Oil Cooling		x			
171. Calendar Cooling Heat Exchangers					x
172. Rewinder Brake Cooling				x	

SA 030371

Mill: Bryant Location: Kalamazoo, MI

(a) Yes; (b) No; (c) Seasonal; (d) To Extent Possible; (e) Not Applicable

	a	b	c	d	e
173. Paper Machine Clutch Cooling					x
174. Cooling in Power Plant		x			
175. Feed Water Pump Bearings		x			
176. Power Plant I.D. Fan Bearings					x
177. Other Bearing Cooling		x			
178. Refiner Cooling		x			
179. Motor Control Center Cooling					x
180. Water Chiller					x
181. Air Conditioning					x

B. Paper Mill

182-184. DELETED - ANSWERED IN PART I

SA 330572

185-193. Please fill in the appropriate answers for each of your mill's paper machines. If you feel any answers require an explanation to assist in the proper analysis of each of the questions shown, please attach a sheet with the explanation(s). Be sure to correctly identify which question and which paper machine the explanation is for.

	Paper Machine																	
	#1		#2		#3		#4		#5		#6		#7		#8		#9	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
185. Is felt vacuum pump water reused?										X		X		X		X		X
186. White water showers - Are White water showers used on the paper machine for such purposes as wire cleaning or knock off showers?									X		X		X		X		X	
187. Reuse press effluent - Is the press effluent reused?										X		X		X		X		X
188. White water for vacuum pump sealing - Is white water used for vacuum pump sealing?									X		X		X		X		X	
189. White water storage for upsets and pulper dilution - Is excess white water, overflows from the main white water tank or the cloudy side of the saveall saved in a white water storage tank of sufficient size for charging and dilution at the pulpers?									X		X		X		X		X	
190. Does the mill have either four stages of cleaning or three stages of cleaning with elutriation in the paper mill?									X		X		X		X		X	
191. High pressure showers - Are high pressure showers (above 250 psig) used on the paper machine for wire cleaning?										X		X		X		X		X

	Paper Machine																			
	#1		#2		#3		#4		#5		#6		#7		#8		#9		#10	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
*192. High pressure showers - Are high pressure showers (above 250 psig) used on the paper machine for felt cleaning?										X		X		X		X				
**193. Is individual machine slush broke storall adequate to contain total machine production of stock (at couch) for a 30 minute period?										X		X		X		X		X		

* No felt showers

** Couch pit slush broke is continuously pumped to fiber recovery system so 30 min. storage is not needed.

Mill: Bryant Location: Kalamazoo, MI

194. Does the mill have a stock spill collection system, prior to external treatment facilities?

(a) Yes

(b) No

(c) Partial

195. If the answer to the preceding question is (a), describe the collection system's function.

(a) Collected and discharged to the sewer at a controlled rate

(b) Collected and reused in the process

(c) Other (please describe) _____

196. Give the frequency of waste significant grade changes; also, if possible, give the stock quantity sewered.

10 @ 600# each

197. Is the mill central storage of white water (a) and slush broke (b) adequate with regard to effluent discharge?

a. White Water

(a) Yes

(b) No

(c) To the extent possible

(Explanation, if needed) _____

b. Slush Broke

(a) Yes

(b) No

(c) To the extent possible

(Explanation, if needed) _____

SA 030375

Mill: Bryant Location: Kalamazoo, MI

198. Are special provisions made for spills, screen rejects, and excess materials from coating or sizing systems?

(a) Yes

(b) No

(c) Limited

199. Does the mill employ organic solvent coating or saturating operations?

(a) Yes

(b) No

200. If yes, please give the type and quantities (lbs/day) of organic solvent used.

_____

_____

201. Give the average daily organic solvent coated or saturated paper produced.

_____ tons/day

5A 030578

Mill: Bryant Location: Kalamazoo, MI

202. Please indicate effluent from the combined papermachine facilities as follows: (i.e., total flow from all machines)

Waste Source	Volume GPM		Suspended Solids (if applicable) lbs/day
a. Centricleaner and machine screen rejects	80		9724
b. Couch pit, seal box, and any other unclarified whitewater overflows	very little		very little
c. Thick stock spills, dumps, washups from stock preparation area and machine	very little	gal/day	very little
d. Excess clarified whitewater	749		3,395
e. Cloudy water from vacuum systems, or pump sealing applications	314		5,040
f. Clear water discharges i.e., cooling services, condensate, other non-process services	268		0
g. Other effluent sources not included above	226		3,060
h. Total papermill effluent	1,637		21,219

i. Is (f) discharged via process sewer or separately? (Circle answer)

(YES) NO

"Yes" answer means (f) discharged via process sewer

Additional Information

203. Does the mill have a program for disposal of old electrical transformers?

(a) Yes

(b) No

204. Please give the number of people employed at your mill. 344

SA 030377

Mill: Bryant Location: Kalamazoo, MI

V. WATER USAGE AND EFFLUENT TREATMENT PRACTICES

Instructions for Completing Section V

Section V requests information on the mill's wastewater treatment practices. In Section VIII a general schematic of the effluent treatment system is requested. You have the option of providing any of the data requested in Section V on the schematic. If you do this, please indicate on the question(s) involved that the data is presented on the schematic.

A. Water Usage

205. Indicate the source and amount of process water.

(a) Surface (i.e., river, lake or reservoir) 2.570 MGD

(b) Groundwater _____ MGD

(c) Other (please describe) _____ _____ MGD

206. Does the quality of the raw water limit the reuse of water in this mill?

(a) Yes - explain _____

_____

(b) No

207. Indicate the source and amount of the mill's cooling water.

(a) Surface 1.083 MGD

(b) Groundwater _____ MGD

(c) Other (please describe) _____ _____ MGD

208. Indicate the source and amount of the mill's boiler feed water.

(a) Surface 0.10 MGD

(b) Groundwater _____ MGD

(c) Other (please describe) _____ _____ MGD

3A 000378

Mill: Bryant Location: Kalamazoo, MI

209. Describe treatment used for boiler feed water conditioning.

Softner is the hot lime, soda ash, caustic and phosphate type.

210. Give the disposal method now employed for boiler blowdown water.

(a) Sewered to treatment plant

(b) Directly discharged

(c) Directly discharged with pH adjustment

(d) Directly discharged after cooling

(e) Other (please describe) _____

B. Background Data

211-212. DELETED - ANSWERED IN PART I

213. How is cooling water disposed?

(a) Separate discharge to receiving stream.

(b) Combined with process waters before treatment.

(c) Combined with treated process waters.

(d) Recycled.

C. Indirect Discharger please provide the following information:

* 214. Name and location of POTW which handles your wastewater.

Kalamazoo Municipal Waste Treatment plant

215-216. DELETED - ANSWERED IN PART I

217. Are there specific pretreatment requirements of limits upon pollutant parameters imposed by the POTW system to which you discharge?

(a) Yes

(b) No

* As noted in Part I, part of effluent from Bryant Clarifier is discharged to a POTW and part to the influent of Monarch Clarifier as shown in "I" Process Schematic. However, for this portion of the survey the Bryant Division is considered an indirect discharger.

SA 030379

Mill: Bryant Location: Kalamazoo, MI

218. If the answer to the preceding question was (a), please list the specific pretreatment requirements or pollutant parameter limits imposed on your mill by the POTW.

Primary settling

219. DELETED - ANSWERED IN PART I

220. If neutralization is practiced, fill in the following. N.A.

Chemical used _____

221. DELETED - ANSWERED IN PART I

222. Are any chemicals or other settling aids added to the primary treatment units?

(a) Yes

(b) No

(c) To the extent necessary (intermittent)

223. Please show the wastewater streams which enter the secondary treatment system (if applicable). N.A.

	Process Source or Sewer No.*		Flow, MGD	BOD, lb/D	TSS, lb/D
a.	Design Values	Average Day			
		Maximum Day			
		Maximum Month			
b.	Primary Treatment Effluent	Average Day			
		Maximum Day			
		Maximum Month			
c.	Other	Average Day			
	_____	Maximum Day			
		Maximum Month			

*Process source or sewer number should be keyed to the mill process and wastewater treatment schematics requested in Section VIII.

5H 030380

Mill: Bryant Location: Kalamazoo, MI

224. Give the normal pH of the wastewater at the influent to the secondary treatment system. N.A.

(a) 4-6

(b) 6-8

(c) 8-10

225. DELETED - ANSWERED IN PART I

D. Direct Discharger please provide the following information: N.A.

226. Name of effluent discharge receiving water

_____

227. Enclose a copy of current or proposed NPDES effluent discharge limits. N.A.

228. DELETED - ANSWERED IN PART I

229. If wastewater discharge is seasonal or intermittant non-continuous, approximately how many days out of the year do you discharge to the receiving water. N.A.

(a) Less than 30

(b) 31-90

(c) 91-120

(d) 121-180

(e) 181-210

(f) 211-240

(g) 241-270

(h) 271-300

(i) 301-330

(j) 331-360

E. Preliminary Treatment

230. DELETED - ANSWERED IN PART I

231. If neutralization is practiced, fill in the following: N.A.

Chemical used _____

58 03038

Mill: Bryant Location: Kalamazoo, MI

F. Primary Treatment

232. DELETED - ANSWERED IN PART I

233. Are any chemicals or other settling aids added to the primary treatment units?

(a) Yes

(b) No

(c) To the extent necessary (intermittent).

G. Biological Treatment N.A.

234. Provide the following information for the biological treatment system (if applicable).

	Process Source or Sewer No.*		Flow, MGD	BOD, lb/D	TSS, lb/D
	Design Influent Values	Average Day			
		Maximum Day			
		Maximum Month			
b.	Primary Treatment Effluent	Average Day			
		Maximum Day			
		Maximum Month			

Other Wastewater Streams Which Enter the Biological Treatment Systems Without Primary Treatment

c.		Average Day			
		Maximum Day			
		Maximum Month			
d.		Average Day			
		Maximum Day			
		Maximum Month			

*Process source or sewer number should be keyed to the mill process and wastewater treatment schematics requested in Section VIII.

SH 83038

Mill: Bryant Location: Kalamazoo, MI

235. Give the normal pH of the wastewater at the influent to the secondary treatment system. N.A.

(a) 4-6

(b) 6-8

(c) 8-10

236. DELETED - ANSWERED IN PART I

H. Secondary Solids Removal

237-238. DELETED - ANSWERED IN PART I

I. Spray Irrigation

239. Is treated wastewater used for irrigation? N.A.

(a) Yes

(b) No

(c) Partial

J. Sludge Handling and Disposal

240. DELETED - ANSWERED IN PART I

241. Give the percent solids of the sludge after dewatering and prior to disposal.

(a) 5-10%

(b) 10-20%

(c) 20-30%

(d) 30-40%

(e) above 40%

242. Describe any leachate management practices performed at the mill for sludges which are disposed of on land.

Nature of sludge seals the lagoon bottom and sides area. Therefore, no leachate management is necessary.

5H 0303

Mill: Bryant Location: Kalamazoo, MI

K. Foam Control - (Wastewater treatment system only)

243. Does the mill use foam control measures?

(a) Chemical

(b) Physical Methods

(c) None

(d) Other - explain _____

SA 03033

Mill: Bryant Location: Kalamazoo, MI

L. Cost Information

244. Provide cost data indicated for effluent treatment system in 1976 dollars. Use the cost multiplier factors, which follow, to convert to 1976 dollars.

		Total Capital Cost	Annual Operation and Maintenance Cost*
a.	Internal control devoted to effluent waste load reduction.	$678,300	$86,500
b.	External Treatment System		$74,050
c.	Primary Treatment	$420,800	
d.	Secondary Treatment	$ 91,000	

Construction Cost Multipliers
to Convert Capital Cost to 1976 Dollars

1956 =	2.535	1963 =	2.186	1969 =	1.794
1957 =	2.380	1964 =	2.161	1970 =	1.689
1958 =	2.325	1965 =	2.124	1971 =	1.564
1959 =	2.254	1966 =	2.051	1972 =	1.485
1960 =	2.220	1967 =	1.978	1973 =	1.317
1961 =	2.220	1968 =	1.884	1974 =	1.242
1962 =	2.207			1975 =	1.100

*Factors to be considered in Annual Operation and Maintenance Costs (O & M Costs).

1. Manpower - both operators and maintenance personnel
2. Contracted services
3. Energy Cost
4. Trucks for hauling
5. Nutrients
6. Leased equipment
7. Disposal costs
8. Sludge handling
9. Sampling and analysis
10. Equipment replacement (except major capital)

Exclude Depreciation

* Computer-TOC Analyzer Control System installed in 1977 as applies to Bryant Division.

SA 030355

Mill: Bryant Location: Kalamazoo, MI

245. For mills which discharge to a POTW, please give the annual user fee with a breakdown for capital cost recovery and operation and maintenance costs.

a. Capital Cost Recovery(if available) N.A.

b. Operation and Maintenance (if available) N.A.

c. Total Annual User Fee $ 109,237.97

*July-Dec. 31, 1977 $ 92,023.26

246. Please give the basis used by the POTW to determine the mill's user fee.

(a) Flow only

(b) BOD only

(c) TSS only

(d) Combination of parameters (please indicate) _____

(e) Unknown

M. Site Conditions and Availability of Land

247. Is there sufficient land for expansion of your wastewater treatment system for BATEA?

(a) Yes

(b) No

(c) Unknown

248. Can the mill purchase land from adjoining property owners for possible expansion of the wastewater treatment system?

(a) Yes

(b) No

(c) Unknown

* 1977 user cost to reflect additional cost with reduced BOD limitations as of July 1, 1977.

SA 030386

Mill: Bryant Location: Kalamazoo, MI

249. Are the soil conditions in the land available for future expansion of such a quality as to require special construction methods or special facility equipment (i.e., ledge, water table and liners needed for basins)?

(a) Yes

(b) No

(c) Unknown

250. Miscellaneous Discharges - Indicate any wastewater discharges not described in Section V which do not flow to the wastewater treatment system.

Process water sand filter's backwash water

N. Wastewater Characteristics

251-254. DELETED - ANSWERED IN PART I

255. Was the analysis procedure used for BOD measurement in accord with the method presented in Standard Methods for the Examination of Water and Wastewater?

(a) 13th Edition

(b) 14th Edition

(c) No (please describe other method used) NCASI

256. Is a glucose-glutamic acid BOD standard analyzed?

(a) Yes

(b) No as applies to 1976 analysis procedures

SH 030337

AMERICAN PAPER INSTITUTE
RAW MATERIALS AND ENERGY DIVISION
260 Madison Avenue New York, N.Y. 10016

CONFIDENTIAL
MONTHLY FUEL AND ENERGY REPORT

Company: _____

Mill Location: _____

Month, Year: _____
(If this is a "period" mill, the period reported is from _____ mo./day through _____ mo./day.)

Mill Reference NO.: _____ FOR API USE ONLY
Region: _____

1. Monthly Fuel and Energy Consumption Data

For each energy source used in the month, please enter to the nearest tenth information in the way you monitor it most accurately. For example, in the case of fuel oil, you would probably enter thousands of barrels. But in the case of bark, you would probably enter Billion BTU's as fired--obtained by applying the bark boiler's rated or estimated efficiency to its metered steam output. Then apply the BTU conversion factor you believe to be most accurate for your operation to compute either Billions of BTU's as in the first case, or weight of fuel at the specified moisture content as in the second case. (See list of average BTU values of nominated fuels, over.) Limit reporting to energy used within the mill fence line, thereby excluding energy used in wood harvesting, transportation and converting operations.

FUEL	UNITS	ACTUAL USE	CONVERSION FACTOR	BILLION BTU's as FIRED
Purchased Fossil Fuel & Energy				
1. Purchased Electricity	Millions KWH		X 3.4 =	
2. Purchased Steam	Millions lbs.		X =	
3. Coal	Thousands Short Tons		X =	
4. Residual Fuel Oil (#5,6)	Thousands 42 Gal. Bbls.		X =	
5. Distillate Fuel Oil (#2)	Thousands 42 Gal. Bbls.		X =	
6. Liquid Propane Gas (L.P.G.)	Thousands Gallons		X =	
7. Natural Gas	Millions Cu. Ft.		X =	
8. Other (specify)			X =	
9. Other (specify)			X =	
10. LESS ENERGY SOLD:				
SUB TOTAL [A] (1 to 9 less 10:)				
Self Generated and Waste Fuels				
11. Hogged Fuel: (Wood & Bark)	Thous. Short Tons (50% moisture content)		X =	
12. Bark: (Enter separately, if available, bark obtained in debarking of pulpwood)	Thous. Short Tons (50% moisture content)		X =	
13. Municipal Waste	Thous. Short Tons (50% moisture content)		X =	
14. Spent Liquor (oven dry basis)	Thousands Short Tons of Solids		X =	
15. Self-Generated Hydroelectric Power	Millions KWH		X 3.4 =	
16. Other (specify)			X =	
17. Other (specify			X =	
SUB TOTAL [B] (11 to 17):				
GRAND TOTAL [C] (A+B):				

Total in Plant Electric Generation: _____ Million KWH
(Calculate separately from above totals)

II. Monthly Production Data

Please enter production for the month in thousands of short tons, to the nearest tenth. Mills which use both their own and purchased pulp will enter separate data for "Integrated Paper and Paperboard" and "Nonintegrated Paper and Paperboard."

1. Pulp (dried and wet lap): Report dried and wet lap pulp (reported on a dried basis).

2. Integrated Paper and Paperboard: Report primary product (excluding converted products) manufactured from on-site pulp production, as normally measured.

3. Nonintegrated Paper and Paperboard: Report primary product (excluding converted products) manufactured from off-site pulp production and/or waste paper, as normally measured.

(thousand short tons)

1. Pulp (dried and wet lap on dried basis): _____

2. Integrated Paper & Paperboard: _____

3. Nonintegrated Paper & Paperboard: _____

4. TOTAL PRODUCTION [D]: _____

III. Please compute millions of BTU's used per ton of output for both "Subtotal BTU's from Purchased Fossil Fuel and Energy" and "Grand Total BTU's."

1. Purchased Energy Per Ton

$$\frac{\text{Subtotal } [A]}{\text{Total } [D]} = \_\_\_\_\_ \text{ million BTU's/ton}$$

2. Total Energy Per Ton

$$\frac{\text{Grand Total } [C]}{\text{Total } [D]} = \_\_\_\_\_ \text{ million BTU's/ton}$$

IV. Explanation of month to month changes in energy use:

1) If the mill's energy use per unit of output (either purchased and/or total) for this month varied 25% or more from that in the previous month, please explain:

_____

_____

2) Has this mill put into operation during this month additional equipment for effluent and emission control?

YES_____ NO_____

If yes, what net additional energy will this additional equipment require in a full month at current operating rates?

Steam:_____Million lbs. Electricity:_____Millions KWH (Calculate on basis of additional horsepower to be used)

V. The average temperature of incoming water for the month was_____degrees fahrenheit.

Suggested Average Conversion Factors To Obtain Billion BTU's (Question I)

Purchased Steam (No condensate return)	1.3	Hogged Fuel	7.7 (50% moisture content)
Purchased Steam (Condensate return)	1.1	Bark	9.0 (50% moisture content)
Coal	26.2	Spent Liquor	13.4
Residual Fuel Oil	6.3		
Distillate Fuel Oil	6.0		
L.P.G.	0.092		
Natural Gas	1.03		

Please return by the 21st of the following month to:
American Paper Institute
Raw Materials and Energy Division
260 Madison Avenue
New York, N.Y. 10016
Tel. (212) 883-8087

Name: _____

Signature: _____

Telephone: ( ) _____

Date: _____

JRD
June 1976

Mill: Bryant Location: Kalamazoo, MI

257. If the answer to the preceding question was (a), please indicate the normal frequency of the analysis. N.A.

(a) Daily

(b) Weekly

(c) Monthly

(d) Quarterly

(e) Semi-annual

258. Please indicate the average percent difference found between the BOD determinations and the glucose-glutamic acid BOD standard. N.A.

(a) 0-5%

(b) 5-10%

(c) 10-15%

(d) 15-20%

(e) Over 20%

259. Indicate the analysis procedure used for TSS determination at the mill.

(a) Standard Methods for the Examination of Water and Wastewater, 13th and/or 14th Edition.

(b) EPA analysis procedure adopted on October 16, 1973, and any subsequent amendments.

(c) Other (please describe) Same as (a) with a modification of filtering media

SA 030390

Mill: Bryant Location: Kalamazoo, MI

VI. FUEL AND ENERGY

A copy of the API "Monthly Fuel and Energy Report" has been included in this section to assist the mill in calculating (if information is not already available) the answer(s) to the questions asked. The API sheets should be used as a guide for computation only, do not return the pages with the questionnaire.

260. Give the total purchased energy (fossil fuel, electricity, steam, etc.) as equivalent millions BTU/ton of product (Items 1 to 9, less 10 from API forms).

26.6

261. Give the energy used for external treatment operations as equivalent KWHr/ton of product.

None

SA 030391

Mill: Bryant Location: Kalamazoo, MI

VIII. PROCESS SCHEMATICS

Attach separate general block diagrams for the three items listed below.

A. Water Treatment (if applicable) - Provide a general block diagram showing the water treatment system used, chemical application points, average flow, and disposal method for backwash water. If the mill has a raw water analysis available please attach a copy.

B. Manufacturing Process Schematic - Provide a general schematic of the total mill process to include water balance and all process wastewater streams. (See note at start of Section V.) Wastewater streams should be cross referenced to the effluent treatment system schematic.

C. Effluent Treatment System - Provide a general schematic of the effluent treatment system. Please key the diagram to the manufacturing process block diagram so that the point of influent to the treatment system for individual process sewers can be determined. Also show all chemical application points; chemicals used; flow monitoring and sampling points; average flow; size or area, volume, and number of each treatment system component; sludge recycle and volume; and sludge dewatering/thickening system.

Additional information on the mill's wastewater treatment system is also needed to complete the data request. Please provide answers to the following questions which pertain to your wastewater treatment system. For questions which do not apply, indicate by writing N/A (not applicable) on the space provided for the answer.

Primary Treatment

262. Give the following primary clarifier overflow rates:

a. Design 764 gpd/ft^2 at 6.000 MGD

b. Current 322 gpd/ft^2 at 2.532 MGD

SA 030392

Mill: Bryant Location: Kalamazoo, MI

Biological System N.A.

263-268. For the biological system employed, please give answers to the appropriate questions listed below:

	System	Question	Answer	
263.	Aerated Stabilization Basin	a) Volume of the aeration zone	_____	Mil. Gal.
		b) Connected horsepower for aeration	_____	
264.	Activated Sludge	a) Volume of the aeration zone	_____	Mil. Gal.
		b) Connected horsepower for aeration	_____	
		c) MLSS (Mixed Liquor Suspended Solids)	_____	
265.	Trickling Filer	a) Volume of media	_____	
		b) Surface area of filter	_____	ft^2
266.	RBC	a) Surface area of RBC	_____	ft^2
267.	Post Storage	a) Volume of storage	_____	Mil. Gal.

268. If nutrient addition is used, please give the average BOD:N:P ratio.

BOD:N:P ___:_:_

Secondary Solids Removal N.A.

269. Give the secondary clarifier overflow rates:

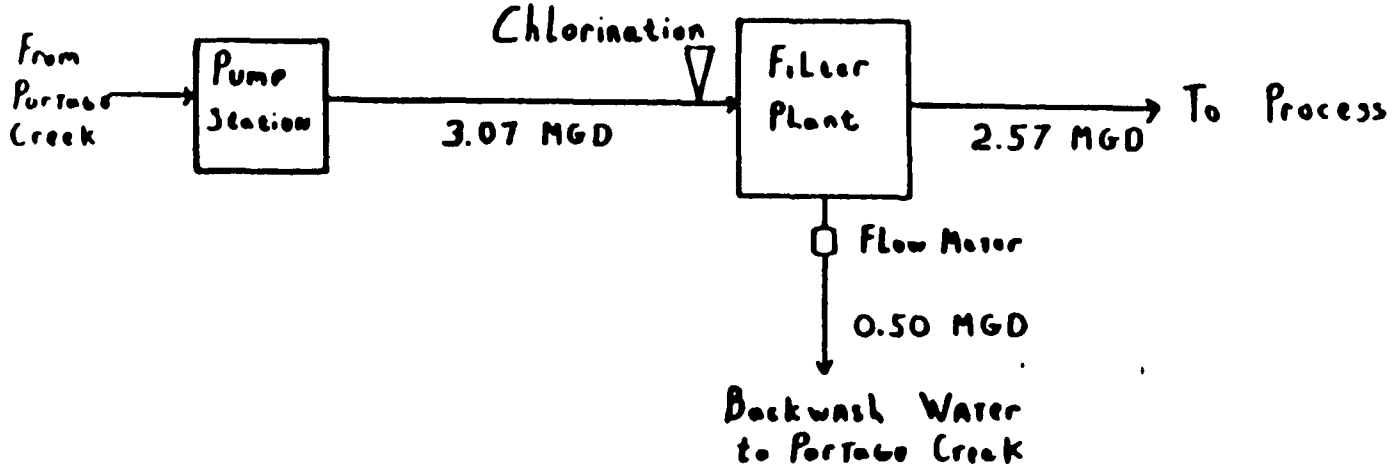
a. Design _____ gpd/ft^2 at _____ MGD

b. Current _____ gpd/ft^2 at _____ MGD

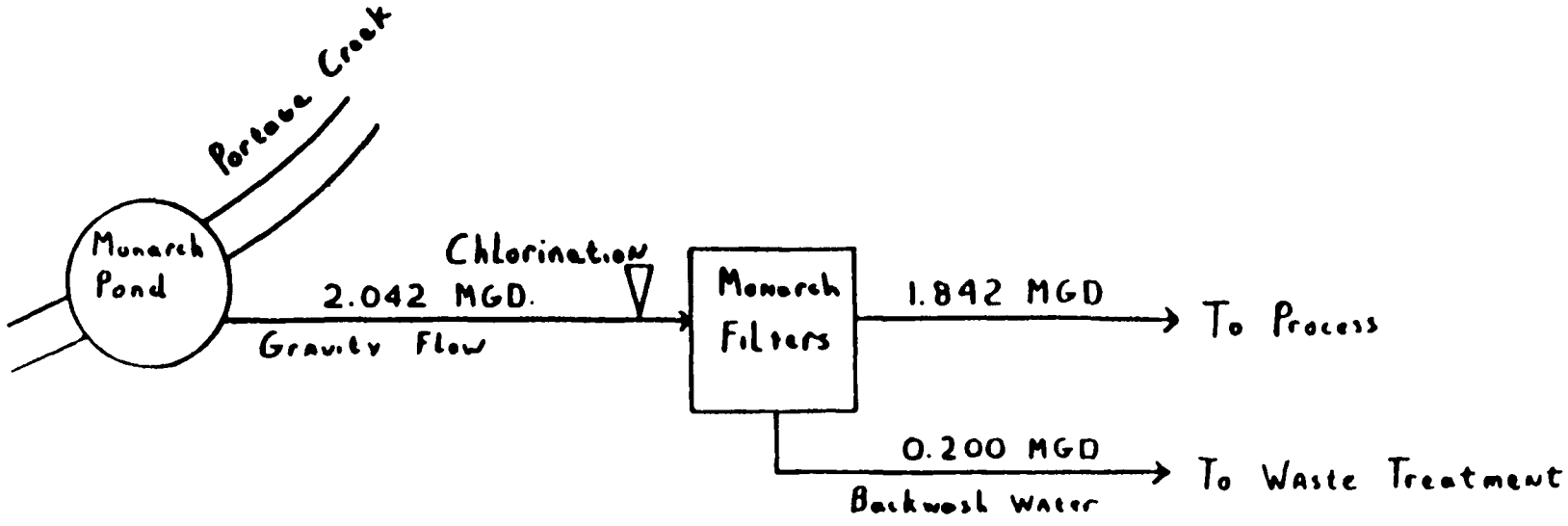
SH 030393

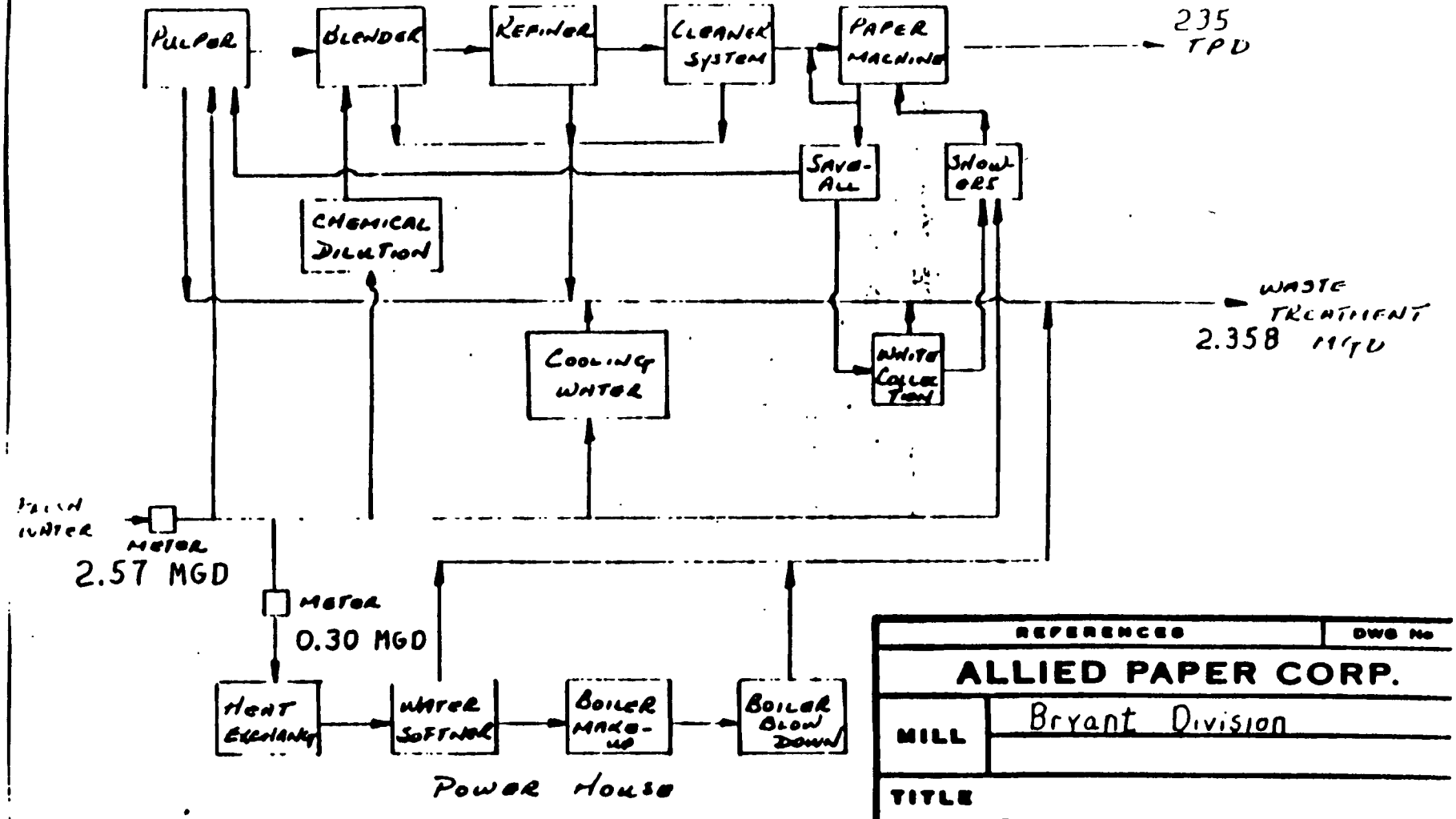
ALLIED'S WATER TREATMENT FLOW SCHEMATIC

Bryant's System



Monarch's System





REFERENCES	DWG No

ALLIED PAPER CORP.

MILL: Bryant Division

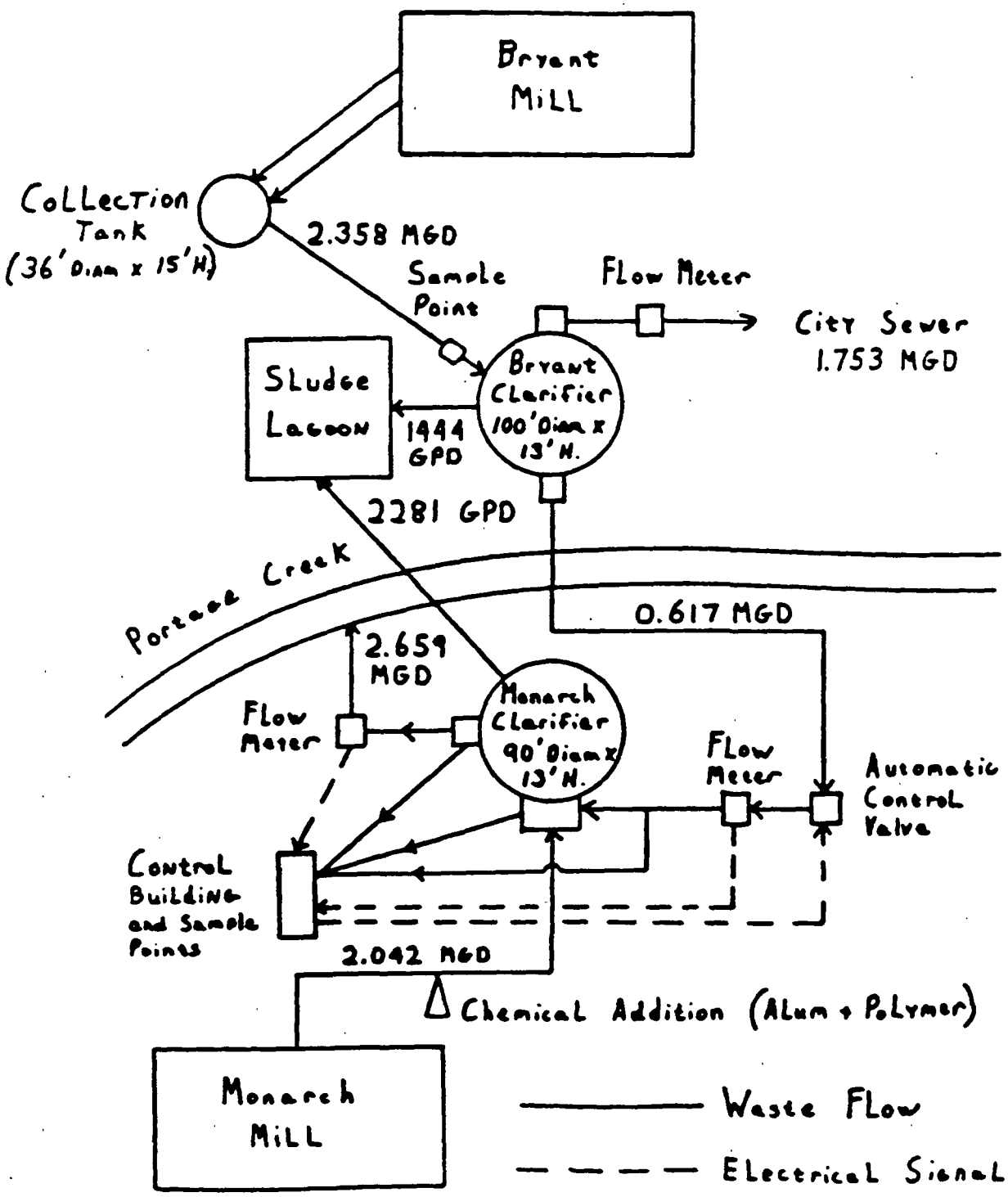
TITLE: Mill Process Flow Diagram

REVISIONS	

SCALE				DWG. NO.
DRAWN				
TRACED				
CHECKED				
CHECKED				
APPROVED				

SH
D03135

ALLIED'S WASTE TREATMENT FLOW SCHEMATIC



★ ALL Flow Figures Are For The Period of July 1, 1997 to Oct. 1, 1977.

Mill: Bryant Location: Kalamazoo, MI

VII. PRIORITY POLLUTANT COMPOUNDS

Please fill in the following information for those priority pollutants which, to your knowledge, are in your raw water supply, or used, or generated in any of the processes in the mill (refer to the following pages for the priority pollutant list). Use the number shown to identify the compound.

It should be noted that many mills may be using quantities of the listed chemicals as additives, cleaning solution, or solvents which are purchased and referred to by a trade name. Please supply trade names of all proprietary type chemicals used in the mill.

Compound Number or Trade Name	Process Where Compound is Used or Generated	Describe Use		Sampling or Monitoring Program for Compound (Yes or No)
		Quantity	Frequency	
Allied Paper, Inc. effluent has not been analyzed for the Priority Pollutants, except PCB and Mercury, listed on the following pages. Therefore, there is no available data on the quantity, frequency, sampling or monitoring program for any compounds. PCB and Mercury analyses on random samples indicated trace amounts.				
In addition Allied has requested all their suppliers of process raw materials to indicate if their material(s) contain any of the priority pollutants.				

SA 030397

PART II

CONFIDENTIALITY CLAIMED FOR THE FOLLOWING

Question Number	Question Number	Question Number	Question Number	Question Number	Question Number	Question Number
166	194					
167	196					
168	197					
169	198					
170	199					
171	202					
172	213					
173	233					
174	242					
175	255	247				
176	256	248				
177	257					
179	258					
180	259					
181	260					
185	261					
186	250					
187	VIII Schematics					
188						
189						
190						
191						
192						
193						

SA 030398

ENVIRONMENTAL PROTECTION AGENCY
SURVEY FORM
PULP, PAPER, AND PAPERBOARD INDUSTRY

NON-INTEGRATED MILLS
PART II

I. MILL BACKGROUND DATA

A. Mill & Division Name: Monarch Mill - Allied Paper, Inc.

Address: 2030 Portage St., Kalamazoo, MI ZIP: 49001

Telephone: 616 / 345-7131

Corporate Affiliation (if applicable) SCM Corporation

Contacts and Title: (Use an asterisk next to the responsible personnel completing the survey form)

E. J. Gilman	Vice President, Operations
*D. G. Stoeffler	Manager, Process Development

B. Age of Mill

1-2. DELETED - ANSWERED IN PART I

II. PRODUCTION INFORMATION

3-23. DELETED - ANSWERED IN PART I

III. PROCESS RAW MATERIALS

24-164. DELETED - ANSWERED IN PART I

C0040

SA 03388

Mill: Monarch Location: Kalamazoo, MI

IV. MANUFACTURING PROCESS AND INTERNAL POLLUTION CONTROL PRACTICES

A. General

165. Give the typical production days per year 260

166. High level alarms - do chemical and stock tanks have operable high level alarms to prevent spills?

(a) Yes

(b) No

(c) To the extent possible

Explanation (if needed) On starch tanks

167. pH or conductivity monitor of internal sewers - Do sewers have such devices to detect or divert spills?

(a) Yes

(b) No

(c) To the extent possible

Explanation (if needed)

168-181. Is the cooling water collected and reused from the following locations: Indicate answer using one of the following responses: (a) Yes; (b) No; (c) Seasonal; (d) To Extent Possible; (e) Not Applicable.

	a	b	c	d	e
168. Air Compressor Cooling Water		x			
169. Dryer Drainage Condensate Cooling				x	
170. Lube Oil Cooling		x			
171. Calendar Cooling Heat Exchangers					x
172. Rewinder Brake Cooling		x			

SA 033888

Mill: Monarch Location: Kalamazoo, MI

(a) Yes; (b) No; (c) Seasonal; (d) To Extent Possible; (e) Not Applicable

	a	b	c	d	e
173. Paper Machine Clutch Cooling					x
174. Cooling in Power Plant		x			
175. Feed Water Pump Bearings		x			
176. Power Plant I.D. Fan Bearings					x
177. Other Bearing Cooling		x			
178. Refiner Cooling		x			
179. Motor Control Center Cooling					x
180. Water Chiller					x
181. Air Conditioning					x

B. **Paper Mill**

182-184. DELETED - ANSWERED IN PART I

SA 033889

185-193. Please fill in the appropriate answers for each of your mill's paper machines. If you feel any answers require an explanation to assist in the proper analysis of each of the questions shown, please attach a sheet with the explanation(s). Be sure to correctly identify which question and which paper machine the explanation is for.

	Paper Machine																	
	#10		#11															
	XXX		XXX		#3		#4		#5		#6		#7		#8		#9	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
185. Is felt vacuum pump water reused?		x		x														
186. White water showers - Are White water showers used on the paper machine for such purposes as wire cleaning or knock off showers?		x		x														
187. Reuse press effluent - Is the press effluent reused?		x		x														
188. White water for vacuum pump sealing - Is white water used for vacuum pump sealing?		x		x														
189. White water storage for upsets and pulper dilution - Is excess white water, overflows from the main white water tank or the cloudy side of the saveall saved in a white water storage tank of sufficient size for charging and dilution at the pulpers?	x		x															
* 190. Does the mill have either four stages of cleaning or three stages of cleaning with elutriation in the paper mill?		x		x														
191. High pressure showers - Are high pressure showers (above 250 psig) used on the paper machine for wire cleaning?		x		x														

* 5 stages without elutriation

SA 033890

	Paper Machine																			
	#10		#11																	
	XXX		XXX		#3		#4		#5		#6		#7		#8		#9		#10	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
192. High pressure showers - Are high pressure showers (above 250 psig) used on the paper machine for felt cleaning?		x		x																
* 193. Is individual machine slush broke storall adequate to contain total machine production of stock (at couch) for a 30 minute period?		x		x																

* Couch pit slush broke is continuously pumped to fiber recovery system, so 30 min. storage is not needed.

SR 033891

Mill: [illegible] Location: [illegible]

194. Does the mill have a stock spill collection system, prior to external treatment facilities?

(a) Yes

(b) No

(c) Partial

195. If the answer to the preceding question is (a), describe the collection system's function. N.A.

(a) Collected and discharged to the sewer at a controlled rate

(b) Collected and reused in the process

(c) Other (please describe) _____

196. Give the frequency of waste significant grade changes; also, if possible, give the stock quantity sewered.

2 @ 1000# each

197. Is the mill central storage of white water (a) and slush broke (b) adequate with regard to effluent discharge?

a. White Water

(a) Yes

(b) No

(c) To the extent possible

(Explanation, if needed) _____

b. Slush Broke

(a) Yes

(b) No

(c) To the extent possible

(Explanation, if needed) _____

Mill: Monarch Location: Kalamazoo, MI

198. Are special provisions made for spills, screen rejects, and excess materials from coating or sizing systems?

(a) Yes

(b) No

(c) Limited

199. Does the mill employ organic solvent coating or saturating operations?

(a) Yes

(b) No

200. If yes, please give the type and quantities (lbs/day) of organic solvent used.

N.A.

201. Give the average daily organic solvent coated or saturated paper produced. N.A.

_____ tons/day

Mill: Monarch Location: Kalamazoo, MI

202. Please indicate effluent from the combined papermachine facilities as follows: (i.e., total flow from all machines)

Waste Source	Volume GPM		Suspended Solids (if applicable) lbs/day
a. Centricleaner and machine screen rejects	26		1975
b. Couch pit, seal box, and any other unclarified whitewater overflows	very little		very little
c. Thick stock spills, dumps, washups from stock preparation area and machine	very little	gal/day	very little
d. Excess clarified whitewater	763		1199
e. Cloudy water from vacuum systems, or pump sealing applications	265		4100
f. Clear water discharges i.e., cooling services, condensate, other non-process services	154		0
g. Other effluent sources not included above	210		3424
h. Total papermill effluent	1418		10,678

i. Is (f) discharged via process sewer or separately? (Circle answer)

YES; NO

"Yes" answer means (f) discharged via process sewer

Additional Information

203. Does the mill have a program for disposal of old electrical transformers?

(a) Yes

(b) No

204. Please give the number of people employed at your mill. 99

SA 033894

Mill: Monarch Location: Kalamazoo, MI

V. WATER USAGE AND EFFLUENT TREATMENT PRACTICES

Instructions for Completing Section V

Section V requests information on the mill's wastewater treatment practices. In Section VIII a general schematic of the effluent treatment system is requested. You have the option of providing any of the data requested in Section V on the schematic. If you do this, please indicate on the question(s) involved that the data is presented on the schematic.

A. Water Usage

205. Indicate the source and amount of process water.

(a) Surface (i.e., river, lake or reservoir) 1.842 MGD

(b) Groundwater _____ MGD

(c) Other (please describe) _____ _____ MGD

206. Does the quality of the raw water limit the reuse of water in this mill?

(a) Yes - explain _____

(b) No

207. Indicate the source and amount of the mill's cooling water.

(a) Surface 0.236 MGD

(b) Groundwater _____ MGD

(c) Other (please describe) _____ _____ MGD

208. Indicate the source and amount of the mill's boiler feed water.

(a) Surface 0.030 MGD

(b) Groundwater _____ MGD

(c) Other (please describe) _____ _____ MGD

Mill: Monarch Location: Kalamazoo, MI

209. Describe treatment used for boiler feed water conditioning.
Zeolite softners, chemicals include acid chelating agent and neutralizers for corrosion reduction

210. Give the disposal method now employed for boiler blowdown water.

(a) Sewered to treatment plant

(b) Directly discharged

(c) Directly discharged with pH adjustment

(d) Directly discharged after cooling

(e) Other (please describe) _____

B. Background Data

211-212. DELETED - ANSWERED IN PART I

213. How is cooling water disposed?

(a) Separate discharge to receiving stream.

(b) Combined with process waters before treatment.

(c) Combined with treated process waters.

(d) Recycled.

C. Indirect Discharger please provide the following information:

214. Name and location of POTW which handles your wastewater.

N.A.

215-216. DELETED - ANSWERED IN PART I

217. Are there specific pretreatment requirements of limits upon pollutant parameters imposed by the POTW system to which you discharge?

(a) Yes

N.A.

(b) No

SA 033896

Mill: Monarch Location: Kalamazoo, MI

218. If the answer to the preceding question was (a), please list the specific pretreatment requirements or pollutant parameter limits imposed on your mill by the POTW. N.A.

219. DELETED - ANSWERED IN PART I

220. If neutralization is practiced, fill in the following. N.A.

Chemical used _____

221. DELETED - ANSWERED IN PART I

222. Are any chemicals or other settling aids added to the primary treatment units?

(a) Yes

(b) No

(c) To the extent necessary (intermittent)

223. Please show the wastewater streams which enter the secondary treatment system (if applicable). N.A.

	Process Source or Sewer No.*		Flow, MGD	BOD, lb/D	TSS, lb/D
a.	Design Values	Average Day			
		Maximum Day			
		Maximum Month			
b.	Primary Treatment Effluent	Average Day			
		Maximum Day			
		Maximum Month			
c.	Other	Average Day			
		Maximum Day			
		Maximum Month			

*Process source or sewer number should be keyed to the mill process and wastewater treatment schematics requested in Section VIII.

Mill: Monarch Location: Kalamazoo, MI

224. Give the normal pH of the wastewater at the influent to the secondary treatment system.

n.a.

(a) 4-6

(b) 6-8

(c) 8-10

225. DELETED - ANSWERED IN PART I

D. Direct Discharger please provide the following information:

226. Name of effluent discharge receiving water

Portage Creek

227. Enclose a copy of current or proposed NPDES effluent discharge limits.

228. DELETED - ANSWERED IN PART I

229. If wastewater discharge is seasonal or intermittant non-continuous, approximately how many days out of the year do you discharge to the receiving water.

N.A.

(a) Less than 30

(b) 31-90

(c) 91-120

(d) 121-180

(e) 181-210

(f) 211-240

(g) 241-270

(h) 271-300

(i) 301-330

(j) 331-360

E. Preliminary Treatment

230. DELETED - ANSWERED IN PART I

231. If neutralization is practiced, fill in the following:

Chemical used N.A.

PERMIT NO. _____

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

ALLIED PAPER INCORPORATED
Subsidiary of SCM Corporation

is authorized to discharge from a facility located at

The Monarch Mill
1608 Lake Street
Kalamazoo, Michigan

to receiving waters named Portage Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance.

This permit and the authorization to discharge shall expire at midnight, September 30, 1979. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the company's application numbered MI 070 0X5 2 710100, dated June 24, 1971 and amended, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 20th day of December 1974, for the Michigan Water Resources Commission.

W. G. Turney
Assistant Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Initial Effluent Limitations

During the period beginning upon the issuance of this permit and lasting until June 30, 1977, the permittee is authorized to discharge from outfall(s) 002. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Daily Average	Daily Maximum	Other Limitations Daily Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow M^3/Day (MGD)	-	-	-	-	Continuous	
BOD_5	548(1205)	1005(2210)	-	-	Daily	24 hr. comp.
Total Suspended Solids	375(825)	1045(2300)	-	-	Daily	24 hr. comp.
Settleable Solids	-	-	-	-	Daily	Grab
Oil & Grease	-	-	-	10 mg/l	Weekly	Grab

a. The pH shall not be less than 6.5 nor greater than 9.5. The pH shall be monitored as follows: daily; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken prior to discharging to Portage Creek.

2. Final Limitations

During the period beginning July 1, 1977 and lasting until the expiration of this permit, the permittee is authorized to discharge from outfall(s) 002. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Daily Average	Daily Maximum	Other Limitations Daily Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)	-	-	-	-	Continuous	-
Settleable Solids	-	-	-	-	Daily	Grab
Oil & Grease	-	-	-	-	Daily	Visual Observ.
May 15 to October 14						
BOD_5	-	177(385)*	-	-	Daily	24 hr. comp.
Total Suspended Solids	-	230(500)*	-	-	Daily	24 hr. comp.
October 15 to May 14						
BOD_5	230(500)	350(770)	-	-	Daily	24 hr. comp.
Total Suspended Solids	230(500)	350(770)	-	-	Daily	24 hr. comp.

* The BOD and total suspended solids specified above for the period of May 15 to October 14 may be modified upon demonstration by the permittee that said limitations are more restrictive than necessary to protect water quality in accordance with Part IIB-4 herein.

a. The pH shall not be less than 6.5 nor greater than 9.5. The pH shall be monitored as follows: Daily, grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken prior to discharging to Portage Creek.

Mill: Monarch Location: Kalamazoo, MI

F. Primary Treatment

232. DELETED - ANSWERED IN PART I

233. Are any chemicals or other settling aids added to the primary treatment units?

(a) Yes

(b) No

(c) To the extent necessary (intermittent).

G. Biological Treatment

234. Provide the following information for the biological treatment system (if applicable). N.A.

a. Process Source or Sewer No.*		Flow, MGD	BOD, lb/D	TSS, lb/D
Design Influent Values	Average Day			
	Maximum Day			
	Maximum Month			
b. Primary Treatment Effluent	Average Day			
	Maximum Day			
	Maximum Month			

Other Wastewater Streams Which Enter the Biological Treatment Systems Without Primary Treatment

c.	Average Day			
	Maximum Day			
	Maximum Month			
d.	Average Day			
	Maximum Day			
	Maximum Month			

*Process source or sewer number should be keyed to the mill process and wastewater treatment schematics requested in Section VIII.

Mill: Monarch Location: Kalamazoo, MI

235. Give the normal pH of the wastewater at the influent to the secondary treatment system. N.A.

(a) 4-6

(b) 6-8

(c) 8-10

236. DELETED - ANSWERED IN PART I

H. Secondary Solids Removal

237-238. DELETED - ANSWERED IN PART I

I. Spray Irrigation

239. Is treated wastewater used for irrigation? N.A.

(a) Yes

(b) No

(c) Partial

J. Sludge Handling and Disposal

240. DELETED - ANSWERED IN PART I

241. Give the percent solids of the sludge after dewatering and prior to disposal.

(a) 5-10%

(b) 10-20%

(c) 20-30%

(d) 30-40%

(e) above 40%

242. Describe any leachate management practices performed at the mill for sludges which are disposed of on land.

Nature of sludge seals the lagoon bottom and sides area, therefore, no leachate management is necessary.

SA 033903

Mill: Monarch Location: Kalamazoo, MI

K. Foam Control - (Wastewater treatment system only)

243. Does the mill use foam control measures?

(a) Chemical

(b) Physical Methods

(c) None

(d) Other - explain _____

Mill: Monarch Location: Kalamazoo, MI

L. Cost Information

244. Provide cost data indicated for effluent treatment system in 1976 dollars. Use the cost multiplier factors, which follow, to convert to 1976 dollars.

		Total Capital Cost	Annual Operation and Maintenance Cost*
a.	Internal control devoted to effluent waste load reduction.	$236,000	$14,500
b.	External Treatment System		$100,050
c.	Primary Treatment	$368,200	
d.	Secondary Treatment	$101,000	

Construction Cost Multipliers
to Convert Capital Cost to 1976 Dollars

1956 =	2.535	1963 =	2.186	1969 =	1.794
1957 =	2.380	1964 =	2.161	1970 =	1.689
1958 =	2.325	1965 =	2.124	1971 =	1.564
1959 =	2.254	1966 =	2.051	1972 =	1.485
1960 =	2.220	1967 =	1.978	1973 =	1.317
1961 =	2.220	1968 =	1.884	1974 =	1.242
1962 =	2.207			1975 =	1.100

*Factors to be considered in Annual Operation and Maintenance Costs (O & M Costs).

1. Manpower - both operators and maintenance personnel
2. Contracted services
3. Energy Cost
4. Trucks for hauling
5. Nutrients
6. Leased equipment
7. Disposal costs
8. Sludge handling
9. Sampling and analysis
10. Equipment replacement (except major capital)

Exclude Depreciation

* Computer-TOC Analyzer [illegible] installed in [illegible] has applied to Monarch Div.[illegible]

SA 033905

Mill: Monarch Location: Kalamazoo, MI

245. For mills which discharge to a POTW, please give the annual user fee with a breakdown for capital cost recovery and operation and maintenance costs. N.A.

a. Capital Cost Recovery(if available) _____

b. Operation and Maintenance (if available) _____

c. Total Annual User Fee _____

246. Please give the basis used by the POTW to determine the mill's user fee. N.A.

(a) Flow only

(b) BOD only

(c) TSS only

(d) Combination of parameters (please indicate) _____

(e) Unknown

M. Site Conditions and Availability of Land

247. Is there sufficient land for expansion of your wastewater treatment system for BATEA?

(a) Yes

(b) No

(c) Unknown

248. Can the mill purchase land from adjoining property owners for possible expansion of the wastewater treatment system?

(a) Yes

(b) No

(c) Unknown

Mill: Monarch Location: Kalamazoo, MI

249. Are the soil conditions in the land available for future expansion of such a quality as to require special construction methods or special facility equipment (i.e., ledge, water table and liners needed for basins)?

(a) Yes

b) No

c) Unknown

250. Miscellaneous Discharges - Indicate any wastewater discharges not described in Section V which do not flow to the wastewater treatment system.

None

N. Wastewater Characteristics

251-254. DELETED - ANSWERED IN PART I

255. Was the analysis procedure used for BOD measurement in accord with the method presented in Standard Methods for the Examination of Water and Wastewater?

a) 13th Edition

b) 14th Edition

c) No (please describe other method used) NCASI

256. Is a glucose-glutamic acid BOD standard analyzed?

(a) Yes

b) No As per 1976 analysis procedure

Mill: Monarch Location: Kalamazoo, MI

257. If the answer to the preceding question was (a), please indicate the normal frequency of the analysis. N.A.

(a) Daily

(b) Weekly

(c) Monthly

(d) Quarterly

(e) Semi-annual

258. Please indicate the average percent difference found between the BOD determinations and the glucose-glutamic acid BOD standard. N.A.

(a) 0-5%

(b) 5-10%

(c) 10-15%

(d) 15-20%

(e) Over 20%

259. Indicate the analysis procedure used for TSS determination at the mill.

(a) Standard Methods for the Examination of Water and Wastewater, 13th and/or 14th Edition.

(b) EPA analysis procedure adopted on October 16, 1973, and on subsequent amendments.

(c) Other (please describe) Same as (a) with a modification of filtering media.

SA 033908

Mill: Monarch Location: Kalamazoo, MI

VI. FUEL AND ENERGY

A copy of the API "Monthly Fuel and Energy Report" has been included in this section to assist the mill in calculating (if information is not already available) the answer(s) to the questions asked. The API sheets should be used as a guide for computation only, do not return the pages with the questionnaire.

260. Give the total purchased energy (fossil fuel, electricity, steam, etc.) as equivalent millions BTU/ton of product (Items 1 to 9, less 10 from API forms).

38.4

261. Give the energy used for external treatment operations as equivalent KWHr/ton of product.

None

SA 033909

AMERICAN PAPER INSTITUTE
RAW MATERIALS AND ENERGY DIVISION
260 Madison Avenue New York N.Y. 0016

CONFIDENTIAL
MONTHLY FUEL AND ENERGY REPORT

Company _____

Mill Location _____

Month, Year _____
(If this is a period mill, the period reported is from _____ through _____.)
mo./day mo./day

Mill Reference NO. _____ FOR API USE ONLY
Region _____

[1] Monthly Fuel and Energy Consumption Data

For each energy source used in the month, please enter to the nearest tenth information in the way you monitor it most accurately. For example, in the case of fuel oil, you would probably enter thousands of barrels. But in the case of bark, you would probably enter Billion BTU's as fired--obtained by applying the bark boiler's rated or estimated efficiency to its metered steam output. Then apply the BTU conversion factor you believe to be most accurate for your operation to compute either Billions of BTU's as in the first case, or weight of fuel at the specified moisture content as in the second case. (See list of average BTU values of nominated fuels, over.) Limit reporting to energy used within the mill fence line, thereby excluding energy used in wood harvesting, transportation and converting operations.

FUEL	UNITS	ACTUAL USE	CONVERSION FACTOR	BILLION BTU's as FIRED
Purchased Fossil Fuel & Energy				
1. Purchased Electricity	Millions KWH		X 3.4 =	
2. Purchased Steam	Millions lbs.		X =	
3. Coal	Thousands Short Tons		X =	
4. Residual Fuel Oil (#5,6)	Thousands 42 Gal. Bbls.		X =	
5. Distillate Fuel Oil (#2)	Thousands 42 Gal. Bbls.		X =	
6. Liquid Propane Gas (L.P.G.)	Thousands Gallons		X =	
7. Natural Gas	Millions Cu. Ft.		X =	
8. Other (specify)			X =	
9. Other (specify)			X =	
10. LESS ENERGY SOLD.				
SUB TOTAL [A] (1 to 9 less 10:)				
Self Generated and Waste Fuels				
11. Hogged Fuel: (Wood & Bark)	Thous. Short Tons (50% moisture content)		X =	
12. Bark: (Enter separately, if available, bark obtained in debarking of pulpwood)	Thous. Short Tons (50% moisture content)		X =	
13. Municipal Waste	Thous. Short Tons (50% moisture content)		X =	
14. Spent Liquor (oven dry basis)	Thousands Short Tons of Solids		X =	
15. Self-Generated Hydroelectric Power	Millions KWH		X 3.4 =	
16. Other (specify)			X =	
17. Other (specify			X =	
SUB TOTAL [B] (11 to 17)				
GRAND TOTAL [C] (A+B)				

Total In Plant Electric Generation _____ = ___ on KWH
(Calculate separately from above totals)

II. Monthly Production Data

Please enter production for the month in thousands of short tons, to the nearest tenth. Mills which use both their own and purchased pulp will enter separate data for "Integrated Paper and Paperboard" and "Nonintegrated Paper and Paperboard."

1. Pulp (dried and wet lap): Report dried and wet lap pulp (reported on a dried basis).

2. Integrated Paper and Paperboard: Report primary product (excluding converted products) manufactured from on-site pulp production, as normally measured.

3. Nonintegrated Paper and Paperboard: Report primary product (excluding converted products) manufactured from off-site pulp production and/or waste paper, as normally measured.

(thousand short tons)

1. Pulp (dried and wet lap on dried basis): _____

2. Integrated Paper & Paperboard: _____

3. Nonintegrated Paper & Paperboard: _____

4. TOTAL PRODUCTION [D]: _____

III. Please compute millions of BTU's used per ton of output for both "Subtotal BTU's from Purchased Fossil Fuel and Energy" and "Grand Total BTU's."

1. Purchased Energy Per Ton

$$\frac{\text{Subtotal } [A]}{\text{Total } [D]} = \_\_\_\_\_ \text{ million BTU's/ton}$$

2. Total Energy Per Ton

$$\frac{\text{Grand Total } [C]}{\text{Total } [D]} = \_\_\_\_\_ \text{ million BTU's/ton}$$

IV. Explanation of month to month changes in energy use:

1) If the mill's energy use per unit of output (either purchased and/or total) for this month varied 25% or more from that in the previous month, please explain:

_____

_____

2) Has this mill put into operation during this month additional equipment for effluent and emission control?

YES_____ NO_____

If yes, what net additional energy will this additional equipment require in a full month at current operating rates?

Steam: _____ Million lbs. Electricity: _____ Millions KWH (Calculate on basis of additional horsepower to be used)

V. The average temperature of incoming water for the month was _____ degrees fahrenheit.

Suggested Average Conversion Factors To Obtain Billion BTU's (Question I)

Purchased Steam (No condensate return)	1.3	Hogged Fuel	7.7 (50% moisture content)
Purchased Steam (Condensate return)	1.1	Bark	9.0 (50% moisture content)
Coal	26.2	Spent Liquor	13.4
Residual Fuel Oil	6.1		
Distillate Fuel Oil	6.0		
L.P.G.	0.092		
Natural Gas	1.03		

Please return by the 21st of the following month to:
American Paper Institute
Raw Materials and Energy Division
260 Madison Avenue
New York, N.Y. 10016
Tel. (212) 883-8087

Name: _____

Signature: _____

Telephone: ( ) _____

Date _____

JRO
June 1976

Mill: Monarch Location: Kalamazoo, MI

VIII. PROCESS SCHEMATICS

Attach separate general block diagrams for the three items listed below.

A. Water Treatment (if applicable) - Provide a general block diagram showing the water treatment system used, chemical application points, average flow, and disposal method for backwash water. If the mill has a raw water analysis available please attach a copy.

B. Manufacturing Process Schematic - Provide a general schematic of the total mill process to include water balance and all process wastewater streams. (See note at start of Section V.) Wastewater streams should be cross referenced to the effluent treatment system schematic.

C. Effluent Treatment System - Provide a general schematic of the effluent treatment system. Please key the diagram to the manufacturing process block diagram so that the point of influent to the treatment system for individual process sewers can be determined. Also show all chemical application points; chemicals used; flow monitoring and sampling points; average flow; size or area, volume, and number of each treatment system component; sludge recycle and volume; and sludge dewatering/thickening system.

Additional information on the mill's wastewater treatment system is also needed to complete the data request. Please provide answers to the following questions which pertain to your wastewater treatment system. For questions which do not apply, indicate by writing N/A (not applicable) on the space provided for the answer.

Primary Treatment

262. Give the following primary clarifier overflow rates:

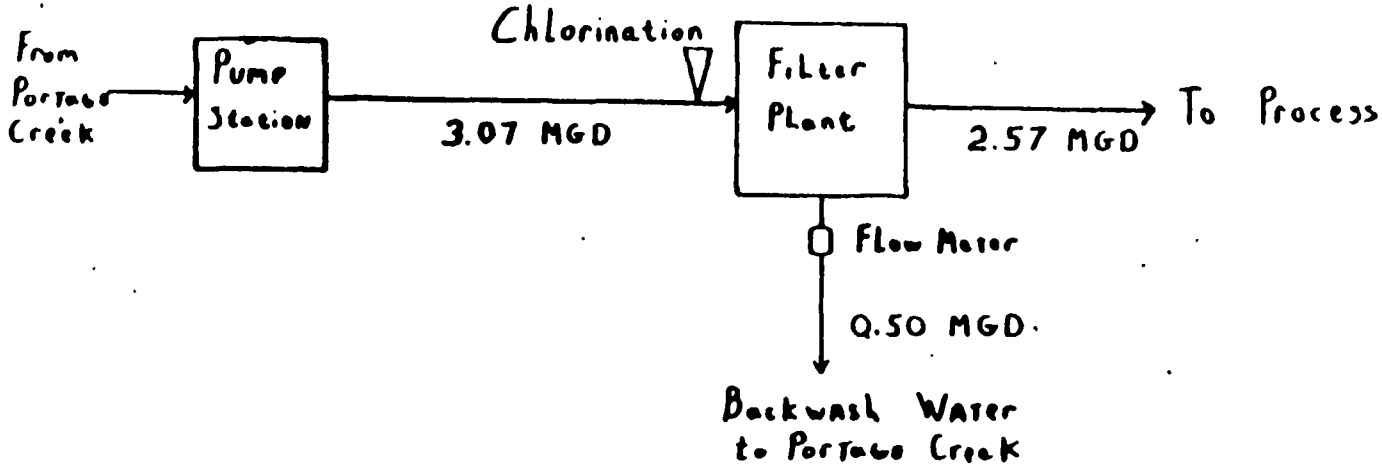
a. Design 865 gpd/ft^2 at 5.50 MGD

b. Current 352 gpd/ft^2 at 2.242 MGD

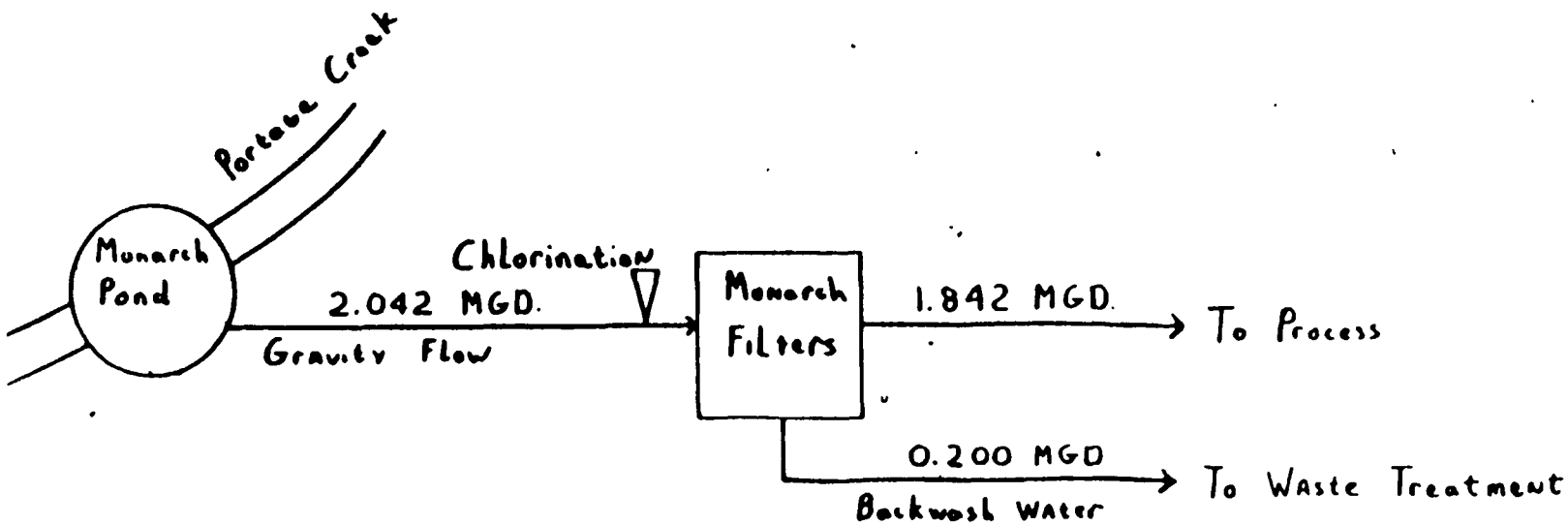
SA 033912

ALLIED'S WATER TREATMENT FLOW SCHEMATIC

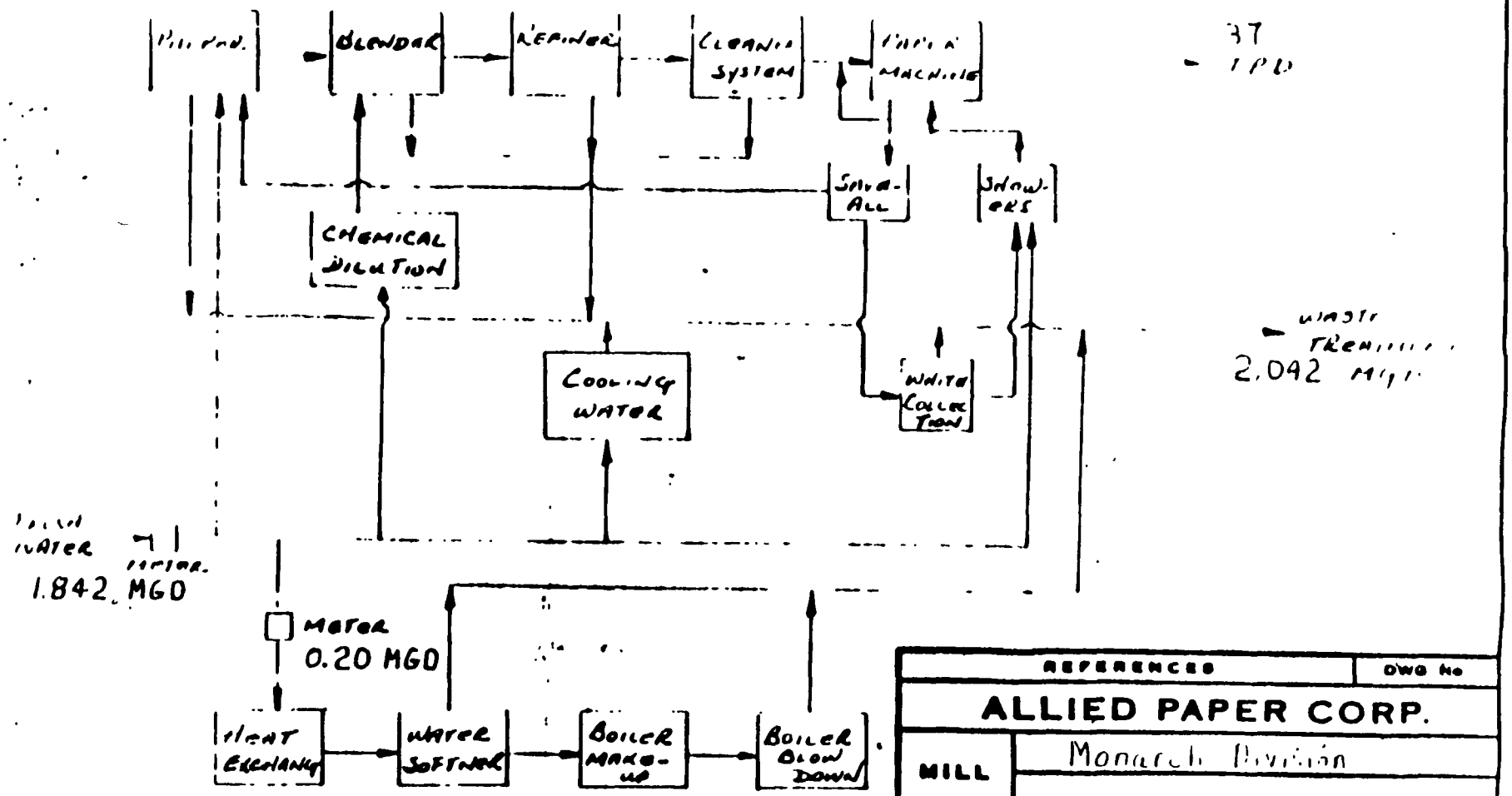
Bryant's System



Monarch's System



SA 033913



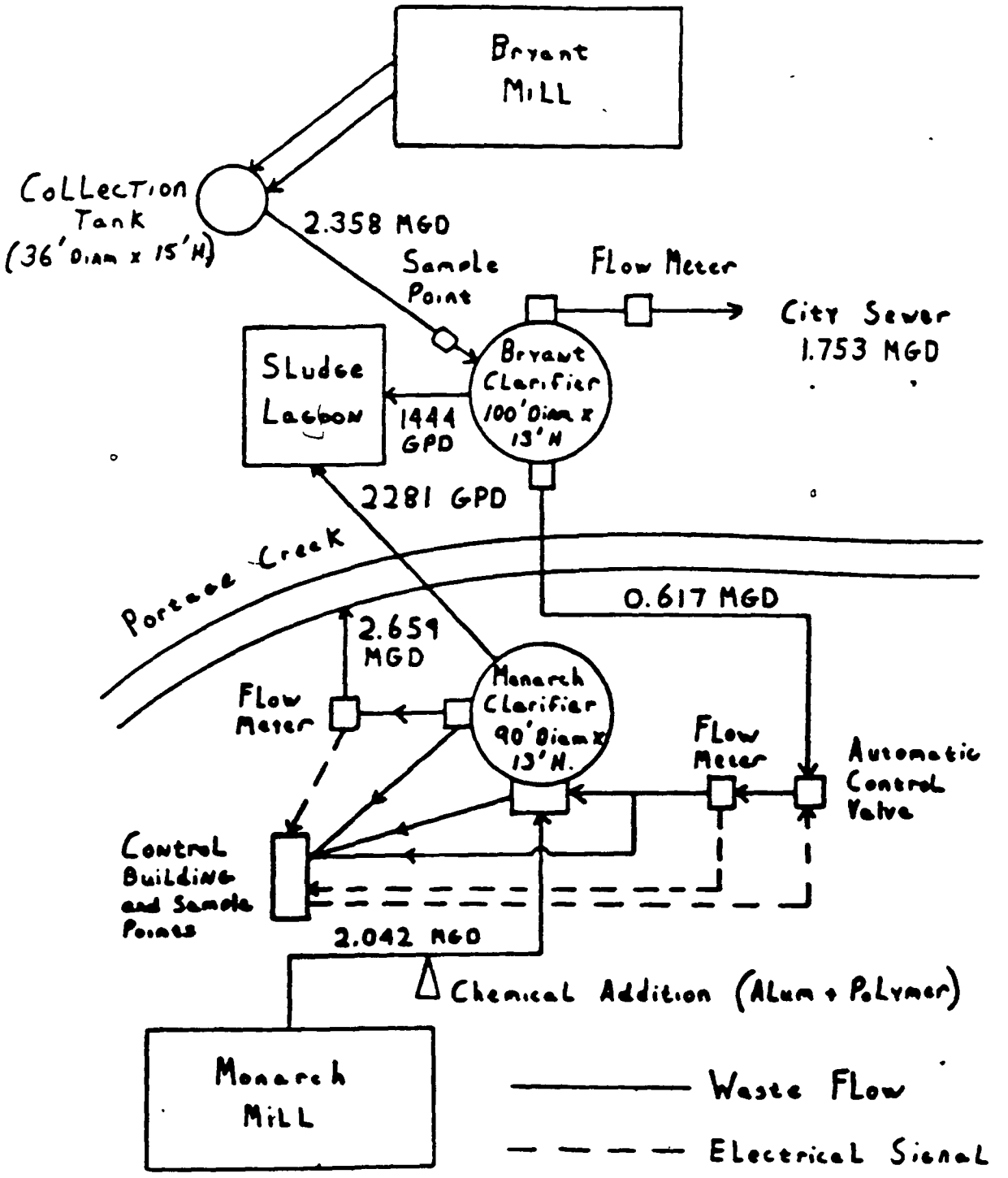
REFERENCES	DWG No
ALLIED PAPER CORP.	
MILL	Monarch Division
TITLE	Mill Process Flow Diagram

REVISIONS	

SCALE				DWG. NO
DRAWN				
TRACED				
CHECKED				

SA 033916

ALLIED'S WASTE TREATMENT FLOW SCHEMATIC



★ ALL Flow Figures Are For The Period of July 1, 1997 to Oct. 1, 1977.

Mill: Monarch Location: Kalamazoo, MI

Biological System

263-268. For the biological system employed, please give answers to the appropriate questions listed below: N.A.

	System	Question	Answer	
263.	Aerated Stabilization Basin	a) Volume of the aeration zone	_____	Mil. Gal.
		b) Connected horsepower for aeration	_____	
264.	Activated Sludge	a) Volume of the aeration zone	_____	Mil. Gal.
		b) Connected horsepower for aeration	_____	
		c) MLSS (Mixed Liquor Suspended Solids)	_____	
265.	Trickling Filer	a) Volume of media	_____	
		b) Surface area of filter	_____	ft^2
266.	RBC	a) Surface area of RBC	_____	ft^2
267.	Post Storage	a) Volume of storage	_____	Mil. Gal.

268. If nutrient addition is used, please give the average BOD:N:P ratio.

BOD:N:P ___:_:_

Secondary Solids Removal N.A.

269. Give the secondary clarifier overflow rates:

a. Design _____ gpd/ft^2 at _____ MGD

b. Current _____ gpd/ft^2 at _____ MGD

SA 033916

Mill: Monarch Division Location: Kalamazoo, MI

VII. PRIORITY POLLUTANT COMPOUNDS

Please fill in the following information for those priority pollutants which, to your knowledge, are in your raw water supply, or used, or generated in any of the processes in the mill (refer to the following pages for the priority pollutant list). Use the number shown to identify the compound.

It should be noted that many mills may be using quantities of the listed chemicals as additives, cleaning solution, or solvents which are purchased and referred to by a trade name. Please supply trade names of all proprietary type chemicals used in the mill.

Compound Number or Trade Name	Process Where Compound is Used or Generated	Describe Use		Sampling or Monitoring Program for Compound (Yes or No)
		Quantity	Frequency	
Allied Paper, Inc. effluent has not been analyzed for the Priority Pollutants, except PCB and Mercury, listed on the following pages. Therefore, there is no available data on the quantity, frequency, sampling or monitoring program for any compounds. PCB and Mercury analyses on random samples indicated trace amounts.				
In addition Allied has requested all their suppliers of process raw materials to indicate if their material(s) contain any of the priority pollutants. While some raw materials contain trace amounts of some priority pollutants, we have no knowledge whether any of these pollutants carry over in the waste water discharge.				

PART II

CONFIDENTIALITY CLAIMED FOR THE FOLLOWING

Question Number	Question Number	Question Number	Question Number	Question Number	Question Number	Question Number
166	194					
167	196					
168	197					
169	198					
170	199					
171	202					
172	213					
173	233					
174	242					
175	255					
176	256					
177	257					
179	258					
180	259					
181	260					
185	261					
186	VIII Schematics					
187						
188						
189						
190						
191						
192						
193						

SA 033918

STATE OF MICHIGAN

NATURAL RESOURCES COMMISSION
CARL T JOHNSON
E M. LAITALA
DEAN PRIDGEON
HILARY F SNELL
HARRY H WHITELEY
JOAN L WOLFE
CHARLES G YOUNGLOVE

WILLIAM G MILLIKEN, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T MASON BUILDING BOX 30028 LANSING MICHIGAN 48909
HOWARD A TANNER Director

June 10, 1977

FACILITY NUMBER = 390222
ALLIED PAPER INC
MONARCH MILL
2030 PORTAGE ST
KALAMAZOO MICH 49001

Dear Sir:

On March 28, 1977, the Michigan Department of Natural Resources, Bureau of Environmental Protection mailed a booklet entitled, "PCB Act Survey Questionnaire, Instructions, and Forms", to your attention. This booklet contains reporting forms and exemption applications and was provided to assist you in complying with Act 60, P.A. 1976.

Please be advised that the completed PCB Act Survey Questionnaire and appropriate forms were due on May 1, 1977. As of June 1, 1977 we have not received all of the necessary completed forms from your facility. These forms should be returned immediately. Failure to report use, manufacture or sale of polychlorinated biphenyls (PCBs) is a misdemeanor, punishable by a maximum fine of $25,000.00 per day, with each day considered a separate violation.

If you have any questions, or if you need additional copies of the PCB reporting booklet, telephone the Office of Toxic Materials Control at (517) 374-9640 or write to: Act 60 Reports, Box 30032, Lansing, Michigan 48909.

Sincerely,

Howard A. Tanner
Director

MICHIGAN

M026 10/76

SA 039677

DISCLOSURE OF INFORMATION TO NCASI

As a result of an agreement between the Agency and NCASI, information gathered through this survey form can be made available to the NCASI if the mill chooses to do so. The following items are provided for you to indicate your mill's course of action in this matter: (It should be noted that the original of this survey form must be sent to the Agency's contractor and that a copy must be made if you choose to send information to the NCASI).

1. A completed copy of this survey, except for the deletions indicated below (is) (is not) being transmitted directly to the staff of the National Council of the Paper Industry for Air & Stream Improvement Inc. (NCASI).

   The following items of information or data were deleted from the copy of the survey transmitted to NCASI (items selected on the basis of a claim of confidentially, even as to NCASI, are indicated by an *):

   _____

   _____

   _____

   _____

2. The respondent (does) (does not) consent to the disclosure of any other information collected by EPA or its contractor concerning your facility, including any information or reference code needed to identify the facility (ies) covered by this survey from subsequent EPA contractor verification surveys or other studies.

   The following items or types of information or data subsequently collected by EPA or its contractor shall not be disclosed to NCASI.

   _____

   _____

   _____

   _____

NAME: E. G. Stoeffler TITLE: Manager Process Development

C00492

ENVIRONMENTAL PROTECTION AGENCY
SURVEY FORM
PULP, PAPER, AND PAPERBOARD INDUSTRY

NON-INTEGRATED MILLS
PART I

I. MILL BACKGROUND DATA

A. Mill & Division Name: Monarch Division, Allied Paper, Inc.

Address: 2030 Portage St., Kalamazoo, MI ZIP: 49001

Telephone: 616 / 345-7131

Corporate Affiliation (if applicable) SCM Corporation

Contacts and Title: (Use an asterisk next to the responsible personnel completing the survey form).

T. I. [illegible]	Vice President - Operations
*J. G. Stoeffler	Manager Process Development

B. Age of Mill

1. Year of initial construction 1885

2. Please give the year of initial startup and each year since 1952 in which any major modifications or permanent shutdowns were made which significantly affected the composition or amount of effluent from the mill.

	Year(s) of Initial Startup	Year(s) of Waste Significant Modification or Permanent Shutdown
a. Added Paper Machine Saveall(s)	One - 1974	
b. Added New Paper Machine(s)		

Mill: Monarch Division Location: Kalamazoo, MI

	Year(s) of Initial Startup	Year(s) of Waste Significant Modification or Permanent Shutdown
c. Paper Machine Rebuild(s)		
d. Added Stock Prep. System		
e. Added Broke Storage		
f. Elimination of Paper Machine(s)		
g. Other (Please List)		
Deinking Operation		Shut Down - 1957

SA 033950

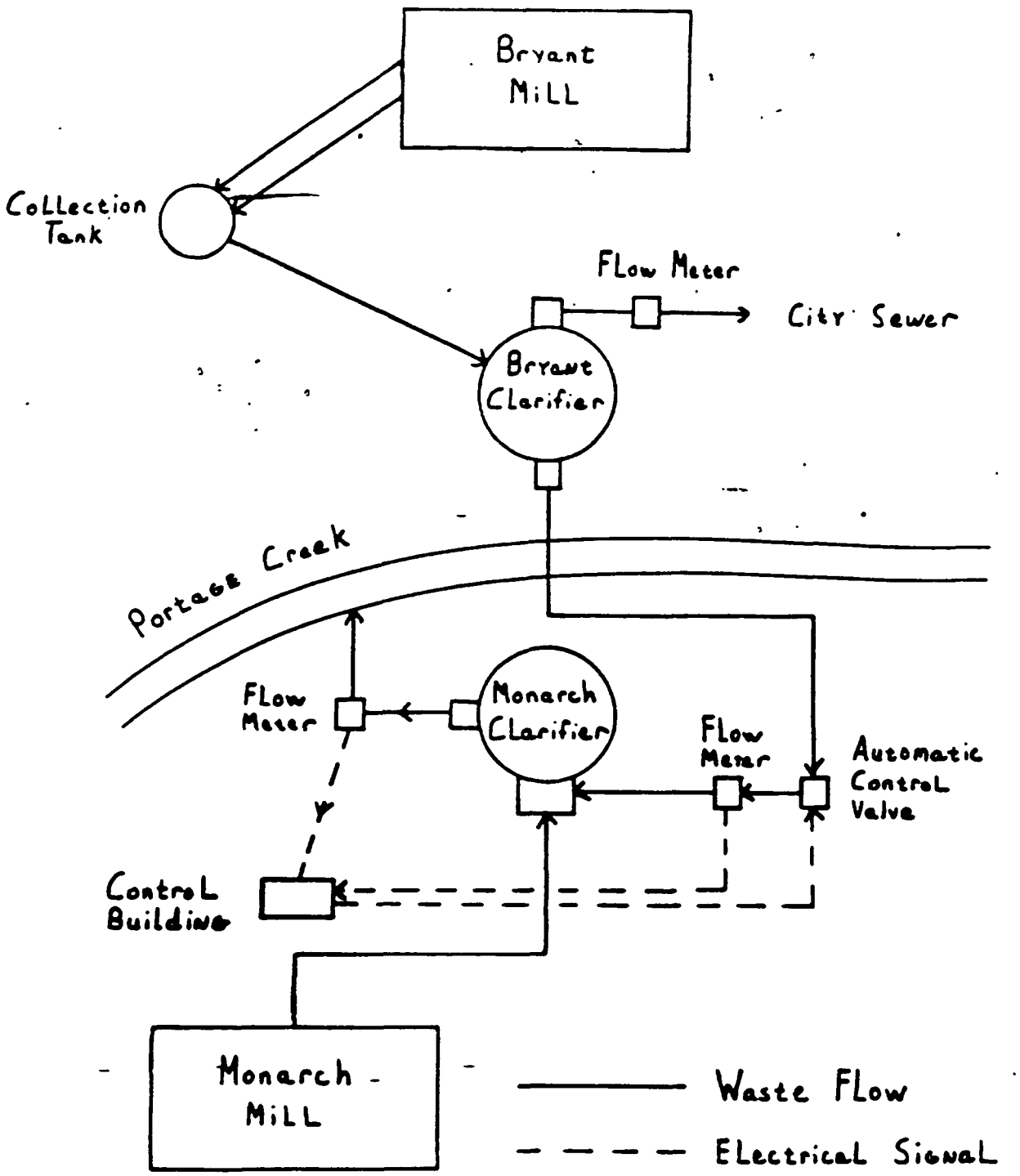
Mill Monarch Division Location Kalamazoo, MI

Explanation on reporting in Section II, A-3, 4, 8 and B-13, 15 and Section V, 251-254, a, b, c.

On July 1, 1977 Allied Paper Inc. changed the waste treatment system for the Monarch and Bryant Divisions to comply with new NPDES permit limitations on BOD of 385#/day maximum. The Waste Treatment Flow Schematic (attached next) shows the flow patterns. Bryant Division Clarifier is therefore both a direct and indirect discharger and is so noted in splitting Section V, 254 into two columns of direct and indirect discharge. For simplicity, 253 column is eliminated.

Since the new waste treatment system was put in line July 1, 1977, Section II, A-3, 4, 8 and B-13 and 15 contain both figures for calender year 1976 and July 1, 1977 to October 1, 1977. Section V, 251-254 figures are for July 1 to October 1, 1977 period only.

FLOW SCHEMATIC



M.L.

Mill: Monarch Division Location: Kalamazoo, MI

II. PRODUCTION INFORMATION

A. Pulp*** Consumed	Average Daily** Air Dry Tons/Day Hardwood	Average Daily** Air Dry Tons/Day Softwood	Maximum Day Air Dry Tons/Day Hardwood	Maximum Day Air Dry Tons/Day Softwood	Maximum Month Air Dry Tons/Day Hardwood	Maximum Month Air Dry Tons/Day Softwood
3. Bleached Kraft		25 (25)		38 (29)		34 (27)
4. Unbleached Kraft		9 (10)		12 (12)		11 (11)
5. Bleached Soda						
6. Sulfite						
7. Wastepaper						
8. Other (please list) Miscellaneous	3 (0)		5 (0)		4 (0)	

	Average Daily** Air Dry* Tons/day	Maximum Day Air Dry* Tons/day	Maximum Month Air Dry* Tons/day
B. Products			
9. Market Pulp NOT APPLICABLE			
a. Pulp Bales and/or Rolls			
b. Wet Lap Pulp			
c. Slushed Pulp			
10. Groundwood Molded Pulp NOT APPLICABLE			
11. Newsprint NOT APPLICABLE			
12. Groundwood Printing, Writing and Related NOT APPLICABLE			
a. Uncoated Groundwood Printing and Converting			
b. Clay (50% or more Kaolin) Coated Groundwood Printing and Converting			

*Measured at the winder or pulp dryer.

**Average Daily = $\frac{\text{Total production for the year}}{\text{Total number of production days for the year}}$

***Numbers in ( ) are for period July-Oct.1, 1977. Other numbers are for year 1976.

SA 033953

Mill: Monarch Division Location: Kalamazoo, MI

B. Products (continued) **	Average Daily Air Dry* Tons/day	Maximum Day Air Dry* Tons/day	Maximum Month Air Dry* Tons/day
c. Groundwood Specialties			
d. Other			
13. Wood Free Printing, Writing and Related			
a. Uncoated Free Sheet Printing	16 (18)	20 (20)	18 (20)
b. Clay (50% or more Kaolin) Coated Free Printing			
c. Uncoated Writing and Related			
d. Uncoated Solid Bleached Bristols			
e. Clay (50% or more Kaolin) Coated Solid Bleached Bristols			
f. Other Cigarette tipping	9 (7)	15 (13)	11 (8)
14. Cotton Fiber Papers NOT APPLICABLE			
a. Writing and Related			
b. Technical			
c. Other			
15. Thin Papers			
a. Carbonizing	10 (9)	13 (13)	12 (10)
b. Cigarette			
c. Other Crimping	1 (3)	3 (5)	2 (3)
16. Packaging and Industrial Converting NOT APPLICABLE			
a. Unbleached Kraft			
b. Bleached Kraft			
c. Other			

*Measured at the winder or pulp dryer.
**Numbers in ( ) are for period July 1-Oct.1, 1977. Other numbers are for year 1976.

Mill: Monarch Division Location: Kalamazoo, MI

8. Products (continued)	Average Daily Air Dry* Tons/day	Maximum Day Air Dry* Tons/day	Maximum Month Air Dry* Tons/day
17. Specialty Packaging and Industrial Converting	NOT APPLICABLE		
a. Tape Backing			
b. Saturating			
c. Gasket			
d. Other (please list)			
18. Sanitary Tissue	NOT APPLICABLE		
19. Unbleached Kraft Paperboard (80% or more unbleached Kraft pulp)	NOT APPLICABLE		
a. Linerboard			
b. Folding			
c. Other			
20. Semi-Chemical Paperboard (75% or more semi-chemical pulp)	NOT APPLICABLE		
a. Corrugating			
b. Other			
21. Bleached Paperboard (not less than 80% bleached chemical wood pulp)	NOT APPLICABLE		
a. Clay Coated Bleached Food Board			
b. Uncoated Bleached Food Board			
c. Bleached Linerboard			
d. Folding			
e. Other			

*Measured at winder or pulp dryer.

SA 033955

Mill: Monarch Division Location: Kalamazoo, MI

B. Products (continued)	Average Daily Air Dry* Tons/day	Maximum Day Air Dry* Tons/day	Maximum Month Air Dry* Tons/day
22. Recycled Paperboard NOT APPLICABLE			
a. Linerboard			
b. Corrugating			
c. Chip & Filler Board			
d. Folding			
e. Set-Up			
f. Gypsum Wall Board			
g. Other			
23. Construction Paper and Board NOT APPLICABLE			
a. Construction Paper			
b. Wet Machine Board			
c. Insulating Board			
d. Hard Pressed Board			
e. Other			

*Measured at the winder or pulp dryer.

Mill: [illegible]

Location: Kalamazoo, MI

III. PROCESS RAW MATERIALS

A. Total Mill Fiber Supply - Please provide the average tons/day for the year and quarters indicated below:

	1976 Quarter			
	1st	2nd	3rd	4th
24. Wastepaper NOT APPLICABLE				
a. Mixed Wastepaper				
b. Boxboard Cuttings				
c. No. 1 News				
d. Special News				
e. Fibre Containers				
f. Corrugated				
g. Corrugated Cuttings				
h. Kraft Bags				
i. Kraft Cuttings				
j. Groundwood Substitutes (coated)				
k. Groundwood Substitutes (uncoated)				
l. White Shavings				
m. Colored Ledger				
n. Tab Cards				

SH 033957

Mill: [illegible]

Location: [illegible], MT

	1976 Quarter			
	1st	2nd	3rd	4th
o. Colored Kraft Substitutes				
p. White Ledger				
q. Bleached Pulp Substitutes				
r. Specialty Grades				
s. Other NOT APPLICABLE				

25. Other

SA 033958

Mill: [illegible]

Location: Kalamazoo, MI

B. Chemicals and Other Raw Materials

The following list of purchased chemicals and raw materials should be used to indicate their use in the mill process and/or process maintenance work. If a chemical is used, please circle the appropriate answer. Two answers should be marked for each numbered chemical or raw material used. The following answers are possible: (a) Mill process chemical; (b) Used for process maintenance work; (c) More than 500 lb/year is used; (d) Less than 500 lb/year is used. For some chemicals, a third answer may be marked. For chemicals applied to the surface of the formed paper, mark answer (e) surface application. If (e) is not marked the chemical will be assumed to be used internally (combined with the stock) unless the specific type of chemical would indicate otherwise (i.e., cleaners and detergents).

Adhesives

26. Animal Glue
(a) (b) (c) (d) (e)

27. Casein
(a) (b) (c) (d) (e)

28. Polyvinyl Acetate
(a) (b) (c) (d) (e)

29. Starch
(a) (b) (c) (d) (e)

30. Styrene-Butadiene
(a) (b) (c) (d) (e)

Other

31. _____
(a) (b) (c) (d) (e)

32. _____
(a) (b) (c) (d) (e)

33. _____
(a) (b) (c) (d) (e)

34. Alum
(a) (b) (c) (d) (e)

35. Ammonia
(a) (b) (c) (d) (e)

36. Ammonium Hydroxide
(a) (b) (c) (d) (e)

37. Amorphous Waxes
(a) (b) (c) (d) (e)

38. Asphalt
(a) (b) (c) (d) (e)

39. Binder
(a) (b) (c) (d) (e)

Bituminous Material
(list trade names)

40. _____
(a) (b) (c) (d) (e)

41. _____
(a) (b) (c) (d) (e)

Boil-Out Materials
(list trade name)

42. Ko-Chem-Paco Boil Out
(a) (b) (c) (d) (e)

43. _____
(a) (b) (c) (d) (e)

44. _____

45. Bronze Powders
(a) (b) (c) (d) (e)

46. Chlorine
(a) (b) (c) (d) (e)

47. Chlorine Dioxide
(a) (b) (c) (d) (e)

SA 833959

Mill: [illegible]

Location: [illegible], MI

Chemicals and Other Raw Materials (Cont'd.)

(a) Mill process chemical; (b) Used for process maintenance work; (c) More than 500 lb/year used; (d) Less than 500 lb/year used; (e) Surface application

Cleaners & Detergents
(list trade names)

48. Interlube-4022 Felt Cleaner
(a) (b) (c) (d) (e)

49. Syntech Products-Saf-Solv 2000
(a) (b) (c) (d) (e)

50. _____
(a) (b) (c) (d) (e)

Coating Adhesive
(list types)

51. _____
(a) (b) (c) (d) (e)

52. _____
(a) (b) (c) (d) (e)

53. _____
(a) (b) (c) (d) (e)

54. Crystalline Waxes
(a) (b) (c) (d) (e)

Cutting Fluids
(list types)

55. _____
(a) (b) (c) (d) (e)

56. _____
(a) (b) (c) (d) (e)

57. _____
(a) (b) (c) (d) (e)

Defoamers
(list trade names)

58. Ko-Chem DF-11
(a) (b) (c) (d) (e)

59. _____
(a) (b) (c) (d) (e)

60. _____
(a) (b) (c) (d) (e)

Degreasers
(list trade names)

61. DuBois DuStripp
(a) (b) (c) (d) (e)

62. Beaver Research Product
(a) (b) (c) (d) (e)

63. _____
(a) (b) (c) (d) (e)

Dispersants
(list trade names)

64. Syntech Products-Vacuum Pump Inhibitor
(a) (b) (c) (d) (e)

65. Globe Chemical-Vacuum Pump Inhibitor
(a) (b) (c) (d) (e)

66. _____
(a) (b) (c) (d) (e)

Dyes (list types)

67. Solar Blue RMN
(a) (b) (c) (d) (e)

68. _____
(a) (b) (c) (d) (e)

69. _____
(a) (b) (c) (d) (e)

Fillers

70. Diatomaceous Earth
(a) (b) (c) (d) (e)

71. Clay
(a) (b) (c) (d) (e)

72. Calcium Carbonate
(a) (b) (c) (d) (e)

73. Talc
(a) (b) (c) (d) (e)

74. TiO_2
(a) (b) (c) (d) (e)

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Chemicals and Other Raw Materials (Cont'd.)

(a) Mill process chemical; (b) Used for process maintenance work; (c) More than 500 lb/year used, (d) Less than 500 lb/year used; (e) Surface application.

Other

75. Clean-Lite 100
(a) (b) (c) (d) (e)

76. _____
(a) (b) (c) (d) (e)

77. _____
(a) (b) (c) (d) (e)

Fungicides
(list trade names)

78. _____
(a) (b) (c) (d) (e)

79. _____
(a) (b) (c) (d) (e)

80. _____
(a) (b) (c) (d) (e)

81. Hydrogen Peroxide
(a) (b) (c) (d) (e)

82. Oil Base Ink
(a) (b) (c) (d) (e)

83. Water Base Ink
(a) (b) (c) (d) (e)

Latex (list types)

84. _____
(a) (b) (c) (d) (e)

85. _____
(a) (b) (c) (d) (e)

86. _____
(a) (b) (c) (d) (e)

87. Lime
(a) (b) (c) (d) (e)

88. Limestone
(a) (b) (c) (d) (e)

89. Magnesium Hydroxide
(a) (b) (c) (d) (e)

90. Magnesium Oxide
(a) (b) (c) (d) (e)

91. Oils
(a) (b) (c) (d) (e)

Organic Solvents

92. Alcohols
(a) (b) (c) (d) (e)

93. Esters
(a) (b) (c) (d) (e)

94. Ketones
(a) (b) (c) (d) (e)

Other

95. _____
(a) (b) (c) (d) (e)

96. _____
(a) (b) (c) (d) (e)

97. _____
(a) (b) (c) (d) (e)

Pigments

98. Cadmium Types
(a) (b) (c) (d) (e)

99. Chromium Types
(a) (b) (c) (d) (e)

100. Copper Types
(a) (b) (c) (d) (e)

101. Lead Types
(a) (b) (c) (d) (e)

102. Luminescent Types
(a) (b) (c) (d) (e)

103. Mercury Types
(a) (b) (c) (d) (e)

SH 033961

Chemicals and Other Raw Materials (Cont'd.)

(a) Mill process chemical; (b) Used for process maintenance work; (c) More than 500 lb/year used; (d) Less than 500 lb/year used; (e) Surface application.

104. Organic Types
(a) (b) (c) (d) (e)

105. Zinc Types
(a) (b) (c) (d) (e)

Other

106. Iron Oxide
(a) (b) (c) (d) (e)

107. _____
(a) (b) (c) (d) (e)

108. _____
(a) (b) (c) (d) (e)

Plasticizers (list types)

109. _____
(a) (b) (c) (d) (e)

110. _____
(a) (b) (c) (d) (e)

111. _____
(a) (b) (c) (d) (e)

Polymers

112. Cellulose Acetate
(a) (b) (c) (d) (e)

113. Cyclized Rubber
(a) (b) (c) (d) (e)

114. Ethyl Cellulose
(a) (b) (c) (d) (e)

115. Nitrocellulose
(a) (b) (c) (d) (e)

116. Polyethylene
(a) (b) (c) (d) (e)

Other

117. Upgrade Chemicals B-64
(a) (b) (c) (d) (e)

118. Hercules Reten 304
(a) (b) (c) (d) (e)

119. _____
(a) (b) (c) (d) (e)

Preservatives

120. Borax
(a) (b) (c) (d) (e)

121. Formaldehyde
(a) (b) (c) (d) (e)

122. Glyoxal
(a) (b) (c) (d) (e)

Other

123. Dowicide G
(a) (b) (c) (d) (e)

124. _____
(a) (b) (c) (d) (e)

125. _____
(a) (b) (c) (d) (e)

126. Resins (wet strength)
(a) (b) (c) (d) (e)

Resins (other)
(list types)

127. Scripset 700
(a) (b) (c) (d) (e)

128. _____
(a) (b) (c) (d) (e)

129. _____
(a) (b) (c) (d) (e)

130. Rosin Size
(a) (b) (c) (d) (e)

131. Salt or Brine (NaCl)
(a) (b) (c) (d) (e)

132. Salt Cake
(a) (b) (c) (d) (e)

Location:

SA 033962

Chemicals and Other Raw Materials (Cont'd.)

(a) Mill process chemical; (b) Used for process maintenance work; (c) More than 500 lb/year used; (d) Less than 500 lb/year used; (e) Surface application.

Slimicides (Biocides)
(list trade names)

133. Upgrade Chemical L.S. 91
(a) (b) (c) (d) (e)

134. _____
(a) (b) (c) (d) (e)

135. _____
(a) (b) (c) (d) (e)

136. Sodium Bisulfite
(a) (b) (c) (d) (e)

137. Sodium Aluminate
(a) (b) (c) (d) (e)

138. Sodium Carbonate
(a) (b) (c) (d) (e)

139. Sodium Chlorate
(a) (b) (c) (d) (e)

140. Sodium Hydrosulfite
(a) (b) (c) (d) (e)

141. Sodium Hydroxide
(a) (b) (c) (d) (e)

142. Sodium Silicate
(a) (b) (c) (d) (e)

143. Sodium Sulfide
(a) (b) (c) (d) (e)

144. Sodium Sulfite
(a) (b) (c) (d)

145. Sulfur
(a) (b) (c) (d) (e)

146. Sulfur Dioxide
(a) (b) (c) (d) (e)

147. Sulfuric Acid
(a) (b) (c) (d) (e)

148. Synthetic Size
(a) (b) (c) (d) (e)

149. TSPP
(a) (b) (c) (d) (e)

150. Varnish
(a) (b) (c) (d) (e)

Varnish Remover
(list trade names)

151. _____
(a) (b) (c) (d) (e)

152. _____
(a) (b) (c) (d) (e)

153. _____
(a) (b) (c) (d) (e)

Washing Aids (list types)

154. _____
(a) (b) (c) (d) (e)

155. _____
(a) (b) (c) (d) (e)

156. _____
(a) (b) (c) (d) (e)

157. Zinc Hydrosulfite
(a) (b) (c) (d) (e)

Other

158. DuBois Chemical MG2 Grease
(a) (b) (c) (d) (e)

159. _____
(a) (b) (c) (d) (e)

160. _____
(a) (b) (c) (d) (e)

161. _____
(a) (b) (c) (d) (e)

162. _____
(a) (b) (c) (d) (e)

163. _____
(a) (b) (c) (d) (e)

164. _____
(a) (b) (c) (d) (e)

Location.

SA 033963

Mill: Wausau Division Location: Kalamazoo, MI

IV. MANUFACTURING PROCESS AND INTERNAL POLLUTION CONTROL PRACTICES

A. General

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

B. Paper Mill

182. How many paper machines does mill have?

2

183. Give the number of paper machines the mill has which utilize savealls, or similar devices, for fiber recovery.

2

184. Give the number of paper machines the mill has which have savealls, or similar devices, that permit reuse of clarified water.

2

C. Additional Information

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

Mill: Monarch Division Location: Kalamazoo, MI

V. WATER USAGE AND EFFLUENT TREATMENT PRACTICES

Instructions for Completing Section V

Section V requests information on the mill's wastewater treatment practices. In Section VIII a general schematic of the effluent treatment system is requested. You have the option of providing any of the data requested in Section V on the schematic. If you do this, please indicate on the question(s) involved that the data is presented on the schematic.

A. Water Usage

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

B. Background Data

211. Indicate the method(s) of disposal of the mill wastewater.

(a) Direct

(b) Indirect

(c) Self-contained

(d) Other (please describe) _____

212. Please give the year in which the following portions of the mill's existing wastewater treatment system were started up.

	Year of Startup
a. Primary Treatment System	1953
b. Secondary Treatment System	

C. Indirect Discharger (discharge to a POTW) please provide the following information:

215. Is raw wastewater pretreated externally prior to discharge to the POTW? (Pretreatment is considered to be any treatment device external from the mill production processes which is utilized prior to a primary and secondary treatment system, or prior to discharge by an indirect discharger to a POTW.)

(a) Yes Not Applicable

(b) No

SA 033965

Mill: Monarch Division Location: Kalamazoo, MI

216. Give the treatment process used by the POTW to which your mill discharge (Include biological and physical-chemical treatment if applicable)

(a) Activated sludge

(b) Aerated lagoon

(c) Oxidation ditch

(d) Trickling filter

(e) None

(f) Other (indicate type) _____

Not Applicable

219. Give the preliminary treatment method used, if any.

(a) Neutralization

(b) Screening (indicate type used) _____

(c) Other (please describe) _____

Not Applicable

221. Indicate the primary treatment method used, if applicable.

(a) Clarifier

(b) Sedimentation lagoon

(c) Mechanically cleaned sedimentation lagoon

(d) Other (please describe) _____

(e) Not applicable

Not Applicable

225. Give the type of biological treatment used, if applicable.

(a) Storage oxidation basin

(b) Aerated Stabilization basin

(c) Activated sludge (air or oxygen)

(d) Other (please describe) _____

(e) Not applicable

Not Applicable

Mill: Monarch Division Location: Kalamazoo, MI

D. Direct Discharger please provide the following information:

228. Is wastewater discharge continuous or non-continuous (effluent stored and discharged when receiving water conditions allow) when production facilities are operating?

(a) Continuous

(b) Non-continuous - daily

(c) Non-continuous - seasonally/intermittent

E. Preliminary Treatment (Direct Discharger) NOT APPLICABLE

230. Give the preliminary treatment method used, if any.

(a) Neutralization

(b) Screening (indicate type used) _____

(c) Other (please describe) _____

F. Primary Treatment (Direct Discharger)

232. Indicate the method used for primary treatment.

(a) Clarifier

(b) Sedimentation lagoon

(c) Mechanically cleaned sedimentation lagoon

(d) Other (please describe) _____

G. Biological Treatment (Direct Discharger) NOT APPLICABLE

236. Give the type of biological treatment used.

(a) Storage oxidation basin

(b) Aerated stabilization basin

(c) Activated sludge (air or oxygen)

(d) Other (please describe) _____

Mill: Monarch Division Location: Kalamazoo, MI

H. Secondary Solids Removal

237. If secondary clarification is used, what is the method used?

(a) Clarifier NOT APPLICABLE

(b) Reactor clarifier

(c) Settling basin

(d) Other (please indicate) _____

238. Is a holding pond utilized after secondary treatment? NOT APPLICABLE

(a) Yes

(b) No

I. Spray Irrigation

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

J. Sludge Handling and Disposal Underflow from Clarifier

240. Indicate the method used for sludge disposal.

(a) Lagooning For dewatering

(b) Landfill Ultimate disposal lagoon solids

(c) Hog fuel boiler

(d) Other (please describe) _____

K. Foam Control

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

L. Cost Information

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

SA 033968

Mill: Monarch Location: Kalamazoo, Mi

M. Site Conditions and Availability of Land

NO QUESTIONS FOR THIS ITEM ARE TO BE ANSWERED IN PART I.

N. Wastewater Characteristics

251-254. Give the (1976) wastewater loads indicated below:

	Indirect and Direct Dichargers Please Answer (251) Paper Mill	(252) Total Raw Wastewater	Direct Discharger Only Please Answer (253) Secondary Treatment System Effluent	(254) Final Effluent
a. Flow, MGD				
(1) Average Day	2.042	2.659		2.659
(2) Maximum Day	3.188	3.650		3.650
(3) Maximum Month	2.242	2.697		2.699
b. BOD, lbs/day				
(1) Average Day	2,116	2,396		362
(2) Maximum Day	4,500	5,274		498
(3) Maximum Month	2,133	2,415		366
c. TSS, lbs/day				
(1) Average Day	9,930	9,150		145
(2) Maximum Day	20,887	20,962		483
(3) Maximum Month	10,589	10,678		182

IV. FUEL AND ENERGY

NO QUESTIONS FOR THIS SECTION ARE TO BE ANSWERED IN PART I.

VII. PRIORITY POLLUTANTS

See Next Page

VIII. PROCESS SCHEMATICS

NO QUESTIONS FOR THIS SECTION ARE TO BE ANSWERED IN PART I.

Mill: Monarch Division Location: Kalamazoo, MI

As per E. C. Jordan Co. letter of October 18, 19[illegible] this section will be returned with Part II.

VII. PRIORITY POLLUTANT COMPOUNDS

Please fill in the following information for those priority pollutants which, to your knowledge, are in your raw water supply, or used, or generated in any of the processes in the mill (refer to the following pages for the priority pollutant list). Use the number shown to identify the compound.

It should be noted that many mills may be using quantities of the listed chemicals as additives, cleaning solution, or solvents which are purchased and referred to by a trade name. Please supply trade names of all proprietary type chemicals used in the mill.

Compound Number or Trade Name	Process Where Compound is Used or Generated	Describe Use		Sampling or Monitoring Program for Compound (Yes or No)
		Quantity	Frequency	

SA 033970

PRIORITY POLLUTANTS

1. *acenaphthene
2. *acrolein
3. *acrylonitrile
4. *benzene
5. *benzidine
6. *carbon tetrachloride (tetrachloromethane)

*CHLORINATED BENEZENES (other than dichlorobenzenes)

7. chlorobenezene
8. 1,2,4-trichlorobenzene
9. hexachlorobenzene

*CHLORINATED ETHANES

10. 1,2-dichloroethane
11. 1,1,1-trichloroethane
12. hexachloroethane
13. 1,1-dichloroethane
14. 1,1,2-trichloroethane
15. 1,1,2,2-tetrachloroethane
16. chloroethane

*CHLOROALKYL ETHERS

17. bis(chloromethyl) ether
18. bis(2-chloroethly) ether
19. 2-chloroethyl vinyl ether (mixed)

*CHLORINATED NAPHTALENE

20. 2-chloronaphthalene

*CHLORINATED PHENOLS (Other than those listed elsewhere; includes chlorinated cresols)

21. 2,4,6-trichlorophenol
22. parachlorometa cresol
23. *chloroform (trichloromethane)
24. *2-chlorophenol

*DICHLOROBENZENES

25. 1,2-dichlorobenzene
26. 1,3-dichlorobenzene
27. 1,4-dichlorobenzene

*DICHLOROBENZIDINE

28. 3,3'-dichlorobenzidine

*DICHLOROETHYLENES

29. 1,1-dichloroethylene
30. 1,2-trans-dichloroethylene
31. *2,4-dichlorophenol

*DICHLOROPROPANE AND DICHLOROPROPENE

32. 1,2-dichloropropane
33. 1,3-dichloropropylene (1,3-dichloropropen
34. *2,4-dimethylphenol

*DINITROTOLUENE

35. 2,4-dinitrotoluene
36. 2,6-dinitrotoluene
37. *1,2-diphenylhydrazine
38 *ethylbenzene
39. *fluoranthene

*Specific compounds and chemical classes as listed in the consent degree.

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PRIORITY POLLUTANTS (continued)

***HALOETHERS** (other than those listed elsewhere)

40. 4-chlorophenyl phenyl ether
41. 4-bromophenyl phenyl ether
42. bis(2-chloroisopropyl) ether
43. bis(2-chloroethoxy) methane

***HALOMETHANES** (other than those listed elsewhere)

44. methylene chloride (dichloromethane)
45. methyl chloride (chloromethane)
46. methyl bromide (bromomethane)
47. bromoform (tribromomethane)
48. dichlorobromomethane
49. trichlorofluoromethane
50. dichlorodifluoromethane
51. chlorodibromomethane
52. *hexachlorobutadiene
53. *hexachlorocyclopentadiene
54. *isophorone
55. *naphthalene
56. *nitrobenzene

***NITROPHENOLS**

57. 2-nitrophenol
58. 4-nitrophenol
59. *2,4-dinitrophenol
60. 4,6-dinitro-o-cresol

***NITROSAMINES**

61. N-nitrosodimethylamine
62. N-nitrosodiphenylamine
63. N-nitrosodi-n-propylamine
64. *pentachlorophenol
65. *phenol

***PHTHALATE ESTERS**

66. bis(2-ethylhexyl) phthalate
67. butyl benzyl phthalate
68. di-n-butyl phthalate
69. di-n-octyl phthalate
70. diethyl phthalate
70. diethyl phthalate

***POLYNUCLEAR AROMATIC HYDROCARBONS**

72. benzo(a)anthracene (1,2-benzanthracene)
73. benzo(a)pyrene (3,4-benzopyrene)
74. 3,4-benzofluoranthene
75. benzo(k)fluoranthene (11,12-benzofluoranthe)
76. chrysene
77. acenaphthylene
78. anthracene
79. benzo(ghi)perylene (1,12-benzoperylene)
80. fluroene
81. phenathrene
82. dibenzo (a,h)anthracene (1,2,5,6-dibenzanthracene)
83. indeno (1,2,3-cd)pyrene (2,3-o-phenylenepyrene)
84. pyrene
85. *tetrachloroethylene
86. *toluene
87. *trichloroethylene
88. *vinyl chloride (chloroethylene)

PESTICIDES AND METABOLITES

89. *aldrin
90. *dieldrin
91. *chlordane (technical mixture & metabolites)

*Specific compounds and chemical classes as listed in the consent degree.

SA 033972

PRIORITY POLLUTANTS (continued)

***DDT AND METABOLITES**

92. 4,4'-DDT
93. 4,4'-DDE (p,p'-DDX)
94. 4,4'-DDD (p,p'-TDE)

***ENDOSULFAN AND METABOLITES**

95. a-endosulfan-Alpha
96. b-endosulfan-Beta
97. endosulfan sulfate

***ENDRIN AND METABOLIES**

98. endrin
99. endrin aldehyde

***HEPTACHLOR AND METABOLITES**

100. heptachlor
101. heptachlor epoxide

***HEXACHLOROCYCLOHEXANE (all isomers)**

102. a-BHC-Alpha
103. b-BHC-Beta
104. r-BHC (lindane)-Gamma
105. g-BHC-Delta

***POLYCHLORINATED BIPHENYLS (PCB's)**

106. PCB-1242 (Arochlor 1242)
107. PCB-1254 (Arochlor 1254)
108. PCB-1221 (Arochlor 1221)
109. PCB-1232 (Arochlor 1232)
110. PCB-1248 (Arochlor 1248)
111. PCB-1260 (Arochlor 1260)
112. PCB-1016 (Arochlor 1016)

113. *Toxaphene
114. *Antimony (Total)
115. *Arsenic (Total)
116. *Asbestos (Fibrous)
117. *Beryllium (Total)
118. *Cadmium (Total)
119. *Chromium (Total)
120. *Copper (Total)
121. *Cyanide (Total)
122. *Lead (Total)
123. *Mercury (Total)
124. *Nickel (Total)
125. *Selenium (Total)
126. *Silver (Total)
127. *Thallium (Total)
128. *Zinc (Total
129. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD

ADDITIONAL COMPOUNDS

130. Abietic Acid
131. Deyhydroabietic Acid
132. Isopimaric Acid
133. Pimaric Acid
134. Oleic Acid
135. Linoleic Acid
136. Linolenic Acid
137. 9, 10 - Epoxystearic Acid
138. 9, 10 - Dichlorostearic Acid
139. Monochlorodehydroabietic Acid
140. Dichlorodehydroabietic Acid
141. 3, 4, 5 - Trichloroguaiacol
142. Tetrachloroguaiacol

*Specific compounds and chemical classes as listed [illegible]

SH 033923

PRIORITY POLLUTANTS (continued)

***DDT AND METABOLITES**

92. 4,4'-DDT
93. 4,4'-DDE (p,p'-DDX)
94. 4,4'-DDD (p,p'-TDE)

***ENDOSULFAN AND METABOLITES**

95. a-endosulfan-Alpha
96. b-endosulfan-Beta
97. endosulfan sulfate

***ENDRIN AND METABOLITES**

98. endrin
99. endrin aldehyde

***HEPTACHLOR AND METABOLITES**

100. heptachlor
101. heptachlor epoxide

***HEXACHLOROCYCLOHEXANE (all isomers)**

102. a-BHC-Alpha
103. b-BHC-Beta
104. r-BHC (lindane)-Gamma
105. g-BHC-Delta

***POLYCHLORINATED BIPHENYLS (PCB's)**

106. PCB-1242 (Arochlor 1242)
107. PCB-1254 (Arochlor 1254)
108. PCB-1221 (Arochlor 1221)
109. PCB-1232 (Arochlor 1232)
110. PCB-1248 (Arochlor 1248)
111. PCB-1260 (Arochlor 1260)
112. PCB-1016 (Arochlor 1016)

113. *Toxaphene
114. *Antimony (Total)
115. *Arsenic (Total)
116. *Asbestos (Fibrous)
117. *Beryllium (Total)
118. *Cadmium (Total)
119. *Chromium (Total)
120. *Copper (Total)
121. *Cyanide (Total)
122. *Lead (Total)
123. *Mercury (Total)
124. *Nickel (Total)
125. *Selenium (Total)
126. *Silver (Total)
127. *Thallium (Total)
128. *Zinc (Total
129. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD

ADDITIONAL COMPOUNDS

130. Abietic Acid
131. Deyhydroabietic Acid
132. Isopimaric Acid
133. Pimaric Acid
134. Oleic Acid
135. Linoleic Acid
136. Linolenic Acid
137. 9, 10 - Epoxystearic Acid
138. 9, 10 - Dichlorostearic Acid
139. Monochlorodehydroabietic Acid
140. Dichlorodehydroabietic Acid
141. 3, 4, 5 - Trichloroguaiacol
142. Tetrachloroguaiacol

*Specific compounds and chemical classes as listed in the [illegible]

SD 033974

PART I

CONFIDENTIALITY CLAIMED FOR THE FOLLOWING

Question Number	Question Number	Question Number	Question Number	Question Number	Question Number	Question Number
2A 3,4,8						
13 A,F						
15 A, C						
42						
48						
49						
61						
62						
64						
65						
72						
73						
75						
92						
106						
117						
118						
127						
133						
148						
158						
251 a,b,c						
252 a,b,c						
254 a,b,c						

NONDOMESTIC USER SURVEY

RETURN COMPLETED FORMS TO:

City of Kalamazoo
1415 N. Harrison
Kalamazoo, MI 49007

SURVEY FORM

FOR QUESTIONS CONTACT:

Jean Eldred
Wastewater Division

000097

SQ 036593

NON-DOMESTIC USER SURVEY FORM

I. GENERAL INFORMATION

SCM CORPORATION
Corporate Name

Address - Street and Number

New York, N.Y.
City Zip Code

ALLIED PAPER ~~INC.~~ Co., INC
Plant Name

2030 PORTAGE
Address - Street and Number

KALAMAZOO MI 49003
City Zip Code

345-7131
Plant Phone Number

Name and Title of Person Completing Report Phone Number

The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is true, complete and accurate.

Date Signature of Responsible Official Title

Print or Type Name of Responsible Official

1. Nature of business: _____

(2621) ( ) ( ) Other ( ) ( ) ( )

2. Write the appropriate Standard Industrial Code (SIC) in the box above.

3. What types of waste(s) do you discharge to the sanitary sewer?

A. [X] Sanitary B. [X] Wash Water C. [ ] Rinse Waters
D. [X] Cooling Water E. [X] Process Waters F. [ ] Scrubber Waters
G. [ ] Other _____

4. Do you use, store or discharge any acids, bases or materials listed in Table I?

A. [X] Yes B. [ ] No

5. Does the operation of your processes or wastewater treatment facility result in a residual residue or sludge type waste?

A. [X] Yes B. [ ] No

MDNR 4-14-81

SA 036594

6. Schedule of operations:

A. _____ Number of employees.

B. 24 hrs/day 7 days/wk 3 shifts/day 12 mos/yr

7. A. If you answered only A to question three(3), sign and return this portion of survey form.

B. If you answer to question three (3) is other than A, complete Section II through VIII of this form, sign it, and return to:

Jean Eldred, Industrial Surveillance Technician
Kalamazoo Wastewater Treatment Plant
1415 N. Harrison
Kalamazoo, Michigan 49007

II. PROCESS AND PRODUCTS

1. Provide a complete list of products used or stored on the site which appear on Table I (the consolidated Critical Materials List and Priority Pollutants List). If you use trade name or proprietary chemicals which do not list contents on the package, indicate the trade name(s) and manufacturer's name(s) at this time. You must also write the manufacturer to request an OSHA Form 20 for each such substance and provide POTW with the necessary information when available, i.e., use numbers NOT chemical name, Table I:

( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )

( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )

2. Describe each process (add sheets if needed): 1. The combination of pulp, fillers and misc. chemicals to form paper. 2. The coating of scrid paper.

3. Is any of the enclosed information considered to be confidential?
A. ( ) Yes B. ( ) No C. If yes, explain what and why (all requests for confidentiality will be processed according to 40 CFR Part 2): _____

4. Water Supply: A. (X) Municipal B. ( ) Well C. (X) Other, explain _____

D. Consumption Used: A. _____ (ft^3, gals per time unit)
B. 0 ~~2.35 MGD~~ (ft^3, gals per time unit)
Consumption Total: 2.35 MGD

5. **Does your facility have a Spill Prevention Control and Counter Measures Program (SPOC) CFR 112 or a Pollution Incident Prevention Plan (PIPP) MDNR Rule five (5).**

A. (X) Yes B. ( ) No

II. PROCESS WASTEWATER

1. Identify outfalls (circle):

   (A) Surface waters. Name of receiving waters: Portage Creek
   B. Septic tank-file field.
   C. Surface of ground.
   (D) Municipal sanitary sewer.
   E. Storm sewer.
   F. Other, describe _____
   (include line drawing(s) of process flows and all floor drain discharging to each outfall)

2. Volumes of discharge: TOTAL
   A. Average Daily Flow: 2.35 MGD gallon per day
   B. Maximum Daily Flow: 3.00 MGD gallon per day
   C. Flow is: [X] Measured [ ] Estimated

   City
   1.00 MGD
   2.00 MGD

3. Type of wastewater:

   A. % Process _____ B. % Cooling _____ C. % Sanitary _____ D. % Other _____

4. Are drains (roof, parking lot, etc.) discharging into the sanitary sewer? Not direct
   A. [ ] Yes B. [ ] No If yes, estimate area drained _____ sq. ft.

IV. DISPOSAL PRACTICES (add extra pages if necessary)

1. How do you dispose of spent chemicals (explain)? _____
   A. Volume Disposed of: _____
2. How do you dispose of spoilage (explain)? _____
3. How do you dispose of precipitates and/or sludges (explain)? _____
   A. Volume Disposed of: _____
4. Name of waste hauler: _____ License No. _____
5. Do you have pretreatment for your wastes? A. [X] Yes B. [ ] No

   If box A is checked: Type: Dorr Oliver Clarifier
   Size: 100 ft
   Frequency of Operation: Continuous

   If box B is checked, where and how are the wastes disposed of?

   To sanitary sewer [ ] To storm sewer [ ]
   Industrial Waste Hauler [ ] Other [ ]
   If other, explain _____

6. Do you have any air emission control equipment which would discharge to the sewer system? A. ( ) Yes B. ( ) No

7. Are any of the materials listed in Table I discharged with the wastes?

   A. ( ) Yes B. ( ) No

   C. List by number from Table I: ( )

V. SPILL PREVENTION (add extra pages if necessary)

1. List bulk materials stored on site (liquid, solids), (including clear agents). Alum, Retention Aid, Rosin Size, Clay

   Material:_____ Volume:_____ Location in plant:_____

   Material:_____ Volume:_____ Location in plant:_____

2. Is separate secondary containment provided for bulk materials?

   A. ( ) Yes B. ( ) No C. ( ) Some

3. Is separate secondary containment provided for those processes which contain chemicals listed in Table I?

   A. ( ) Yes B. ( ) No

4. Has separate storage been provided for those chemicals which cause hazardous reactions, i.e., acid with cyanide, acids with bases?

   A. ( ) Yes B. ( ) No

VI. SAMPLING AND ANALYSIS

1. Are sampling points available for each:

   A. Process Line ( ) Yes ( ) No

   B. Outfall (X) Yes ( ) No

2. Do you sample your process discharge(s)? (X) Yes ( ) No

3. Type of sample A. ( ) Grab B. (X) Composited

   If Box B is checked, is sample composited to A. ( ) Flow B. (X) Time

4. Is a sampling vault and/or manhole provided?

   A. ( ) Yes B. ( ) No

5. Sampling schedule (i.e., 24-hour, during working hours, etc.): 24 hr Composite

6. What laboratory analysis (wastewater/solids) can be run on site? BOD, Susp Solids, Turbidity, pH, Set. Solids.

VII. MISCELLANEOUS

1. Describe any safety precautions to be observed by those visiting at your site: _____

2. Contact Person: Name L. G (Lee) STOEFFLER
   Title MGR.
   Phone Number 345-7131 EXT 336

NON-DOMESTIC USER SURVEY FORM

PRETREATMENT: The treatment of a wastewater contribution, at the point of origin, prior to release to a public sewer or collection system.

PROCESS WATERS: Waters that come in contact with an end product or with materials incorporated in an end product.

SAMPLE, COMPOSITE: A composite sample should contain a minimum of eight (3) discrete samples taken at equal time intervals over the compositing period or proportional to the flow rate over the compositing period (EPA).

SAMPLE, GRAB: A sample which is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time (EPA).

SECONDARY CONTAINMENT: If a tank or vessel storing a chemical ruptures, the secondary containment structure will prevent the loss of the chemical to the environment. Secondary containment should be provided with a volume of 150% of the storage vessel. All potentially polluting materials such as oil, acid, cyanide, etc., should be stored within a secondary containment structure, usually a concrete wall or earthen dike.

SPENT CHEMICALS: Chemicals that have exhausted their usefulness.

STANDARD INDUSTRIAL CODE (SIC): This is a way of identifying industrial types with a four digit code. A manual with the codes is entitled the Standard Industrial Classification Manual and is available in the reference section of most libraries.

TABLE I

The following is a list of the U.S. EPA Priority Pollutants consolidated with the current Critical Materials Register compiled by the Michigan Department of Natural Resources.

ORGANICS

1. acids
2. acenaphthene
3. acetone cyanohydrin
4. 2-acetylaminofluorene
5. acrolein
6. acrylic acid
7. acrylonitrile
8. allyl chloride
9. 2-aminoanthraquinone
10. aminoazobenzene
11. o-aminoazotoluene
12. 4-aminobiphenyl
13. 3-amino-9-ethylcarbazole
14. 1-amino-2-methylanthraquin
15. aminotriazole (amitrole)
16. aniline
17. aniline hydrochloride
18. o-anisidine
19. o-anisidine hydrochloride
20. benz(a)anthracene
21. benzene
22. benzidine
23. benzidine salts
24. benzo(a)pyrene
25. brucine
26. carbon tetrachloride
27. chlorinated benzenes
27. a. chlorobenzene
27. b. 1,2,4-trichlorobenzene
27. c. 1,2-dichlorobenzene
27. d. 1,3-dichlorobenzene
27. e. 1,4-dichlorobenzene
28. chlorinated dibenzofurans
29. chlorinated dioxins
30. chlorinated ethanes
30. a. 1,1,1-trichloroethane
30. b. 1,1-dichloroethane
30. c. chloroethane
30. d. 1,1,2,2-tetrachloroethane
31. chlorinated naphthalene
31. a. 2-chloronaphthalene
32. chlorinated phenols
32. a. 2-chlorophenol
32. b. parachlorometa-cresol
32. c. 2,4-dichlorophenol
33. 1-chloro-2,3-epoxypropane
34. chloroalkyl ethers
35. bis(2-chloroethyl ether
36. chloroform
37. bis(2-chloromethyl) ether
38. 3-(chloromethyl) pyridine hydrochloride
39. 1-(4-chlorophenyl)-3, 3-dimethyl triazene
40. 4-chloro-m-phenylenediamine
41. 4-chloro-o-phenylenediamine
42. chloroprene
43. 5-chloro-o-toluidine
44. p-cresidine
45. 2,4-diaminoanisole sulfate
46. 4,4-diaminodiphenyl ether
47. 2,4-diaminotoluene
48. dibenz (a,h)anthracene
49. tris(dibromopropyl)phosphate
50. di-n-butyl phthalate
51. 3,3-dichlorobenzidine
52. 3,3-dichlorobenzidine salts
53. 1,2-dichloroethane
54. dichloroethylenes
54. a. 1,1-dichloroethylene
54. b. 1,2-trans-dichloroethylene
55. dichloropropane and dichloropropene
55. a. 1,3-dichloropropylene; (1,3-dichloropropene)
55. b. 1,2-dichloropropane
56. 1,2:3,4-diepoxybutane
57. diethyl sulfate
58. 4-dimethylaminoazobenzene
59. dimethylhydrazines
60. 2,4-dimethylphenol
61. 4,6-dinitro-o-cresol
62. 2,4-dinitrophenol
63. 2,4-dinitrotoluene
64. dinitrotoluene
64. a. 2,6-dinitrotoluene
65. di-n-octyl phthalate
66. 1,4-dioxane
67. 2,3-epoxy-1-propanal
68. ethylbenzene
69. ethylene dibromide
70. ethyleneimine
71. ethylene oxide
72. ethylene thiourea
73. bis(2-ethylhexyl)phthalate
74. ethylmethanesulfonate
75. fluoranthene
76. 2-(2-formylhydrazino)-4-(5-nitro-2-fury)-thiazole

ORGANICS CONTINUED ON PAGE 2

77. Haloethers
77. a. 4-chlorophenyl phenyl ether
77. b. 4-bromophenyl phenyl ether
77. c. bis(2-chloroisopropyl) ether
77. d. bis(2-chloroethoxy)metnane
78. Halomethanes
78. a. methylene chloride: (dichloromethane)
78. b. methyl chloride; (chloromethane)
78. c. metnyl bromide; (bromometnane)
78. d. bromoform; (tribromomethane)
78. e. dichlorobromomethane
78. f. trichlorofluoromethane
78. g. dichlorodifluroomethane
78. h. chlorodibromomethane
79. hexachlorobenzene (HCB)
80. hexachlorobutadiene
81. hexachlorocyclohexane
82. hexachlorocyclopentadiene
83. hexachloroethane
84. hydrazobenzene
85. hydroquinone
86. N-(2-hydroxyethyl)ethyleneimine
87. isophorone
88. lactonitrite
89. malachite green
90. methylenebis(2-chloroaniline)
91. 4,4-methylenebis(2-methylaniline)
92. 4,4-methylenebis(N,N-dimethylaniline)
93. 1,2(methylenedioxy)-4-propenyl benzene
94. methyl hydrazine
95. 1-methylnaphthalene
96. 2-methyl-1-nitroanthraquinone
97. mustard gas
98. 1,5-naphthalenediamine
99. 1-naphthylamine
100. 2-naphthylamine
101. 5-nitroacenaphthene
102. 5-nitro-o-anisidine
103. nitrobenzene
104. 4-nitrobiphenyl
105. nitrogen mustard
106. 2-nitrophenol
107. 4-nitrophenol
108. Nitrosamines
108. a. N-nitrosodiphenylamine
108. b. N-nitrosodi-n-propylamine
109. N-nitroso-n-butyl-N-(4-hydroxybutyl) amine
110. N-nitrosodiethylamine
111. N-nitrosodimethylamine
112. p-nitrosodiphenylamine
113. N-nitroso-N-ethylurea
114. N-nitroso-N-methylurea
115. N-nitroso-N-methylurethane
116. N-nitrosomethylvinylamine
117. N-nitrosomorpholine
118. N-nitroso-N-phenylhydroxyl-amine, ammonium salt
119. N-nitrososarcosine
120. pentachloronitrobenzene
121. pentachlorophenol
122. peroxyacetic acid
123. phenol
124. Phthalate esters
124. a. butyl benzyl phthalate
124. b. diethyl phthalate
124. c. dimethyl phthalate
125. piperonyl sulfoxide
126. polybrominated biphenyls (PBB)
127. polychlorinated biphenyls (PCB)
128. polynuclear aromatic hydrocarbons
128. a. 3,4-benzofluoranthene
128 b. benxo(k) fluoranthane; (11,12-benzofluoranthene)
128. c. chrysene
128. d. acenaphthylene
128. e. anthracene
128. f. benzo(ghi)perylene; (1,12-benzoperylene)
128. g. fluorene
128. h. phenathrene
128. i. indeno(1,2,3-cd)pyrene; (2,3-O-phenylenepyrene)
128. j. pyrene
128. k. naphthalene
129. 1,3-propane sultone
130. B-proplolactone
131. 5-propyl-1,3-benzodioxole
132. propyleneimine
133. semicarbazide
134. styrene
135. tetrachloroethylene(perchloroethylene
136. thioacetamide
137. 4,4-thiodianiline
138. thiourea
139. toluene
140. o-toluidine
141. o-toluidine hydrochloride
142. triaryl phosphate esters
143. 1,1,2-trichloroethane
144. trichloroethylene
145. trichlorophenols
146. 2,4,5-trimethylaniline
147. trimethylphosphate
148. vinylchloride
149. xylene

ORGANICS CONTINUED ON PAGE 3

A. INORGANICS

150. antimony
151. arsenic
152. beryllium
153. cadmium
154. chromium
155. cobalt
156. copper
157. cyanides
158. hypochlorite
159. lead
160. lithium
161. mercury
162. nickel
163. selenium
164. silver
165. thallium
166. zinc

B. INORGANICS

167. acids
168. chloramines
169. chlorine
170. hydrazine
171. hydrogen sulfide

C. INORGANICS

172. asbestos (fibrous)

PESTICIDES

173. aldicarb
174. aldrin
175. 4-aminopyridine
176. anilazine
177. antimycin A
178. azinphos-ethyl
179. azinphos-methyl
180. barban
181. bendiocarb
182. benomyl
183. bromoxynil
184. 2(p-tert-butylphenoxy)-isoprophyl-2-chloroethyl sulfite
185. captafol
186. captan
187. carbaryl
188. carbofuran
189. carbophenothion
190. chlordane
191. chlordecone
192. chlorfenvinphos
193. chlorobenzilate

PESTICIDES (Continued)

194. chlorpyrifos
195. clonitralid
196. coumaphos
197. crotoxyphos
198. cycloheximide
199. DDT
200. demeton
201. diallate
202. diazinon
203. dibromochloropropane (DBCP)
204. dichlone
205. dichlorvos
206. dichrotophos
207. dieldrin
208. dimethoate
209. dinocap
210. dinoseb
211. dioxathion
212. disulfoton
213. endosulfan
214. endrin
215. EPN
216. ethion
217. fensulfothion
218. fenthion
219. fluchloralin
220. heptachlor
221. heptachlor epoxide
222. Isomers of hexachlorocyclohexane
222. a. a-BHC-Alpha
222. b. b-BHC-Beta
222. c. g-BHC-Delta
223. leptophos
224. malathion
225. metabolites of DDT
225. a. 4,4'-DDE;(p,p'-DDE)
225. b. 4,4'-DDD;(p,p'-TDE)
225. metabolites of endosulfan
226. a. endosulfan sulfate
227. metabolities of endrin
227. a. endrin aldehyde
228. metabolites of heptachlor
228. a. heptachlor epoxide
229. methomyl
230. methoxychlor
231. methyl mercaptan
232. methyl parathion
233. mevinphos
234. mexacarbate
235. mirex
236. monocrotophos
237. naled
238. nicotine
239. nitrofen
240. oxydemeton-methyl

TABLE I

PESTICIDES (Continued)

241. paraquat
242. parathion
243. phorate
244. phosazetim
245. phosmet
246. phosphamidon
247. rotenone
248. silvex, propylene glycolbutyl ether ester
249. sodium fluoroacetate
250. strychnine
251. sulfallate
252. sulfotepp
253. TDE
254. TEPP
255. terbufos
256. tetrachlorvinphos
257. thiram
258. toxaphene
259. trichlorfon
260. trichlorophenoxyacetic acid (2,4,5-T)
261. trifluralin
262. ziram

ATTACHMENT A

STANDARD INDUSTRIAL CLASSIFICATION CODES

Note: This is an edited list.

Code	Title
AGRICULTURE	
0100	AGRICULTURAL PRODUCTION-CROPS
0200	AGRICULTURAL PRODUCTION-LIVESTOCK
0211	Beef Cattle Feedlots
0241	Dairy Farms
0700	AGRICULTURAL SERVICES
MINING	
1000	METAL MINING
1011	Iron Ores
1021	Copper Ores
1081	Metal Mining Services
1300	OIL AND GAS EXTRACTION
1380	Oil and Gas Field Services
1400	NONMETALIC MINERALS
1422	Crushed and Broken Limestone
1440	Sand and Gravel
1450	Clay and Related Minerals
1470	Chemical and Fertilizer Minerals
1492	Gypsum
CONSTRUCTION	
1500	GENERAL BUILDING CONTRACTORS
1600	HEAVY CONSTRUCTION CONTRACTORS
MANUFACTURING	
2000	FOOD AND KINDRED PRODUCTS
2010	Meat Products
2011	Meat Packing Plants & Slaughter Houses
2020	Dairy Products
2030	Preserved Fruits & Vegetables
2033	Canned Fruits & Vegetables
2035	Pickles, Sauces & Salad Dressings
2037	Frozen Fruits & Vegetables
2040	Grain Mill Products
2043	Cereal Breakfast Foods
2047	Dog, Cat & Other Pet Food
2050	Bakery Products
2060	Sugar and Confectionary Products
2063	Beet Sugar
2070	Fats & Oils
2076	Vegetable Oil Mills
2077	Animal & Marine Fats & Oils

Code	Title
MANUFACTURING (Continued)	
2080	Beverages
2082	Malt Beverages
2084	Wines, brandy, and brandy spirits
2085	Distilled liquor, except brandy
2086	Bottled and canned soft drinks
2087	Flavoring extracts and sirups, nec.
2090	Misc. Foods and Kindred Products
2091	Canned and cured seafoods
2092	Fresh or frozen packaged fish
2200	TEXTILE MILL PRODUCTS
2300	APPAREL AND OTHER TEXTILE PRODUCTS
2400	LUMBER & WOOD PRODUCTS
2420	Sawmills and Planing Mills
2430	Millwork, Plywood & Structure Members
2440	Wood Containers
2448	Wood pallets and skids
2450	Wood Buildings and Mobile Homes
2491	Wood preserving
2492	Particleboard
2500	FURNITURE AND FIXTURES
2600	PAPER AND ALLIED PRODUCTS
2611	Pulp mills
2621	Paper mills except building paper
2631	Paperboard mills
2640	Misc. Converted Paper Products
2650	Paperboard Containers and Boxes
2661	Building paper and board mills
2700	PRINTING AND PUBLISHING
2710	Newspapers
2750	Commercial Printing
2790	Printing Trade Services
2800	CHEMICALS AND ALLIED PRODUCTS
2810	Industrial Inorganic Chemicals
2820	Plastics Materials & Synthetics
2830	Drugs
2840	Soap, Cleaners, and Toilet Goods
2850	Paints and Allied Products
2860	Industrial Organic Chemicals
2870	Agricultural Chemicals
2890	Miscellaneous Chemical Products
2891	Adhesives and sealants

Code	Title
MANUFACTURING (Continued)	
2892	Explosives
2893	Printing Inks
2899	Salt (by evaporation)
2900	PETROLEUM AND COAL PRODUCTS
2911	Petroleum refining
2950	Paving and roofing materials
3000	RUBBER AND MISC. PLASTIC PRODUCTS
3011	Tires and inner tubes
3069	Fabricated rubber products
3079	Miscellaneous plastic products
3100	LEATHER AND LEATHER PRODUCTS
3111	Leather tanning and finishing
3200	STONE,CLAY,AND GLASS PRODUCTS
3220	Glass and Glassware,Pressed or Blown
3241	Cement
3250	Structural Clay Products
3260	Pottery and Related Products
3270	Concrete,Gypsum and Plaster Products
3271	Concrete block and brick
3273	Ready-mixed concrete
3274	Lime
3275	Gypsum products
3290	Misc. Nonmetallic Mineral Products
3291	Abrasive products
3292	Asbestos products
3295	Minerals,ground or treated
3297	Nonclay refractories
3300	PRIMARY METAL INDUSTRIES
3310	Blast Furnaces & Basic Steel Products
3312	Blast Furnaces & Steel Mills
3313	Electrometallurgical products
3315	Steel wire and related products
3316	Cold finishing of steel shapes
3317	Steel pipe and tubes
3320	Iron and Steel Foundries
3321	Gray iron foundries
3322	Malleable iron foundries
3330	Primary Nonferrous Metals
3331	Primary copper
3332	Primary lead
3333	Primary zinc
3334	Primary aluminum
3340	Secondary Nonferrous Metals
3360	Die Casting
3361	Aluminum foundries
3362	Brass,bronze & copper foundries
3390	Misc. Primary Metal Products

Code	Title
MANUFACTURING (Continued)	
3398	Metal heat treating
3400	FABRICATED METAL PRODUCTS
3410	Metal cans & shipping containers
3420	Cutlery,hand tools, & hardware
3430	Plumbing & heating, except electric
3440	Fabricated structural metal products
3442	Metal doors, sash & trim
3443	Fabricated plate work (boiler shops)
3444	Sheet metal work
3450	Screw machine products,bolts, etc.
3460	Metal forgings and stampings
3462	Iron and steel forgings
3463	Nonferrous forgings
3465	Automotive stampings
3470	Metal services
3471	Plating and polishing
3479	Metal coating and allied services
3480	Ordnance and Accessories
3490	Misc. Fabricated Metal Products
3500	MACHINERY, EXCEPT ELECTRICAL
3510	Engines and turbines
3520	Farm and Garden Machinery
3530	Construction & Related Machinery
3540	Meatworking machinery
3550	Special Industry Machinery
3560	General Industrial Machinery
3570	Office & Computing Machines
3580	Refrigeration & Service Machinery
3590	Misc. Machinery, except electrical
3600	ELECTRIC AND ELECTRONIC EQUIPMENT
3610	Electric Distributing Equipment
3620	Electrical Industrial Apparatus
3630	Household appliances
3640	Electric lighting and wiring equipment
3650	Radio & TV Receiving Equipment
3660	Communication Equipment
3670	Electronic Components & Accessories
3690	Misc. Electrical Equipment & Supplies
3700	TRANSPORTATION EQUIPMENT
3710	Motor Vechicles & Equipment
3711	Motor Vechicles & Car Bodies
3714	Motor Vechicles & Accessories
3715	Truck trailers
3720	Aircraft and parts
3730	Ship & Board building and repairing
3740	Railroad Equipment
3750	Motorcycles,Bicycles & Parts
3760	Guided Missles,Space Vechicles Parts

MANUFACTURING (Continued)

3790 Miscellaneous Transportation Equipment
3792 Travel trailers & campers
3795 Tanks and tank components

3800 INSTRUMENTS & RELATED PRODUCTS
3810 Engineering & Scientific Instruments
3820 Measuring & Controlling Devices
3830 Optical Instruments and Lenses
3840 Medical Instruments and Supplies
3860 Photographic Equipment & Supplies

3900 MISCELLANEOUS MANUFACTURING INDUSTRIES
3910 Jewelry, Silverware & Plated Ware
3930 Musical Instruments
3940 Toys & Sporting Goods
3950 Pens, Pencils, Office & Art Supplies
3990 Miscellaneous Manufactures

TRANSPORTATION

4010 RAILROADS

4200 TRUCKING AND WAREHOUSING
4210 Trucking Local & Long Distance
4214 Hauling Liquid Wastes
4221 Farm Product Warehousing & Storage
4222 Refrigerated Warehousing
4230 Trucking Terminal Facilities

4400 WATER TRANSPORTATION
4430 Great Lakes Transportation
4440 Transportation on Rivers and Canals
4452 Ferries
4454 Towing and tugboat services
4460 Water Transportation Services
4463 Marine Cargo Handling

SERVICES

4900 ELECTRIC,GAS & SANITARY SERVICES
4911 Electric Services
4925 Gas production and/or distribution
4953 Refuse systems

5810 EATING & DRINKING PLACES

6512 OFFICE BUILDINGS

7000 HOTELS & OTHER LODGING PLACES
7011 Hotels,motels, & tourist courts

SERVICES (Continued)

7030 Camps and Trailering Parks
7032 Sporting and recreational camps
7210 Laundry, Cleaning & Garment Services
7215 Coin-operated laundries

7391 Laboratories-testing and research

7399 Water softener service

7500 AUTO REPAIR SERVICES & GARAGES
7530 Automotive Repair Shops
7542 Car Washes

7900 AMUSEMENT & RECREATION SERVICES
7933 Bowling alleys
7940 Commercial sports
7941 Sports clubs and promoters
7948 Racing including track operation
7992 Public golf courses
7996 Amusement parks
7997 Membership sports & recreation clubs

8000 HEALTH SERVICES
8050 Nursing and personal care facilities
8060 Hospitals
8070 Medical and Dental Laboratories
8080 Outpatient Care Facilities

NON-DOMESTIC USER SURVEY FORM

I. GENERAL INFORMATION

Allied Paper Inc.	Bryant Mill
Corporate Name	Plant Name
2030 Portage St.	Same
Address - Street and Number	Address - Street and Number
Kalamazoo 49001	Same
City Zip Code	City Zip Code
	345-7131
	Plant Phone Number
U. G. Stoeffler	345-7131
Name and Title of Person Completing Report	Phone Number

The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is true, complete and accurate.

1/13/82	[signature]	Vice President Operatio
Date	Signature of Responsible Official	Title

Thomas E. Flanagan
Print or Type Name of Responsible Official

1. Nature of business: Manufacture of paper

(2621) ( ) ( ) Other ( ) ( ) ( )

2. Write the appropriate Standard Industrial Code (SIC) in the box above.

3. What types of waste(s) do you discharge to the sanitary sewer?

A. (X) Sanitary B. ( ) Wash Water C. ( ) Rinse Waters
D. ( ) Cooling Water E. (X) Process Waters F. ( ) Scrubber Waters
G. ( ) Other _____

4. Do you use, store or discharge any acids, bases or materials listed in Table I?

A. (X) Yes B. ( ) No

5. Does the operation of your processes or wastewater treatment facility result in a residual residue or sludge type waste?

A. (X) Yes B. ( ) No

MDNR 4-14-81

6. Schedule of operations:

A. 560 Number of employees.

B. 24 hrs/day 7 days/wk 3 shifts/day 12 mos/yr

7. A. If you answered only A to question three(3), sign and return this portion of survey form.

B. If you answer to question three (3) is other than A, complete Section II through VIII of this form, sign it, and return to:

Jean Eldred, Industrial Surveillance Technician
Kalamazoo Wastewater Treatment Plant
1415 N. Harrison
Kalamazoo, Michigan 49007

II. PROCESS AND PRODUCTS

1. Provide a complete list of products used or stored on the site which appear on Table I (the consolidated Critical Materials List and Priority Pollutants List). If you use trade name or proprietory chemicals which do not list contents on the package, indicate the trade name(s) and manufacturer's name(s) at this time. You must also write the manufacturer to request an OSHA Form 20 for each such substance and provide POTW with the necessary information when available, i.e., use numbers NOT chemical name, Table I:

( ) (39) ( ) ( ) ( ) ( ) ( ) ( ) ( )

( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )

2. Describe each process (add sheets if needed): _____

3. Is any of the enclosed information considered to be confidential?
A. ( ) Yes B. (X) No C. If yes, explain what and why (all requests for confidentiality will be processed according to 40 CFR Part 2): _____

4. Water Supply: A. ( ) Municipal B. ( ) Well C. (X) Other, explain Portage Creek
D. Consumption Used: A. 150 ft^3/min. (ft^3, gals per time unit)
B. _____ (ft^3, gals per time unit)
Consumption Total: _____

5. Does your facility have a Spill Prevention Control and Counter Measures Program (SPOC) CFR 112 or a Pollution Incident Prevention Plan (PIPP) MDNR Rule five (5).

A. (X) Yes B. ( ) No

III. PROCESS WASTEWATER

1. Identify outfalls (circle):

   (A.) Surface waters. Name of receiving waters: Portage Creek
   B. Septic tank-file field.
   C. Surface of ground.
   (D.) Municipal sanitary sewer.
   E. Storm sewer.
   F. Other, describe _____
   (include line drawing(s) of process flows and all floor drain discharging to each outfall)

2. Volumes of discharge: A. Average Daily Flow: 1.825 milliongallon per day
   B. Maximum Daily Flow: 3.76 million gallon per day
   C. Flow is: (X) Measured ( ) Estimated

3. Type of wastewater:

   A. % Process 100 B. % Cooling _____ C. % Sanitary _____ D. % Other _____

4. Are drains (roof, parking lot, etc.) discharging into the sanitary sewer?
   A. ( ) Yes B. (X) No If yes, estimate area drained _____ sq. ft.

IV. DISPOSAL PRACTICES (add extra pages if necessary)

1. How do you dispose of spent chemicals (explain)? In the waste treatment process
   A. Volume Disposed of: Unknown

2. How do you dispose of spoilage (explain)? Recycled - spoilage meaning "manufactured paper that is off quality."

3. How do you dispose of precipitates and/or sludges (explain)? Clarifier sludge in drying lagoons
   A. Volume Disposed of: 120,000 gals/

4. Name of waste hauler: _____ License No. _____

5. Do you have pretreatment for your wastes? A. (X) Yes B. ( ) No

   If box A is checked: Type: Primary clarification & chemical coagulation
   Size: 100 ft. diameter clarifier
   Frequency of Operation: continuous

   If box B is checked, where and how are the wastes disposed of?

   To sanitary sewer ( ) To storm sewer ( )
   Industrial Waste Hauler ( ) Other ( )
   If other, explain _____

6. Do you have any air emission control equipment which would discharge to the sewer system? A. ( ) Yes B. (X) No

7. Are any of the materials listed in Table I discharged with the wastes?

   A. ( ) Yes B. (X) No

   C. List by number from Table I: ( ) ( ) ( ) ( ) ( ) ( ) ( )
   ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )

V. SPILL PREVENTION (add extra pages if necessary)

1. List bulk materials stored on site (liquid, solids), (including cleaning agents).

   Material: Oil Volume: 500,000 gals. Location in plant: Outside-500 ft. fr Power Plant

   Material: _____ Volume: _____ Location in plant: _____

2. Is separate secondary containment provided for bulk materials?

   A. (X) Yes* B. ( ) No C. ( ) Some *As per PIPP #23313 on Oct. 1977

3. Is separate secondary containment provided for those processes which contain chemicals listed in Table I?

   A. ( ) Yes B. ( ) No

4. Has separate storage been provided for those chemicals which cause hazardous reactions, i.e., acid with cyanide, acids with bases?

   A. ( ) Yes B. ( ) No

VI. SAMPLING AND ANALYSIS

1. Are sampling points available for each:

   A. Process Line (X) Yes ( ) No

   B. Outfall (X) Yes ( ) No

2. Do you sample your process discharge(s)? (X) Yes ( ) No

3. Type of sample A. ( ) Grab B. (X) Composited

   If Box B is checked, is sample composited to A. ( ) Flow B. (X) Time

4. Is a sampling vault and/or manhole provided?

   A. ( ) Yes B. (X) No

5. Sampling schedule (i.e., 24-hour, during working hours, etc.): _____

   24 hour composite

6. What laboratory analysis (wastewater/solids) can be run on site? _____

   All required parameters

VII. MISCELLANEOUS

1. Describe any safety precautions to be observed by those visiting at your site:

All visitors must register at office and be accompanied by a mill employee while on company property.

2. Contact Person: Name U. G. Stoeffler

Title Manager Process Development

Phone Number 345-7131

NON-DOMESTIC USER SURVEY FORM

PRETREATMENT: The treatment of a wastewater contribution, at the point of origin, prior to release to a public sewer or collection system.

PROCESS WATERS: Waters that come in contact with an end product or with materials incorporated in an end product.

SAMPLE, COMPOSITE: A composite sample should contain a minimum of eight (8) discrete samples taken at equal time intervals over the compositing period or proportional to the flow rate over the compositing period (EPA).

SAMPLE, GRAB: A sample which is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time (EPA).

SECONDARY CONTAINMENT: If a tank or vessel storing a chemical ruptures, the secondary containment structure will prevent the loss of the chemical to the environment. Secondary containment should be provided with a volume of 150% of the storage vessel. All potentially polluting materials such as oil, acid, cyanide, etc., should be stored within a secondary containment structure, usually a concrete wall or earthen dike.

SPENT CHEMICALS: Chemicals that have exhausted their usefulness.

STANDARD INDUSTRIAL CODE (SIC): This is a way of identifying industrial types with a four digit code. A manual with the codes is entitled the Standard Industrial Classification Manual and is available in the reference section of most libraries.

TABLE I

The following is a list of the U.S. EPA Priority Pollutants consolidated with the current Critical Materials Register compiled by the Michigan Department of Natural Resources.

ORGANICS

1. acids
2. acenaphthene
3. acetone cyanohydrin
4. 2-acetylaminofluorene
5. acrolein
6. acrylic acid
7. acrylonitrile
8. allyl chloride
9. 2-aminoanthraquinone
10. aminoazobenzene
11. o-aminoazotoluene
12. 4-aminobiphenyl
13. 3-amino-9-ethylcarbazole
14. 1-amino-2-methylanthraquin
15. aminotriazole (amitrole)
16. aniline
17. aniline hydrochloride
18. o-anisidine
19. o-anisidine hydrochloride
20. benz(a)anthracene
21. benzene
22. benzidine
23. benzidine salts
24. benzo(a)pyrene
25. brucine
26. carbon tetrachloride
27. chlorinated benzenes
27. a. chlorobenzene
27. b. 1,2,4-trichlorobenzene
27. c. 1,2-dichlorobenzene
27. d. 1,3-dichlorobenzene
27. e. 1,4-dichlorobenzene
28. chlorinated dibenzofurans
29. chlorinated dioxins
30. chlorinated ethanes
30. a. 1,1,1-trichloroethane
30. b. 1,1-dichloroethane
30. c. chloroethane
30. d. 1,1,2,2-tetrachloroethane
31. chlorinated naphthalene
31. a. 2-chloronaphthalene
32. chlorinated phenols
32. a. 2-chlorophenol
32. b. parachlorometa-cresol
32. c. 2,4-dichlorophenol
33. 1-chloro-2,3-epoxypropane
34. chloroalkyl ethers
35. bis(2-chloroethyl ether
36. chloroform
37. bis(2-chloromethyl) ether
38. 3-(chloromethyl) pyridine hydrochloride
39. 1-(4-chlorophenyl)-3, 3-dimethyl triazene
40. 4-chloro-m-phenylenediamine
41. 4-chloro-o-phenylenediamine
42. chloroprene
43. 5-chloro-o-toluidine
44. p-cresidine
45. 2,4-diaminoanisole sulfate
46. 4,4-diaminodiphenyl ether
47. 2,4-diaminotoluene
48. dibenz (a,h)anthracene
49. tris(dibromopropyl)phosphate
50. di-n-butyl phthalate
51. 3,3-dichlorobenzidine
52. 3,3-dichlorobenzidine salts
53. 1,2-dichloroethane
54. dichloroethylenes
54. a. 1,1-dichloroethylene
54. b. 1,2-trans-dichloroethylene
55. dichloropropane and dichloropropene
55. a. 1,3-dichloropropylene; (1,3-dichloropropene)
55. b. 1,2-dichloropropane
56. 1,2:3,4-diepoxybutane
57. diethyl sulfate
58. 4-dimethylaminoazobenzene
59. dimethylhydrazines
60. 2,4-dimethylphenol
61. 4,6-dinitro-o-cresol
62. 2,4-dinitrophenol
63. 2,4-dinitrotoluene
64. dinitrotoluene
64. a. 2,6-dinitrotoluene
65. di-n-octyl phthalate
66. 1,4-dioxane
67. 2,3-epoxy-1-propanal
68. ethylbenzene
69. ethylene dibromide
70. ethyleneimine
71. ethylene oxide
72. ethylene thiourea
73. bis(2-ethylhexyl)phthalate
74. ethylmethanesulfonate
75. fluoranthene
76. 2-(2-formylhydrazino)-4-(5-nitro-2-fury)-thiazole

ORGANICS CONTINUED ON PAGE 2

77. Haloethers
77. a. 4-chlorophenyl phenyl ether
77. b. 4-bromophenyl phenyl ether
77. c. bis(2-chloroisopropyl) ether
77. d. bis(2-chloroethoxy)methane
78. Halomethanes
78. a. methylene chloride: (dichloromethane)
78. b. methyl chloride; (chloromethane)
78. c. methyl bromide; (bromomethane)
78. d. bromoform; (tribromomethane)
78. e. dichlorobromomethane
78. f. trichlorofluoromethane
78. g. dichlorodifluroomethane
78. h. chlorodibromomethane
79. hexachlorobenzene (HCB)
80. hexachlorobutadiene
81. hexachlorocyclohexane
82. hexachlorocyclopentadiene
83. hexachloroethane
84. hydrazobenzene
85. hydrocuinone
86. N-(2-hydroxyethyl)ethyleneimine
87. isophorone
88. lactonitrite
89. malachite green
90. methylenebis(2-chloroaniline)
91. 4,4-methylenebis(2-methylaniline)
92. 4,4-methylenebis(N,N-dimethylaniline)
93. 1,2(methylenedioxy)-4-propenyl benzene
94. metnyl hydrazine
95. 1-methylnaphthalene
96. 2-methyl-1-nitroanthraquinone
97. mustard gas
98. 1,5-naphthalenediamine
99. 1-naphthylamine
100. 2-naphthylamine
101. 5-nitroacenaphthene
102. 5-nitro-o-anisidine
103. nitrobenzene
104. 4-nitrobiphenyl
105. nitrogen mustard
106. 2-nitrophenol
107. 4-nitrophenol
108. Nitrosamines
108. a. N-nitrosodiphenylamine
108. b. N-nitrosodi-n-propylamine
109. N-nitroso-n-butyl-N-(4-hydroxybutyl) amine
110. N-nitrosodiethylamine
111. N-nitrosodimethylamine
112. p-nitrosodiphenylamine
113. N-nitroso-N-ethylurea
114. N-nitroso-N-methylurea
115. N-nitroso-N-methylurethane
116. N-nitrosomethylvinylamine
117. N-nitrosomorpholine
118. N-nitroso-N-phenylhydroxyl-amine, ammonium salt
119. N-nitrososarcosine
120. pentachloronitrobenzene
121. pentachlorophenol
122. peroxyacetic acid
123. phenol
124. Phthalate esters
124. a. butyl benzyl phthalate
124. b. diethyl phthalate
124. c. dimethyl phthalate
125. piperonyl sulfoxide
126. polybrominated biphenyls (PBB)
127. polychlorinated biphenyls (PCB)
128. polynuclear aromatic hydrocarbons
128. a. 3,4-benzofluoranthene
128 b. benxo(k) fluoranthane; (11,12-benzofluoranthene)
128. c. chrysene
128. d. acenaphthylene
128. e. anthracene
128. f. benzo(ghi)perylene; (1,12-benzoperylene)
128. g. fluorene
128. h. phenathrene
128. i. indeno(1,2,3-cd)pyrene; (2,3-O-phenylenepyrene)
128. j. pyrene
128. k. naphthalene
129. 1,3-propane sultone
130. B-proplolactone
131. 5-propyl-1,3-benzodioxole
132. propyleneimine
133. semicarbazide
134. styrene
135. tetrachloroethylene(perchloroethylene
136. thioacetamide
137. 4,4-thiodianiline
138. thiourea
139. toluene
140. o-toluidine
141. o-toluidine hydrochloride
142. triaryl phosphate esters
143. 1,1,2-trichloroethane
144. trichloroethylene
145. trichlorophenols
146. 2,4,5-trimethylaniline
147. trimethylphosphate
148. vinylchloride
149. xylene

ORGANICS CONTINUED ON PAGE 3

A. INORGANICS

150. antimony
151. arsenic
152. beryllium
153. cadmium
154. chromium
155. cobalt
156. copper
157. cyanides
158. hypochlorite
159. lead
160. lithium
161. mercury
162. nickel
163. selenium
164. silver
165. thallium
166. zinc

B. INORGANICS

167. acids
168. chloramines
169. chlorine
170. hydrazine
171. hydrogen sulfide

C. INORGANICS

172. asbestos (fibrous)

PESTICIDES

173. aldicarb
174. aldrin
175. 4-aminopyridine
176. anilazine
177. antimycin A
178. azinphos-ethyl
179. azinphos-methyl
180. barban
181. bendiocarb
182. benomyl
183. bromoxynil
184. 2(p-tert-butylphenoxy)-isoprophyl-2-chloroethyl sulfite
185. captafol
186. captan
187. carbaryl
188. carbofuran
189. carbophenothion
190. chlordane
191. chlordecone
192. chlorfenvinphos
193. chlorobenzilate

PESTICIDES (Continued)

194. chlorpyrifos
195. clonitralid
196. coumaphos
197. crotoxyphos
198. cycloheximide
199. DDT
200. demeton
201. diallate
202. diazinon
203. dibromochloropropane (DBCP)
204. dichlone
205. dichlorvos
206. dichrotophos
207. dieldrin
208. dimethoate
209. dinocap
210. dinoseb
211. dioxathion
212. disulfoton
213. endosulfan
214. endrin
215. EPN
216. ethion
217. fensulfothion
218. fenthion
219. fluchloralin
220. heptachlor
221. heptachlor epoxide
222. Isomers of hexachlorocyclohexane
222. a. a-BHC-Alpha
222. b. b-BHC-Beta
222. c. g-BHC-Delta
223. leptophos
224. malathion
225. metabolites of DDT
225. a. 4,4'-DDE;(p,p'-DDE)
225. b. 4,4'-DDD;(p,p'-TDE)
226. metabolites of endosulfan
226. a. endosulfan sulfate
227. metabolities of endrin
227. a. endrin aldehyde
228. metabolites of heptachlor
228. a. heptachlor epoxide
229. methomyl
230. methoxychlor
231. methyl mercaptan
232. methyl parathion
233. mevinphos
234. mexacarbate
235. mirex
236. monocrotophos
237. naled
238. nicotine
239. nitrofen
240 oxydemeton-methyl

PESTICIDES (Continued)

241. paraquat
242. parathion
243. phorate
244. phosazetim
245. phosmet
246. phosphamidon
247. rotenone
248. silvex, propylene glycolbutyl ether ester
249. sodium fluoroacetate
250. strychnine
251. sulfallate
252. sulfotepp
253. TDE
254. TEPP
255. terbufos
256. tetrachlorvinphos
257. thiram
258. toxaphene
259. trichlorfon
260. trichlorophenoxyacetic acid (2,4,5-T)
261. trifluralin
262. ziram

ATTACHMENT A

STANDARD INDUSTRIAL CLASSIFICATION CODES

Note: This is an edited list.

Code	Title
AGRICULTURE	
0100	AGRICULTURAL PRODUCTION-CROPS
0200	AGRICULTURAL PRODUCTION-LIVESTOCK
0211	Beef Cattle Feedlots
0241	Dairy Farms
0700	AGRICULTURAL SERVICES
MINING	
1000	METAL MINING
1011	Iron Ores
1021	Copper Ores
1081	Metal Mining Services
1300	OIL AND GAS EXTRACTION
1380	Oil and Gas Field Services
1400	NONMETALIC MINERALS
1422	Crushed and Broken Limestone
1440	Sand and Gravel
1450	Clay and Related Minerals
1470	Chemical and Fertilizer Minerals
1492	Gypsum
CONSTRUCTION	
1500	GENERAL BUILDING CONTRACTORS
1600	HEAVY CONSTRUCTION CONTRACTORS
MANUFACTURING	
2000	FOOD AND KINDRED PRODUCTS
2010	Meat Products
2011	Meat Packing Plants & Slaughter Houses
2020	Dairy Products
2030	Preserved Fruits & Vegetables
2033	Canned Fruits & Vegetables
2035	Pickles, Sauces & Salad Dressings
2037	Frozen Fruits & Vegetables
2040	Grain Mill Products
2043	Cereal Breakfast Foods
2047	Dog, Cat & Other Pet Food
2050	Bakery Products
2060	Sugar and Confectionary Products
2063	Beet Sugar
2070	Fats & Oils
2076	Vegetable Oil Mills
2077	Animal & Marine Fats & Oils

Code	Title
MANUFACTURING (Continued)	
2080	Beverages
2082	Malt Beverages
2084	Wines, brandy, and brandy spirits
2085	Distilled liquor, except brandy
2086	Bottled and canned soft drinks
2087	Flavoring extracts and sirups, nec.
2090	Misc. Foods and Kindred Products
2091	Canned and cured seafoods
2092	Fresh or frozen packaged fish
2200	TEXTILE MILL PRODUCTS
2300	APPAREL AND OTHER TEXTILE PRODUCTS
2400	LUMBER & WOOD PRODUCTS
2420	Sawmills and Planing Mills
2430	Millwork, Plywood & Structure Members
2440	Wood Containers
2448	Wood pallets and skids
2450	Wood Buildings and Mobile Homes
2491	Wood preserving
2492	Particleboard
2500	FURNITURE AND FIXTURES
2600	PAPER AND ALLIED PRODUCTS
2611	Pulp mills
2621	Paper mills except building paper
2631	Paperboard mills
2640	Misc. Converted Paper Products
2650	Paperboard Containers and Boxes
2661	Building paper and board mills
2700	PRINTING AND PUBLISHING
2710	Newspapers
2750	Commercial Printing
2790	Printing Trade Services
2800	CHEMICALS AND ALLIED PRODUCTS
2810	Industrial Inorganic Chemicals
2820	Plastics Materials & Synthetics
2830	Drugs
2840	Soap, Cleaners, and Toilet Goods
2850	Paints and Allied Products
2860	Industrial Organic Chemicals
2870	Agricultural Chemicals
2890	Miscellaneous Chemical Products
2891	Adhesives and sealants

Code	Title
MANUFACTURING (Continued)	
2892	Explosives
2893	Printing Inks
2899	Salt (by evaporation)
2900	PETROLEUM AND COAL PRODUCTS
2911	Petroleum refining
2950	Paving and roofing materials
3000	RUBBER AND MISC. PLASTIC PRODUCTS
3011	Tires and inner tubes
3069	Fabricated rubber products
3079	Miscellaneous plastic products
3100	LEATHER AND LEATHER PRODUCTS
3111	Leather tanning and finishing
3200	STONE,CLAY,AND GLASS PRODUCTS
3220	Glass and Glassware,Pressed or Blown
3241	Cement
3250	Structural Clay Products
3260	Pottery and Related Products
3270	Concrete,Gypsum and Plaster Products
3271	Concrete block and brick
3273	Ready-mixed concrete
3274	Lime
3275	Gypsum products
3290	Misc. Nonmetallic Mineral Products
3291	Abrasive products
3292	Asbestos products
3295	Minerals,ground or treated
3297	Nonclay refractories
3300	PRIMARY METAL INDUSTRIES
3310	Blast Furnaces & Basic Steel Products
3312	Blast Furnaces & Steel Mills
3313	Electrometallurgical products
3315	Steel wire and related products
3316	Cold finishing of steel shapes
3317	Steel pipe and tubes
3320	Iron and Steel Foundries
3321	Gray iron foundries
3322	Malleable iron foundries
3330	Primary Nonferrous Metals
3331	Primary copper
3332	Primary lead
3333	Primary zinc
3334	Primary aluminum
3340	Secondary Nonferrous Metals
3360	Die Casting
3361	Aluminum foundries
3362	Brass,bronze & copper foundries
3390	Misc. Primary Metal Products

Code	Title
MANUFACTURING (Continued)	
3398	Metal heat treating
3400	FABRICATED METAL PRODUCTS
3410	Metal cans & shipping containers
3420	Cutlery,hand tools, & hardware
3430	Plumbing & heating, except electric
3440	Fabricated structural metal products
3442	Metal doors, sash & trim
3443	Fabricated plate work (boiler shops)
3444	Sheet metal work
3450	Screw machine products,bolts, etc.
3460	Metal forgings and stampings
3462	Iron and steel forgings
3463	Nonferrous forgings
3465	Automotive stampings
3470	Metal services
3471	Plating and polishing
3479	Metal coating and allied services
3480	Ordnance and Accessories
3490	Misc. Fabricated Metal Products
3500	MACHINERY, EXCEPT ELECTRICAL
3510	Engines and turbines
3520	Farm and Garden Machinery
3530	Construction & Related Machinery
3540	Meatworking machinery
3550	Special Industry Machinery
3560	General Industrial Machinery
3570	Office & Computing Machines
3580	Refrigeration & Service Machinery
3590	Misc. Machinery, except electrical
3600	ELECTRIC AND ELECTRONIC EQUIPMENT
3610	Electric Distributing Equipment
3620	Electrical Industrial Apparatus
3630	Household appliances
3640	Electric lighting and wiring equipment
3650	Radio & TV Receiving Equipment
3660	Communication Equipment
3670	Electronic Components & Accessories
3690	Misc. Electrical Equipment & Supplies
3700	TRANSPORTATION EQUIPMENT
3710	Motor Vechicles & Equipment
3711	Motor Vechicles & Car Bodies
3714	Motor Vechicles & Accessories
3715	Truck trailers
3720	Aircraft and parts
3730	Ship & Board building and repairing
3740	Railroad Equipment
3750	Motorcycles,Bicycles & Parts
3760	Guided Missles,Space Vechicles Parts

MANUFACTURING (Continued)

3790 Miscellaneous Transportation Equipment
3792 Travel trailers & campers
3795 Tanks and tank components

3800 INSTRUMENTS & RELATED PRODUCTS
3810 Engineering & Scientific Instruments
3820 Measuring & Controlling Devices
3830 Optical Instruments and Lenses
3840 Medical Instruments and Supplies
3860 Photographic Equipment & Supplies

3900 MISCELLANEOUS MANUFACTURING INDUSTRIES
3910 Jewelry, Silverware & Plated Ware
3930 Musical Instruments
3940 Toys & Sporting Goods
3950 Pens, Pencils, Office & Art Supplies
3990 Miscellaneous Manufactures

TRANSPORTATION

4010 RAILROADS

4200 TRUCKING AND WAREHOUSING
4210 Trucking Local & Long Distance
4214 Hauling Liquid Wastes
4221 Farm Product Warehousing ~~& Storage~~
4222 Refrigerated Warehousing
4230 Trucking Terminal Facilities

4400 WATER TRANSPORTATION
4430 Great Lakes Transportation
4440 Transportation on Rivers and Canals
4452 Ferries
4454 Towing and tugboat services
4460 Water Transportation Services
4463 Marine Cargo Handling

SERVICES

4900 ELECTRIC, GAS & SANITARY SERVICES
4911 Electric Services
4925 Gas production and/or distribution
4953 Refuse systems

5810 EATING & DRINKING PLACES

6512 OFFICE BUILDINGS

7000 HOTELS & OTHER LODGING PLACES
7011 Hotels, motels, & tourist courts

SERVICES (Continued)

7030 Camps and Trailering Parks
7032 Sporting and recreational camps
7210 Laundry, Cleaning & Garment Services
7215 Coin-operated laundries

7391 Laboratories-testing and research

7399 Water softener service

7500 AUTO REPAIR SERVICES & GARAGES
7530 Automotive Repair Shops
7542 Car Washes

7900 AMUSEMENT & RECREATION SERVICES
7933 Bowling alleys
7940 Commercial sports
7941 Sports clubs and promoters
7948 Racing including track operation
7992 Public golf courses
7996 Amusement parks
7997 Membership sports & recreation clubs

8000 HEALTH SERVICES
8050 Nursing and personal care facilities
8060 Hospitals
8070 Medical and Dental Laboratories
8080 Outpatient Care Facilities

R & D
FILE COPY
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RATIO REACTING FOR STREAM IMPROVEMENT
SURVEY OF SETTLEABLE SOLIDS REMOVAL
EQUIPMENT AND WET SOLIDS HANDLING PRACTICES

Date 12-6-63

A. MILL DESCRIPTION

Name of Mill Allied Paper Co. (Monarch)

Mill Location Kalamazoo, Michigan

Capacity 48 tons/day average

Pulping Process None

B. CLARIFIER SIZE AND EQUIPMENT DATA

Diameter 90 ft. Center depth (water level to floor) 18' 1"

Sidewall water depth 12' 2¾" ft. Stilling well 9'6" ft x 12'

Skimmer provided? No Collector mechanism mfgr Dorr

Design torque on collecting mechanism 72,000

Sludge collection sump _____ annular X pocket

Sludge draw offlines 6 inches, number 2

Sludge pumping facilities:

Manufacturer Moyno Type Screw

Model _____ Rated flow 100 gpm

Actual flow _____ Variable speed X

Pumping cycle, continuous _____ intermittent X

Is clarifier used as thickener? Yes Has thickening been attempted in clarifier? Were there problems? _____

Is overload or breakage of collecting mechanism common? No

Is sludge line or sludge sump plugging common? No

Sedimentation system appurtenances:

Effluent screens 1" bar screen

Effluent pumps 1 @ 4300 gpm shartle fan pump

Pump cycle control float

Flow measurement devices rectangular 4' wier

Sampling devices Yes

Cost data:

Clarifier $204,000.00 Piping

Miscellaneous

Remarks: (Describe operating problems and pertinent observations)

C. EFFLUENT AND SLUDGE CHARACTERISTICS

	[illegible]	Clarifier [illegible]
Flow, MGD	[illegible]	[illegible]
Total solids, ppm	[illegible]	[illegible]
Percent ash	[illegible]	[illegible]
Suspended solids, ppm	[illegible]	[illegible]
Percent ash	[illegible]	[illegible]
Settleable solids, ppm	[illegible]	[illegible]
BOD, ppm	[illegible]	[illegible]

Sludge Characteristics

Volume 8,000-10,000 GPD Solids content 5%

Ash content _____ Fibre content (200 mesh) 25% dry soli

Remarks:

_____

_____

_____

_____

_____

_____

D. SLUDGE HANDLING PRACTICE

Dewatering

a) Storage basin with overflow _____ without overflow

b) Drying beds: No. _____ Size _____ Soil type _____

How cleaned _____

Sludge solids content _____

c) Mechanical dewatering. Equipment _____ Mfgr. _____

No _____ Size _____ Coagulant dosage _____

Loading rate lb/ft² or GPM _____

Cake handling facilities _____

Remarks:

_____

_____

_____

_____

Final Disposal

How disposed same lagoon landfill Where

How hauled Problems encountered

Sludge Disposal Cost Data

Cover land costs, bed cleaning costs, and trucking costs. Power used in mechanical dewatering, labor costs. Maintenance costs.

Remarks:

b. GENERAL LIMITS AND SETTING

WATER QUALITY DIVISION
4056 Plainfield Avenue, N. E.
Grand Rapids, Michigan 49505

November 29, 1976

Mr. U. G. Stoeffler, Manager
Process Development
Allied Paper Incorporated
Kalamazoo, Michigan 49003

Dear Mr. Stoeffler:

Enclosed are two copies of the "Report of An Industrial Wastewater Survey" conducted at Allied Paper's Monarch Mill on August 16-18, 1976. The report includes the volume of wastewater discharged and results of the chemical analyses performed on the composite of the collected effluent. In addition, grab samples were obtained for certain determinations.

The results of the survey indicate that Allied Paper's discharge to Portage Creek from the Monarch clarifier met the initial limitations contained in N.P.D.E.S. Permit No. MI 0000779 at the time of the survey. However, there are some items identified in the survey report which I would like to call to your attention.

A phenol concentration of 0.68 mg/l and 0.45 mg/l was detected in the Monarch clarifier discharge to Portage Creek (Table 1). This is in excess of the recommended discharge level of 0.03 mg/l for this parameter. What is the source of this material and what is the method for controlling the discharge of this material?

The survey also identified a discharge of leachate from the sludge disposal area which enters a ditch and flows into Portage Creek. Has Allied eliminated this leachate discharge? If not, the existing permit may be revised to include this discharge.

The sand filter backwash from the Bryant Mill's water system is not covered under the existing N.P.D.E.S. Permit. Your letter of August 6, 1976 indicated that this backwash water discharge is under study with the recommendation of introducing this backwash water into the Bryant clarifier. When is this scheduled to be completed?

You should also note the BOD versus TOC results in Table 1. Plans submitted by Allied Paper to meet the July 1, 1977 effluent BOD loadings

more

were predicated on the use of a TOC analyzer on the effluent discharge as a method for adjusting the BOD discharge to Portage Creek. This was based on a BOD/TOC factor of 1.02. You will note in the survey that the BOD/TOC factor is approximately 1.7. Therefore, we must stress the fact that the relationship between these two parameters must be evaluated and documented at frequent intervals and the proper adjustments made in calibration and discharge.

Lastly, Allied Paper should review their sampling and preservation techniques. This is in reference to the BOD samples being held from Monday to Thursday and set for incubation on Friday, infrequent calibration of the DO meter, composite sample not refrigerated, composite sample collected in a 30-gallon drum, and pH being run on the composite sample rather than a grab sample.

We would appreciate receiving your comments and/or course of action taken on the items cited by December 30, 1976.

Very truly yours,

WATER QUALITY DIVISION

Chester Harvey,
District Engineer

RP/mc
cc: Karl Zollner

93-1761

Howard A. Tanner, Director

WATER RESOURCES COMMISSION
4056 Plainfield Avenue, N. E.
Grand Rapids, Michigan 49505

July 15, 1975

Allied Paper Incorporated
1608 Lake Street
Kalamazoo, Michigan 49003

Attention: Mr. Ray J. Willie

Dear Mr. Willie:

Enclosed you will find two copies of an industrial wastewater survey report at the Monarch Mill made in May of 1975. The report is self-explanatory but there are three points that should be emphasized, and dictates corrective action on the part of the company.

The first point is the excessive amount of suspended solids shown on May 5, 1975. While this may be the effect of low pH, the reason should be determined and adjustment made to prevent this. Second, the lasting foam observed in Portage Creek needs corrective action. Finally, there appears to be a question on the method for reporting settleable solids. The correct method should be in mg/liter.

Very truly yours,

WATER RESOURCES COMMISSION

Chester Harvey,
Basin Engineer

CH/mc
cc: Karl Zollner
R. Christensen

93-1776

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

RECEIVED
SEP 7 1977
DISTRICT 3
WATER QUALITY DIV.

To: Karl Zollner & Chester Harvey

From: Gary Boersen GB

Date: August 31, 1977

Subject: Wastewater Survey at Allied Paper Inc., July 18-19, 1977

The revisions of the permit limitations on the Monarch Charifier's discharge to Portage Creek has resulted in Allied Paper's rerouting of flow from the Bryant Clarifier to the Monarch Clarifier. The company has initiated this policy to take full advantage of these new BOD loadings. Results of this survey indicate that this may lead to conflicts between the company and the state regarding the compliance of the company's discharge.

During the survey a Stevens Flow Recorder was installed on the 49' existing full channel weir on the Monarch Clarifier discharge. The weir location is subject to high velocity, turbulance and almost no approach channel. Flow for the survey period obtained by staff was 1100 M^3/day greater than the company's flow of 10,400 M^3/day. These two flows are within 10 percent which is an acceptable range. Re-evaluation of the state's flow chart obtained from the weir showed a flow of 10,400 M^3/day using the lowest side of the curve and 12,300 M^3/day using the high side with an average of the two being 11,400 M^3/day. The plant obtains its flow by means of a Robert Shaw capacitance meter in the pipe prior to discharge to Portage Creek.

The greatest potential problem currently is the BOD concentration. The split of the sample between the company and our staff resulted in our laboratory's concentration being 11 mg/l greater than the companys. Using the company's low flow, they still exceed their discharge by 23 kg/day using our BOD concentration. It appears as if the company may have some problems running BOD samples. Two other samples were split with the company: the Bryant discharge and the sludge underdrainage. Our laboratory's BOD concentration of the Bryant discharge was 100 mg/l compared to 62 mg/l for the company. No reading was obtained for the sludge underdrainage because the sample D.O. was higher than the blanks for the company. The BOD concentrations on the MOR for the two days of the survey were about half that obtained by the survey crew.

Both BOD concentrations and flow will continue to be important parameters as long as the company attempts to use the maximum loading possible. The flow measurement will be a constant problem because there is presently no other suitable measuring location. What will have to be resolved is the BOD concentrations. Our two grab samples indicate our BOD composite is not excessive. Perhaps in the future the company and state should run more than one sample to insure a more accurate value.

GB:mm

1C06t-B-C.S/ 0-1

93-1784

State of Michigan Office Building
350 Ottawa Avenue, N. W.
Grand Rapids, Michigan 49503

May 23, 1978

Mr. U. G. Stoeffler
Manager, Process Development
Allied Paper Incorporated
Paper Mills Division
Kalamazoo, Michigan 49003

Dear Les:

Enclosed are two copies of an industrial wastewater survey report. The time of the survey was February 27 and 28, 1978. I must apologize for not sending these sooner. I found them today in a "work-to-do" file. They have been on my desk for the past thirty days.

If according to your telephone call, you disagree with our method of B.O.D. determination, tell us. If you question the flow data, indicate that also.

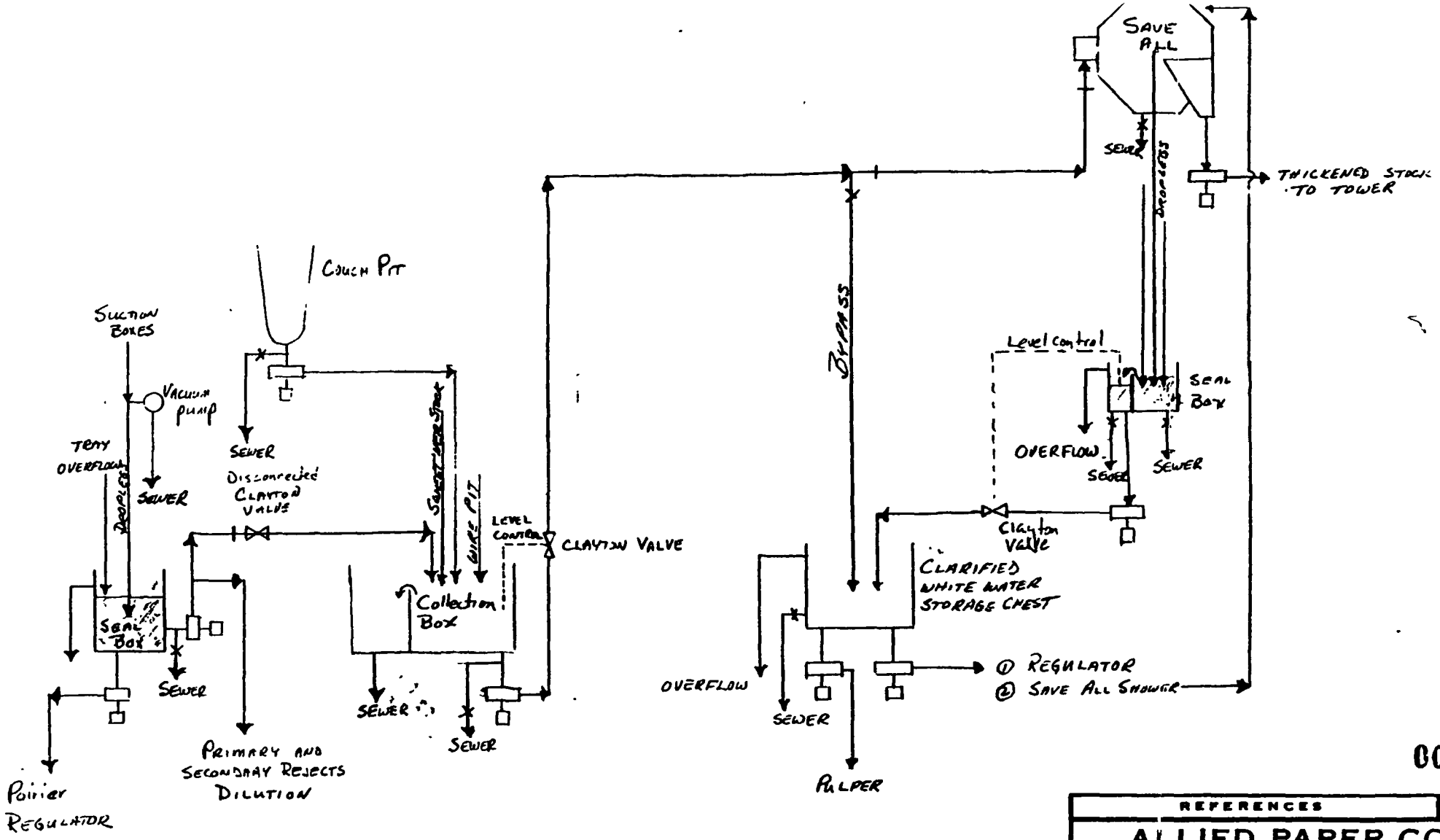
If your records show you are always in compliance on solids, B.O.D., etc., develop this point.

Very truly yours,

WATER QUALITY DIVISION

Chester Harvey,
District Engineer

CH/mc
Enclosures



000044

REFERENCES	DWG. NO.

ALLIED PAPER CORP.

MILL: MONARCH MILL
KALAMAZOO, MICHIGAN

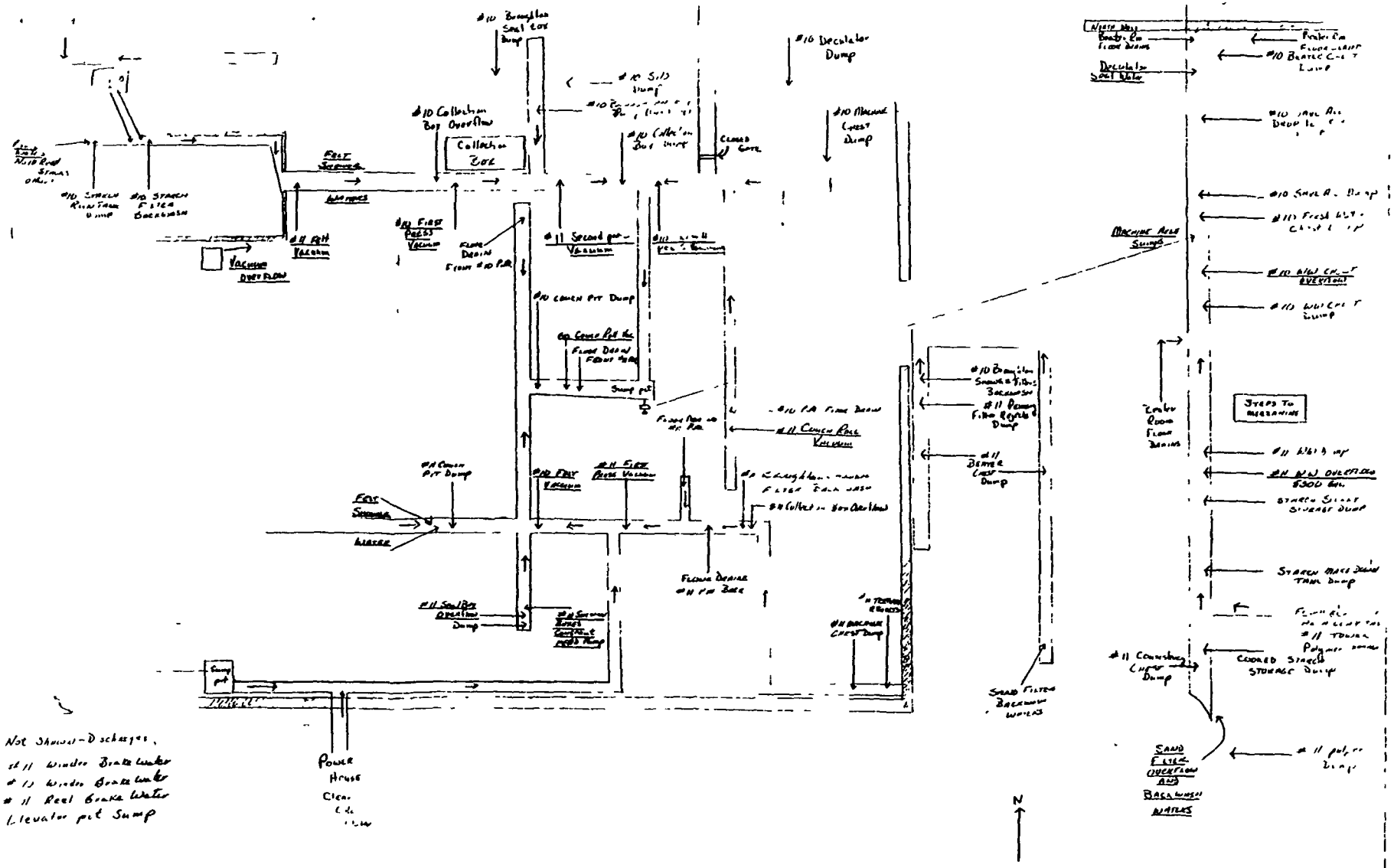
TITLE: # 11 SAVE ALL COLLECTION AND WHITE WATER SYSTEM

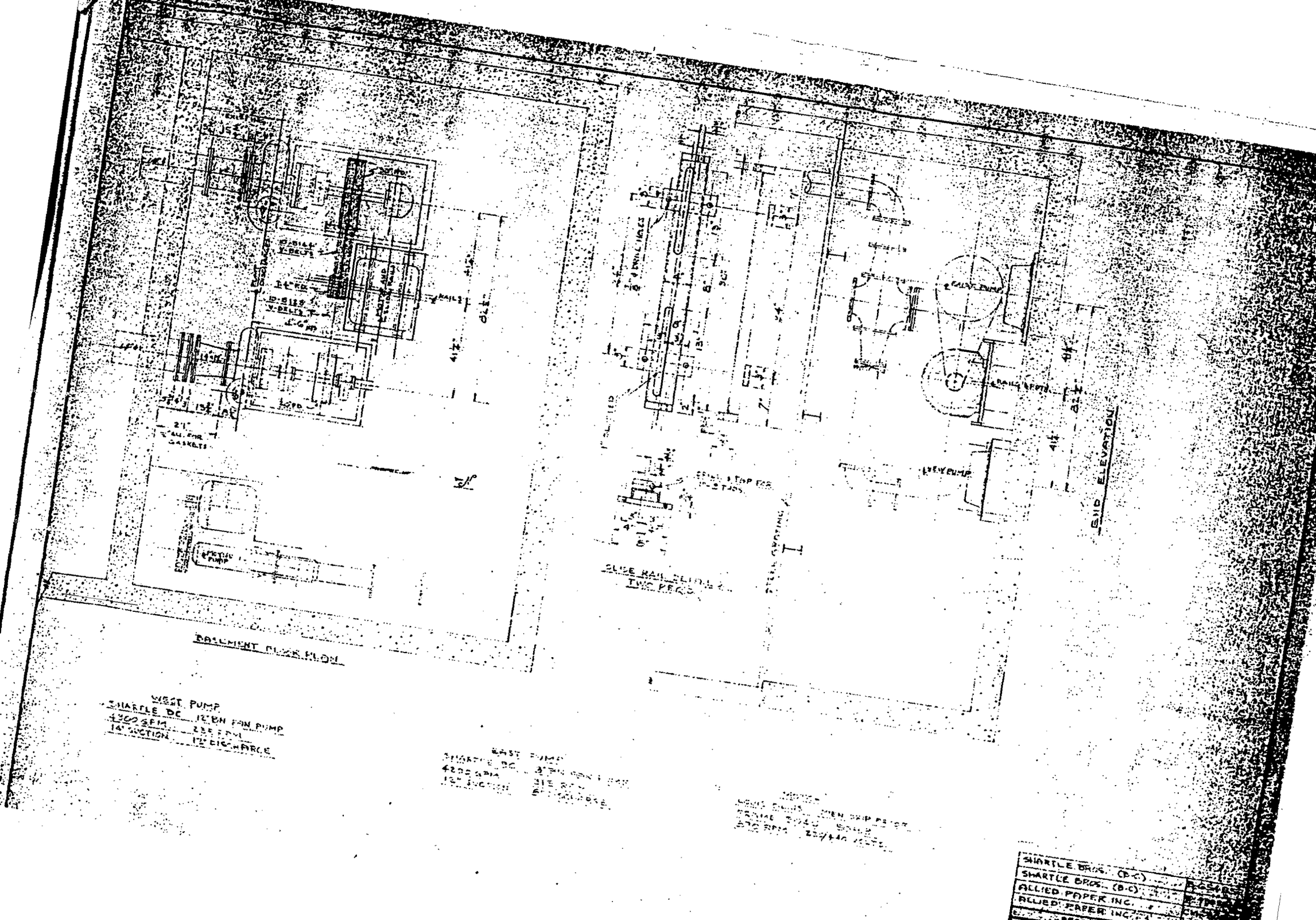
REVISIONS
SWEETNER, Broughton Vacuum, 2-14-79

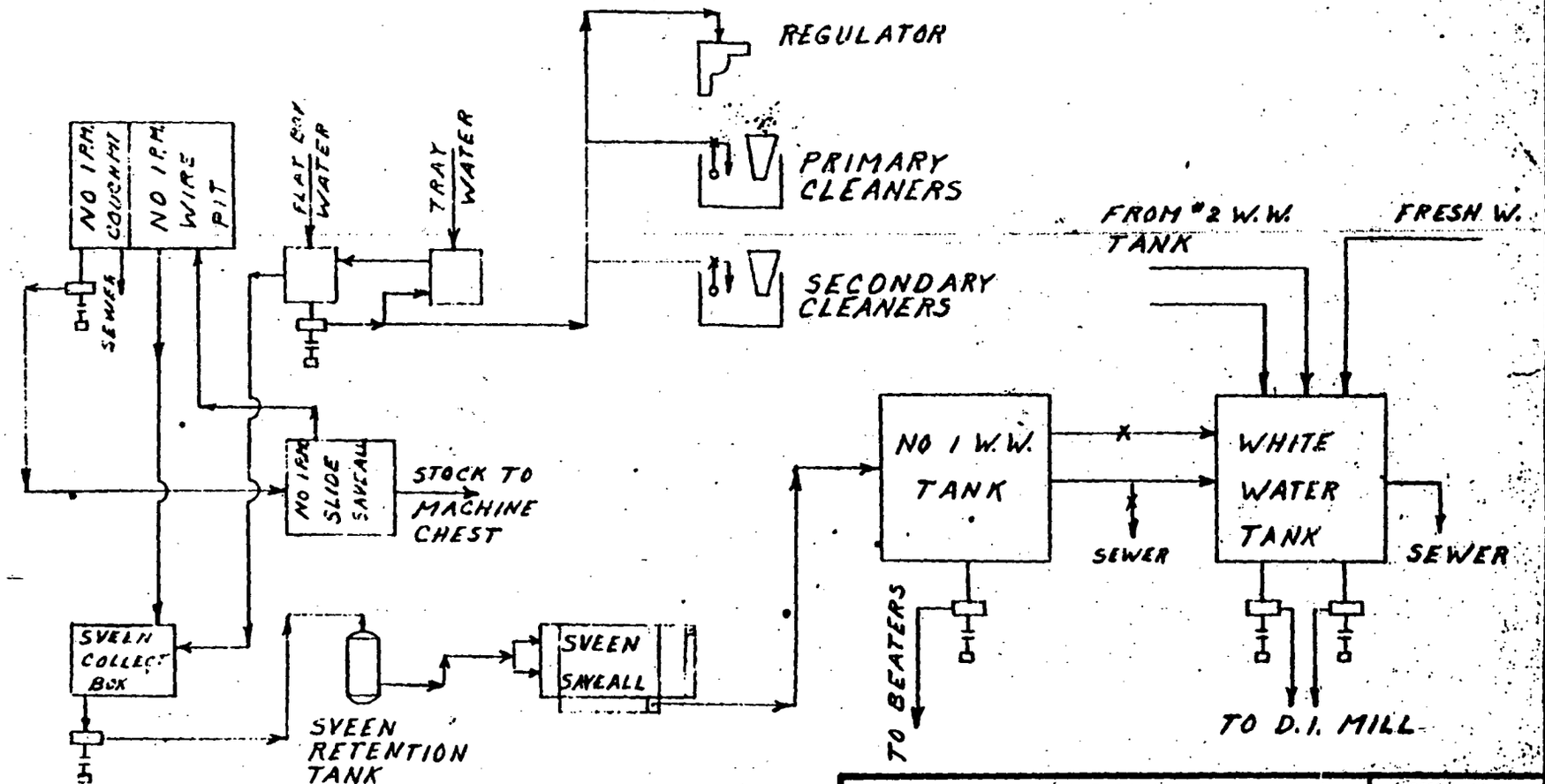
		MO.	DAY	YR.
SCALE	None			
DRAWN	J Sheppmeyer	2	5	79
TRACED				
CHECKED				
CHECKED				
APPROVED				

DWG. NO.

SA 048302


#10 Brownlow Seal Box Dump
#10 Decolator Dump
#10 Collection Box Overflow
Collection Box
Closed Gate
#10 Machine Chest Dump
Felt Screen
Wires
#10 Screen Rejects Dump
#10 Screen Filter Backwash
#11 RH Vacuum
Vacuum Overflow
#10 First Press Vacuum
Floor Drain From #10 RH
#11 Second Press Vacuum
#10 Couch Pit Dump
Floor Drain From #10 RH
Sump pit
#10 RH Floor Drain
#11 Couch Roll Vacuum
#10 Couch Pit Dump
#10 Felt Vacuum
#11 Felt Press Vacuum
Felt Screen
Wires
Floor Drain #11 RH Base
#11 Soap Box Overflow Dump
#11 Machine Chest Dump
Power House Clear Cold Water
Machine Room Sumps
#10 Brownlow Screen & Filter Backwash
#11 Paper Filter Rejects Dump
#11 Beater Chest Dump
Sand Filter Backwash Waters
Floor Drain
Steps To Mezzanine
#11 Wet Lap
#11 Wet Lap Overflow
Starch Storage Dump
Starch Make Down Tank Dump
#11 Tower Polymer
Cooked Starch Storage Dump
#11 Coagulating Chemical Dump
Sand Filter Overflow and Backwash Waters
#11 polymer Dump
N
Not Showed - Discharges,
#11 Winder Brake Water
#11 Winder Brake Water
#11 Reel Brake Water
Elevator pit Sump
Note Underlined Sources Have A Common Flow To Sewer
Name Doubles Not Included Here
#10 Polymer
#10 Tower
Rosin and Cl2 Stop Flow
#11 Tower
REFERENCES
DWG NO.
ALLIED PAPER CORP.
MILL
Monarch
Kalamazoo
TITLE
Waste Stream Flow Diagram
Basement
REVISIONS
DWG NO.
000045


BASEMENT PLOT PLAN
END ELEVATION
WEST PUMP
SHARPLE DC 12" BN FAN PUMP
4200 GPM
14" SUCTION 12" DISCHARGE
EAST PUMP
SHARPLE BROS. (B-C)
SHARPLE BROS. (B-C)
ALLIED PAPER INC.
ALLIED PAPER INC.



REFERENCES	DWG. No.

ALLIED PAPER CORP.

MILL	KALAMAZOO
	KING MILL

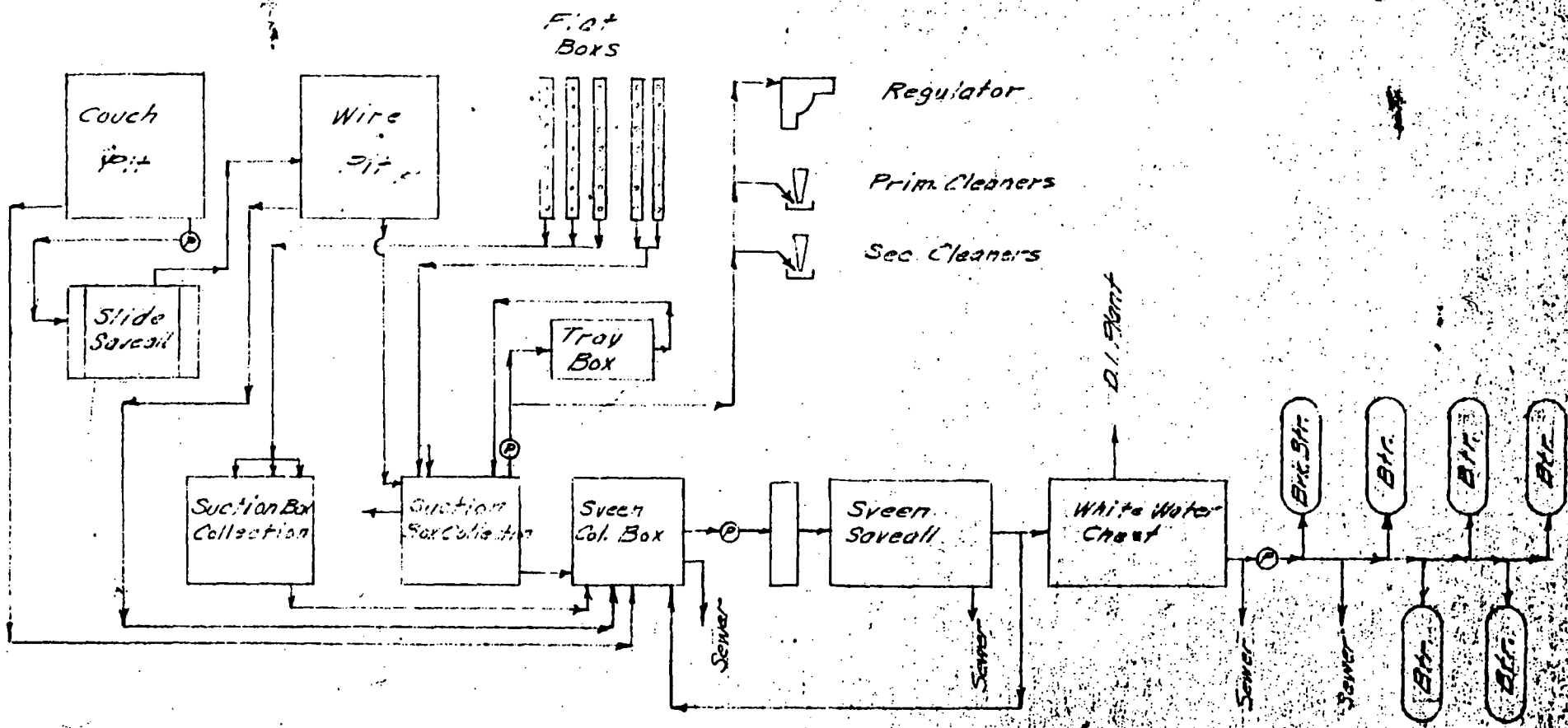
TITLE DIAGRAM OF WHITE WATER SYSTEM FOR NO 1 PAPER MACHINE

REVISIONS	

SCALE NONE	MO.	DAY	YR.	DWG. No.
DRAWN G.W.L.	4	24	59	FK-779
TRACED				
CHECKED				
CHECKED				
APPROVED				

STD. 1966 AGRIPROOF

SD 47643



REFERENCES	DWG. No.

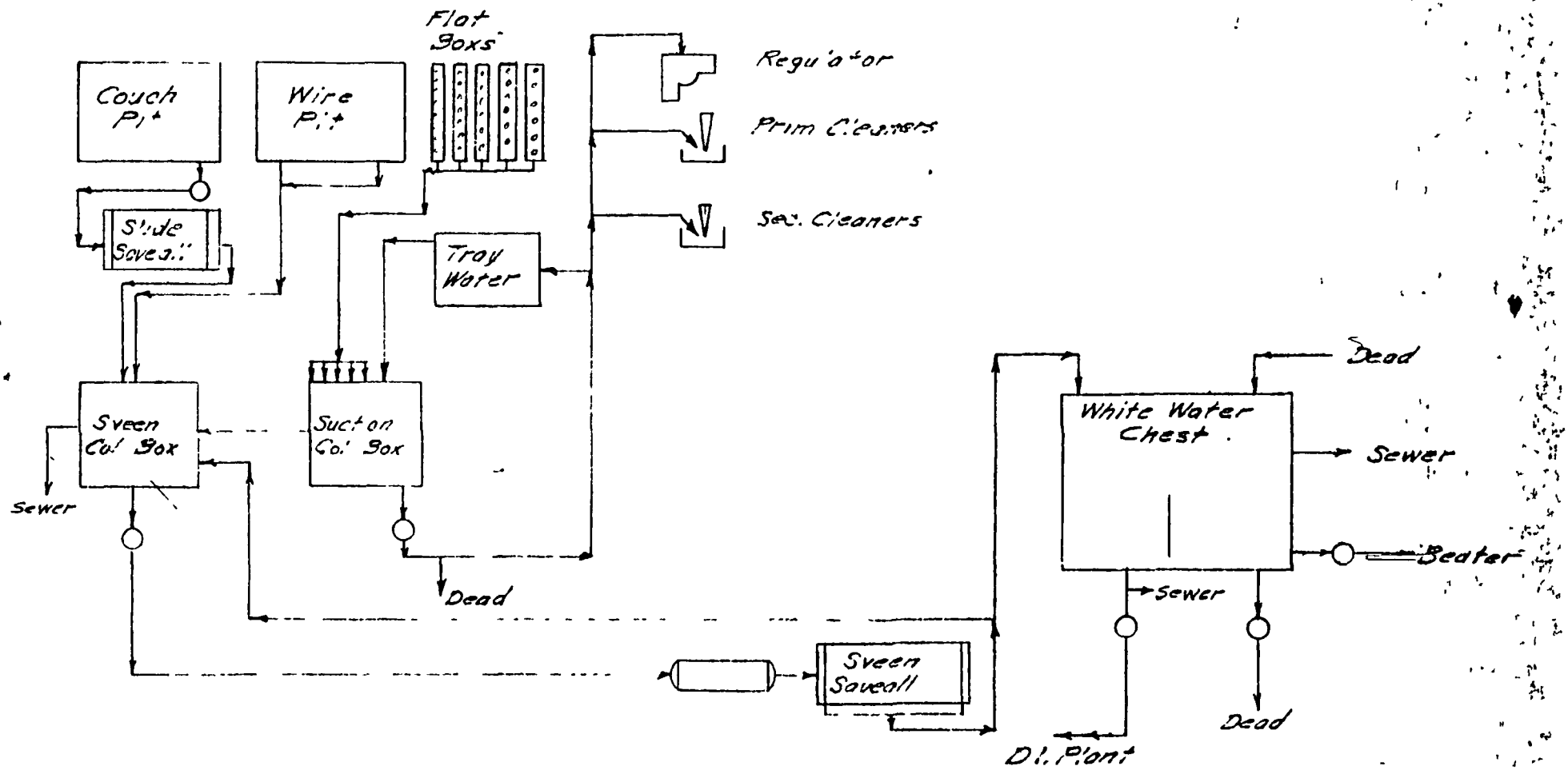
ALLIED PAPER CORP.

MILL	KALAMAZOO
	KING DIVISION

TITLE Diagram of white water system for No 3 Paper Machine

SCALE NONE	No.	DAY	YR.	DWG. No.
DRAWN J. DeGeer	4	27	59	FK-779-2
TRACED				
CHECKED				
CHECKED				
APPROVED				

REVISIONS	



REFERENCES	DWG. No.

ALLIED PAPER CORP.

MILL KALAMAZOO
KING DIVISION

TITLE Diagram of white water system for No 4 P.M.

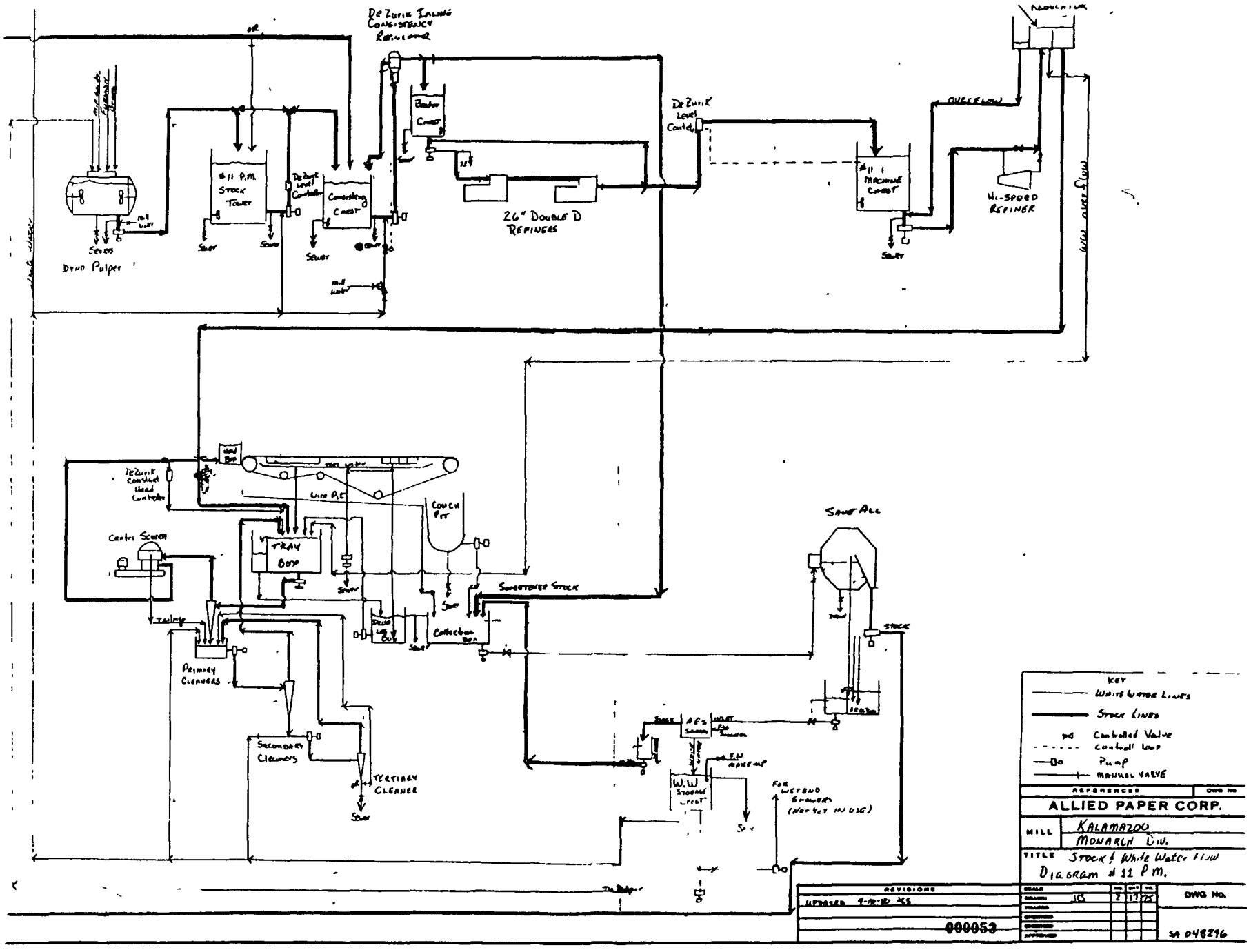
REVISIONS	

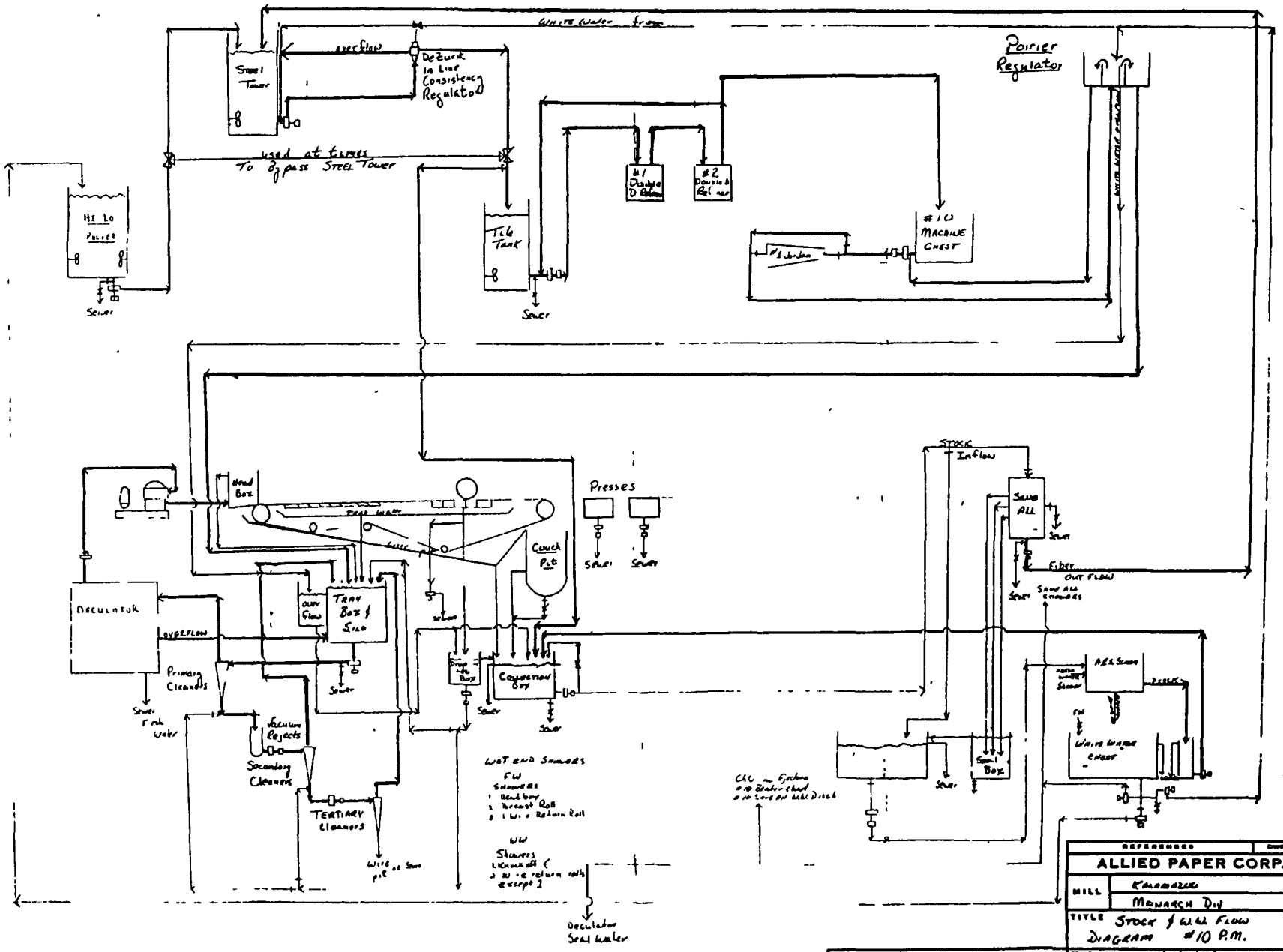
		NO.	DAY	YR.
SCALE	None			
DRAWN	J. DeGeer	4	29	59
TRACED				
CHECKED				
CHECKED				
APPROVED				

DWG. NO. K-7793

SA 46139

DIETZGEN NO. 1001 ASSPROOF

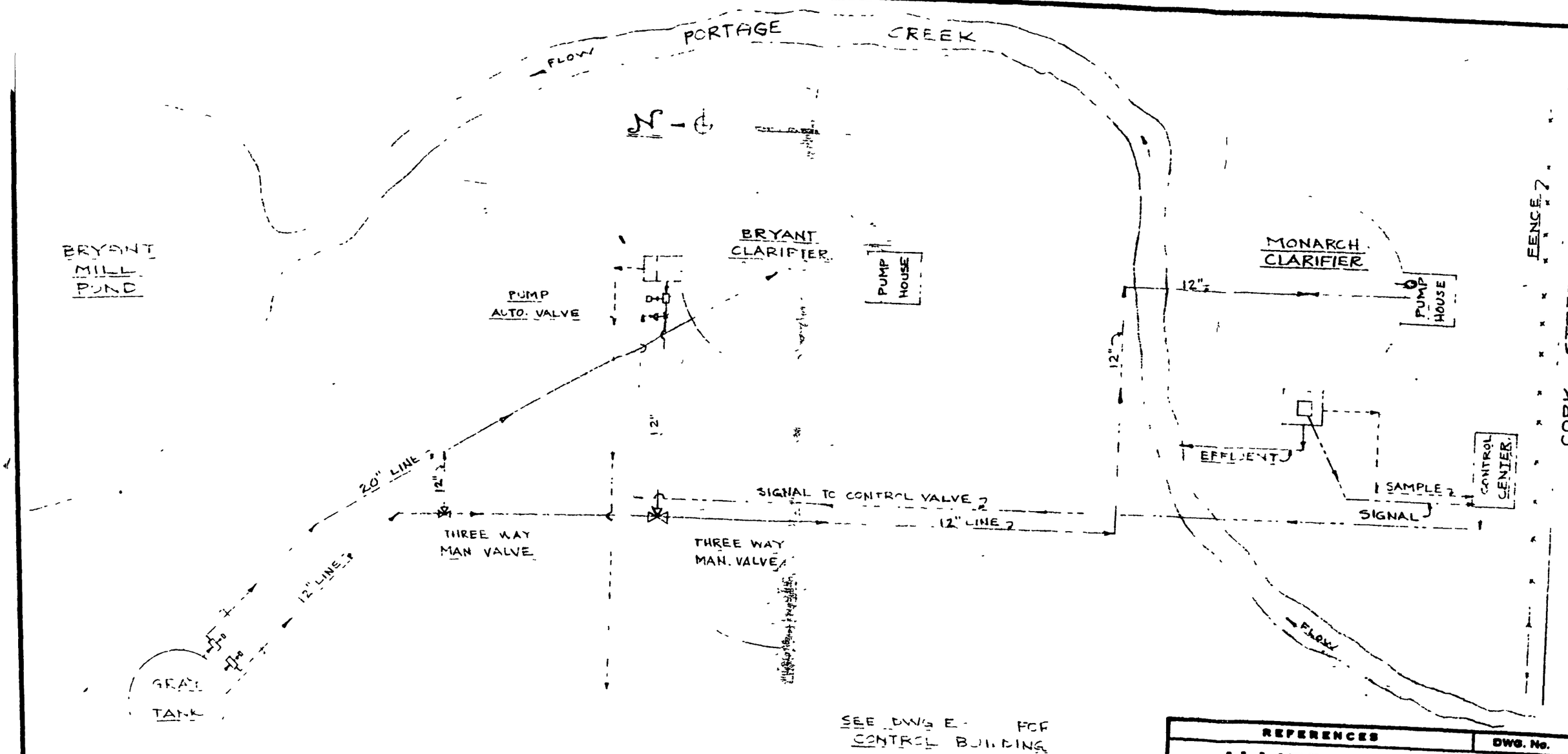

DeZurik Inlet Consistency Regulator
Regulator
Broke Chest
DeZurik Level Control
#11 P.M. Stock Tower
DeZurik Level Controller
Consistency Chest
Screen
Dyno Pulper
Sewer
mill water
26" Double D Refiners
#11 Machine Chest
Overflow
Hi-Speed Refiner
DeZurik Consistency Head Controller
Vac Box
Vac Pit
Couch Pit
Centri Screen
Tray Box
Sweetened Stock
Tailings
Collection Box
Primary Cleaners
Secondary Cleaners
Tertiary Cleaner
Save All
Stock
AES Screen
W.W. Storage Chest
Make-up
For Wet End Showers (Not Yet In Use)
KEY
White Water Lines
Stock Lines
Controlled Valve
Control Loop
Pump
Manual Valve
REFERENCES
DWG NO.
ALLIED PAPER CORP.
MILL
KALAMAZOO
MONARCH DIV.
TITLE
Stock & White Water Flow
Diagram #11 P.M.
REVISIONS
Updated 9-10-80 KS
000053
DWG NO.
SA 048296



References	Dwg. No.
ALLIED PAPER CORP.	
Mill: Kalamazoo Monarch Div	
Title: Stock & Wet Flow Diagram #10 P.M.	

Revisions	Scale	Date	Dwg. No.
Revised 4-11-80 JCS	Drawn JCS	1-23-77	000051 SA 048297
	Traced		
	Checked		
	Checked		
	Approved		

WHEATON BLUE PRINT 250 188H 8-66



REFERENCES	DWG. No.

ALLIED PAPER CORP.

MILL: KALAMAZOO MILL
BRYANT DIVISION- ALL MILLS

TITLE WASTE TREATMENT AT BRYANT & MONARCH CLARIFIERS

		MO.	DAY	YR.
SCALE	NONE			
DRAWN	B. HERBERT	2	27	76
TRACED				
CHECKED				
CHECKED				
APPROVED				

DWG. No. 1

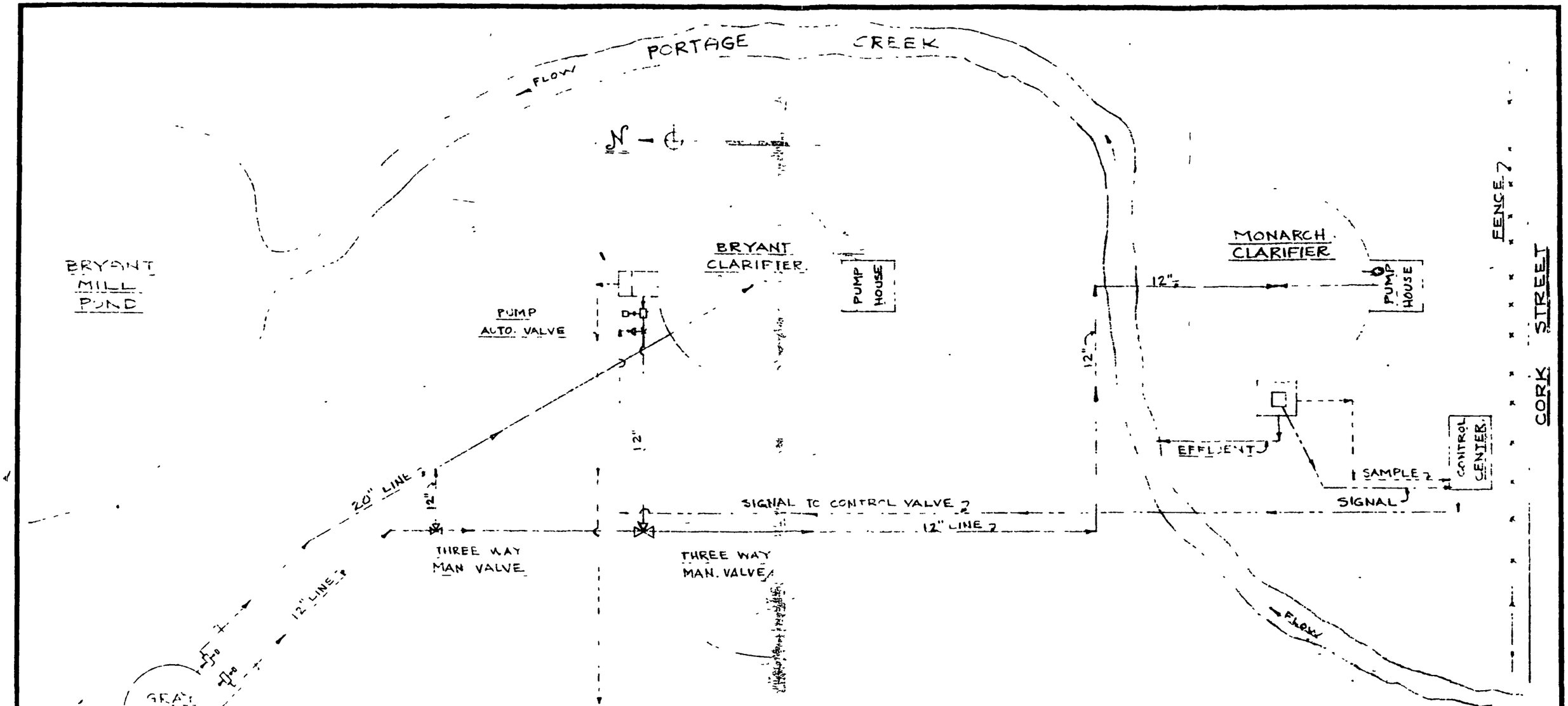
E-1144

REVISIONS

000434

SA048307

WHEATON BLUE PRINT 250 198H 8-66+



REFERENCES	DWG. No.
ALLIED PAPER CORP.	
MILL: KALAMAZOO MILL	
BRYANT DIVISION - ALL MILLS	

TITLE WASTE TREATMENT AT BRYANT & MONARCH CLARIFIERS

		MO.	DAY	YR.
SCALE	NONE			
DRAWN	B. HERBERT	2	27	76
TRACED				
CHECKED				
CHECKED				
APPROVED				

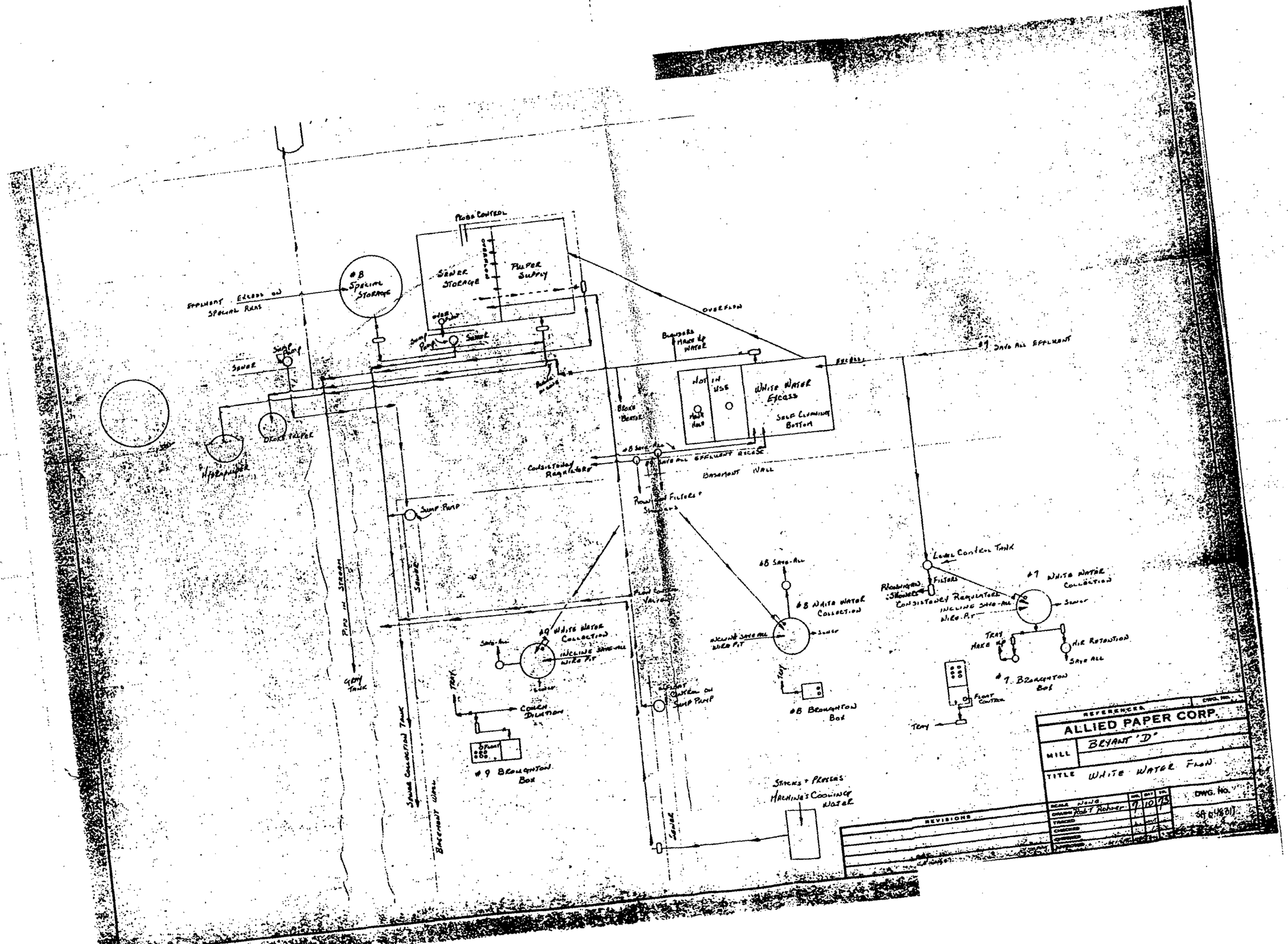
DWG. No. 1

E-1144

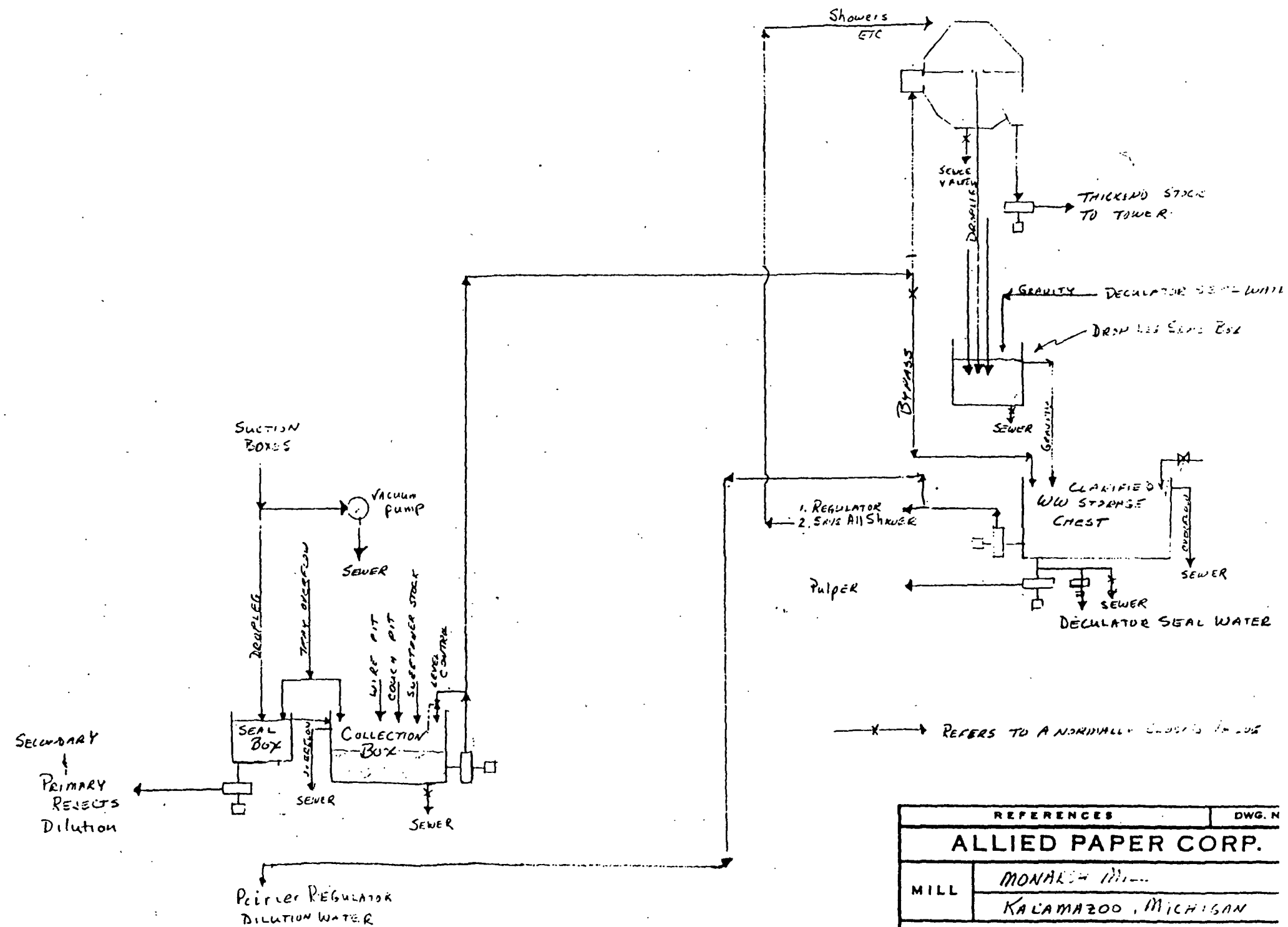
REVISIONS

000484

SA 048307


Probe Control
Sewer Storage
Pulper Supply
#8 Special Storage
Effluent Excess on Special Rens
Overflow
Sump Pump
Sewer
Sump Pump
Blowpipes Make Up Water
#7 Save All Effluent
Excess
Not In Use
Fault Alm
White Water Excess
Self Cleaning Bottom
Broke Beater
Broke Pulper
Hydrapulper
#8 Save All
#8 Save All Effluent Excess
Consistency Regulators
Basement Wall
Rough Cut Filters + Screens
Sump Pump
Pipe in Screen
Sewer
Level Control Tank
Filters
#8 Save-All
#8 White Water Collection
Inclined Save-All Wire Pit
Sewer
Flow Control Valves
#7 White Water Collection
Consistency Regulators
Inclined Save-All Wire Pit
Sewer
Tray
Wire Retention
Save All
#7 Broughton Box
Flow Control
Tray
#8 Broughton Box
#10 White Water Collection
Inclined Save-All Wire Pit
Save-All
Sewer
Tray
Couch Dilution
Flow
#9 Broughton Box
Level Control on Sump Pump
Glory Tank
Sewer Collection Tank
Basement Wall
Sewer
Stocks + Probes Machine's Cooling Water
REFERENCES
DWG. NO.
ALLIED PAPER CORP.
MILL Bryant 'D'
TITLE White Water Flow
DRAWN Robt Rohrer
DATE 7-10-73
DWG. No.
REVISIONS

·L-BLUE 250 11-78 63492·



REFERENCES	DWG. N

ALLIED PAPER CORP.

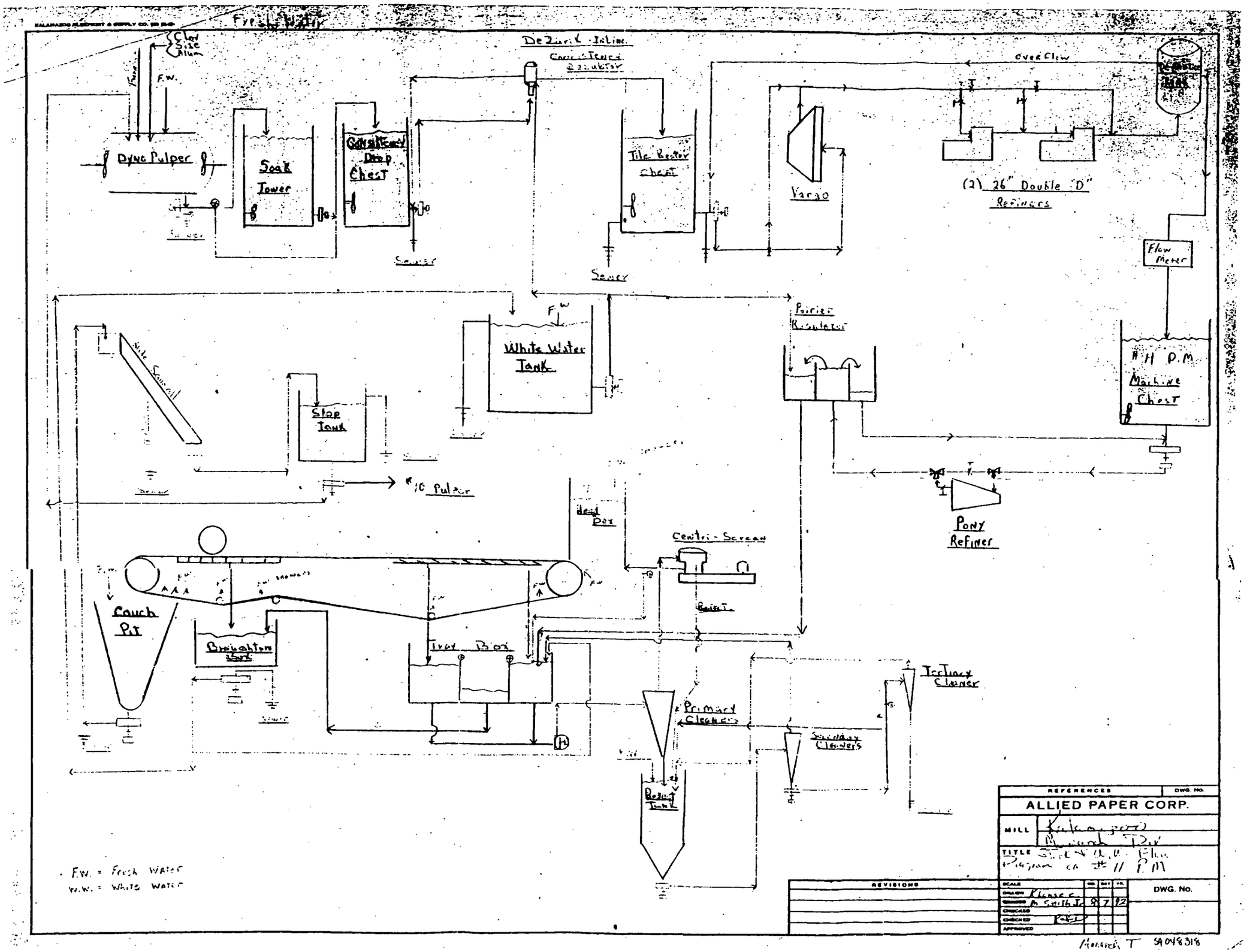
MILL: MONARCH Mill
KALAMAZOO, MICHIGAN

TITLE: #10 Save All Collection and White Water System

REVISIONS
Deculator Seal Water, Brought from Vacuum 2-14-79 JCS

SCALE None	NO.	DAY	YR.	DWG. No.
DRAWN J. Spitzemeyer	2	2	79	0C30C38
TRACED				
CHECKED				
CHECKED				
APPROVED				

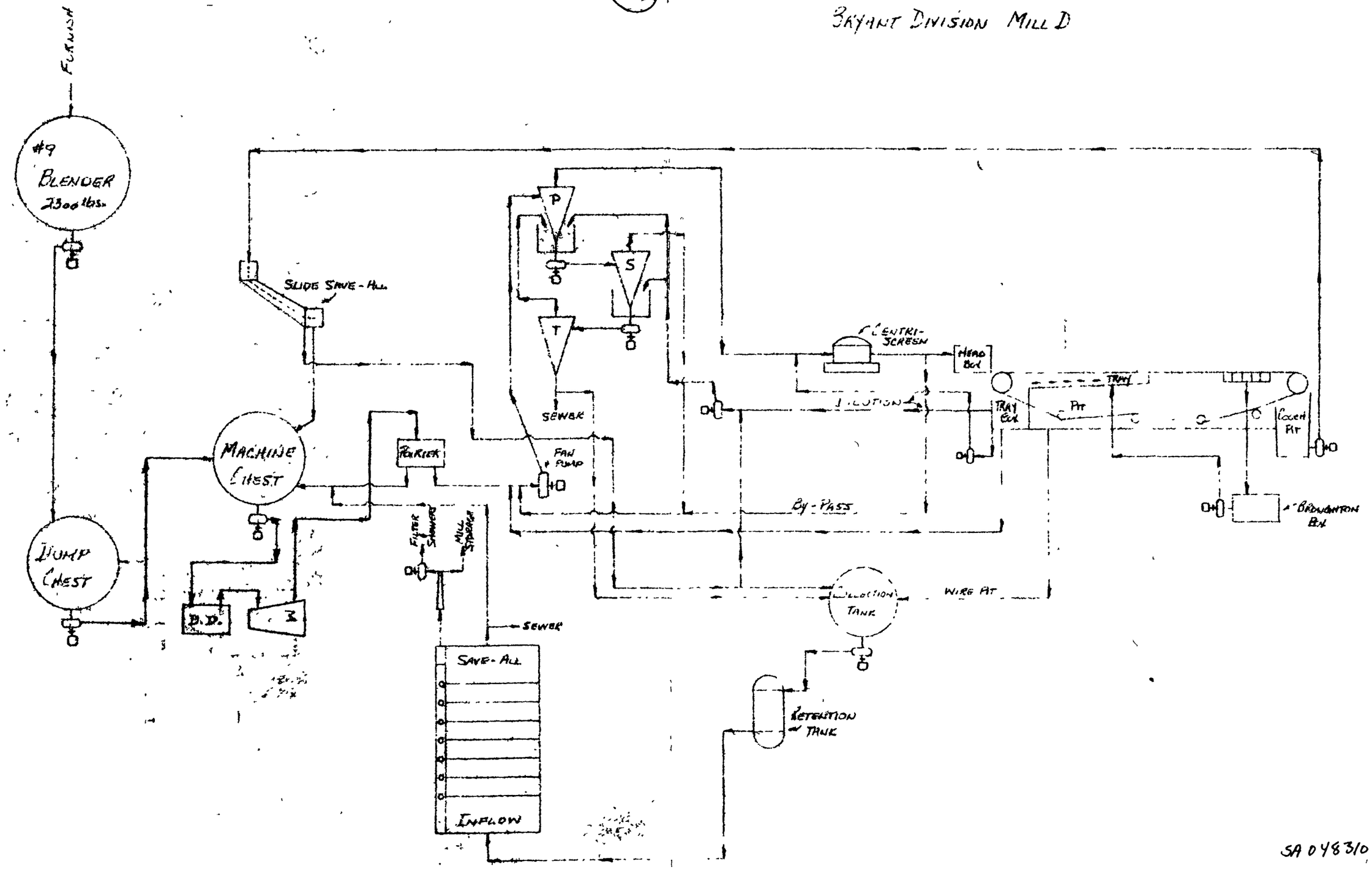
SA 046299



Horwich T SA048318

#9 Machine Stock & W.W. Flow Diagram

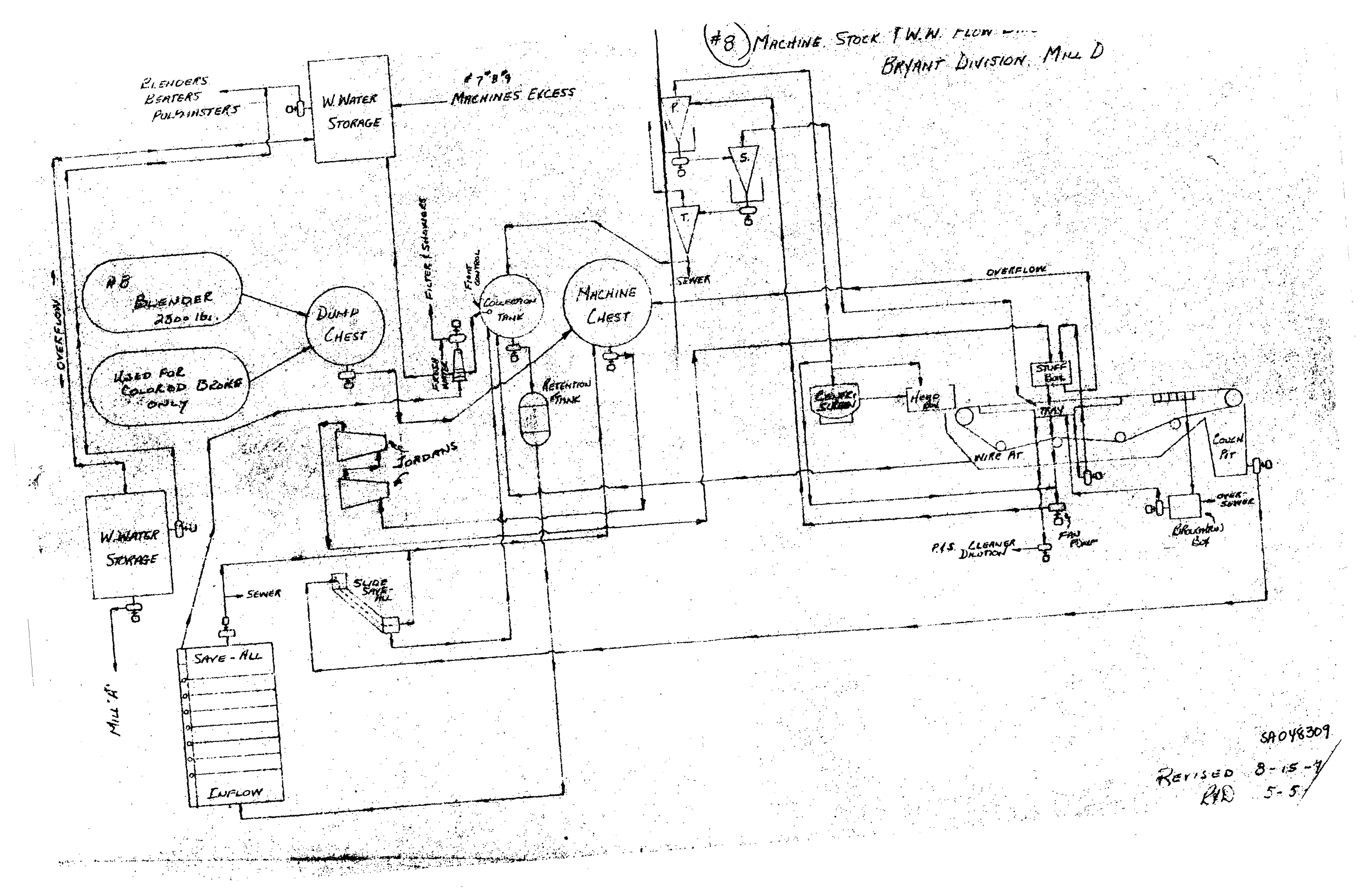
Bryant Division Mill D



SA 048310

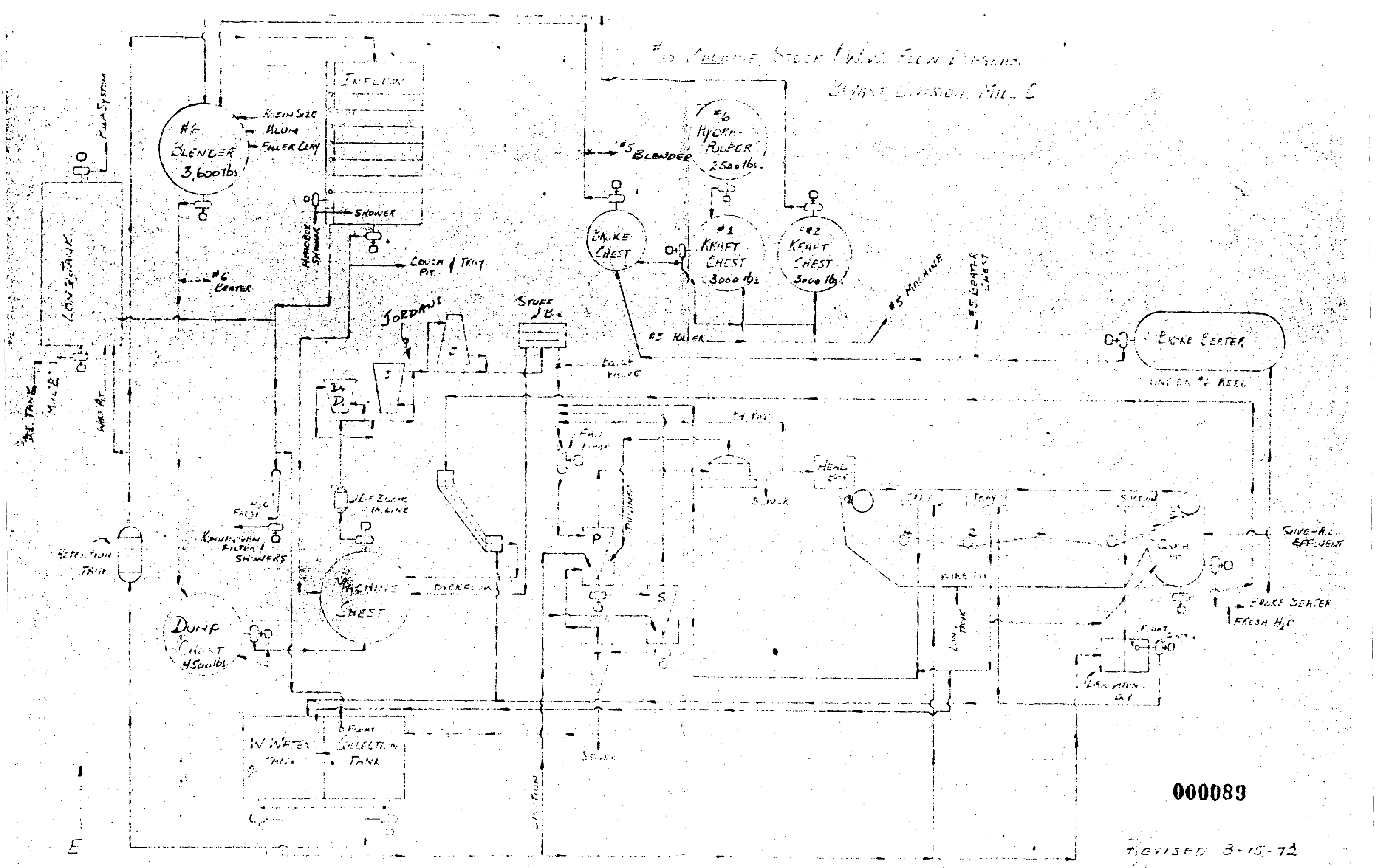
Revised 8-15-72 BT

KD 5-3-67



SA048309

REVISED 8-15-7
RAD 5-5

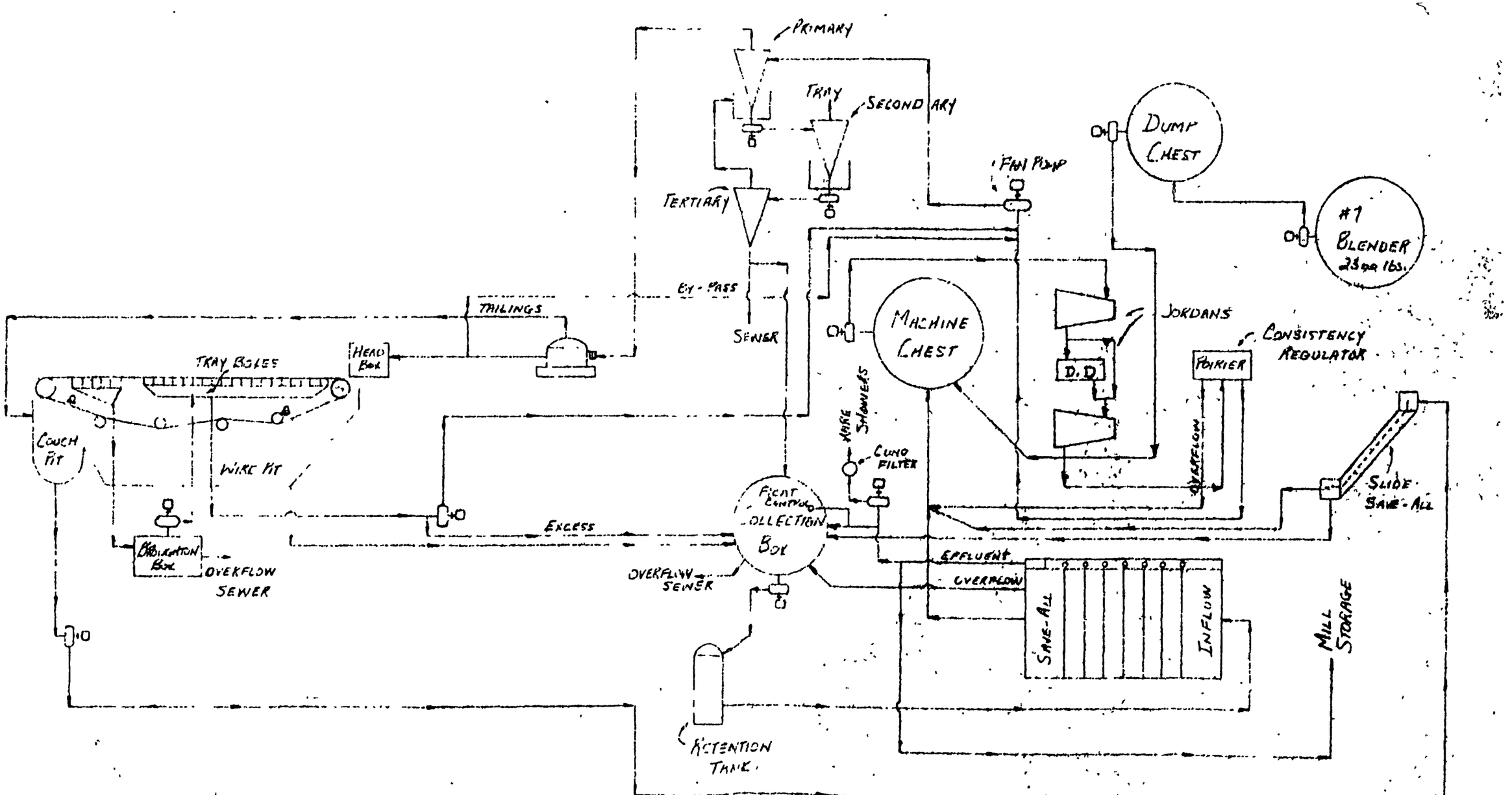


000083

REVISED 3-15-72

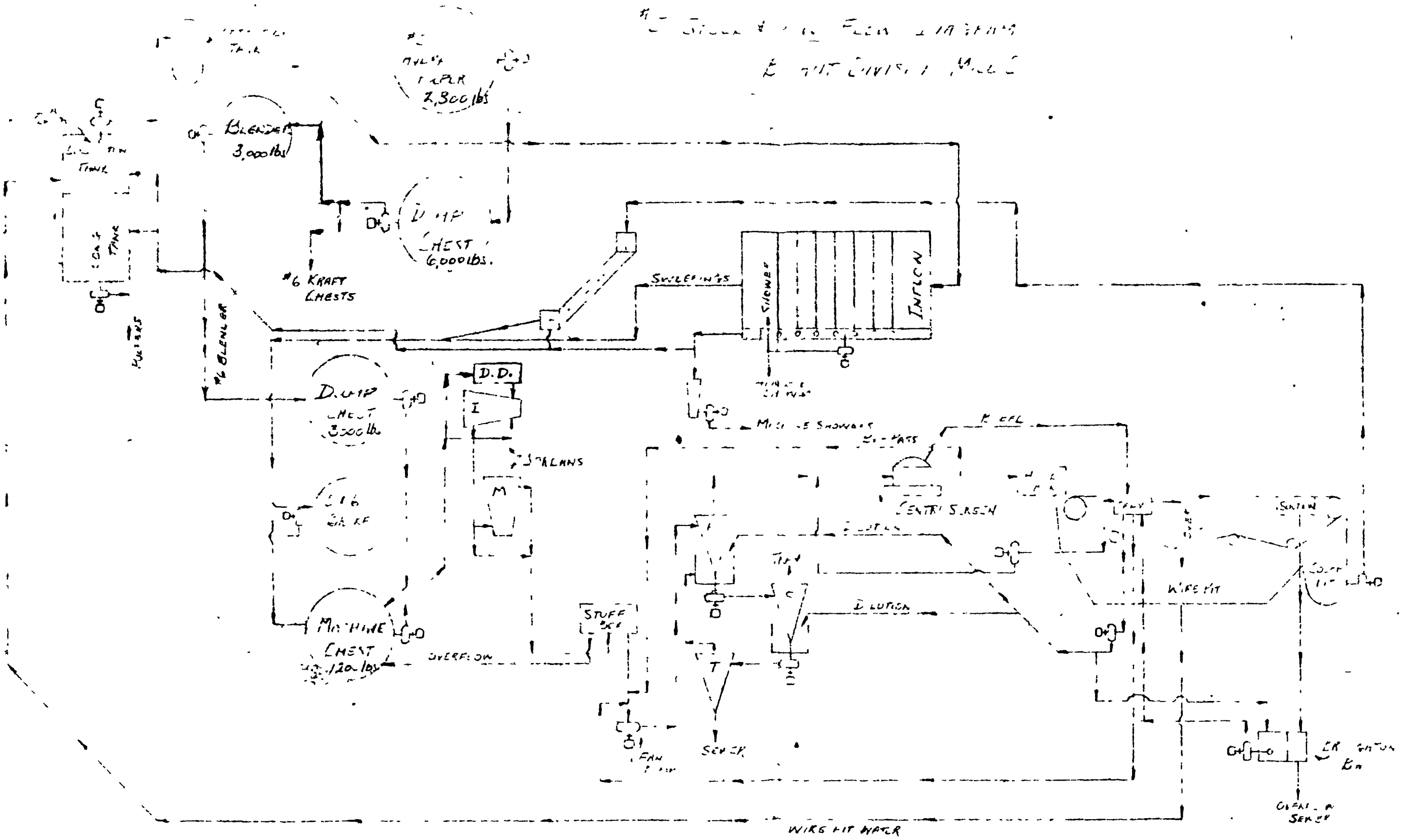
#7 Machine, Stock & W.W Flow Diagram

Bryant Division, Mill D



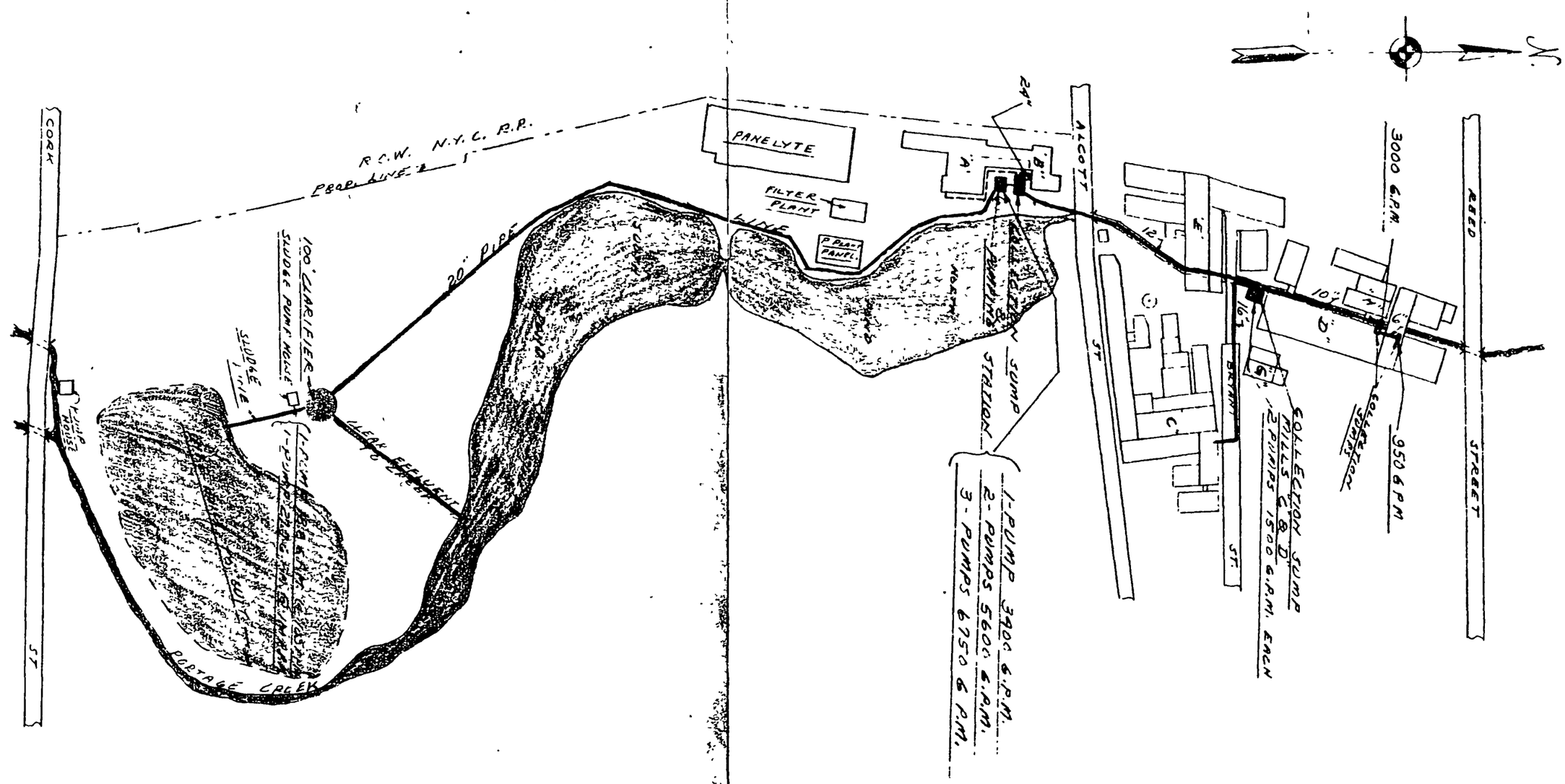
Revised 8-15-72

SA 048308



000090

REVISED 3-15-72



000573

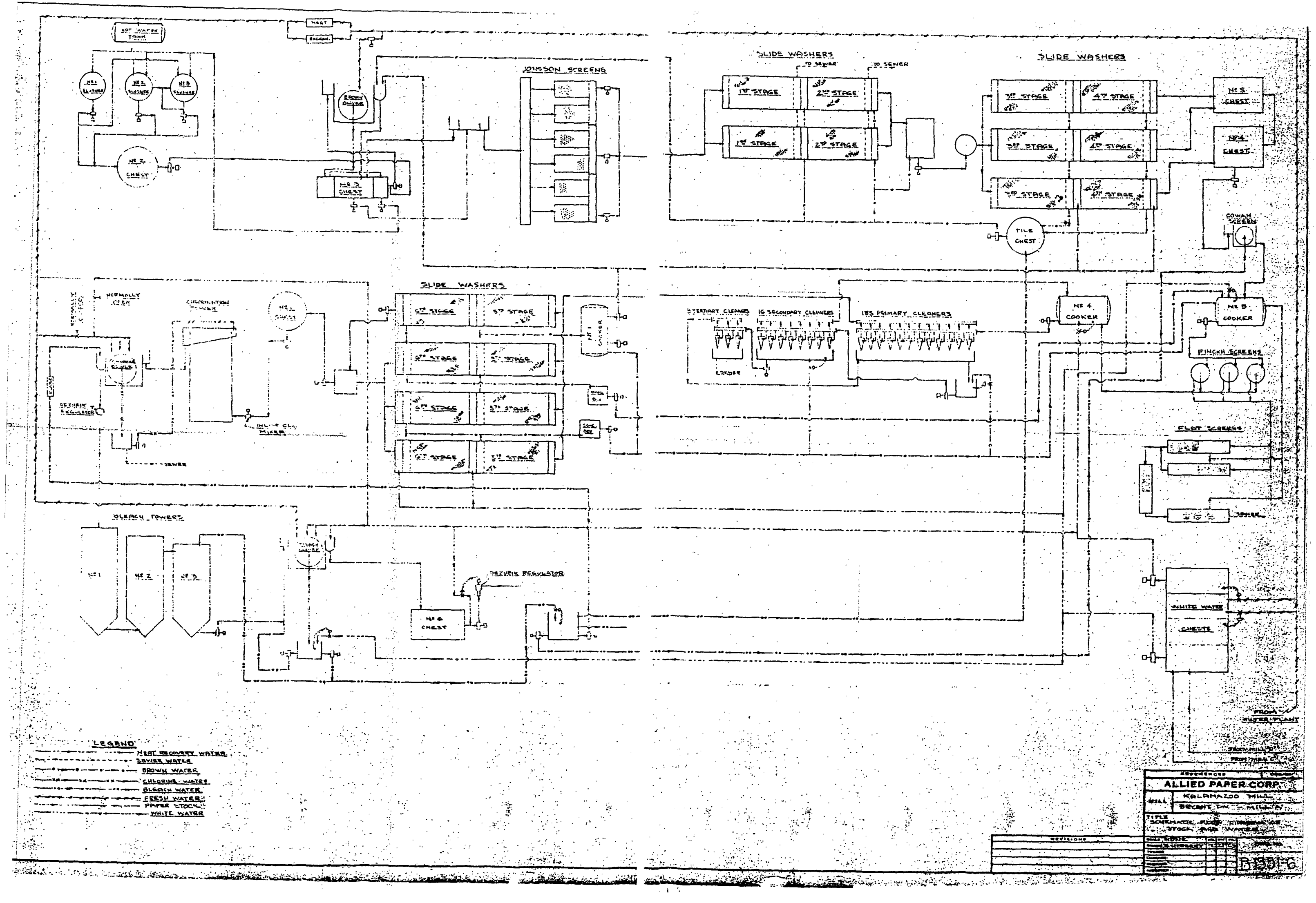
ALLIED PAPER CORP.
Engineering Dept.
APR 28 1964
APPROVED

REFERENCES	DWG. No
ST. REGIS PAPER CO.	
MILL	KALAMAZOO
	ALL MILLS
TITLE	WASTE WATER TREATMENT SYSTEM.

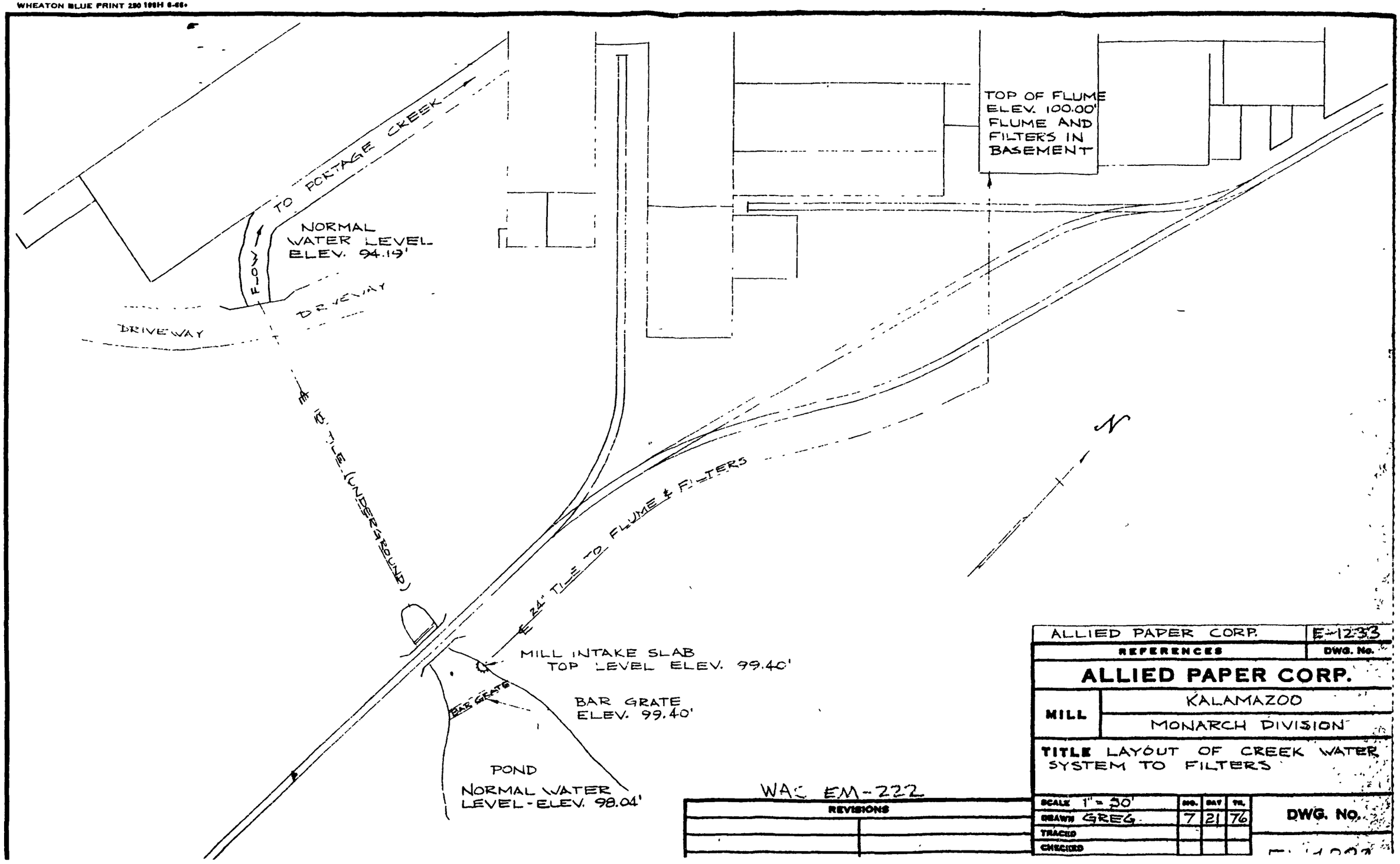
REVISIONS	
BROUGHT UP TO DATE	1-11-56
PUMP CAPACITIES &	
LINES SIZED	1-23-56

SCALE APPROX 400'=1"	MO	DAY	YR.
DRAWN	9		
TRACED		30	
CHECKED			55
CHECKED			
APPROVED			

DWG. No. E-690


HOT WATER TANK
HEAT
EXCHGR.
No 1 ELUTRIATOR
No 2 ELUTRIATOR
No 3 ELUTRIATOR
No 2 CHEST
BROWN DRIVER
No 3 CHEST
JOHNSON SCREENS
SLIDE WASHERS
TO SEWER
1ST STAGE
2ND STAGE
3RD STAGE
4TH STAGE
No 5 CHEST
No 4 CHEST
TILE CHEST
COWAN SCREEN
NORMALLY OPEN
CHLORINATION TOWER
No 1 CHEST
DEZURIK REGULATOR
INLET CLY MIXER
SEWER
6TH STAGE
7TH STAGE
8TH STAGE
9TH STAGE
5TH STAGE
No 1 COOKER
TERTIARY CLEANERS
16 SECONDARY CLEANERS
185 PRIMARY CLEANERS
COOKER
No 4 COOKER
No 3 COOKER
FINCH SCREENS
FLAT SCREENS
BLEACH TOWERS
No 1
No 2
No 3
No 6 CHEST
WHITE WATER
CHESTS
FROM FILTER PLANT
LEGEND
HEAT RECOVERY WATER
SEWER WATER
BROWN WATER
CHLORINE WATER
BLEACH WATER
FRESH WATER
PAPER STOCK
WHITE WATER
ALLIED PAPER CORP.
KALAMAZOO MILL
BRYANT DIV. MICHIGAN
TITLE
SCHEMATIC FLOW DIAGRAM OF STOCK AND WATER
REVISIONS
B551-6

WHEATON BLUE PRINT 250 108H 8-66



and E' city. Stereotype

)ffice, East Walpole, Mass.,
:y K. Nicholson, Pres. and
ngton, Sales Mgr.; Eugene
Supt., West Groton Mill;
1. Dir.; Stanley F. Marr,
est Groton Mill.) WEST
aine R. R. Nine 1500-lb.
reens, one Pulper and ten
: 86-inch Four Cylinder,
One 62-inch Fourdrinier;
) Cycle, 3 Phase; 110 v.
Steam Pressure. Effluent:
trial Specialties, Electrical
dpaper Backing, Red Rope
uty Wallet, Patch, Stencil,
ited Pattern, Crepe Special-
dack Papers and Iron Tag.
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s, Inc. (F. Nelson Bridg-
les F. Collins, Vice-Pres.;
Sales Dir.; Franklin B.
droad Siding, B. & A. R. R.
) inches. Special Industrial
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Absorbent for Latex Satu-
nours. Highway, U. S. 20,
City—Rector 2-2662 (Direct

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ad Siding, B. & A. R. R.
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ides sized paper in rolls
edge Typewriter Papers,
s with Visible Watermarks
Phone: 2-5141.

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W. Sharruck, Gen. Supt.;
l Supts.; P. G. Volanakis,
ev.; H D Johnston, Asst.
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Holcan, Chief Engr.; J. S.
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Bleached Sulphite Solid Manila Back,
Back, Double Bleached Sulphite Manila
ing Chip, Kraft Lined Chip, Solid Ma-
News and Chip. 820,000 lbs. 24 hours.
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vorth Cook, Chief Chem.; Sam Sochrin,
at Mill. Railroad Siding, D. & M.
dans, six Screens, three Bleachers, one
Filter. Two 136-inch Fourdriniers;
ctricity and Steam. Coal Newsprint,
um, .014 Linerboard, 50% and 100%
s. GROUND WOOD AND SEMI-
Grinders and two Digesters. Ground
Chemical Pulp. 50,000 lbs 24 hours
y, U. S., 27. Phone: 980. (In Bank-

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nd Ex. Nearest Air Port, Kalamazoo.

R CO (Frederick G Weir, Pre-
ec and Gen. Mgr., H. E. Reindehl,
MILL. S. P., at mill. Railroad
ters and three Jordans, four Screens
One 108-inch Four Cylinder; widest
in Diam., 102 inches wide
3 e 125 h.p Installed Water
and urbine Drives. Coal. 150-lb.
Chip and News Board, Vat Lined
nd Set-Up Box Board, Manila Lined
000 lbs. 24 hours Highway, U. S

Vayne Co

el., Ex. and Bank.

) Schaefer Road. (Henry Ford II.
O Yntema, Vice-Pres. Finance;
Chief Chemist.) S. P., at plant.
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68-inch Single Cylinders; widest
One 8' x 8' Oliver Board Former
of Trunk Board, and Waterproof
Phone: Luzon 1-4600.

vne Co.

Y. C.; Penn.; Wabash; D. T. & I.;
R

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Hulbert, Vice-Pres.; K. G. Sell,
Vice-Pres. in Charge of Produc-
Asst. Treas.; M. F Schnaufer,
Paul Gates, Traffic Mgr.; C. G

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SIMPLICITY PATTERN CO., INC Main Office, 200 Madison Ave., New York 16, N. Y (J M. Shapiro, Chairman of Board and Treas.; J. J. Shapiro, Pres.; H. H. Bennington, Vice-Pres.; G. E. Nolan Sec.; Howard H Rausch, Mill Mgr.) Railroad Siding, N. Y C. R R. One Dynapulper and one 2000-lb Beater and four Jordans. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Electricity: 60 Cycles, 3 Phase, 220 and 440 v. Motors. 100-lb Steam Pressure. Coal. Pattern Tissue, White Wrapping Tissue and Tissue Specialties. 30,000 lbs. 24 hours. Highways, U S, 12 1 mile; State, 40, 60 and 31, 1 mile. Phone: Niles 736.

ONTONAGON—Ontonagon Co.

On Lake Superior Div. Chic., Milw., St. Paul & Pacific R. R. M. O., Tel., Bank and Exp Nearest Air Port, Ironwood, Mich.

NATIONAL CONTAINER CORP. OF MICH. (Samuel Kipnis, Pres.; Newton Cuneo, Vice-Pres. and Mgr.; Harry Ginsberg, Vice-Pres.; Albert H. Edwards, Vice-Pres.; Wm. T. Webster, Vice-Pres.; C G. McLaren, Vice-Pres., J L. Kipnis, Vice-Pres.; Lionel M. Goldberg, Vice-Pres; M. M. Bernstein, Sec.; Murray Steyer, Asst. Sec.; Max Ackerman, Treas, A. T. Nuler, Supt Board Mill; R. J. Gilmer, Supt. Pulp Mill; M. E. King, Chief Engr.; W. W. Marteny, Tech Dir.; F. L. Conger, Traffic Mgr.) Railroad Siding S P. at mill One 2000-lb. Valley Iron Works and two 2000-lb Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches Seventy Driers, 48 inches in Diameter and 124 inches wide. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k.w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures Cylinder Kraft, Liner Board. 240,000 lbs. 24 hours. SULPHATE PULP MILL. Five Digesters and one Wet Machine. Unbleached Sulphate Fiber 250,000 lbs. 24 hours Highways. U. S., 45, 1 mile; State, M64 Phone: 1.

OTSEGO—Allegan Co.

On N. Y. C. R. R. M. O., Bank and Exp. Tel. at Kalamazoo. Peoples R. T. and Greyhound Bus Lines. Nearest Air Port, 2 miles

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (C. M Sisson, Pres., Gen. Mgr.; L. W. Dickinson, Vice-Pres.; C. F. Sisson, Vice-Pres; M. V. Stowe, Treas.; Walter F. Wolfe, Supt.; H. Kindig, Tech Dir. and Chief Chemist; L. M Hart, Pur. Agt.; S. A. Bohrer, Sales Rep., Chicago.) Railroad Siding, N. Y. C. R. R. S. P., at Mill. MAC SIM BAR MILL. Fifteen 1200-lb., four 1500-lb Beaters, one 175-ton Breaker Beater,

Steam and Electricity. Anti-
apers, Die Wiping, Envelope,
Board, Stencil Board, Second
Papers, Carbonizing Tissues,
Shade Paper and Wrapping.
Five Digesters; three Wet
iber. 240,000 lbs 24 hours.
Phone: 51-627.

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ik. Nearest Air Port, South Bend

s.; J. E. French, Vice-Pres
eas.; H. Nelson, Supt.; R
Cent. R. R. Three 1200-lb
e 95-inch and one 118-inch
5 inches. Steam and Elec-
peteries, Colored Envelope,
; State, M60. Phone: 32.

fice, 200 Madison Ave., New
rd and Treas.; J. J. Shapiro,
, Sec.; Howard H. Rausch,
Dynapulper and one 2000-lb
Cylinders; widest trimmed
se, 220 and 440 v. Motors,
White Wrapping Tissue and
vs, U. S., 12, 1 mile, State.

on Co.
R. M. O., Tel., Bank and Exp
ich

H. (Samuel Kipnis, Pres.,
berg e-Pres.; Albert H.
C. (Laren, Vice-Pres.;
ce-Pres.; M. M. Bernstein,
Treas.; A. T. Yoder, Supt.
King, Chief Engr.; W. W.
ailroad Siding, S. P. at mill.
Jones Beaters, five Jordans,
s Paper Machine Ventilator
ed sheet, 116 inches. Sev-
de. Electricity: 60 Cycles,
w. Installed, 230 Motors,
600-lb. Steam Pressures
irs. SULPHATE PULP
Unbleached Sulphate Fiber
State, M64 Phone: 1

zoo, Peoples R. T. and Grey
2 miles.

Biscuit Co. of America
Vice-Pres.; C. F. Sisson,
Supt.; H. Kindig, Tech.
Bohrer, Sales Rep., Chi-
Mill. MAC SIM BAR
175-ton Breaker Beater,

two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 200-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain and Oak Marble, Burlap Grained Solid Jute Board and White Patent Coated News. 600,000 lbs. 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phones: Kalamazoo 4-5500, Otsego 3841.

OTSEGO FALLS PAPER MILLS, INC. (D. H. Greene, Pres and Gen Mgr.; D. G. Turner, Vice-Pres.; R. J. Sness Sec., Res. Mgr.; Mov Smith, Treas.; Hu. Miller, Supt.; Don Borden, Chief Engr.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 1500-lb., and one 2500-lb. Beaters. Four Rotaries. One 84-inch and one 110-inch Fourdriniers; widest trimmed sheets, 77 inches and 102 inches. Water, Steam and Electricity. .009 Corrugating, Saturating, Can, Asphalt Boards for Corrugating, Semi-Chemical Wood Pulp Boards, Asphalt Automobile Boards and Special Asphalted Papers and Boards. 200,000 lbs. 24 hours. Average Daily Consumption of Unpeeled Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego 3411.

PALMYRA—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Charles G. Wood, Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Floyd M. Murphey, Jr., Vice-Pres.; Charles R. Ehinger, Supt.; Guy Carmichael, Ch. Engr., Kenneth R. Moehl, Traffic Mgr.) One 16-ft. Continuous Shuttle Dilts Hydrapulper, two Jordans, one Hydraliner and one 1000-G.P.M. Sveen Pederson Saveall One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity Chipboard, Specialties, Building and Insulating. 100,000 lbs. 24 hours. Highway, U. S., 223 Phone: Adrian 2340.

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A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight L. Stocker, Pres.; John C. Wood, Vice-Pres. Charge of U.S.A. Mfg., E. Norval Hunter, Vice-Pres. Charge of Canadian Operations, C. F. Christy, Vice-Pres. Charge of Sales; C. Langford Felske, Vice-Pres. Charge of Finance; Harold De Weerd, Sec., W. R. Hess, Asst. Sec.-Treas.; F. D. Libby, Corporate Pulp and Paper Consultant, R. D. Caine, Mfg. Mgr.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic and Shipping Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. Twelve Waxing Machines. MILL NO. 1. Three Hydrafiners, four 2000-lb., two 2500-lb. Beaters and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 3200-lb. Broke Beaters, three 2500-lb Vortex Beaters and nine Majestic Jordans and one Bertram Refiner. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167-inch Beloit Fourdrinier; widest trimmed sheet 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Greaseproof, Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1, 130,000 lbs.; MILL NO. 2, 365,000 lbs. 24 hours. Highways, River Road; U. S., 131 and 12. Phone: 3-2581.

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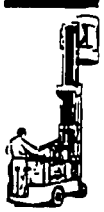
4223 ST. CLAIR AVENUE . CLEVELAND 3, OHIO
Power trucks for handling pulp, roll paper & flat stock.
ORIGINATOR OF ROLL PAPER CLAMP



INTERNATIONAL WIRE WORKS
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Manufacturers of
Fourdrinier Wires, Cylinder
Covers and Washer Wires
Save-Wire Patches

PLAINWELL—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

MICHIGAN PAPER CO. OF PLAINWELL. (Allan B. Milham, Pres.; C. A. Braginton, Treas.; Merrill W. Taylor, Sec.; F. L. Brown, Asst. Sec. and Pur. Agt.; Ray L. Barton, Supt.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.) Railroad Siding, Penna. R. R. Thirteen 1400-lb. Beaters and five Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches, 118 inches and 120 inches. Widest Super-Calender, 80 inches. Water, steam and Electricity. Effluent Treatment Plant. White and Colored M. F. and S. C., Book, French Folio, Non-Fading Poster, Catalogue and Bible Papers, Writing, Mimeograph, Colored Covers, Lithograph, Manifold, Tub Sized Offset, Bond, Blanking and Specialties. 160,000 lbs. 24 hours. Highways, U. S., 131; State, M-89. Phones: 2411, 2421.

PORT HURON—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Pres. and Treas.; Geo C. Dunn, Exec. Vice-Pres. and Sec.; W. A. Fisher, Vice-Pres.; H. G. Wales, Vice-Pres. Charge of Sales; A. C. Moore, Asst. Treas.; F. A. Crist, Plant Engr.; A. N. Dunn, Mill Mgr.; Grady Pickett, Supt.; W. Parker, Chief Chem.; M. C. Jones, Pur. Agt.) Railroad Siding, G. T. W. R. R. Four 1600-lb. and one 2000-lb. Beaters and two Jordans; three Bleachers, nine Filters, one 16-ft. Hydrapulper, five Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 126 inches. Electricity: 2000 K.V.A.; 60 Cycles, 3 Phase, 440 v. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p.s.i. Water Treatment Plant. Sulphite and Sulphate Papers for Bag, Bread Wrapper, Fine Crepe, Foil Mounting, Envelope, Wrapping, Twisting, Waxing, Napkin, Absorbent Tissue Excelsior, Machine Coated Opaque and Other M. G. Bleached and Unbleached Specialties. 80,000 lbs. 24 hours. Highway, U. S., 25, ½ mile. Phone: 5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; F. Kiefer, Pres.; G. F. Durand, Vice-Pres.; N. O. Seagrave, Vice-Pres.; S. L. Bush, Treas.; Joseph L. Hoolihan, Gen. Supt.; L. T. Summers, Sec. and Tech. Dir.; W. D. Thompson, Pur. Agt.; F. B. McFarland, Gen. Sales Mgr.; John Maes, Paper Mill Supt.; J. Arthur, Asst. Tech. Dir.) One 132-inch Fourdrinier, two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches. Two 84-inch Cylinders. Steam and Electricity. Antique, Bag Paper, Bond, Bread Wrapping, Bristol, Building, Butter Wraps, Candy Wrappers, Car Lining, Carbon Paper, Carbonizing, Carbonized Rolls, Christmas Paper, Colored Papers and Boards, Creping, Cover, Decorative Papers, Embossed Papers, Embossing, Filter, Florists Wax Tissue, Folder, Guide Stock, Impregnating, Index Bristol, Laminated Specialties, Leatherette Papers, Locker Paper, M. G. Wrapping and Specialties, Manifold, Mill Wrappers, Offset, Onion Skin, Protective Papers, Printed Papers, Register, Saturating, Soda Straw Paper, Surface Watermarked Papers, Super Calendered Papers, Salesbook, Second Sheets, Shredded Paper, Specialties, Sulphite Bond, Tag Board, Textile, Tissue, Transparent Wrapping, Trunk Wrapping, Typewriter, Typewriter Manifold, Waxed, Waxing, Wrappers, Wrapping, Writing. 130,000 lbs. 24 hours.

ROCHESTER—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp.

ROCHESTER PAPER CO. (Paul H. Travis, Pres., Treas. and Gen. Mgr.; A. R. Fortune, Vice-Pres. and Sales Mgr.; N. B. Goodnow, Sec.; S. J. Fortune, Plant and Prod. Mgr.; Armand Pepin, Supt.; V. A. Long, Chief Chem.) S. P., at Mill. Railroad Siding, G. T. R. R. Three 1000-lb. Beaters and two Noble & Wood Jordans. One 66-inch Fourdrinier; widest trimmed sheet, 58

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f. O., and Tel.
L (Allan B. Milham, Pres.
ec.; F. L. Brown, Asst. Sec.
ean, Chief Chemist; Harold
ma R. R. Thirteen 1400-lb.
30-inch Fourdriniers; widest
hes. Widest Super-Calender,
Treatment Plant. White and
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Covers, Lithograph, Mani-
ialties 160,000 lbs. 24 hours.
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Huron. (Theo. W. Dunn,
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ers; widest trimmed sheet,
Phase 440 v Small Motors,
ure 625 p.s.i. Water Treat-
Bag, Bread Wrapper, Fine
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Hoo. n, Gen. Supt., L. T.
Pur. Agt.; P. D. Mc
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urdriniers; widest trimmed
and Electricity. Antique,
ing, Butter Wraps, Candle
Carbonized Rolls, Christ-
Cover, Decorative Papers
ex Tissue, Folder, Guide
alities. Leatherette Papers,
Manifold, Mill Wrappers,
pers, Register, Saturating,
Super Calendered Papers,
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Wrapping, Writing. 130,000

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rondinow, Sec.; S. J. For-
V. A. Long, Chief Chem.)
e 1000-lb Beaters and two
; widest trimmed sheet, 58

inches. Steam and Electricity. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt Impregnating and Absorbent Specialties. 30,000 lbs. 24 hours. Highways, U. S., 10, 9 miles; State, 150 Phone: Olive 1-9851

ROCKFORD—Kent Co.

On Penna. R. R. Tel., M. O. Ex. and Bank. *Nearest Air Port Grand Rapids, Mich.*

ROCKFORD PAPER MILLS, INC. (Herman Gumbin, Pres., Treas. and Gen. Mgr.; Seymour Rose, Vice-Pres., Sec. and Sales Mgr.; Fred Gave, S. Prod Mgr. and Supt.; Grover C. Welch, Chief Engr.; Edward Gave, Pur Agt.) Private Siding, P. R. R. S. P., South Rockford. Three Hydrapulper-four Jordans, six Screens. One 69-inch Six Cylinder; widest trimmed sheet, 61 inches. Eighty Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A.C., 440 v., 3 Phase, 600 h.p. Installed Electricity, 300 h.p. Installed Water Power. Coal. White Pat. Coated, Chip Board, News Board, Jute Filled, Solid Jute, Vat Lined Chip Board, Suit Board and Combination Board. 120,000 lbs. 24 hours. Highway, U. S., 131. Phone: 2211.

THREE RIVERS—St. Joseph Co.

On M. C., N. Y. C. R. R. M. O., Tel., Exp., Bank and Airport. Greyhound Bus.

EDDY PAPER CORP. (For Officers, see White Pigeon, Mich.) S. P., at mill. Eight 1500-lb., one 2000-lb. and one 3500-lb. Beaters, and one Shartle Continuous Beater and nine Jordans. One 126-inch, Eight Cylinder; widest trimmed sheet, 114 inches. Steam and Electricity. Test Liner and Chip 260,000 lbs. 24 hours Highways, State, M60; U.S., 131. Phone: 2-1012. (Idle.)

ROCKY RIVER PAPER MILLS, INC. Main Office, Lock Drawer 404 (J. C. Plantefaber, Pres. and Gen. Mgr.; D. H. Greene, Vice-Pres.; J. Gus Liebenow, Sec.; R. J. Suess, Treas. Corwin H. Drew, Sales Mgr.; F. Fox, Supt.; E. Dunton, Chief Engr.; Neil K. Plantefaber, Pur. Agt.) S. P., at Mill Railroad Siding, N. Y. C. (M) R. R. Four 1000-lb. Beaters, five Jordans, four Washers, one Pulper, six Screens and one Paper Machine Ventilator System. One 80-inch Cylinder, widest trimmed sheet, 74 inches. Seventy-four Driers, 48 inches in Diam. and 82 inches wide. Generated Electricity. 3 Phase 440 v. Turbine Drives. Coal. Water and Effluent Treatment Plant. Pages Bristol, Solid Bristol, Tickler Bristol, Receipt Bristol, Index Bristol, Tag Board, Chocolate Lover Board, Folding Box Board, Paper Plates, Coated News Liner, White Patent and White Clay Coated Bristol, Coated [illegible] ties. 100,000 lbs. 24 hours. Highways, U. S., 131, [illegible] Phone: 3-10[illegible]

VICKSBURG—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Tel. and Ex.

LEE PAPER CO. (Maxwell D. Carleton, Pres. and Gen. Mgr.; [illegible] Bardeen, Vice-Pres.; Byron Bishop, Sec.; W. [illegible] Treas.; [illegible] Stroud, Pur. Agt.; Stephen Kukonich, Tech. Dir.) S. P., at mill. Four [illegible] 600-lb. and four 1000-lb. Beaters, three Jordans and one Refiner. Seven 1000-lb. Washers and four 10,000-lb. Rotaries. Two 72-inch Fourdriniers; widest trimmed sheet 107 inches, one 112-inch Fourdrinier, widest trimmed sheet, 110 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover Bristols and Vellums Specialty Papers. 150,000 lbs. 24 hours. Highways, U. S., 131, 3 miles West; State M60, 6 miles South. Phone: Vicksburg 2251

WATERVLIET—Berrien Co.

On P. M. R. R. M. O., Tel., Bank and Ex.

WATERVLIET PAPER CO. (George K. Ferguson, Pres. and Gen. Mgr.; C. B. Hays, Vice-Pres.; Wilber Hunting, Sec.; S. Balch, Treas.; A. W. Field, Sales Mgr.; V. F. Quigley, Prod. Mgr.; L. J. Scherf, Supt.; H. S.

Faram, Chief Chem.; R. Trelfa, Tech. Dir.; R. Spencer, Pur. Agt.; C. Kelly, Traffic Mgr.) S. P., at mill. Railroad Siding, C. & O.—Pere Marquette Div. Six 1800-lb. Beaters, four Jordans, one Continuous Washer, two Rotaries, and one Circulating Cooker. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 128 inches. Width of Embossing Equipment, 53 inches. Electricity. Coated—Book, Offset, One-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 160,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. One Globe Rotary Digester. Electricity. Semi-Chemical Fiber, 20,000 lbs. 24 hours. DE-INKING PLANT. 60,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 11 Cords. Highways, U. S., 12; State, 140. Phone: Watervliet 3141.

WHITE PIGEON—St. Joseph Co.

On N. Y. C. R. R. M. O. and Tel.

EDDY PAPER CORP. Main Office, 919 N. Michigan Ave., Chicago (I. W. Kieckhefer, Pres.; K. W. Schneider, Vice-Pres. and Res. Mgr.; W. F. Kieckhefer, Sec.; O. F. Flatland, Supt.; H. J. Lemense, Pur. Agt.) MILL No. 2. Railroad Siding, N. Y. C. R. R. Fourteen 1200-lb. Beaters, one 12,000-lb. Breaker and six Refiners. One 100-inch and one 122-inch Cylinder Machines; widest trimmed sheets, 92 and 110 inches. Water, Steam and Electricity. Single and Double Patent Coated News, Clay Coated Folding Box Boards. 400,000 lbs. 24 hours. Highway, U. S., 112, ½ mile. Phone 129.

YPSILANTI—Washtenaw Co.

On N. Y. C.; M. C. R. R. M. O., Tel. and Ex.

PENINSULAR PAPER CO. (Daniel L. Quirk, Jr., Chairman of Board; Daniel T. Quirk, Pres. and Treas.; D. G. Quirk, Vice-Pres.; Mrs. Florence S. Gilmore, Sec.; J. D. Shepherd, Sales Mgr.; J. J. Ely, Supt.; Glenn Touse, Chief Chemist; Peter Bennett, Maintenance Head; E. C. Robtoy, Traffic Mgr.) S. P., at mill. Six 1000-lb. Beaters and two Jordans. One 65-inch and one 82-inch Fourdriniers; widest trimmed sheets, 58 and 74 inches. Width of Paster, 51 inches. One 40-inch Plater and one 40-inch Embosser. Steam and Electricity. Cover, Calender Papers, Sulphite Specialties, Unbleached and Bleached Kraft Specialties. 80,000 lbs. 24 hours. Highways, U. S., 112; State 12 and 17. Phones: 62, 63. Teletype 762—Ypsilanti.

MINNESOTA

BRAINERD—Crow Wing Co.

On N. P.; M. & I. R. R. M. O., Tel., Bank, Exp., Air Port and Greyhound Bus.

NORTHWEST PAPER CO., THE. General Office, Cloquet. (F. K. Weyerhaeuser, Chairman of Board; Stuart B. Coneland, Pres.; B. W. McEachern, Vice-Pres. and Mgr. of Sales; Mace V. Harris, Vice-Pres. and Mgr. of Mfg.; F. A. Kelly, Vice-Pres. and Mgr. of Land and Timber; H. T. Kendall, Jr., Vice-Pres.; E. W. Spoor, Sec.-Treas.; A. R. Boynist, Asst. Treas. and Compt.; L. N. Benson, Asst. Sec.; R. E. Noreus, Mgr. Tech. Service Dept.; L. V. Blinn, Mgr. Purchases; J. H. Webb, Traffic Mgr.; L. J. Gayou, Mill Mgr.; Earl W. Wolleat, Asst. to Mgr.; Fred Shew, Master Mech.; Howard Shanks, Chief Engr.) Railroad Siding, N. P. R. R. FREDERICK MILL. One Hydrapulper, one Chemical Pulp Chest, one Blender, one Broke Beater, one Broke Chest, one Machine Chest, two Jordans and one Claflin. One 128-inch Fourdrinier; widest trimmed sheet, 116 inches. Steam and Hydro-Electricity. Ground Wood, Drawing, Hanging and Groundwood Specialties. 160,000 lbs. 24 hours. CROW WING GROUND WOOD MILL. S. P., at

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1955

two 1200 lb Beaters and two Jordans One 72-inch and one 94 inch Fourdriniers; widest trimmed sheets, 60 and 86 inches Water Steam and Electricity LOWER MILL Seven Beaters, two Bertram and six Jordans One 86 inch and two 94-inch Fourdriniers, widest trimmed sheets, 72 inches and 86 inches Water, Steam and Electricity Condenser Tissue, Coil Winding Tissue and Electrical Insulating Paper. Highway, U. S., 202, 1/10 mile Phone Westfield 468.

West Groton—Middlesex Co.

On B & M R. R. Nearest Bank, Ayer, 4 miles.

GROTON LEATHER BOARD CO. (Winthrop L. Sheedy, Pres and Treas.; Carl A. P. Lawrence, Vice-Pres; Harry J. Hosking, Sec and Supt) WEST GROTON MILLS. S. P., at mill. Water and Electricity Stereotype Dry Matrix. Phone: Groton 334.

HOLLINGSWORTH & VOSE CO. General Office, East Walpole, Mass., New York Sales Office, 331 Madison Ave. (Aubrey K. Nicholson. Pres. and Gen. Mgr.; Mark Hollingsworth, Vice-Pres; Bruce G. Lennox, Treas. and Clerk; Grant Harrington, Sales Mgr.; Eugene E. Smith, Prod Mgr.; Roland W. Sawyer, Mill Supt, West Groton Mill; Hubert Smith, Pur. Agt.; Harold Knudson, Tech. Dir.; Stanley F. Marr, Dir. of Engr.; H. T. Barber, Chief Engr., West Groton Mill; T. J. Lyons, Asst. Pur. Agt) WEST GROTON MILL. Railroad Siding. Boston & Maine R. R. Nine 1500-lb. and eight 1600-lb. Beaters, five Jordans, four Screens, one Pulper and ten Rotaries. One 65-inch Three Cylinder and one 86-inch Four Cylinder; widest trimmed sheets, 54 inches and 75 inches One 62-inch Fourdrinier; widest trimmed sheet, 57 inches. Electricity: 60 Cycle, 3 Phase: 110 v. Small Motors, 440 v. Large Motors: Oil; 150-lb. Steam Pressure. Effluent Treatment Plant. Rope, Jute, Wood, Rag Industrial Specialties. Electrical Insulating, Saturating and Absorbent, Filter, Sandpaper Backing, Red Rope Papers, Tag Board, Coating Specialties. Heavy Duty Wallet, Patch, Stencil, Tympan, Duplex, Tube, Gasket, Pattern and Laminated Pattern, Crepe Specialties and Crepe Saturating, Wet Strength Papers, Black Papers and Iron Tag. 70,000 lbs 24 hours. Highways, U. S, 40; State, 2A. Phone: Ayer 337.

West Springfield—Hampden Co.

On B. & A. R. R. M. O, Tel. and Ex., Springfield, 3 miles. Bradley Field, Windsor Locks, Conn., 13 miles.

PREMOID CORP., formerly Premoid Products, Inc. (F. Nelson Bridgham, Chairman; Cassius M. Bryan, Pres.; Charles F. Collins, Vice-Pres.; Raymond E. Clark, Sec.-Treas.; Franklin B Comery, Sales Mgr.) S. P., West Springfield. Railroad Siding, B. & A. R. R. One 64-inch Fourdrinier; widest trimmed sheet, 56 inches. Special Industrial and Technological Papers including Saturating Papers for Gasket, Resin, Rubber and Other Purposes, Absorbent for Latex Saturation, and Artificial Leather Base. 30,000 lbs 24 hours Highway, U S, 20, 1/3 mile. Phone Springfield 6-2777 and New York City —Rector 2 2662 (Direct Line to Mill at West Springfield).

SOUTHWORTH CO. (Melvin D Southworth, Pres.; Phelps Brown, Sec.-Treas.; Alfred L. Montagna, Supt.) Railroad Siding, B. & A. R. R Five 850-lb. Beaters. One 80-inch Fourdrinier; widest trimmed sheet, 44 inches; widest machine finished paper in rolls, 70 inches; widest tub sized paper in rolls 68 inches. Water and Electricity Bonds, Linens, Ledgers, Typewriter Papers, Onion Skin, Manuscript Covers and De Luxe Bonds with Visible Watermarks, 16,000 lbs. 24 hours Highway, U S, 20, ⅛ mile. Phone: 2-5141

STRATHMORE PAPER CO. Mills at West Springfield and Woronoco, Mass. New York Office, 25 West 43rd St. (C. M. Bryan, Chairman of Board; F. N. Bridgham, Pres.; A. E. Shattuck, Vice-Pres. in Charge of Supplies; H. E. Riggs, Vice-Pres. in Charge of Sales; L. W. Shattuck, Vice-Pres. in Charge of Prod.: Paul A. Wilks, Treas.: B. E. Stafford, Clerk: B. P Wood, H. A. Bolles and C. E. Benoit, Mill Supts.: P. G. Volanakis, Mgr. Tech. Sales; Roy F. Arnold, Mgr. Product Dev.; H. D. Johnston, Asst. to Pres.; H. C. Johnson, Supt. of Finishing; H. J. Liese, F. J. Barnoski and J. Pitoniak, Master Mechanics; P. P. Gooding, Tech. Dir.; G. R Wholean, Chief Engr.: J. S. Mudgett, Asst. Chief Engr; P. D Howe, Pur. Agt.; E. Eddings, Traffic Mgr) Railroad Siding, B. & A. R. R. Twenty-six 1000-lb. Beaters, seven Refiners, sixteen Washers and five Rotaries One 66-inch, one 76-inch, one 86-inch and one 106-inch Fourdriniers and two Special. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board. Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes. 140,000 lbs. 24 hours. Highway, U. S., 20. Phone: 6-8301.

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DOESKIN PRODUCTS, INC. Main Office, 41 E. 42nd, New York 17, N. Y. (At New York:—Lowell M. Birrell, Chairman of Board; Emanuel Katz, Pres.; Wm. O. Bradley, Vice-Pres.; V. E. Skoglund, Sec.: Edward Helmich, Treas.; Grant Stinchfield, Dir. of Sales; R. E. Partenheimer, Sales Mgr.; J. MacNeill, Traffic Mgr. At Mill:—Walter Dempsey, Gen. Mgr.; V. Ware, Plant Mgr.; H. Bourgeois, Div. Traffic Mgr.: T. Green, Pur. Agt.) HARDWICK MILLS. S. P., at Mill. Railroad Siding, B & M. R. R Two 1500-lb. and two 2000-lb. Horne Beaters, four Emerson Jordans, one 18,000-lb Pulper, one Washer, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 102, 106, and 112 inches wide. Generated Electricity, 630 k.w., 115 v.d.o., 1083 installed h.p.; 106 Motors, 115 v. Oil. 160-lb. Steam Pressure. Facial Tissue, Pocket Pack Tissues, and Cellulose Wadding, Dinner and Luncheon Napkins and Sanitary Napkins. 50,000 lbs. 24 hours. Phone: Gilbertville 2541.

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PAPER CORP. OF AMERICA. S. P., at Mill. Railroad Siding, D. & M. Eight 2000-lb. Beaters, seven Jones Jordans, six Screens, three Bleachers, one Hydrapulper, three Pulpers and one Filter. Two 136-inch Fourdriniers; widest trimmed sheet, 124 inches. Electricity and Steam. Coal. Newsprint, .009 Chipboard, .009 Corrugating Medium, .014 Linerboard, 50% and 100% Kraft, Specialties. 200,000 lbs. 24 hours. GROUND WOOD AND SEMI-CHEMICAL PULP MILL. Three Grinders and two Digesters. Ground Wood. 140,000 lbs. 24 hours. Semi-Chemical Pulp. 50,000 lbs. 24 hours. Pulp Mill Under Construction. Highway, U. S, 27. Phone 980 (In Bankruptcy and Idle)

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CONSTANTINE BOARD & PAPER CO. (Frederick G. Weir, Pres. and Sales Mgr; Robert T. Weir, Jr., Sec. and Gen. Mgr; H E. Reinoehl, Prod. Mgr and Pur. Agt) FAWN MILL. S. P., at mill Railroad Siding, N Y C. R. R. Four 1000-lb. Beaters, two Pulpers and three Jordans, four Screens and Paper Machine Ventilator System One 108-inch Four Cylinder; widest trimmed sheet, 96 inches. 36 Driers, 36 inches in Diam, 102 inches wide Purchased Electricity. 440 v, 60 Cycles, 3 Phase 125 h p Installed Water Power 440 and 110 v Motors Electric and Turbine Drives Coal 150-lb Steam Pressure Water Treatment Plant Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set Up Box Board Manila Lined Board and Light Weight Specialties. 100,000 lbs. 24 hours Highway, U S, 131 1 mile. Phone. Constantine 4285

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DETROIT SULPHITE PULP & PAPER CO. Main Office, 9125 W. Jefferson Ave., 17. (G. N. Carleton, Pres.; L. Hulbert, Vice-Pres.; K. J. Sell, Vice-Pres. in Charge of Sales; Roy Davis, Vice-Pres. in Charge of Production; R. A. Mills, Sec.-Treas.; W. A. Stark, Asst. Treas.; M. F. Schnaufer, Chief Engr.; H. B. Randolph, Pur. Agt.; Paul Gates, Traffic Mgr.; C. G. Allen, Woodlands Mgr.) Railroad Siding, Mich. Cent. R. R. DELRAY MILL. S. P., at mill. Twenty-one 1400-lb. Beaters, eleven Refiners, six Jordans and six Paper Machine Ventilator Systems. One 80-inch Fourdrinier and five 120-inch Yankee M. G. Machines; widest trimmed sheet, 120 inches. Purchased and Generated Electricity. Coal. Water Treatment Plant. Mitscherlich Fiber, M. G. Tissue Bleached and Colored, Coating Papers in Bleached, Natural and Colors, Waxing in all Weights, Fourdrinier and Machine Glazed and Specialties. 300,000 lbs. 24 hours. SULPHITE PULP MILL. One Wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Fiber (dry). 300,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 220 Cords. Phone: Vi. 2-0042.

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AMERICAN BOX BOARD CO., FILER CITY MILL. Main Office, 470 Market Ave., S. W., Grand Rapids 2, Mich. (Walter S. Goodspeed, Pres.; G. B. Bonfield, Vice-Pres. Charge of Oper.; F. W. Oldenburg, Vice-Pres. Sales; Harrison L. Goodspeed, Sec.; R. K. Stoltz, Vice-Pres. and Treas.; B. W. Martin, Div. Mgr.; W. L. Schnorbach, Tech. and Engr. Mgr.; M. Nossaman, Prod. Mgr.; F. J. Morrison, Mill Sales Mgr.; D. L. Voigts, Chief Chem.; R. L. Harmer, Chief Engr.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt.) S. P., Manistee. Railroad Siding, M. & N. E. R. R. Two Sutherland Refiners, nine Jordans, one Pulper, one Filter and two Ross Paper Machine Ventilator Systems. One 162-inch and one 176-inch Fourdriniers; widest trimmed sheets, 148 and 156 inches. Eighty-eight Driers, 5 ft. in Diameter, 154 and 168 inches wide. Purchased Electricity, 13,000 k.w., 60 Cycles, 3 Phase, 440 and 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper. 680,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Digesters, two B. K. Continuous Dig. Chemipulpers, and seven Sprout Waldron Grinders. Steam and Electricity. 680,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 470 Cords. Highway, U. S., 31. 2 miles. Phone: Manistee 1500.

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On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

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KALAMAZOO PAPER CO. Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; B. H. Cooper, Vice-Pres., Dir. Pur.; J. M. Causey, Vice-Pres. and Sales Mgr.; F. B. Curtenius, Sec.-Treas.; Robert W Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Eight 1500-lb. Beaters, four Jordans, five Rotaries and Washing Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing Equipment on Both Machines. MILL NO. 2. Six 1500-lb Beaters, four Jordans, four Rotaries and Washing Equipment. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing Equipment on both Machines. MILL NO. 3. Four 1500-lb. and four 2000-lb. Beaters, four Jordans, one Hydrapulper and Washing Equipment. One 145-inch and one 167-inch Fourdriniers; widest trimmed sheets, 136 inches and 156 inches. Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish Super, Offset, Mimeograph, Writing Label, Music, Drawing, Linings and Hangings. 450,000 lbs. 24 hours. Highway, U. S., 12, 2 miles East. Phone: 3-2667.

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WESTERN MICHIGAN COLLEGE, Department of Paper Technology. (Alfred H Nadelman, Head of Department, Paul V Sangren, Pres, Wynand Wichers, Vice Pres.) Five Experimental Beaters and one Bauer Refiner One Noble & Wood Sheet Machine, various Sheet Molds. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research

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MARATHON CORP., MENOMINEE DIV. See Corporate Offices, Menasha, Wis. for Corporate Officials. (N. H. Foley, Resident Mgr.; Ben K Guenther, Paper Mill Supt.; John A. Gasperi, Converting Supt.; J. R. Kocha, Plant Engr) Six Claflin Refiners, three Jordans and one Hydrapulper. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 152 inches; one 136-inch Yankee Fourdrinier; widest trimmed sheet, 120 inches. Generated Electricity, Coal. Water Treatment Plant. Bleached Board Specialties, Waxing Tissue. 480,000 lbs. 24 hours. Highways, U. S., 173 and 41 Phone Menominee 5596.

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On N Y. C; Penn; P. M.; D & T R. R

CONSOLIDATED PAPER CO (Albert H Lockwood, Pres and Treas; C. Q Baron, Exec Vice-Pres. and Gen. Mgr; C. H R. Johnson, Vice-Pres. in Charge of Mfg; S. J. Newcomer, Vice-Pres. and Gen Sales Mgr.; J. B. Taft, Vice-Pres; G L Bronson, Vice-Pres; R J. Scheidinger, Sec) S. P, Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, two Continuous Shartle Beaters and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 500,000 lbs. 24 hours BOX BOARD MILL. Twenty Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 500,000 lbs. 24 hours. STRAW BOARD MILL. Four Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets, 52, 71 and 88 inches. Steam. Straw Board for Corrugating, 220,000 lbs. 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel. 200,000 lbs. 24 hours. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56. Phones: 1200-1204.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (Burton S. Knapp, Pres; Charles E. Raney, Vice-Pres., Gen. Mgr. and Pur. Agt.; G. A. Blum, Sec.-Treas.; Gene L. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Leon Black, Plant Engr.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Seven 1400-lb. Dilts Beaters, two Hydrapulpers, one Dilts Breaker Beater and ten Jordans. Two Wet Machines; widest trimmed sheet, 60 inches; one 68-inch Three Cylinder; widest trimmed sheet, 60 inches; one 78-inch Three Cylinder; widest trimmed sheet, 68 inches, and one 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity. Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 270,000 lbs. 24 hours. Highway, U. S, 24 Phone: 2380.

RIVER RAISIN PAPER CO., 1109 E. Elm Ave. (J. Frank Gray, Board Chairman; Charles L. Wood, Pres.; J. W. Walter, Vice-Pres and Sec.-Treas; A. J. Goetz, Exec. Vice-Pres.; H. V. Hodge, Vice-Pres. Sales. Fred B. Attwood, Vice-Pres Mfg; A. W Schulte, Gen. Sales, Mgr.; E F Hochradel, Dir. of Pur; Harry L Lamb, Dir. of Prod, M F. Knack, Mill Mgr; C. E Hanthorne, Chief Engr; J. Fuko, Chemist; W G Etter, Dir of Industrial Relations; C F Curson, Traffic Mgr) S P, at all mills MILL NO 2 Six 1500-lb Beaters, one 150 ton Dilts Hydrapulper, one 112 inch Seven Cylinder Board Machine; widest trimmed sheet, 100 inches. MILL NO 3. Five 1500-lb Beaters, one 100-ton (Top Liner) Dilts Hydrapulper and one 150-ton Dilts Hydrapulper, one 124 inch Seven Cylinder Board Machine, widest trimmed sheets, 112 inches MILL NO. 4 Four 1500 lb Beaters, one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine, widest trimmed sheet, 112 inches. MILL NO 5 Six 1500-lb. Beaters with Double Washers, ten Rotaries and one 102-inch Two Cylinder Straw Board Machine; widest trimmed sheet, 92½ inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials 800,000 lbs 24 hours Highways, U. S, 24, 2 miles, and 25, 1 mile, State, 56. Phone Monroe 1300.

Munising—Alger Co.

On L. S & I, connecting with C. & N. W. and D. S. S. & A M. O, Tel and Ex.

MUNISING PAPER CO, THE. 135 S. La Salle St., Chicago. (Cola G. Parker, Pres.; John R. Kimberley, Exec. Vice-Pres; W R. Kellett, Vice-Pres; O D. Bast, Sec.-Treas; E. F. Bartels, Asst Sec.; J. L Sensenbrenner, Asst. Sec.-Treas; N. J. Niks, Gen. Supt; J. F. Hechtman, Res. Dir; W. Joslin, Pur and Stores Supr.; J H Hebert, Traffic Mgr; W D. Beerman, Plant Engr) S P, at mill NO. 1 MILL. Ten 1800-lb. Beaters Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached Specialties 160,000 lbs. 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Fiber. 180,000 lbs 24 hours Highways, U. S, 41, 30 miles; State, 94 and 28 Phone: 56

Muskegon—Muskegon Co.

On P. M, M R & Nav Co; G T. P. R. R; Muskegon Co. Airport; Greyhound Bus Lines M O, Tel, Bank and Exp.

S. D WARREN CO, Central Paper Div., formerly Central Paper Co, Inc Office, 2400 Lakeshore Dr. Main Office, 89 Broad St, Boston, Mass. For Executives, see Main Office (Operations Officials: F. W. Roberts, Gen Mgr; Walter E. Woods, Prod. Mgr.; Daniel F. Smith, Sales Mrg; H. J. Hotz, Tech Dir.; W A Wrase, Ch Engr; F. W Eggleston, Pur Agt, D. DeGlopper, Traffic Mgr, J N Fields, Woodlands Mgr) S P, at mill Railroad Siding, P. M. R R. Twenty six 1200 lb Beaters and

six Jordans. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Steam and Electricity. Anti-Tarnish, Box Cover, Butchers, Crepe, Coating, Die Wiping, Envelope, Specialties, Manifold, Onion Skin, Imitation Press Board, Stencil Board, Second Sheets, Table Covers, Twisting, Cover Stock, Sign Papers, Carbonizing Tissues, Saturating Papers, Wet Strength Paper, Window Shade Paper and Wrapping. 280,000 lbs. 24 hours. SULPHATE PULP MILL. Five Digesters; three Wet Machines. Steam and Electricity. Sulphate Fiber. 280,000 lbs. 24 hours. Highways, U. S., 16 and 31, 3 miles; State, 46. Phone: 51-627.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO. (F. G. French, Pres.; J. E. French, Vice-Pres. and Pur. Agt.; L. F. Kretchman, Sec. and Treas.; H. Nelson, Supt.; R. Fralick, Chief Engr.) Railroad Siding, N. Y. C. R. R. Four Dynapulpers and four Jordans. One 95-inch and one 118-inch Fourdriniers; widest trimmed sheets, 80 and 105 inches. Steam and Electricity. Plain and Embossed Offset, Text, Papetries, Colored Envelope, Litho. 100,000 lbs. 24 hours. Highways, U. S., 31; State, 60. Phone: 32.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; G. E. Nolan, Sec.; Howard H. Rausch, Supt.; Wm. Preussner, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at Mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 12½ feet x 136 inches. Purchased Electricity; 60 Cycles, 3 Phase, 1521 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure. Coal. Effluent Treatment Plant. Pattern Tissue. White Wrapping Tissue and Tissue Specialties. 30,000 lbs. 24 hours. Highways, U. S., 31-112; State, 60. Phone: Niles 736.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R. M. O., Tel., Bank and Exp. Nearest Air Port, Ironwood, Mich.

NATIONAL CONTAINER CORP. OF ...ICH. (Samuel Kipnis, Pres.; Newton Cuneo, ...ce-Pres. and Mgr.; Harry Ginsberg, Vice-...es.; Albert H. Edwards, Vice-Pres.; Wm. T. ...bster, Vice-Pres.; C. G. McLaren, Vice-...s.; J. L. Kipnis Vice-Pres.; Lionel M. Gold-..., Vice-Pres.; M. M. Bernstein, Sec.; Murray ...er, Asst. Sec.; Max Ackerman, Treas.; A. T. ...er, Supt. Board Mill.; R. J. Gilmer, Supt.

Pulp Mill; M. E. King, Chief Engr.; W. W. Marteny, Tech. Dir.; F. L. Conger, Traffic Mgr.) Railroad Siding. S. P. at mill. One 2000-lb. Valley Iron Works and two 2000-lb. Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches. Seventy Driers, 48 inches in Diameter and 124 inches wide. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k. w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures. Cylinder Kraft Liner Board. 240,000 lbs. 24 hours. SULPHATE PULP MILL. Five Digesters and one Wet Machine. Unbleached Sulphate Fiber 250,000 lbs. 24 hours. Highways, U. S., 45, 1 mile; State, 64. Phone: 1. (Idle)

Otsego—Allegan Co.

On N. Y. C. R. R. M. O., Bank and Exp. Tel. at Kalamazoo. Peoples R. T. and Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (C. M. Sisson, Pres., Gen. Mgr.; L. W. Dickinson, Vice-Pres.; C. F. Sisson, Vice-Pres.; M. V. Stowe, Treas.; Walter F. Wolfe, Supt.; Leslie Peck, Tech. Dir. and Chief Chemist; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.; S. A. Bohrer, Sales Rep., Chicago.) Railroad Siding, N. Y. C. R. R. S. P. at Mill. MAC SIM BAR MILL. Fifteen 1200-lb., four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain and Oak Marble, Burlap Grained Solid Jute Board and White Patent Coated News. 600,000 lbs. 24 hours. Highways, U. S., 131, 2 miles; State 89. Phones: Kalamazoo 4-5500, Otsego 3841.

OTSEGO FALLS PAPER MILLS, INC. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; Roger McVickar, Tech. Dir.; Don Borden, Engr.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 1500-lb., and one 2500-lb. Beaters. One 84-inch and one 110-inch Fourdriniers; widest trimmed sheets, 77 inches and 102 inches. Water, Steam and Electricity. .009 Corrugating, Saturating, Can, Asphalt Boards for Corrugating, Semi-Chemical Wood Pulp Boards, Asphalt Automobile Boards and Special Asphalted Papers and Boards. 200,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters, Unbleached

Semi-Chemical Fiber. 200,000 lbs. 24 hours. Average Daily Consumption of Unpeeled Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego 3411.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Charles G. Wood, Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Floyd M. Murphey, Jr., Vice-Pres.; Charles R. Ehinger, Supt.; Guy Carmichael, Ch. Engr.; Kenneth R. Moehl, Traffic Mgr.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans, one Hydrafiner and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity. Chipboard, Specialties, Building and Insulating. 100,000 lbs. 24 hours. Highway, U. S., 223. Phone: Adrian 2340.

Parchment

A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight L. Stocker, Pres.; John C. Wood, Vice-Pres. Charge of U. S. A. Mfg.; E. Norval Hunter, Vice-Pres. Charge of Canadian Operations; C. F. Christy, Vice-Pres. Charge of Sales; C. Longford Felske, Vice-Pres. Charge of Finance; Harold De Weerd, Sec.; W. R. Hess, Asst. Sec.-Treas.; F. D. Libby, Corporate Pulp and Paper Consultant; R. D. Caine, Mfg. Mgr.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic and Shipping Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. Thirteen Waxing Machines. MILL NO. 1. Three Hydrafiners, four 2000-lb., two 2500-lb. Beaters and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 3200-lb. Broke Beaters, three 2500-lb. Vortex Beaters and nine Majestic Jordans and one Bertram Refiner. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Kankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Greaseproof, Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1, 130,000 lbs.; MILL NO. 2, 365,000 lbs. 24 hours. Highways, River Road; U. S., 131 and 12. Phone: 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O. and Tel.

MICHIGAN PAPER CO. OF PLAINW... wholly owned subsidiary of W. C. Hamil... Sons, Miquon, Pa. All papers sold by W... Hamilton & Sons. (Allan B. Milham, ... C. A. Braginton, Treas.; Lane Taylor, Sec... L. Brown, Asst. Sec. and Pur. Agt.; Ra... Barton, Supt.; J. A. Dean, Chief Chemist; ... old Greenburg, Traffic Mgr.) Railroad Si... Penna. R. R. Thirteen 1400-lb. Beaters ... five Refiners. One 110-inch and two 130-i... Fourdriniers; widest trimmed sheets, 98 inc... 118 inches and 120 inches. Widest Super-Cal... der, 80 inches. Water, steam and Electric... Effluent Treatment Plant. English Finish Boo... M. F. Book, M. F. Litho, S. C. Book, Antiq... Book, Tub Sized Offset, Bond, Mimeograp... Duplicator, Tablet, Writing, Catalogue, Bib... Papers, Colored Covers, Blanking and Poste... 160,000 lbs. 24 hours. Highways, U. S., 131... State, M-89. Phones 2411, 2421.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Pres. and Treas.; Geo. C. Dunn, Exec. Vice-Pres. and Sec.; W. A. Fisher, Vice-Pres.; H. G. Wales, Vice-Pres. Charge of Sales; D. J. Haines, Asst. Treas.; P. R. Bruce, Plant Engr.; Grady Pickett, Supt.; W. F. Parker, Tech. Dir.; M. C. Jones, Pur. Agt.) Railroad Siding, G. T. W. R. R. Four 1600-lb. and one 2000-lb. Beaters and two Jordans; three Bleachers, nine Filters, one 16-ft. Hydrapulper, seven Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 126 inches. Electricity: 2000 K. V. A.; 60 Cycles, 3 Phase, 440 v. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p. s. i. Water Treatment Plant. Sulphite and Sulphate Papers for Bag, Bread Wrapper, Fine Crepe, Foil Mounting, Envelope, Wrapping, Twisting, Waxing, Napkin, Absorbent Tissue Excelsior, Machine Coated Opaque, One-time Carbonizing and Other M. G. Bleached and Unbleached Specialties. 80,000 lbs. 24 hours. Highway, U. S., 25, ½ mile. Phone: 5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; N. O. Seagrave, Pres.; F. Kiefer, Vice-Pres.; G. F. Durand, Vice-Pres.; S. L. Bush, Treas.; Joseph L. Hoolihan, Gen. Supt.; L. T. Summers, Sec. and Tech. Dir.; W. D. Thompson, Pur. Agt.; F. B. McFarland, Gen. Sales Mgr.; John Maes, Paper Mill Supt.; J. Arthur, Asst. Tech Dir.) One 132-inch Fourdrinier, two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches. Two 84-inch Cylinders. Steam and Electricity. Antique, Bag Paper, Bond, Bread Wrap... Bristol, Building, Butter Wraps... pers, Car Lining... Carbonized...

MHI-00046

Florists' Wax Tissue, Folder, Guide Stock, Impregnating, Index Bristol, Laminated Specialties, Leatherette Papers, Locker Paper, M. G. Wrapping and Specialties, Manifold, Mill Wrappers, Offset, Onion Skin, Protective Papers, Printed Papers, Register, Saturating, Soda Straw Paper, Surface Watermarked Papers, Salesbook, Second Sheets, Shredded Paper, Specialties, Sulphite Bond, Tag Board, Textile, Tissue, Trunk Wrapping, Typewriter, Typewriter Manifold, Waxed, Waxing, Wrapping, Writing. 130,000 lbs. 24 hours.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO. (Paul H. Travis, Pres., and Gen. Mgr.; A. R. Fortune, Vice-Pres. and Sales Mgr.; S. J. Fortune, Vice-Pres. and Prod. Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas.; Armand Pepin and Thad Perkins, Asst. Supts.; Jack Weaver, Tech. Dir.; W. F. Furest, Ind. Engr.; M. S. Arnold, Pur. Agt.) S. P., at Mill. Railroad Siding, G. T. R. R. Three 1000-lb. Beaters and two Noble & Wood Jordans. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Steam and Electricity. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt, Impregnating and Absorbent Specialties. 25,000 lbs. 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-9851.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; Ruth Gardner Gumbin, Vice-Pres. and Treas.; Fred Gave, Sr., Prod. Mgr. and Supt.; Grover C. Welch, Chief Engr.; Edward W. Gave, Pur. Agt.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, five Jordans, six Screens. One 70-inch Six Cylinder; widest trimmed sheet, 64 inches. Eighty Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 600 h. p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. 135 p. s. i. Steam Pressure. Coal. White Pat. Coated, Chip Board, News Board, Jute Filled, Solid Jute, Vat Lined Chip Board, Suit Board and Combination Board. 120,000 lb. 24 hours. Highway, U. S., 131, 1½ miles. Phone: 2211.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank Airport at Kalamazoo. Greyhound Bus.

EDDY PAPER CORP. (For Officers, see White Pigeon, Mich.) (Mill Dismantled.)

ROCKY RIVER PAPER MILLS, INC. Main Office, Lock Drwr. 404. (J. C. Plantefaber, Pres. and Gen. Mgr.; D. H. Greene, Vice-Pres.; J. Gus Liebenow, Sec.; R. J. Suess, Treas.; Corwin H. Drew, Sales Mgr.; F. Fox, Supt.; E. Dunton, Chief Engr.; Clark Smith, Pur. Agt. and Traffic Mgr.) S. P., at Mill. Railroad Siding, N. Y. C. (M). R. R. Five 1000-lb. Beaters, five Jordans, four Washers, one Pulper, six Screens and one Paper Machine Ventilator System. One 80-inch Cylinder; widest trimmed sheet, 74 inches. Seventy-four Driers, 48 inches in Diam. and 82 inches wide. Generated Electricity. 3 Phase, 440 v., Turbine Drives. Coal. Water and Effluent Treatment Plants. Bogus Bristol, Solid Bristol, Ticket Bristol, Receipt Bristol, Index Bristol, Tag Boards, Chocolate Layer Board, Folding Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and White Clay Coated Display Board, Colored Specialties. 100,000 lbs. 24 hours. Highways, U. S., 131, 1 mile; State, 60, 1 mile. Phone: 3-1015.

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Tel. and Ex.

LEE PAPER CO. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres.; Byron Bishop, Sec.; W. J. Comstock, Treas.; Albert Christian, Mill Mgr.; Arthur Katt, Supt.; John Stroud, Pur. Agt.; Stephen Kukolich, Tech. Dir.) S. P., at mill. Fourteen 600-lb. and four 1000-lb. Beaters, three Jordans and four Refiners; seven 1000-lb. Washers and four 10,000-lb. Rotaries. Two 121½-inch Fourdriniers; widest trimmed sheet, 107 inches; one 132-inch Fourdrinier; widest trimmed sheet, 119 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 150,000 lbs. 24 hours. Highways, U. S., 131, 5 miles West; State, M60, 6 miles South. Phone: Vicksburg 2251.

Watervliet—Berrien Co.

On P. M. R. R. M. O., Tel., Bank and Ex.

WATERVLIET PAPER CO. (George K. Ferguson, Pres. and Gen. Mgr.; C. B. Hays, Vice-Pres.; Wilber Hunting, Sec.; S. Balch, Treas.; A. W. Field, Sales Mgr.; V. F. Quigley, Prod. Mgr.; L. J. Scheid, Supt.; H. S. Faram, Chief Chem.; R. Trelfa, Tech. Dir.; R. Spencer, Pur. Agt.; C. Kelly, Traffic Mgr.) S. P., at mill. Railroad Siding, C. & O.—Pere Marquette Div. Six 1800-lb. Beaters, four Jordans, one Continuous Washer, two Rotaries, and one Circulating Cooker. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 128 inches. Width of Embossing Equipment, 53 inches. Electricity. Coated—Book, Offset, One-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 160,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. One Globe Rotary Digester. Electricity. Semi-Chemical Fiber, 20,000 lbs. 24 hours. DE-INKING PLANT. 60,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 11 Cords. Highways, U. S., 12; State, 140. Phone: Watervliet-Ingersoll 8-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O. and Tel.

EDDY PAPER CORP. Main Office, 919 N. Michigan Ave., Chicago. (J. W. Kieckhefer, Pres.; K. W. Schneider, Vice-Pres. and Res. Mgr.; W. F. Kieckhefer, Sec.; O. F. Flatland, Supt.) MILL No. 2. Railroad Siding, N. Y. C. R. R. Fourteen 1200-lb. Beaters, one 12,000-lb. Breaker and six Refiners. One 100-inch and one 122-inch Cylinder Machines; widest trimmed sheets, 92 and 110 inches. Water, Steam and Electricity. Single and Double Patent Coated News, Clay Coated Folding Box Boards. 400,000 lbs. 24 hours. Highway, U. S., 112, ½ mile. Phone 129.

Ypsilanti—Washtenaw Co.

On N. Y. C.; M. C. R. R. M. O., Tel. and Ex.

PENINSULAR PAPER CO. (Daniel L. Quirk, Jr., Chairman of Board; Daniel T. Quirk, Pres. and Treas.; D. G. Quirk, Vice-Pres.; Mrs. Florence S. Gilmore, Sec.; J. D. Shepherd, Sales Mgr.; J. J. Ely, Supt.; Glenn Touse, Chief Chemist; Walter Dice, Maintenance Head; E. C. Robtoy, Traffic Mgr.) S. P., at mill. Six 1000-lb. Beaters and two Jordans. One 65-inch and one 82-inch Fourdriniers; widest trimmed sheets, 58 and 74 inches. Width of Paster, 51 inches. One 40-inch Plater and one 40-inch Embosser. Steam and Electricity. Cover, Calendar Papers, Sulphite Specialties, Unbleached and Bleached Kraft Specialties. 80,000 lbs. 24 hours. Highways, U. S., 112; State, 12 and 17. Phones: 62, 63. Teletype Ypsilanti, Mich. 40

MINNESOTA

Brainerd—Crow Wing Co.

On N. P.; M. & I. R. R. M. O., Tel., Bank, Exp., Air Port and Greyhound Bus.

NORTHWEST PAPER CO., THE. General Office, Cloquet. (F. K. Weyerhaeuser, Chairman of Board; Stuart B. Copeland, Pres.; B. W. McEachern, Vice-Pres. and Mgr. of Sales; Mace V. Harris, Vice-Pres. and Mgr. of Mfg.; F. A. Kelly, Vice-Pres. and Mgr. of Land and Timber; H. T. Kendall, Jr., Vice-Pres.; E. W. Spoor, Sec.-Treas.; A. R. Boquist, Asst. Treas. and Compt.; L. N. Benson, Asst. Sec.; R. E. Noreus, Mgr. Tech. Service Dept.; L. V. Blinn, Mgr. Purchases; J. H. Webb, Traffic Mgr.; L. J. Gayou, Mill Mgr.; Earl W. Wolleat, Asst. to Mgr.; Fred Shew, Master Mech.; Howard Shanks, Chief Engr.) Railroad Siding, N. P. R. R. FREDERICK MILL. One Hydrapulper, one Chemical Pulp Chest, one Blender, one Broke Beater, one Broke Chest, one Machine Chest, two Jordans and two Claflins. One 128-inch Fourdrinier; widest trimmed sheet, 116 inches. Steam and Hydro-Electricity. Ground Wood. Drawing, Hanging and Groundwood Specialties. 160,000 lbs. 24 hours. CROW WING GROUND WOOD MILL. S. P., at mill. Seven Grinders and two Wet Machines. Hydro-Electricity and Steam. Ground Wood. 140,000 lbs. 24 hours. Highways, U. S., 210 and 371; State, 18. Phone: Brainerd 2818.

Cloquet—Carlton Co.

On G. N.; N. P.; C. M. St. P. & P.; D. & N. E. R. R. M. O., Tel., Bank and Ex. Air Port, Duluth. Greyhound Bus.

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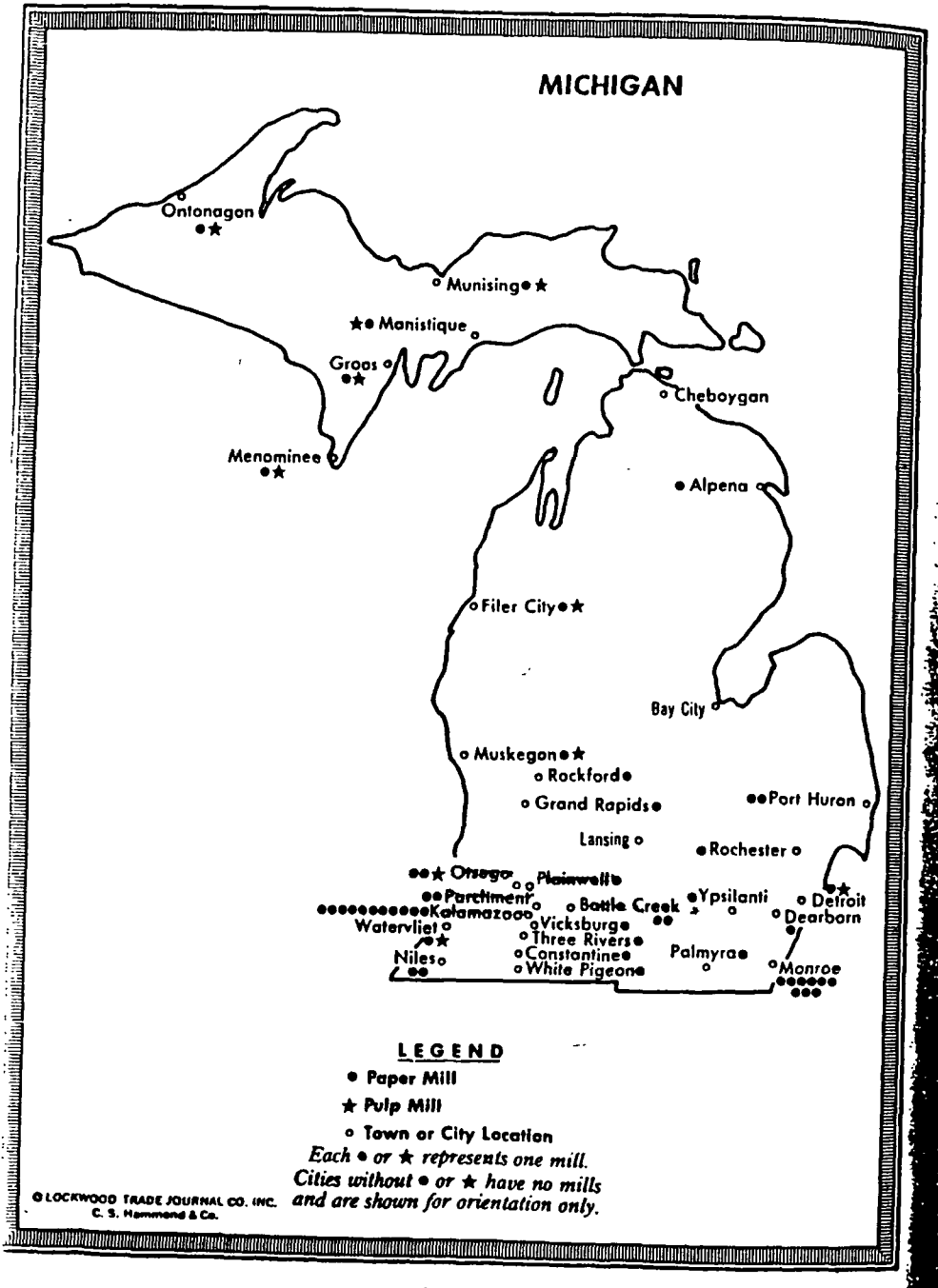

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AMERICAN BOX BOARD CO., FILER CITY DIV. Main Office, 470 Market Ave., S. W., Grand Rapids 2, Mich. (Walter S. Goodspeed, Pres., G. B. Bonfield, Vice.-Pres.-Gen. Mgr.; Filer City Div.; Robert K. Stolz, Vice-Pres.-Central Div.; F. W. Oldenburg, Vice-Pres.-Dir. of Sales; Harrison L. Goodspeed, Sec; C. C. Boyer, Treas; G. Dlesk, Operation Mgr.; M. Nossaman, Prod. Mgr.; F. J. Morrison, Sales Office Mgr.; D. Elliott, Engr. Mgr.; E. Beauvais, Tech. Dept. Mgr.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S. P., Manistee. Railroad Siding, M. & N. E. R. R. Two Sutherland Refiners, nine Jordans, one Pulper, one Filter and two Ross Paper Machine Ventilator Systems. One 162-inch and one 176-inch Fourdriniers; widest trimmed sheets, 148 and 156 inches. Eighty-eight Driers, 5 ft. in Diameter, 154 and 168 inches wide. Purchased Electricity, 13,000 k.w., 60 Cycles, 3 Phase, 440 and 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper. 680,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Digesters, two B. K. Continuous Dig. Chemipulpers, and seven Sprout Waldron Grinders. Steam and Electricity. 680,000 lbs. 24 hours Average Daily Consumption of Peeled Pulp Wood, 470 Cords. Highway, U. S, 31. 2 miles Phone: Manistee 1500.

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KALAMAZOO PAPER CO., Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; B. H. Cooper, Vice-Pres., Dir. Pur.; J. M. Causey, Vice-Pres. and Sales Mgr.; F. B. Curtenius, Sec.-Treas.; Robert W Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Eight 1500-lb. Beaters, four Jordans, five Rotaries and Washing Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing Equipment on Both Machines. MILL NO. 2. Six 1500-lb Beaters, four Jordans, four Rotaries and Washing Equipment. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing Equipment on both Machines. MILL NO. 3. Four 1500-lb. and four 2000-lb. Beaters, four Jordans, one Hydrapulper and Washing Equipment. One 145-inch and one 167-inch Fourdriniers; widest trimmed sheets, 136 inches and 156 inches. Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Label, Music, Drawing, Linings and Hangings. 450,000 lbs. 24 hours. Highway, U. S., 12, 2 miles East. Phone: 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; L. R. Sanderson, Pres.; F. A. Manske, Vice-Pres. Operations; W. F. Anderson, Vice-Pres. Mfg.; L. L. Hank, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr -Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Three 1800-lb. HS Beaters, one 150-ton Pulper, and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Steam and Electricity. Gypsum Liner Board Paper, 270,000 lbs. 24 hours. Highway, U. S., 12. Phone: 3-1275.

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ST. REGIS PAPER CO., Main Office, 230 Park Ave., New York 17, N. Y. KALAMAZOO MILL: (W. E. Caldwell, Jr., Res. Mgr.; F. H. Pepe, Office Mgr.; R. A. Larson, Gen. Supt.; M. J. Killian, Tech. Dir.; R. S. Welsh, Plant Engr.; H. H. Gilman, Traffic Mgr. (Kalamazoo) H. L. Smith, Traffic Mgr. (Chicago), D. C. Grebe, Pur. Agt.) One 137-inch, one 139-inch, one 141-inch, one 154-inch, and one 164-inch Fourdriniers; widest trimmed sheet, 152 inches. Width of Super-Calenders, 60-64-70-90 and 160 inches. Steam and Electricity. Machine Finish, Eggshell, Roto, Supercalendered Book, Litho, Coating Raw Stock, Label, Music, Offset, Catalog, Bible, Writing and Specialties. 450,000 lbs. 24 hours. COATING MILL. C1S and C2S Enamels, Label, Cover, Inserts, etc 200,000 lbs. 24 hours. Waste Paper Pulp. High

U. S., 131, 1 mile; 12, 2 miles; State, miles. Phone: 5-7131.

THERLAND PAPER CO., Main Office, E. Paterson, 13D. (L. W. Sutherland, man; William Race, Pres.; G. E. Gra- Vice-Pres.; A. L. Sherwood, Vice-Pres.; Angotti, Vice-Pres.; L. W. Sutherland, Vice-Pres.; J. T. Kirkpatrick, Vice-Pres.; W. Smith, Sec.-Treas.; Martin Galbraith, Dir. and Chief Chem.; L. F. Bunde, ef Engr.; D. D. Bachelder, Pur. Agt.; C. Fenstermaker, Traffic Mgr.) EAST SIDE ANT. (Arnold Weller, Supt.) Five Re- ers. One Seven Cylinder; widest trimmed eet, 93 inches. Steam and Electricity. Fold- Box Boards. 250,000 lbs. 24 hours. ORTH SIDE PLANT. (Glen Sutton, Supt.) ailroad Sidings, C. K. & S. P. R. R. and Y. C. R. R. Five 1650-lb. and five 2000- Beaters, one Shartle Breaker Beater, six Hydrapulpers and four Hydrafiners, three Con- inuous Broke Beaters and seventeen Jordans. One 100-inch Six Cylinder, one 116-inch Seven Cylinder and one 132-inch Seven Cylinder and one 154-inch Eight Cylinder; widest trimmed sheets, 92, 102, 120 and 138 inches. Steam and Electricity. White Patent Coated News, Single Manila Lined, Bleached Manila Lined, Mist Gray Lined, News Vat Lined and Plain Chip, Filled, Solid and Double Manila Lined News, Butter Carton, Ice Cream Pail, Oyster Pail and Butter Dish Stock. Mill Blanks and Special- ties. 930,000 lbs. 24 hours. Highways, U. S., 12 and 131, 1 mile; State, 43, ½ mile. Phone: Kalamazoo 3-1651.

WESTERN MICHIGAN COLLEGE, Depart- ment of Paper Technology. (Alfred H. Nadel- man, Head of Department; Paul V. Sangren, Pres.; Wynand Wichers, Vice-Pres.) Five Ex- perimental Beaters and one Bauer Refiner. One Noble & Wood Sheet Machine, various Sheet Molds. Two Experimental Stainless Steel Di- gesters. Experimental Equipment Used in Pa- per Making Course and for Commercial Re- search.

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MARATHON CORP. See Corporate Offices, Menasha, Wis. for Corporate Officials. (N. H. Foley, Plant Mgr.; Ben K. Guenther, Paper Mill Supt.; John A. Gasperi, Converting Supt.; J. R. Kocha, Plant Engr.) Six Claflin Refiners, three Jordans and one Hydrapulper. One 164-inch Black-Clawson Fourdrinier; widest trim- med sheet, 152 inches; one 136-inch Yankee Fourdrinier; widest trimmed sheet, 120 inches. Generated Electricity, Coal. Water Treatment Plant. Bleached Board Specialties, Waxing Tissue. 480,000 lbs. 24 hours. High- ways, U. S., 173 and 41. Phone: Menominee 5596.

MARINETTE PAPER CO. Wholly Owned Subsidiary of Scott Paper Co. See Exec. Office, Scott Paper Co., Front and Market Sts., Chester, Pa. (Subsidiaries) for Executive Of- ficers. Principal Office, Marinette, Wis. (Op- erations Personnel: S. Lang, Supt.; for others see Marinette Paper Co., Marinette, Wis.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 38,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 17 Cords. Highway, U. S., 41, ½ mile. Phone: Marin- ette 2-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R.

CONSOLIDATED PAPER CO. (Albert H. Lockwood, Pres. and Treas.; C. Q. Baron, Exec. Vice-Pres. and Gen. Mgr.; C. H. R. Johnson, Vice-Pres. in Charge of Mfg.; S. J. Newcomer, Vice-Pres. and Gen. Sales Mgr.; J. B. Taft, Vice-Pres.; G. L. Bronson, Vice-Pres.; R. N. Scheidinger, Sec.; F. H. Bock, Asst. Sec.-Treas.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hy- drapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 600,000 lbs. 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Con- tinuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 750,000 lbs. 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cyl- inders; widest trimmed sheets, 52, 71 and 88 inches. Steam. Straw Board for Corrugating. 250,000 lbs. 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Ma- chines; one 52 inches, four 62 inches and one 100 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 200,000 lbs. 24 hours. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56. Phones: Cherry 1-9000-1-9004.

MONROE PAPER PRODUCTS CO. Main W. Elm Ave. (Burton S. Knapp,

Pres.; Charles E. Raney, Vice-Pres., Gen. Mgr. and Pur. Agt.; G. A. Blum, Sec.-Treas.; Gene L. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Leon Black, Plant Engr.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Seven 1400-lb. Dilts Beaters, two Hydrapulpers, one Dilts Breaker Beater and ten Jordans. Two Wet Machines; widest trimmed sheet, 60 inches; one 68-inch Three Cylinder; widest trimmed sheet, 60 inches; one 78-inch Three Cylinder; widest trimmed sheet, 68 inches, and one 124- inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity. Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 270,000 lbs. 24 hours. Highway, U. S., 24 Phone: 2380.

RIVER RAISIN PAPER CO., 1109 E. Elm Ave. (J. Frank Gray, Board Chairman; Charles L. Wood, Pres.; J. W. Walter, Vice-Pres. and Sec.-Treas.; A. J. Goetz, Exec. Vice-Pres.; H. V. Hodge, Vice-Pres. Sales. Fred B. Attwood, Vice-Pres. Mfg.; A. W. Schulte, Gen. Sales, Mgr.; E. F. Hochradel, Dir. of Pur.; Harry L. Lamb, Dir. of Prod.; M. F. Knack, Mill Mgr.; C. E. Hanthorn, Chief Engr.; J. Fuko, Chemist; W. G. Etter, Dir. of Industrial Relations; C. F. Curson, Traffic Mgr.) S. P., at all mills. MILL NO. 2. Six 1500-lb. Beaters, one 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. Five 1500-lb. Beaters, one 100- ton (Top Liner) Dilts Hydrapulper and one 150- ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. Four 1500-lb. Beaters, one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. Six 1500-lb. Beaters with Double Washers, ten Rotaries and one 102-inch Two Cylinder Straw Board Ma- chine; widest trimmed sheet, 88 inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials. 800,000 lbs. 24 hours. Highways, U. S., 24, 2 miles, and 25, 1 mile; State, 56. Phone: Monroe, Cherry 1-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

MUNISING PAPER CO., THE. Main Office, 7-120 Merchandise Mart, Chicago. (Cola G. Parker, Pres.; John R. Kimberley, Exec. Vice- Pres.; W. R. Kellett, Vice-Pres.; O. D. Bast, Sec.- Treas.; J. L. Sensenbrenner and J. R. Whitney, Asst. Sec.-Treas.; J. F. Hechtman, Res. Dir.; W. Joslin, Pur. and Stores Supt.; J. H. Hebert, Traffic Mgr.; W. D. Beerman, Plant Engr.) S. P., at mill. NO. 1 MILL. Ten 1800-lb Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached Specialties. 160,000 lbs. 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Fiber. 180,000 lbs. 24 hours. Highways, U. S., 41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp.

S. D. WARREN CO., Central Mill, for- merly Central Paper Co., Inc. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Bos- ton, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Gen. Mgr.; Walter E. Woods, Prod. Mgr.; H. J. Holtz, Tech. Dir.; W. A. Wrase, Ch. Engr.; F. W. Eggleston, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P., at mill. Railroad Siding. P. M. R. R. Twenty- six 1200-lb. Beaters and six Jordans. Two 115-inch, one 121-inch and one 165-inch Four- driniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Steam and Electricity. Book, Coated Book, English Finish, Lithographic Papers, Eggshell, Offset, Board, Stencil Board, Tympan and Flameproof. 280,000 lbs. 24 hours. SULPHATE PULP MILL. Five Digesters; three Wet Machines. Steam and Electricity. Sulphate Fiber. 280,000 lbs. 24 hours. Highways, U. S., 16 and 31, 3 miles; State, 46. Phone: 51-627.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank; Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO. (F. G. French, Pres.; J. E. French, Vice-Pres. and Pur. Agt.; L. F. Kretchman, Sec. and Treas.; H. Nelson, Supt.; R. Fralick, Chief Engr.) Railroad Siding, N. Y. C. R. R. Four Dynapulpers and four Jordans. One 95-inch and one 118-inch Four- driniers; widest trimmed sheets, 80 and 105 inches. New Machine being installed. Details not yet available. Steam and Electricity. Plain and Embossed Offset, Text, Papetries, Colored Envel- ope, Litho. 100,000 lbs. 24 hours. Highways, U. S., 31 and 112; State, 60. Phone: 32.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Bening- ton, Vice-Pres.; G. E. Nolan, Sec.; Howard H. Rausch, Supt.; M. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at Mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inche Sixteen Driers, 12½ feet x 136 inches. Purchase Electricity: 60 Cycles, 3 Phase, 1521 h.p. I stalled. Sixty-eight motors of 220 and 440 80-lb. Steam Pressure, Oil and Natural G Effluent Treatment Plant. Pattern Tissue. Wh Wrapping Tissue and Tissue Specialties. 30,0 lbs. 24 hours. Highways, U. S., 31-112; St 60. Phone: Niles 736.

MHI-00050

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R. M. O., Tel., Bank and Exp. Nearest Air Port, Ironwood, Mich.

NATIONAL CONTAINER CORP. OF MICH. (Samuel Kipnis, Pres.; Newton Cuneo, Vice-Pres. and Mgr.; Harry Ginsberg, Vice-Pres.; Albert H. Edwards, Vice-Pres.; Wm. T. Webster, Vice-Pres.; C. G. McLaren, Vice-Pres.; J. L. Kipnis Vice-Pres.; Lionel M. Goldberg, Vice-Pres.; S. D. Bass, Vice-Pres.; M. M. Bernstein, Sec.; Murray Steyer, Asst. Sec.; Max Ackerman, Treas.; W. W. Marteny, Tech. Dir.; F. L. Conger, Traffic Mgr.) Railroad Siding. S. P. at mill. One 2000-lb. Valley Iron Works and two 2000-lb. Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches. Seventy Driers, 48 inches in Diameter and 124 inches wide. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k. w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures. Cylinder Kraft Liner Board. 240,000 lbs. 24 hours. SULPHATE PULP MILL. Five Digesters and one Wet Machine. Unbleached Sulphate Fiber 250,000 lbs. 24 hours. Highways, U. S., 45, 1 mile; State, 64. Phone: 1 (Idle)

Otsego—Allegan Co.

On N. Y. C. R. R. M. O., Bank and Exp. Tel. at Kalamazoo. Peoples R. T. and Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (C. M. Sisson, Pres., Gen. Mgr.; L. W. Dickinson, Vice-Pres.; M. V. Stowe, Treas.; W. E. Hurlbut, Sales Mgr.; Walter F. Wolfe, Supt.; Leslie Peck, Tech. Dir. and Chief Chemist; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.; S. A. Bohrer, Sales Rep., Chicago.) Railroad Siding, N. Y. C. R. R. S. P., at Mill. MAC SIM BAR MILL. Fifteen 1200-lb., four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain and Oak Marble, Burlap Grained Solid Jute Board and White Patent Coated News. 600,000 lbs. 24 hours. Highways, U. S., 131, 2 miles; State 89. Phones: Kalamazoo 4-5500, Otsego 3841.

OTSEGO FALLS PAPER MILLS, INC. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; Roger McVickar, Tech. Dir.; R. L. Harmer, Chief Chem.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 1500-lb., and one 2500-lb. Beaters. One 84-inch and one 110-inch Fourdriniers; widest trimmed sheets, 77 inches and 102 inches. Water, Steam and Electricity. .009 Corrugating Saturating, Can, Asphalt Boards for Corrugating, Semi-Chemical Wood Pulp Boards, Asphalt Automobile Boards and Special Asphalted Papers and Boards. 200,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters, Unbleached Semi-Chemical Fiber. 200,000 lbs. 24 hours. Average Daily Consumption of Unpeeled Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Charles G. Wood, Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Floyd M. Murphey, Jr., Vice-Pres.; Charles R. Ehinger, Supt.; Guy Carmichael, Ch. Engr.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans, one Hydrafiner and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity. Chipboard, Specialties, Building and Insulating. 100,000 lbs. 24 hours. Highway, U. S., 223. Phone: Adrian 2340.

Parchment

A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight L. Stocker, Pres.; John C. Wood, Vice-Pres. Charge of U. S. A. Mfg.; E. Norval Hunter, Vice-Pres. Charge of Canadian Operations; C. Longford Felske, Vice-Pres. Charge of Finance and Treas.; Harold De Weerd, Sec.; W. R. Hess, Asst. Sec.-Treas.; F. D. Libby, Corporate Pulp and Paper Consultant; R. D. Caine, Mfg. Mgr.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic and Shipping Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. Thirteen Waxing Machines. MILL NO. 1. Three Hydrafiners, four 2000-lb., two 2500-lb. Beaters and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 3200-lb. Broke Beaters, three 2500-lb. Vortex Beaters and nine Majestic Jordans and one Bertram Refiner. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Greaseproof. Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1, 175,000 lbs.; MILL NO. 2, 375,000 lbs. 24 hours. Highways, River Road; U. S., 131 and 12. Phone: 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

MICHIGAN PAPER CO. OF PLAINWELL, wholly owned subsidiary of W. C. Hamilton & Sons, Miquon, Pa. All papers sold by W. C. Hamilton & Sons. (L. D. Nicolson, Pres.; C. A. Braginton, Treas.; Lane Taylor, Sec.; F. L. Brown, Asst. Sec. and Pur. Agt.; M. E. Burkheiser, Cont.; Ray L. Barton, Supt.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.) Railroad Siding, Penna. R. R. Thirteen 1400-lb. Beaters and seven Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches, 118 inches and 120 inches. Widest Super-Calender, 80 inches. Water, steam and Electricity. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers, Blanking and Poster. 180,000 lbs. 24 hours. Highways, U. S., 131; State, M-89. Phones: 2411, 2421.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Pres. and Treas.; Geo. C. Dunn, Exec. Vice-Pres. and Sec.; W. A. Fisher, Vice-Pres.; H. G. Wales, Vice-Pres. Charge of Sales; D. J. Haines, Asst. Treas.; A. W. Redlin, Gen. Supt.; P. R. Bruce, Plant Engr.; Grady Pickett, Supt.; W. F. Parker, Tech. Dir.; M. C. Jones, Pur. Agt.) Railroad Siding, G. T. W. R. R. Four 1600-lb. and one 2000-lb. Beaters and two Jordans; three Bleachers, nine Filters, one 16-ft. Hydrapulper, seven Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 126 inches. Electricity: 2,000 K. V. A.; 60 Cycles, 3 Phase, 440 v. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p. s. i. Water Treatment Plant. Sulphite and Sulphate Papers for Bag, Bread Wrapper, Fine Crepe, Foil Mounting, Envelope, Wrapping, Twisting, Waxing, Napkin, Absorbent Tissue Excelsior, Machine Coated Opaque, One-time Carbonizing and Other M. G. Bleached and Unbleached Specialties. 75,000 lbs. 24 hours. Highway, U. S., 25, ½ mile. Phone: 5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; N. O. Seagrave, Pres.; F. Kiefer, Vice-Pres.; G. F. Durand, Vice-Pres.; S. L. Bush, Treas.; Joseph L. Hoolihan, Gen. Supt.; L. T. Summers, Sec. and Tech. Dir.; W. D. Thompson, Pur. Agt.; F. B. McFarland, Gen. Sales Mgr.; John Maes, Paper Mill Supt.; J. Arthur, Asst. Tech. Dir.) One 132-inch Fourdrinier, two 132-inch Yankee Fourdriniers, widest trimmed sheet, 123 inches. One 84-inch Cylinder. Steam and Electricity. Antique, Bag Paper, Bond, Bread Wrapping, Bristol, Butter Wraps, Candy Wrappers, Carbon Paper, Carbonizing, Carbonized Rolls, Christmas Paper, Colored Papers and Boards, Creping, Cover, Decorative Papers, Florists' Wax Tissue, Folder, Guide Stock, Impregnating, Index Bristol, Laminated Specialties, Leatherette Papers, Locker Paper, M. G. Wrapping and Specialties, Manifold, Mill Wrappers, Offset, Onion Skin, Protective Papers, Printed Papers, Register, Saturating, Soda Straw Paper, Surface Watermarked Papers, Salesbook, Second Sheets, Shredded Paper, Specialties, Sulphite Bond, Tag Board, Textile, Tissue, Typewriter, Typewriter Manifold, Waxed, Waxing, Wrappings, Writing. 130,000 lbs. 24 hours.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO. (Paul H. Travis, Pres., and Gen. Mgr.; T. M. Dowler and T. F. Pulling, Vice-Pres Sales; Gordon Morseth, Vice-Pres. and Prod. Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas.; S. J. Fortune, Supt.; Armand Pepin and Thad Perkins, Asst. Supts.; Jack Weaver, Tech. Dir.; M. S. Arnold, Pur. Agt.) S. P., at Mill. Railroad Siding, G. T. R. R. Three 1000-lb. Beaters and two Noble & Wood Jordans. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Steam and Electricity. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt, Impregnating and Absorbent Specialties. 25,000 lbs. 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-9851.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; Ruth Gardner Gumbin, Vice-Pres. and Treas.; Fred Gave, Sr. and Fred Gave, Jr., Supts.; Grover C. Welch, Chief Engr.; Edward W. Gave, Pur. Agt.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, five Jordans, seven Screens. One 70-inch Seven Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 750 h. p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure Coal. White Pat Coated, Chip Board, News Board, Jute Filled, Solid Jute, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila Lined Chip and Colored Specialties. 130,000 lbs. 24 hours. Highway, U. S., 131, 1½ miles. Phone: 2211

PAGEL, HORTON & CO., INC.
New York 17, N. Y. Established 1916

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100 PARK AVENUE NEW YORK 17, N. Y.
ALL GRADES, DOMESTI IMPORTED
WOOD PULP

Vellum, Vellum Bristols, Index Papeterie, Air Mail, Onion Skin, Manifold, Tracing Chart, Text, Drawing and High Grade Specialties 60,000 lbs. 24 hours. Highways, State, 2A. Phone: Springfield—Re6-8309.

Waltham—Middlesex Co.

On B. & M. R. R. Tel, Bank and M. O Nearest Air Port, Boston.

STONY BROOK PAPER MILL. Div of American Paper Products Co, formerly, Stony Brook Paper Co. General Office, 2113 E. Rush St, Philadelphia 34, Pa (Leon J. Perelman, Raymond G. Perelman, Partners; Clarence Forman, Gen. Mgr. and Pur. Agt.) S. P., Roberts Station. One 2800-lb. Continuous Breaker Beater, one Noble & Wood Jordan, one Screen, one Extractor, one Filter and Paper Machine Air Ventilator System One 68-inch Five Cylinder; widest trimmed sheet, 62 inches Thirty-eight Driers, 24 and 36 inches in Diameter, 76 inches wide Steam and Purchased Electricity, 60 Cycles, 3 Phase, 440 v. Motors, 125-lb Steam Pressure. Oil. Water Treatment Plant. Plain Chip and News Board, Tube Board, Sheathing and Car Lining, Solid Color and Lightweight Specialties 60,000 lbs. 24 hours. Highways, Off U. S., 128, near 20, 1 mile. Phone: Waltham 5-6709

West Dudley—Worcester Co.

On N. Y., N. H & H. R. R. M. O, Tel, and nearest Bank, Southbridge, 3½ miles.

RHODE ISLAND CARD BOARD CO, West Dudley Paper Co. Div. Sales Office, Pawtucket, R. I. (Lowell Pierce Emerson, Pres; David Lowell Emerson, Treas; C. F. Kirby, Gen. Mgr. and Pur. Agt; W. J Ford, Supt, Geo. E. Beaudette, Chief Engr.; H. J. Martin, Traffic Mgr) WEST DUDLEY MILL. Railroad Siding, N. Y, N H. & H. R. R. Four 1000 lb, four 1500-lb. and three 1800-lb Beaters, three Pulpers and six Refiners. One 103-inch Five Cylinder; widest trimmed sheet, 93 inches Generated Electricity, 3 phase, 2500 h.p. Installed Electricity, 485 h p Installed Water Power; Oil; 200 p s i. Steam Pressure. News, Middles, Tag Stock, Cover Paper, Chocolate Board, Manila Lined News, and Kraft and Sulphite Specialties. 100,000 lbs, 24 hours Highways, U S, 20, 6 miles; State, 131. Phone: Southbridge 4-8356.

Westfield—Hampden Co.

On N. Y., N. H. & H. R. R.; B. & A. R. R.

STEVENS PAPER MILLS, INC. See Main Office at Windsor, Conn. and South Hadley Falls, Mass. (Ray J. West, Vice-Pres. in Charge Westfield and South Hadley Mills; J. A. Pitoniak, Supt., Upper Mill; V. W. Leveille, Acting Supt. Lower Mill) UPPER MILL. Two Bertrams, one Beater and four Jordans. One 72-inch and one 94-inch Fourdriniers; widest trimmed sheets, 70 and 86 inches. Water, Steam and Electricity. LOWER MILL. Seven Beaters, two Bertrams and six Jordans. One 86-inch and two 94-inch Fourdriniers; widest trimmed sheets, 72 inches and 86 inches. Water, Steam and Electricity. Condenser Tissue, Coil Winding Tissue and Electrical Insulating Paper Highway, U S, 202, 1/10 mile Phone Westfield, Logan 2-2115

West Groton—Middlesex Co.

On B. & M. R. R. Nearest Bank, Ayer, 4 miles.

GROTON LEATHER BOARD CO. (Winthrop L. Sheedy, Pres and Treas; Carl A. P Lawrence, Vice-Pres; Harry J Hosking, Sec and Supt) WEST GROTON MILLS S P, at mill. Water and Electricity Stereotype Dry Matrix. Phone: Groton 334.

HOLLINGSWORTH & VOSE CO General Office, East Walpole, Mass, New York Sales Office, 331 Madison Ave; Chicago Sales Office, 176 W. Adams, 3 (Aubrey K Nicholson, Pres and Gen Mgr, Mark Hollingsworth, Vice Pres; Bruce G. Lennox, Treas and Clerk, Grant Harrington, Sales Mgr; Eugene E Smith, Prod Mgr.; Roland W. Sawyer, Mill Supt, West Groton Mill, Hubert Smith, Pur Agt, Harold Knudson, Tech. Dir; David R. Smith, Chief Mech Engr, West Groton Mill, F J Lyons, Asst Pur Agt.) WEST GROTON MILL Railroad Siding, Boston & Maine R R Nine 1500-lb and eight 1600-lb Beaters, five Jordans four Screens, one Pulper and ten Rotaries One 65-inch Three Cylinder and one 86-inch Four Cylinder, widest trimmed sheets, 54 inches and 75 inches One 62 inch Fourdrinier, widest trimmed sheet, 57 inches Electricity: 60 Cycle, 3 Phase 110 v. Small Motors, 440 v. Large Motors, Oil, 150-lb. Steam Pressure. Effluent Treatment Plant Rope, Jute, Wood, Rag, Industrial Specialties, Electrical Insulating, Saturating and Absorbent, Filter, Sandpaper Backing, Red Rope Papers, Tag Board, Coating Specialties, Heavy Duty Wallet, Patch, Tympan, Duplex, Tube, Gasket, Pattern and Crepe Specialties and Crepe Saturating, Wet Strength Papers, Black Papers and Iron Tag 70,000 lbs. 24 hours Highways, U. S, 40, 2/3 mile; State, 2A, 1 mile Phone: Gilbert 8 6321

West Springfield—Hampden Co.

On B. & A. R. R. M. O. and Bank Tel and Ex., Springfield, 3 miles. Bradley Field, Windsor Locks, Conn., 13 miles

PREMOID CORP. Main Office, Front St, W. Springfield, Mass (F. Nelson Bridgham, Chairman; Cassius M. Bryan, Pres; Charles F. Collins, Vice-Pres; Raymond E. Clark, Sec-Treas.; Franklin B. Comery, Sales Mgr; Joseph A. Cancelliere, Chief Chem) S. P., West Springfield. Railroad Siding, B & A. R. R. One 64-inch Fourdrinier; widest trimmed sheet, 56 inches. Special Industrial and Technical Papers including Saturating Papers for Gasket, Resin, Rubber and Other Purposes, Absorbent for Latex Saturation, and Artificial Leather Base. 30,000 lbs. 24 hours. Highway, U. S., 20, 1/3 mile Phone: Springfield, Republic 6-4554; Boston, Lafayette 3-4650; and New York City, Rector 2-2662.

SOUTHWORTH CO. (Melvin D. Southworth Pres.; Phelps Brown, Sec.-Treas.; Alfred L. Montagna, Supt.) Railroad Siding, B. & A. R. R. Five 850-lb. Beaters. One 80-inch Fourdrinier; widest trimmed sheet, 44 inches, widest machine finished paper in rolls, 70 inches; widest tub sized paper in rolls 68 inches Water and Electricity Bonds, Linens, Ledgers, Typewriter Papers, Onion Skin, Manuscript Covers and De Luxe Bonds with Visible Watermarks, 16,000 lbs. 24 hours Highway, U. S, 20, ⅛ mile Phone: 2 5141

STRATHMORE PAPER CO Mills at West Springfield and Woronoco, Mass. New York Office, 25 West 43rd St (C. M. Bryan, Chairman of Board; F. N. Bridgham, Pres; A. E. Shattuck, Vice-Pres in Charge of Supplies; H E. Riggs, Vice-Pres in Charge of Sales; L W. Shattuck, Vice-Pres in Charge of Prod; Paul A Wilks, Treas, B L Stafford, Clerk; R E Hosmer, H A Bolles and C E Benoit, Mill Supts, P G Volmakis, Mgr Tech Sales, Roy I Arnold; Mgr Product Dev; James H Sweet, Mgr Converter Papers, H. D. Johnston, Asst. to Pres, B P Wood, Asst to Vice-Pres. i/c Production, H C. Johnson, Supt. of Finishing, P P Gooding, Tech. Dir.; G. R Wholean, Chief Engr; J S Mudgett, Asst Chief Engr; P D Howe, Pur Agt; E Eddings, Traffic Mgr, H J Liese, F. Pitoniak and J Pitoniak, Master Mechanics) Railroad Siding, B & A R R Twenty six 1300 lb Beaters, eight Refiners, sixteen Washers and five Rotaries One 66-inch, one 76 inch, one 86-inch and one 106-inch Fourdriniers and two Special. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Onion Skin, Air Mail, Index, Ledger, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes. 140,000 lbs. 24 hours. Highway, U. S, 20. Phone: Republic 6 8301.

Wheelwright—Worcester Co.

On Southern Div. B & M. R. R. M. O, Tel, Bank and Exp, Gilbertville, Mass. Nearest Air Port, Bradley Field.

DOESKIN PRODUCTS, INC Main Office, 41 E 42nd, New York 17, N Y. (At New York:—Lowell M. Birrell, Chairman of Board; Emanuel Katz, Pres; H J Trolin, Vice Pres; Grant P Stinchfield, Vice Pres, Ray Marcus, Vice-Pres, V. E Skoglund, Sec, Edward Helmich, Treas; J MacNeill, Traffic Mgr. At Mill — Walter Dempsey, Gen Mgr, Jos Collingwood, Prod Mgr; R Julian Traffic Mgr; A Farmer, Pur Agt) HARDWICK MILLS S P, at Mill Railroad Siding, B & M R. R Two 1500 lb and two 2000-lb. Horne Beaters, four Emerson Jordans, one 18,000-lb. Pulper, one Washer, and one Ross Paper Machine Ventilator System One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 102, 106, and 112 inches wide. Electricity. Oil. 160-lb. Steam Pressure Facial Tissue, Pocket Pack and Cellulose Wadding, Dinner and Luncheon Napkins, Sanitary Napkins and Towels 52,000 lbs 24 hours Phone: Gilbertville 2541

Woronoco—Hampden Co.

On B. & A. R R. M. O and Tel, nearest Bank, Westfield, 6 miles.

STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U S, 20. Phone Springfield, Republic 6-8301

1957

MICHIGAN

Alpena—Alpena Co.

On D & M R R

ABITIBI CORP, Subsidiary of Abitibi Power & Paper Co, Ltd Main Office, 408 University Ave, Toronto 2, Ont. For Executives, see main office. (P. E. Roberts, Executive Vice-Pres; F. R Boynton, Cont. and Asst Treas; A J Auden, Woods Mgr) $10,000,000 Hardboard Mill under construction Completion scheduled for late 1957

FLETCHER PAPER CO (Tom G Fletcher, Pres; Ralph G. Fletcher, Vice Pres; F R Trelfa, Sec.-Treas; Albert Mausolf, Supt; Eldred Hall, Chief Chem; J A. Reinke, Chief Engr.; R. C. Johnson, 20 N. Wacker Dr, Chicago 6, Ill, Sales Mgr.) Four Refiners, four Jordans, and two Pulpers. Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches Steam and Electricity. Manifold, Sulphite Bond, Register, Sales Book, Register Bond, Second Sheets, Typewriter, Opaque Bond. 100,000 lbs. 24 hours Highways, U. S., 23; State, 32. Phone: 3.

Battle Creek—Calhoun Co.

On G. T.; M; & M. C. R R Tel, M. O, Bank, Exp. and Air Port.

MICHIGAN CARTON CO, 79 E. Fountain. (L. G Fell, Pres and Treas; F H Stowitts, Vice-Pres and Asst Sec; Dan Int-Hout, Sr. Vice-Pres; Dan Int-Hout, Jr., Asst. to Pres.; W L. Barnes, Sales Mgr; C. H. Cameron, Sec.; W. C. Ingerson, Asst Treas; Norman Schmitzer, Cont; Max Wheeler, Prod. Mgr.; J. J. Harrison, Tech Dir.; L J Phillips, Chief Engr; Les Styer, Pur Agt; J R. Vosburgh, Traffic Mgr.) S P, at Mill. Railroad Siding, Michigan Cent and Grand Trunk R R. MILLS NOS. 1 AND 2. Two 5000-lb Breaker Beaters, thirteen Jordans, six Refiners, twenty-two Screens, two Filters, six Pulpers and a Ross Ventilator System. 296 Driers: #1 and 2, 42 inches in diameter, #3, 60 inches in diameter, #1, 108 inches wide, #2, 134 inches wide and #3, 140 inches wide. One 108-inch, Black-Clawson, Seven Cylinder, one 134-inch Black-Clawson Seven Cylinder, and one 140-inch Beloit Eight Cylinder; widest trimmed sheets, 96, 120 and 128 inches Electricity—Part Purchased and Part Generated. Single Bleached Manila Lined Chip and News, White Patent Coated Solid Manila Back,

Mechr

KVP WRAPPING • OFFSET • HOUSEHOLD
THE KVP COMPANY • KALAMAZOO, MICHIGAN

Double White Patent Coated News, Single and Double Manila Lined Chip, Test Jute Board, Double Bleached Manila Lined Chip or News Center, White Patent Coated News Center Manila Back, White Bleached Sulphite Solid Manila Back, Bleached Sulphite News Center Manila Back, Double Bleached Sulphite Manila Center, Solid Bleached Sulphite, Bending Chip, Kraft Lined Chip, Solid Manila, Plain Chip, White Patent Coated News and Chip and Clay and Machine Coated, 820,000 lbs. 24 hours. Highways, U. S., 12; State, 78. Phone: WO.—3-5511.

Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes Transportation. M. O., Tel., Bank and Exp. Nearest Air Port, Petosky, Mich.

CHARMIN PAPER MILLS, INC., Cheboygan Div., formerly Paper Corp. of America. See Main Office, Green Bay, Wis., for officials and grades. S. P., at Mill. Railroad Siding, D. & M. Eight 2000-lb. Beaters, seven Jones Jordans, six Screens, three Bleachers, one Hydrapulper, three Pulpers and one Filter. Two 136-inch Fourdriniers; widest trimmed sheet, 124 inches. GROUND WOOD AND SEMI-CHEMICAL PULP MILL. Three Grinders and two Digesters. Plant under reconstruction. Expect to be in operation during Spring of 1957.) Highway, U. S., 27. Phone: 980.

Constantine—St. Joseph Co.

On N. Y. C. R. R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

CONSTANTINE BOARD & PAPER CO. (Frederick G. Weir, Pres. and Sales Mgr.; Robert T. Weir, Jr., Sec. and Gen. Mgr.; H. E. Reinoehl, Prod. Mgr. and Pur. Agt.) FAWN MILL. S. P., at mill. Railroad Siding, N. Y. C. R. R. Four 1000-lb. Beaters, two Pulpers and three Jordans, four Screens and Paper Machine Ventilator System. One 108-inch Four Cylinder; widest trimmed sheet, 96 inches. 36 Driers, 36 inches in Diam., 102 inches wide. Purchased Electricity. 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 100,000 lbs. 24 hours. Highway, U. S., 131, 1 mile. Phone: Constantine 4285.

Dearborn—Wayne Co.

On Mich. Central R. R. Tel., Ex. and Bank. Air Port at Ypsilanti.

FORD MOTOR CO. Rouge Plant, 3000 Schaefer Road. (Mill Dismantled.)

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line; Det. Ter.; G. T.; N. Y. C.; Penn.; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., Detroit Div., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. Main Office, Chester, Pa. For executives, see Main Office. At Detroit: G. N. Carleton, Vice-Pres.; R. A. Mills, Asst. Sec.; K. G. Sell, Detroit Sales Mgr.; M. F. Schnaufer, Plant Mgr.; W. A. Kosicki, Plant Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.) Railroad Siding, Mich. Cent. R. R. DELRAY MILL. S. P., at mill. Seventeen 1400-lb. Beaters, seven Jordans and seven Paper Machine Ventilator Systems. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 400,000 lbs. 24 hours. SULPHITE PULP MILL. One Wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Fiber (dry). 325,000 lbs. 24 hours. Phone: Vi 2-0042.

Filer City—Manistee Co.

On M. & N. E.; Pere Marquette R. R. M. O.; nearest Bank and Tel., Manistee, 2½ miles. Nearest Air Port, Manistee-Blacker.

AMERICAN BOX BOARD CO., FILER CITY DIV. Main Office, 470 Market Ave., S. W., Grand Rapids 2, Mich. (Walter S. Goodspeed, Pres., G. B. Bonfield, Vice.-Pres.-Gen. Mgr.; Filer City Div.; Robert K. Stolz, Vice-Pres.-Central Div.; F. W. Oldenburg, Vice-Pres.-Dir. of Sales; Harrison L. Goodspeed, Sec.; C. C. Boyer, Treas.; G. Dlesk, Operation Mgr.; F. J. Morrison, Sales Office Mgr.; D. Elliott, Engr. Mgr.; J. Challas, Tech. Dept. Mgr.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S. P., Manistee. Railroad Siding, M. & N. E. R. R. Two Sutherland Refiners, nine Jordans, one Pulper, one Filter and two Ross Paper Machine Ventilator Systems. One 162-inch and one 176-inch Fourdriniers; widest trimmed sheets, 148 and 156 inches. Eighty-eight Driers, 5 ft. in Diameter, 154 and 168 inches wide. Purchased Electricity, 13,000 k.w., 60 Cycles, 3 Phase, 440 and 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper. 680,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Digesters, two B. K. Continuous Dig. Chemipulpers, and seven Sprout Waldron Grinders. Steam and Electricity. 680,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 470 Cords. Highway, U. S., 31. 2 miles. Phone: Manistee 1500.

Grand Rapids—Kent Co.

On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

AMERICAN BOX BOARD CO. Main Office, 470 Market Ave., S.W., Grand Rapids, 2. (W. S. Goodspeed, Pres.; Robert K. Stolz, Vice-Pres. Central Div.; Gordon B. Bonfield, Vice-Pres. and Gen. Mgr.—Filer City Div.; F. W. Oldenburg, Vice-Pres.—Dir. of Sales.; H. L. Goodspeed, Sec.; C. C. Boyer, Treas.; E. M. Dean, Mgr.; M. Nossaman, Supt.; R. P. Aument, Tech. Dir.; I. P. Nicole, Eng. Mgr.; R. D.

MHT-00052

James, Sales Mgr.; R. L. Hall, Dir. of Pur.; Wm. Glaske, Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 400,000 lbs. 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile. Phone: GL. 9-4581.

Groos—Delta Co.

On E. & L. S. R. R. Exp, M. O., Tel. and Bank at Escanaba, 6 miles.

ESCANABA PAPER CO. P. O. Address, Escanaba. Subsidiary, The Mead Corp., Dayton, Ohio. (Sydney Ferguson, Chairman of Board; E. G. Bennett, Pres.; G. S. Douglas, Vice-Pres. and Gen. Mgr.; F. D. Schnacke, Sec.; Stack Smith, Treas. and Asst. Sec.; Geo. Robinson, Asst. Sec.; H. L. Belanger, Compt.; O. C. Christiansen, Supt.; G. C. Eastin, Tech. Dir.; R. H. Sogard, Plant Engr.; H. J. Vanderberghe, Traffic Mgr.) Railroad Siding, Escanaba & Lake Superior R. R. Three 1500-lb. Beaters, one Hydrapulper. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches. Steam. Electricity and Water. Coated Books, Bleached Groundwood Content Uncoated Book Papers and Specialties. 400,000 lbs. 24 hours. GROUND WOOD MILL. Seventeen Grinders and four Wet Machines. Hydro-Electric. Ground Wood. 200,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 90 (128 cu. ft) Cords. Highways, U. S., 2 and 41; State, 35. Phone: Escanaba 348.

Kalamazoo—Kalamazoo Co.

On M. C.; N. Y. C.; Penn.; C. K. & S.; G. T. R. R. Greyhound Bus, 4 miles from Air Port. M. O., Exp., Tel. and Bank.

ALLIED PAPER CORP., Main Office, Prudential Plaza, 140 E. Randolph St., Chicago, Ill., formerly Allied Paper Mills, 1608 Lake St. (Arnold Maremont, Chairman; C. F. Chaplin, Vice-Pres. and Sales Mgr.; W. A. Kirkpatrick, Vice-Pres. and Tech. Dir.; H. B. Johnston, Vice-Pres. and Chief Engr.; E. J. Gilman, Vice-Pres. and Prod. Mgr.; C. J. Wainwright, Asst. Sales Mgr.; V. Weaver, Supt.; C. B. Crossley, Asst. Sec.-Treas.; C. A. Yonker, Pur. Agt.; O. V. Mason, Traffic Mgr.; G. A. Littlefield, Compt.) KING MILL. S. P., Kalamazoo, Mich. Four 1200-lb. and nine 2000-lb. Beaters and eight Jordans. Improved Washing System. One 120-, one 125-, one 134- and one 144-inch Fourdriniers; widest trimmed sheets, 105, 108, 115 and 128 inches. Width of Super-Calenders, 35 inches min. to 123 inches max. Steam and Electricity. Also Coating Mill. MONARCH MILL. S. P., Kalamazoo, Mich. Six 2400-lb. Beaters, four Jordans, two Improved Washers and five Rotaries. One 124-inch and one 132-inch Fourdriniers; widest trimmed sheets, 110 and 118 inches. Width of Super-Calender, 58 inches. Water, Steam and Electricity. Also Coating Mill. BRYANT MILL. One 137-inch, one 139-inch, one 141-inch, one 154-inch, and one 164-inch Fourdriniers; widest trimmed sheet, 152 inches. Width of Super-Calenders, 60, 64, 70, 90 and 160 inches. Steam and Electricity. Also Coating Mill. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Catalogue, Offset, Map, Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Box Cover, Linings, Roto, Lith. Coating Raw Stock, Bible and Specialties. 600,000 lbs. 24 hours. COATED: Offset, Label, Dull Finish, Folding Enamel, Cover, Varnish Lake, Post Card, Gloss Ink Papers, C1S and C2S Enamels, Inserts. 400,000 lbs. 24 hours. Highways, U. S., 12 and 131; State, 43 and 96. Phone: Fireside 3-6101.

HAWTHORNE PAPER CO., P. O. Box 9[illegible] King Highway. (William Slavin, Pres., Treas. and Gen. Mgr.; J. L. Slavin, Vice-Pres.; S. J. Zatz, Sec.; Louis J. Slavin, Asst. Sec. and P. Agt.; Fred Hodgmire, Supt.; C. Frederick Yo[illegible], Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Twelve Beaters, two Jordans, four Refiners, two Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Eight Driers, 52 inches in Diameter, 92 and [illegible] inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag Bond, Ledger, Bristol, Vellum, Sulphite Text and Cover, Technical Papers, Special Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 90,000 lbs. 24 hours. Highway, U. S., 12, ¼ mile. Phone: 5-1163.

KALAMAZOO PAPER CO. Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; B. H. Cooper, Vice-Pres. Dir. Pur.; J. M. Causey, Vice-Pres. and Sales Mgr.; F. B. Curtenius, Sec.-Treas.; Robert [illegible] Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Eight 1500-lb. Beaters, four Jordans, [illegible] Rotaries and Washing Equipment. One [illegible]-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing Equipment on Both Machines. MILL NO. 2. Six 1500-lb Beaters, four Jordans, [illegible] Rotaries and Washing Equipment. One [illegible]

FOR COATING and FILLING
CLAYS
ECCO CLAYS
English China Clays Sales Corporation
551 Fifth Ave.—New York

[illegible]ch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing Equipment on both Machines. MILL NO. 3. Four 1500-lb. and four 2000-lb. Beaters, four Jordans, one Hydrapulper and Washing Equipment. One 145-inch and one 167-inch Fourdriniers; widest trimmed sheets, 136 inches and 156 inches. Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Label, Music, Drawing, Linings and Hangings. 450,000 lbs. 24 hours. Highway, U. S., 12, 2 miles East; Old U. S. 12 continues from junction as State 96. Phone: 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; F. A. Manske, Pres.; L. L. Hak, Vice-Pres. Mfg.; W. F. Anderson, Vice-Pres. Operations; W. J. Sprau, Prod. Mgr.-Paper; [illegible] M. Baker, Plant Mgr.) Railroad Siding, Mich. [illegible] Three 1800-lb. HS Beaters, one 150-ton [illegible]ger, and six Jordans. One 108-inch Eight [illegible]nder; widest trimmed sheet, 100 inches. Steam and Electricity. Gypsum Liner Board Paper, [illegible]000 lbs. 24 hours. Highway, U. S., 12. [illegible] 3-1275.

REX PAPER CO. P. O. Box 751. (Helen [illegible] King, Pres. and Treas.; J. E. Lean, Vice-Pres. Sec and Gen. Mgr.; A. K. Parker, Vice-Pres.; W. J. Howard, Vice-Pres.; Arthur W. [illegible], Supt.; G. R. Haggerson, Chief Chem.; J. [illegible] Ruimveld, Pur. Agt.; N. F. Themins, Traffic Mgr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. Four 1400-lb. J. H. [illegible] & Sons Beaters, two Horne Jordans, [illegible] D Jones Co. Paper Washers, one 2000-lb [illegible] Pulpmaster, one Bleacher and three Screens. [illegible] 113-inch Fourdrinier; widest trimmed sheet, [illegible] inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressure. Coated Book Papers, English Finish Book, [illegible] lbs. 24 hours. Also six Machine Coating [illegible] Highway, U. S., 12. Phone: 2-0151.

ST REGIS PAPER CO. Leased on long term [illegible]ption to buy to Thor Corp. See report of [illegible] Mill under Allied Paper Corp., Kalamazoo, Mich.

SUTHERLAND PAPER CO. Main Office, [illegible] E. Paterson, 13D. (L. W. Sutherland, Chairman; William Race, Pres.; G. E. Gra[illegible], Vice-Pres.; A. L. Sherwood, Vice-Pres.; [illegible] A. Angotti, Vice-Pres.; L. W. Sutherland, Jr., Vice-Pres.; J. T. Kirkpatrick, Vice-Pres.; [illegible] Galbraith, Vice-Pres.; E. W. Smith, Sec.-Treas.; B. C. White, Cont.; D. D. Bachelder, Pur. Agt.; C. L. Fenstermaker, Traffic Mgr.) EAST SIDE PLANT. (Arnold Weller, Supt.) Five Refiners. One Seven Cylinder; widest trimmed sheet, 93 inches. Steam and Electricity. Folding Box Boards. 250,000 lbs. 24 hours. NORTH SIDE PLANT. (Glen Sutton, Supt.) Railroad Sidings, C. K. & S. P. R. R. and N. Y. C. R. R. Five 1650-lb. and five 2000-lb. Beaters, one Shattle Beater, six Hydrapulpers and four Hydrafiners, three Continuous Broke Beaters and seventeen Jordans. One 100-inch Six Cylinder, one 116-inch Seven Cylinder and one 154-inch Eight Cylinder; widest trimmed sheets, 92, 102, 120 and 138 inches. Steam and Electricity. White Patent Coated News, Single Manila Lined, Bleached Manila, Mist Gray Lined, News Vat Lined and Plain Chip, Filled, Solid and Double Manila Lined News, Butter Carton, Ice Cream Pail, Oyster Pail and Butter Dish Stock, Mill Blanks and Specialties. 930,000 lbs. 24 hours. Highways, U. S., 12 and 131, 1 mile; State, 43, ½ mile. Phone: Kalamazoo FIreside 3-1651.

WESTERN MICHIGAN COLLEGE Department of Paper Technology. (Alfred H. Nadelman, Head of Department; Paul V. Sangren, Pres.; Wynand Wichers, Vice-Pres.) Five Experimental Beaters and one Bauer Refiner. One Noble & Wood Sheet Machine, various Sheet Molds. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research.

L'Anse—Baraga Co.

CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago 3, Ill., for executives.) $6,000,000 fiberboard mill under construction. Completion scheduled for end of 1957.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Manistique, Mich. Owned by Trenton Times Corp., Trenton, N. J. (Mrs. James Kerney, Pres.; James Kerney, Jr., Vice-Pres.; Thomas L. Kerney, Treas.; John E. Kerney, Asst. Treas.; Mrs. R. G. Kuser, Sec.; F. S. Hoholik, Gen. Mgr.; W. Hampton, Supt.; M. C. Reid, Chief Engr.; C. L. Wedell, Pur. Agt.) Railroad Sidings, Soo and Ann Arbor R. R. Four 1500-lb. Beaters. One 166-inch Fourdrinier; widest trimmed sheet, 155 inches. Water and Electricity. Groundwood Papers. 170,000 lbs. 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders; six Wet Machines. Water and Electricity. Ground Wood, 124,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 60 Cords. Highway, U. S., 2. Phone: Manistique 160.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R. Green Bay and Lake Michigan Steamers.

MARATHON CORP. See Menasha, Wis., for Corporate Officials. (N. H. Foley, Plant Mgr.; Ben K. Guenther, Paper Mill Supt.; John A. Gasperi, Converting Supt.; J. R. Kocha, Plant Engr.) Six Clallin Refiners, three Jordans and one Hydrapulper. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 152 inches; one 136-inch Yankee Fourdrinier; widest trimmed sheet, 120 inches. Generated Electricity, Coal. Water Treatment Plant. Bleached Board Specialties,

MIT-00053

Waxing Tissue 480,000 lbs. 24 hours. Highways, U. S., 173 and 41. Phone: Menominee 5596.

MARINETTE PAPER CO. Wholly Owned Subsidiary of Scott Paper Co. See Exec. Office, Scott Paper Co., Front and Market Sts., Chester, Pa. (Subsidiaries) for Executive Officers. Principal Office, Marinette, Wis. (Operations Personnel: S. J. Lang, Supt.; for others see Marinette Paper Co., Marinette, Wis.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 38,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 17 Cords. Highway, U. S., 41, ½ mile. Phone: Marinette 2-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R.

CONSOLIDATED PAPER CO. (Albert H. Lockwood, Pres. and Treas.; C. Q. Baron, Exec. Vice-Pres. and Gen. Mgr.; C. H. R. Johnson, Vice-Pres. in Charge of Mfg.; S. J. Newcomer, Vice-Pres. and Gen. Sales Mgr.; G. L. Bronson, Vice-Pres.; F. H. Bock, Sec.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 600,000 lbs. 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 750,000 lbs. 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets, 52, 71 and 88 inches. Steam. Straw Board for Corrugating. 250,000 lbs. 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 200,000 lbs. 24 hours. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56. Phones: Cherry 1-9000-1-9004.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (Burton S. Knapp, Pres.; Charles E. Raney, Vice-Pres., Gen. Mgr. and Pur. Agt.; G. A. Blum, Sec.-Treas.; Gene L. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Leon Black, Plant Engr.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Seven 1400-lb. Dilts Beaters, two Hydrapulpers, one Dilts Breaker Beater and ten Jordans. Two Wet Machines; widest trimmed sheet, 60 inches; one 68-inch Three Cylinder; widest trimmed sheet, 60 inches; one 78-inch Three Cylinder; widest trimmed sheet, 68 inches, and one 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity. Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 270,000 lbs. 24 hours. Highway, U. S., 24. Phone: 2380.

RIVER RAISIN PAPER CO., 1109 E. Elm Ave. (J. Frank Gray, Board Chairman; Charles T. Wood, Pres.; A. J. Goetz, Exec. Vice-Pres.; H. V. Hodge, Vice-Pres. Sales; Fred B. Attwood, Vice-Pres. Mfg.; A. W. Schulte, Sec. and Gen. Sales Mgr.; W. M. Pellot, Treas.; E. T. Hochradel, Dir. of Pur.; Harry L. Lamb, Dir. of Prod.; M. F. Knack, Mill Mgr.; C. E. Hawthorn, Chief Engr.; J. Fuko, Chemist; W. G. Etter, Dir. of Industrial Relations; I. Schmelz, Traffic Mgr.) S. P., at all mills. MILL NO. 2. Six 1500-lb. Beaters, one 150-ton Dilts Hydrapulper, one 112 inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. Five 1500-lb. Beaters, one 100-ton (Top Liner) Dilts Hydrapulper and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. Four 1500-lb. Beaters, one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine, widest trimmed sheet, 112 inches. MILL NO. 5. Six 1500-lb. Beaters with Double Washers, ten Rotaries and one 102-inch Two Cylinder Straw Board Machine; widest trimmed sheet, 88 inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials. 800,000 lbs. 24 hours. Highways, U. S., 24, 2 miles, and 25, 1 mile; State, 56. Phone: Monroe, Cherry 1-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

MUNISING PAPER CO., THE, Main Office, 7-120 Merchandise Mart, Chicago. (John R. Kimberley, Pres.; W. R. Kellett, Vice-Pres.; O. D. Bast, Sec.-Treas.; J. L. Sensenbrenner and J. R. Whitney, Asst. Sec.-Treas.; J. F. Hechtman, Res. Dir.; W. Joslin, Pur. and Stores Supr.; J. H. Hebert, Traffic Mgr.; W. D. Beerman, Plant Engr.) S. P., at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached Specialties. 160,000 lbs. 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Fiber. 180,000 lbs. 24 hours. Highways, U. S., 41, 30 miles, State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp.

S. D. WARREN CO., Central Mill, formerly Central Paper Co., Inc. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Gen. Mgr.; Walter E. Woods, Prod. Mgr.; H. J. Holz, Tech. Dir.; W. A. Wrase, Ch. Engr.; F. W. Eggleston, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P., at mill. Railroad Siding. P. M. R. R. Twenty-six 1200-lb. Beaters and six Jordans. Two 15-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Steam and Electricity. Book, Coated Book, English Finish, Lithographic Papers, Eggshell, Offset, Board, Stencil Board, Tympan and Flameproof. 280,000 lbs. 24 hours. SULPHATE PULP MILL. Five Digesters; three Wet Machines. Steam and Electricity. Sulphate Fiber. 280,000 lbs. 24 hours. Highways, U. S., 16 and 31, 3 miles; State, 46. Phone: 51-627.

Niles—Berrien Co.

On N. Y. C. R. R., M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO. (F. G. French, Pres.; J. E. French, Vice-Pres. and Pur. Agt.; L. F. Kretchman, Sec. and Treas.; H. Nelson, Supt.; R. Fralick, Chief Engr.) Railroad Siding, N. Y. C. R. R. Four Dynapulpers and four Jordans. One 95-inch and one 118-inch Fourdriniers; widest trimmed sheets, 80 and 105 inches. Steam and Electricity. Plain and Embossed Offset, Text, Papeteries, Colored Envelope. 100,000 lbs. 24 hours. Highways, U. S., 1 and 112; State, 60. Phone, 32.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; A. L. Pilson, Sec.; Howard H. Rausch, Supt.; M. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at Mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 12½ feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase, 1521 h.p. Installed. Sixty-eight motors of 220 and 440 v. 50-lb. Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue. White Wrapping Tissue and Tissue Specialties. 30,000 lbs. 24 hours. Highways, U. S., 31-112; State, 60. Phone: Niles 736.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R. M. O., Tel., Bank and Exp. Greyhound Buses. Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER CO., formerly National Container Corp. of Mich. Main Office, 1350 Fullerton Ave., Chicago, Ill. (Alvin Huss, Pres.; Walter Brewer, Vice-Pres.; H. S. Cartwright, Sec.-Treas.; Newton Cuneo, Res. Mgr.; Merlin King, Chief Engr.) Railroad Siding. S. P. at mill. One 2000-lb. Valley Iron Works and two 2000-lb. Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches. Seventy Driers, 48 inches in Diameter and 124 inches wide. One 176-inch trim Posey & Jones Fourdrinier. Electricity: 60 Cycles 3 Phase, 25% Purchased, 75% Generated, 3500 k.w. Installed. 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures. Cylinder Kraft Liner Board, 009 Corrugating Medium and Bleached Semi-Chem. Food Board. 240,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Five Digesters and one Wet Machine. One Drying Machine, one Pandia-American Defibrator Unit and two Bauer Refiners. Semi-Chemical Pulp, 400,000 lbs. 24 hours of which 300,000 lbs. is bleached. Average daily consumption of peeled birch and maple pulp wood, 200 cords. Highways, U. S., 45, 1 mile, State, 64. Phone: 1.

Otsego—Allegan Co.

On N. Y. C. R. R., M. O., Bank and Exp. Tel. at Kalamazoo. Peoples R. R. and Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (C. M. Sisson, Pres., Gen. Mgr.; L. W. Dickinson, Vice-Pres.; M. V. Stowe, Treas.; W. I. Hurlbut, Sales Mgr.; Walter F. Wolter, Supt.; Leslie Peck, Tech. Dir. and Chief Chemist; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.; S. A. Bohrer, Sales Rep., Chicago.) Railroad Siding, N. Y. C. R. R. S. P., at Mill. MAC SIM BAR MILL. Fifteen 1200-lb., four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain, Oak, Marble, Burlap Grained Solid Jute Board, Machine Clay Coated News and White Patent Coated News. 600,000 lbs. 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phones: Kalamazoo 4-5500; Otsego 2-6211.

OTSEGO FALLS PAPER MILLS, Div. of Menasha Wooden Ware Corp. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; Rover McVickar, Tech. Dir.; Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 1500-lb. and one 2500-lb. Beaters. One 84-inch and one 110-inch Fourdriniers; widest trimmed sheets, 80 inches and 102 inches. Water, Steam and Electricity. .009 Corrugating, Saturating, Can, Semi-Chemical Wood Pulp Boards. 200,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters. Unbleached Semi-Chemical Fiber. 200,000 lbs. 24 hours. Average Daily Consumption of Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Charles G. Wood, Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.;

Floyd M. Murphey, Jr., Vice-Pres.; Charles R. Ehinger, Supt.; Guy Carmichael, Ch. Engr.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans, One Hydrafiner and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity, Chipboard, Specialties, Building and Insulating. 100,000 lbs. 24 hours. Highway, U. S. 223. Phone Adrian 2340.

Parchment

A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight I. Stocker, Pres.; E. Norval Hunter, First Vice-Pres.; W. Donald Brownell, Vice-Pres.; Robert D. Caine, Vice-Pres.; C. Longford Felske, Vice-Pres. Charge of Finance and Treas.; Harold De Weerd, Sec.; W. R. Hess, Asst. Sec.-Treas.; F. D. Libby, Corporate Pulp and Paper Consultant; Marshall Rutz, Gen. Supt.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic and Shipping Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. Thirteen Waxing Machines. MILL NO. 1. Three Fibremasters, four 2000-lb., two 2500-lb. Beaters and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, one 3200-lb. Broke Beater, three 2500-lb. Vortex Beaters, ten Majestic Jordans, one Fibremaster, one 2500-lb. Pulpmaster, one 2000-lb. Slushmaker and one Bertram Refiner. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Greaseproof, Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1, 175,000 lbs.; MILL NO. 2, 415,000 lbs. 24 hours. Highways, River Road; U. S., 131 and 12. Phone: 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

MICHIGAN PAPER CO. OF PLAINWELL, wholly owned subsidiary of W. C. Hamilton & Sons, Miquon, Pa. All papers sold by W. C. Hamilton & Sons. (L. D. Nicolson, Pres.; C. A. Braginton, Treas.; Lane Taylor, Sec.; F. L. Brown, Asst. Sec. and Pur. Agt.; M. E. Burkheiser, Cont.; Ray L. Barton, Supt.; John Kaullmann, Chief Engr.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.) Railroad Siding, Penna. R. R. Thirteen 1400-lb. Beaters and seven Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches, 118 inches and 120 inches. Widest Super-Calender, 80 inches. Water, steam and Electricity. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers, Blanking and Poster. 190,000 lbs. 24 hours. Highways, U. S., 131; State, M-89 Phones: 2411, 2421.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Pres. and Treas.; Geo. C. Dunn, Exec. Vice-Pres. and Sec.; W. A. Fisher, Vice-Pres.; H. G. Wales, Vice-Pres. Charge of Sales; D. J. Haines, Asst. Treas. Gladys Fockler, Asst. Sec.; A. W. Redlin, Gen. Supt.; P. R. Bruce, Plant Engr.; W. F. Parker Tech. Dir.; M. C. Jones, Pur. Agt.) Railroad Siding, G. T. W. R. R. Four 1600-lb. and one 2000-lb. Beaters and two Jordans; three Bleachers, nine Filters, one 16-ft. Hydrapulper, seven Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 126 inches. Electricity: 2,000 K. V. A.; 60 Cycles, 3 Phase, 440 v. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p.s.i. Water Treatment Plant. Sulphite and Sulphate Papers for Bag, Bread Wrapper, Fine Crepe, Diaper Lining, Salesbook, Fruit and Vegetable Wrapping, Interleaving and Impregnating Tissue; Foil Mounting, Envelope, Wrapping, Twisting, Waxing, Napkin, Absorbent Tissue Excelsior, Machine Coated Opaque, One-time Carbonizing and Other M. G. Bleached and Unbleached Specialties. 75,000 lbs. 24 hours. Highway, U. S., 25, ½ mile. Phone: YUkon 5-5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; N. O. Seagrave, Pres.; G. F. Durand, Vice-Pres.; F. B. McFarland, Vice-Pres.; S. L. Bush, Treas.; Joseph L. Hoolihan, Gen. Supt.; L. T. Summers, Sec. and Tech. Dir.; W. D. Thompson, Pur. Agt.; A. E. Dunlap, Sales Mgr.; John Maes, Paper Mill Supt.; J. Arthur, Asst. Tech. Dir.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 140-inch Yankee Fourdrinier; widest trimmed sheet, 123 inches; one 132-inch Fourdrinier, widest trimmed sheet, 122 inches. Steam and Electricity. Bag Paper, Bond, Bread Wrapping, Butter Wraps, Carbon Paper, Carbonizing, Carbonized Rolls, Christmas Paper, Creping, Decorative Papers, Florists' Wax Tissue, Laminated Specialties, Locker Paper, M. G. Wrapping and Specialties, Manifold, Onion Skin, Protective Papers, Printed Tissue, Register, Salesbook, Second Sheets, Shredded Paper, Sulphite Bond, Tissue, Waxed, Waxing, Wrappings, Writing, Carbon Coating, Cellophane Specialties, Foil Specialties, Kraft, Soda Wrapper and Straw, Sulphite Papers. 150,000 lbs. 24 hours.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO. (Paul H. Travis, Pres., and Gen. Mgr.; T. M. Dowler and T. F. Pulling, Vice-Pres. Sales.; Gordon Morseth, Vice-Pres. and Prod. Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas.; S. J. Fortune, Supt.; Armand Pepin and Thad Perkins, Asst. Supts.; Irwin L. Taylor, Tech. Dir.; M. S. Arnold, Pur. Agt.) S. P., at Mill. Railroad Siding, G. T. R. R. Three 1000-lb. Beaters and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt, Impregnating and Absorbent Specialties. 25,000 lbs. 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-9851.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port. Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; Ruth Gardner Gumbin, Vice-Pres. and Treas.; Fred Gave, Sr. and Fred Gave, Jr., Supts.; Grover C. Welch, Chief Engr.; Jack Zimler, Pur. Agt.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, five Jordans, seven Screens. One 70-inch Seven Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 750 h. p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure. Coal. White Pat. Coated, Chip Board, News Board, Jute Filled, Solid Jute, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila Lined Chip and Colored Specialties. 130,000 lbs. 24 hours. Highway, U. S., 131, 1½ miles. Phone: VO. 6-9211.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC. Main Office, Box 404. (Paul H. Travis, Pres. and Treas.; Corwin H. Drew, Vice-Pres. and Sales Mgr.; Nathan B. Goodnow, Sec.; Frank H. Pepe, Cont.; Frank F. Boyle, Gen. Supt.; Guy Hunter, Asst. Supt.; Lynn E. Rolig, Tech. Dir.; John Spelman, Chief Engr.; Milton J. Frisch, Plant Engr.; John B. Shuman, Pur. Agt.) S. P., at Mill. Railroad Siding, N. Y. C. (M). R. R. Five 1000-lb. Beaters, five Jordans, four Washers, one Pulper, six Screens and one Paper Machine Ventilator System. One 80-inch Cylinder; widest trimmed sheet, 74 inches. Seventy-four Driers, 48 inches in Diam. and 82 inches wide. Purchased and Generated Electricity, 1500 k.w., 60 cycles, 3 phase, 440 v., Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Ticket Bristol, Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Cover Stocks—Plain, Embossed and Decorative, Kraft Boards. 100,000 lbs. 24 hours. Highways, U. S., 131, 1 mile; State, 60, 1 mile. Phone: 3-1015.

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Tel. and Ex.

LEE PAPER CO. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres.; A. A. Christian, Sec.; W. J. Comstock, Treas.; Arthur Katt, Supt.; John Stroud, Pur. Agt.; Stephen Kukolich, Tech. Dir.) S. P., at mill. Fourteen 600-lb. and four 1000-lb. Beaters, three Jordans and four Refiners, seven 1000-lb. Washers and four 10,000-lb. Rotaries. Two 121½-inch Fourdriniers; widest trimmed sheet, 107 inches; one 132-inch Fourdrinier; widest trimmed sheet, 119 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 150,000 lbs. 24 hours. Highways, U. S., 131, 5 miles West; State, M60, 6 miles South. Phone: Vicksburg 2021.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

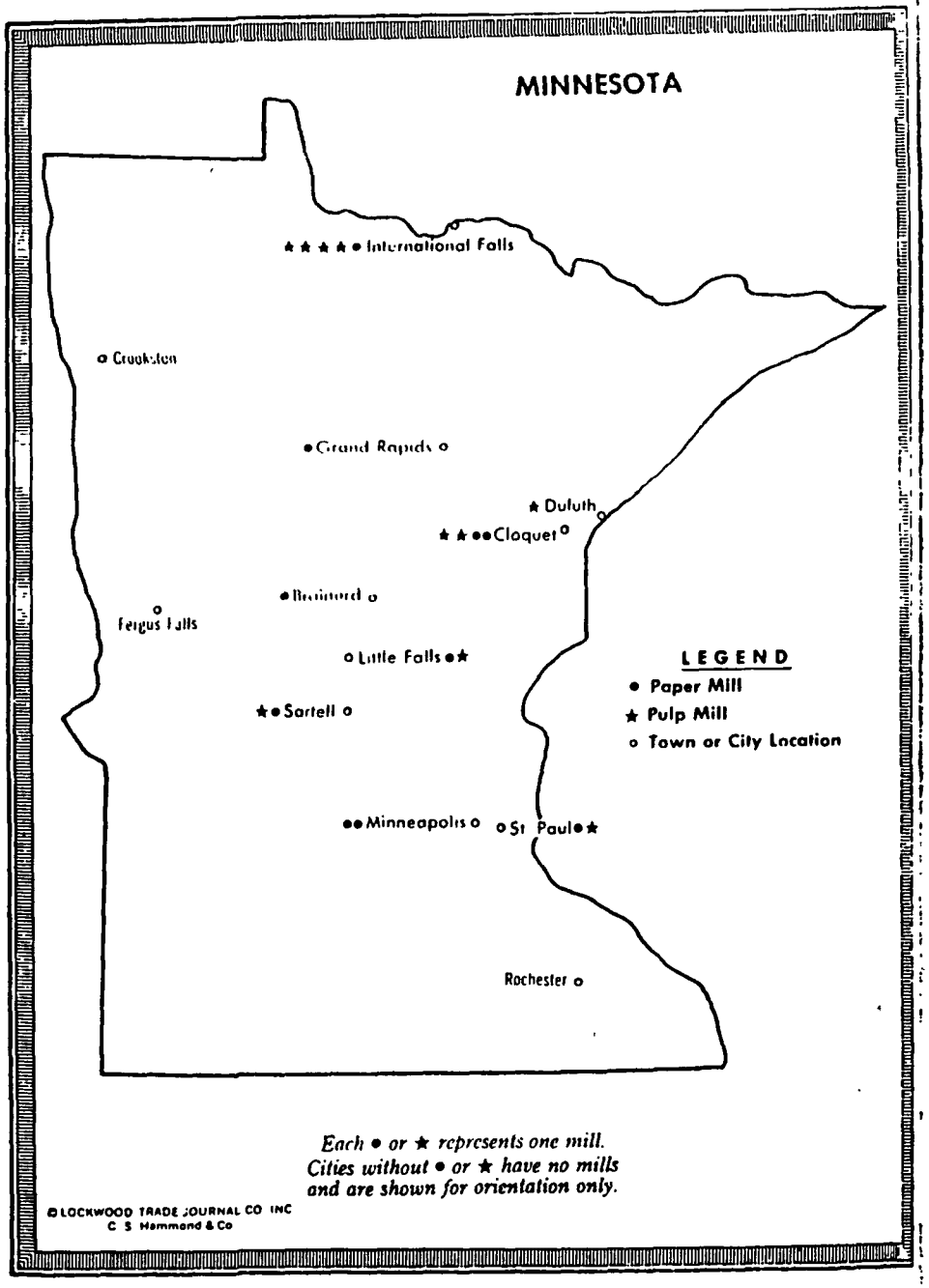
WATERVLIET PAPER CO. (Subsidiary of Hammermill Paper Co.) (George K. Ferguson, Pres. and Gen. Mgr.; J. D. Zink, Vice-Pres.; R. P. Price, Vice-Pres.; M. E. Graham, Sec.; J. H. De Vitt, Treas.; A. W. Field, Sales Mgr.; V. F. Quigley, Prod. Mgr.; L. J. Scheid, Plant Mgr.; R. T. Trelfa, Operating Supt. and Tech. Dir.; A. H. Hupp, Chief Chem.; Claude Unrath, Chief Engr.; W. P. Jones, Pur. Agt.; John Hanson, Woodlands Mgr.; C. Kelly, Traffic Mgr.) S. P., at mill. Railroad Siding, C. & O.—Pere Marquette Div. Four Jordans, four Refiners, four Screens and three Pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 128 inches. Width of Embossing Equipment, 53 inches. Coated—Book, Offset, One-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 210,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Three Globe Rotary Digesters and two Refiners. Electricity, Half Purchased and Half Generated, 150 h.p. Installed Water Power; Coal; 235 p.s.i. Steam Pressure. Semi-Chemical Fiber, 100,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 70 Cords. Highways, U. S., 12; State, 140. Phone: Watervliet-Ingersoll 3-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O., Exp. and Bank. Nearest Air Port at Three Rivers, Mich. Greyhound Bus Line.

EDDY PAPER CORP. Main Office, 919 N. Michigan Ave., Chicago. (J. W. Kieckhefer, Pres.; K. W. Schneider, Vice-Pres. and Res. Mgr.; W. F. Kieckhefer, Sec.; O. F. Flatland Supt.; N. Monroe, Tech. Dir.; Le Roy Nusbaum, Chief Engr.; L. A. Weyrick, Pur. Agt.) MILL NO. 2. Railroad Siding, N. Y. C. R. R. Fourteen 1200-lb. Beaters, one 12,000-lb. Breaker, one 20,000-lb. Hydrapulper, and eight Jordans. One 100-inch and one 122-inch Seven-Cylinder Machines; widest trimmed sheets, 92 and 110 inches. Generated Electricity, 6000 k.w., 3 phase. Coal and Oil. 500 p.s.i. Steam Pressure. Single and Double Patent Coated News, Clay Coated Fold-

MH1-00055



Box Boards, Single and Double Manila Lined and Bending Chip 400,000 lbs 24 hours Highways, U S, 112, ½ mile Phone 2315

Ypsilanti—Washtenaw Co.

On N. Y. C.; M. C. R. R M O, Tel and Ex.

PENINSULAR PAPER CO (Daniel T Quirk, Pres and Treas; D G Quirk, Vice-Pres, Mrs Florence S Gilmore, Sec, F F Ely, Supt Glenn Towe, Chief Chemist, Walter Dice, Maintenance Head; E C Robtoy, Traffic Mgr.) S P, at mill Four Jordans and two Hydrapulpers One 85-inch and one 86-inch Fourdriniers, widest trimmed sheets 58 and 80 inches Width of Paster, 51 inches One 40-inch Plater and one 24-inch Embosser Steam and Electricity, Coal Cover, Colored Specialties, Sulphite and Bleached Kraft Specialties 80,000 lbs 24 hours Highways, U. S, 112; State, 12 and 17 Phones 62, 63 Teletype Ypsilanti, Mich, 40

MINNESOTA

Brainerd—Crow Wing Co.

On N P R R Tel, Bank, Exp, Air Port and Greyhound Bus.

NORTHWEST PAPER CO, THE. General Office, Cloquet. (F. K. Weyerhaeuser, Chairman of Board; Stuart B. Copeland, Pres.; Harry T. Kendall, Jr., Exec. Vice-Pres.; B. W. McEachern, Vice-Pres. and Mgr. of Sales; Mace V. Harris, Vice-Pres. and Mgr. of Mfg.; F. A. Kelly, Vice-Pres. and Mgr. of Land and Timber, Lloyd N. Benson, Sec.; A R. Boquist, Treas and Compt.; Wm. M MacConnachie, Jr, Asst. Sec.; Clarence W. Jensen, Asst. Treas. and Asst. Compt; Roy I. Nilsen, Asst. Mgr. of Mfg.; R E Soreus, Mgr. Tech. Service; Eldon C. Gamble, Mgr. Mech. Service; Philip W. Budd, Mgr Sales Service; Glenn J. Ayres, Mgr. Industrial Service; Leo J Gayou, Resident Mill Mgr; Earl W Wolfat, Asst to Resident Mill Mgr.; L. V Blinn, Mgr Purchases; J. H Webb, Traffic Mgr.) Railroad Siding, N. P. R. R. One Hydrapulper, one Chemical Pulp Chest, one Blender, one Broke Beater, one Broke Chest, one Machine Chest, two Jordans and one Claflin. One 128-inch Fourdrinier; widest trimmed sheet, 112 inches. Steam and Hydro-Electricity Bond, Book, Bristol, Coating Raw Stock, Cup Paper, Drawing, Duplicator, Envelope, Label, Ledger, Mimeograph, Offset, Papeterie, Post Card, Special Converting Papers, Tablet and Writing 170,000 lbs. 24 hours Highways, U S, 210 and 371, State, 18 Phone: Brainerd 2819

Cloquet—Carlton Co.

On G N; N P; C. M & St P; D & N. E. R. R. M. O., Tel., Bank and Ex. Air Port, Duluth. Greyhound Bus.

NORTHWEST PAPER CO, THE (F. K. Weyerhaeuser, Chairman of Board, Stuart B Copeland, Pres.; Harry T. Kendall, Jr., Exec. Vice-Pres.; B. W McEachern, Vice-Pres and Mgr of Sales; Mace V. Harris, Vice-Pres. and Mgr. of Mfg.; F. A. Kelly, Vice-Pres. and Mgr. of Land and Timber; Lloyd N. Benson, Sec.; A R Boquist, Treas and Compt, Wm M. MacConnachie, Jr, Asst Sec, Clarence W Jensen, Asst Treas and Asst Compt, Roy Hella, Mgr. Pulp Mfg Roy I Nilsen, Asst. Mgr. Mfg, Warren C Johnson, Mgr Paper Mfg,, Joe J. Jenkins, Mgr Finishing and Shipping Dept.; R. E Noreus, Mgr Tech Service Dept, E C Gamble, Mgr Mech Service Dept, Philip W Budd, Mgr Sales Serv., Glenn J Ayres, Mgr Industrial Service; L V Blinn, Mgr Purchases, J. H. Webb, Traffic Mgr.) S P at mill. Four Hydrapulpers, five Broke Beaters, ten Jordans and five Claflins. One 100-inch, one 123-inch, one 124-inch and one 213-inch Fourdriniers, widest trimmed sheets, 86, 106, 108 and 194 inches Bond, Book, Bristol, Coating Raw Stock, Cup Paper, Drawing, Duplicator, Envelope, Label, Ledger, Mimeograph, Offset, Papeterie, Post Card, Special Converting Papers, Tablet, Writing 630,000 lbs 24 hours SULPHITE MILL, Three Digesters, four Wet Machines Bleached Sulphite 200,000 lbs 24 hours ALKALINE PULP MILL. Seven Digesters and three Wet Machines Bleached Soda Pulp, 140,000 lbs, and Bleached Sulphate Pulp, 230,000 lbs 24 hours Hydro and Steam Electricity plus Steam Power Highways, State, 33 and 45 Phone Cloquet TRiangle 9-6784

WOOD CONVERSION CO Main Office, 1900 First National Bank Bldg., St. Paul 1, Minn. (E. W Davis, Pres; D M. Pattie, Exec. Vice-Pres; C M Rowe, Sec-Treas.; M. S. Wolf, Sales Mgr.; A L. Spafford, Works Mgr; H. E. Walter, Prod Mgr; W C Rindsland, Works Engr.; P. J. McGervey, Tech. Dir; J. H Webb, Pur. Agt. and Traffic Mgr) S P, at mill Railroad Siding, N. P, G. N. & D, N E and G. M. St. P. & P. R. R. One 109-inch and one 112-inch Fourdriniers for Insulation and Decorative Board, Tile, Plank, Sheathing and Roof Insulation with a capacity of 600,000 sq ft per 24 hours: widest trimmed sheets, 101½ and 102 inches. Two Machine Coating Units. One 114-inch Forming Unit and Dryer, 110-inch trim for Sealed House Insulation with a capacity of 1,350,000 sq. ft. per 24 hours. One 72-inch and one 114-inch Forming Units, 64 and 100-inch trim for Homogenous Wood Fiber Products for Cushioning or Protective Padding with a capacity of 750,000 sq. ft. per 24 hours. Bulk Fiber and Baler Equipment with a capacity of 80,000 lbs. 24 hours. Purchased Electricity. Coal. 275-lb Steam Pressure. Water Treatment Plant. PULP MILL. Six Rotary and Stationary Digesters; thirty Defibrators; Bauer, Sprout-Waldron and Special Grinders and six Williams and ten Prater Shredders, and two Pulpwood Chippers Highways, U S, 61, 3 miles, State, 33 and 45 Phone TRiangle 9-6771.

Duluth—St. Louis Co.

N. P. R. R. M. O, Tel, Bank and Exp Airport. Greyhound Bus

SUPERWOOD CORP., formerly Superior Wood Products, Inc., 14th Ave, W and Waterfront, 2. (M. J Opsahl, Pres; L. K Johnson,

MHI-00056

MHI-00057

and six Jordans. One 86-inch and two 94-inch Fourdriniers; widest trimmed sheets, 72 inches and 86 inches. Water, Steam and Electricity. Condenser Tissue, Coil Winding Tissue and Electrical Insulating Paper. Highway, U. S., 202, 1/10 mile. Phone: Westfield, Logan 2-2315.

West Groton—Middlesex Co.

On B. & M. R. R. Nearest Bank, Ayer, 4 miles.

GROTON LEATHER BOARD CO. (Winthrop L. Sheedy, Pres. and Treas.; Carl A. P. Lawrence, Vice-Pres.; Harry J. Hosking, Sec. and Supt.) WEST GROTON MILLS. S. P., at mill. Water and Electricity. Stereotype Dry Matrix. Phone: Groton—GIlbert 8-6334.

HOLLINGSWORTH & VOSE CO. General Office, East Walpole, Mass.; New York Sales Office, 331 Madison Ave.; Chicago Sales Office, 600 W. Jackson Blvd. (Aubrey K. Nicholson, Pres. and Gen. Mgr.; Mark Hollingsworth, Vice-Pres.; Bruce G. Lennox, Treas. and Clerk; Grant Harrington, Sales Mgr.; Eugene E. Smith, Prod. Mgr.; Roland W. Sawyer, Mill Supt., West Groton Mill; Hubert Smith, Pur. Agt.; Harold Knudson, Tech. Dir.; David R. Smith, Chief Mech. Engr., West Groton Mill; T. J. Lyons, Asst. Pur. Agt.) WEST GROTON MILL. Railroad Siding, Boston & Maine R. R. Nine 1500-lb. and eight 1600-lb. Beaters, five Jordans, four Screens, one Pulper and ten Rotaries. One 65-inch Three Cylinder and one 86-inch Four Cylinder; widest trimmed sheets, 54 inches and 75 inches. One 62-inch Fourdrinier; widest trimmed sheet, 57 inches. Electricity: 60 Cycle, 3 Phase: 110 v. Small Motors, 440 v. Large Motors; Oil; 150-lb. Steam Pressure. Effluent Treatment Plant. Rope, Jute, Wood, Rag, Industrial Specialties, *Electrical Insulating, Saturating and Absorbent*, Filter, Sandpaper Backing, Red Rope Papers, Tag Board, Coating Specialties, Heavy Duty Wallet, Patch, Tympan, Duplex, Tube, Gasket, Pattern and Crepe Specialties and Crepe Saturating, Wet Strength Papers, Black Papers and Iron Tag. 70,000 lbs. 24 hours. Highways, U. S., 40, 2/3 mile; State, 2A, 1 mile. Phone: Gilbert 8-6321.

West Springfield—Hampden Co.

On B. & A. R. R. M. O. and Bank. Tel. and Ex., Springfield, 3 miles. Bradley Field, Windsor Locks, Conn., 13 miles.

PREMOID CORP. Main Office, Front St., W. Springfield, Mass. (F. Nelson Bridgham, Chairman; Cassius M. Bryan, Pres.; Charles F. Collins, Vice-Pres.; Raymond E. Clark, Sec.-Treas.; Franklin B. Comery, Sales Mgr.; Joseph A. Cancelliere, Chief Chem.) S. P., West Springfield. Railroad Siding, B. & A. R. R. One 64-inch Fourdrinier; widest trimmed sheet, 56 inches. Special Industrial and Technical Papers including Saturating Papers for Gasket, Resin, Rubber and Other Purposes, Absorbent for Latex Saturation, and Artificial Leather Base; Impregnated Fiber Products and Latex Impregnated Board and Paper. 30,000 lbs. 24 hours. Highway, U. S., 20, 1/3 mile. Direct Mill Phone: Springfield, Republic 6-4554; Boston, Lafayette 3-4650; and New York City, Rector 2-2662.

SOUTHWORTH CO. (Melvin D. Southworth, Pres.; John H. Southworth, Sec.; Phelps Brown, Treas.; Alfred L. Montagna, Supt.; Paul W. Cheney, Sales Mgr.) Railroad Siding, B. & A. R. R. One 1200-lb. and four 850-lb Beaters. One 81-inch Fourdrinier; widest trimmed sheet, 44 inches; widest machine finished paper in rolls, 70 inches; widest tub sized paper in rolls 68 inches. Water and Electricity. Bonds, Linens, Ledgers, Typewriter Papers, Onion Skin, Manuscript Covers and DeLuxe Bonds with Visible Watermarks, 20,000 lbs. 24 hours. Highway, U. S., 20, ⅛ mile. Phone: REpublic 2-5141.

STRATHMORE PAPER CO. Mills at Turners Falls, West Springfield and Woronoco, Mass. New York Office, 25 West 43rd St. (C. M. Bryan, Chairman of Board; F. N. Bridgman, Pres.; A. P. Shattuck, Vice-Pres. *in Charge of Supplies*; H. E. Riggs, Vice-Pres. *in Charge of Sales*; L. W. Shattuck, Vice-Pres. in Charge of Prod.; Paul A Wilks, Treas.; B. E. Stafford, Clerk; P. G. Volanakis, Mgr. Tech. Sales; Roy R. Arnold, Mgr. Product Dev.; James H. Sweet, Mgr. Converter Papers; H. D. Johnston, Asst. to Pres.; B. P. Wood, Asst. to Vice-Pres. i/c Production; H. C. Johnson, Supt. of Finishing; P. P. Gooding, Tech. Dir.; K. A. Sheridan, Mill Mgr. at Turners Falls; H. A. Bolles, C. E. Benoit, R. E. Hosmer and A. W. Dempsey, Mill Supts.; J. A. Gallatin, Jr., Chief Chem.; J. S. Mudgett, Chief Engr.; P. D. Howe, Pur. Agt.; E. A. Eddings, Traffic Mgr.) Railroad Siding, B. & A., B. & M., N. Y. N. H. & H. R. R. Thirty-seven Beaters, eleven Refiners, twenty-two Washers and eight Rotaries. One 66-inch, one 76-inch, one 80-inch, one 86-inch, one 87-inch, one 89-inch and one 106-inch Fourdriniers and two Special. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typrewriter, Onion Skin, Air Mail, Index, Ledger, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes. 160,000 lbs. 24 hours. Phone: Republic 6-8301.

Wheelwright—Worcester Co.

On Southern Div. B. & M. R. R. M. O., Tel., Bank and Exp., Gilbertville, Mass. Nearest Air Port, Bradley Field.

ROMAR TISSUE MILLS, INC., formerly Doeskin Products, Inc. (Charles Davidson, Jr., Chairman of Board; Robert Belsky, Pres.; Morris Belsky, Vice-Pres. and Treas.; Geo. B. Scully, Clerk; Larry Messier, Supt.) S. P., at Mill. Railroad Siding, B. & M. R. R. Two 1500-lb. and two 2000-lb. Horne Beaters, four Emerson Jordans, one 18,000-lb. Pulper, one Washer, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 100, 106, and 112 inches wide. Electricity. Oil. 160-lb. Steam Pressure. Facial Tissue, Pocket Pack and Cellulose Wadding, Dinner and Luncheon Napkins, Sanitary Napkins and Towels. 75,000 lbs. 24 hours. Phone: Gilbertville 5291.

GOTTESMAN & CO., Inc. • ALL GRADES, DOMESTIC & IMPORTED
100 PARK AVENUE NEW YORK 17, N. Y. WOOD PULP

Woronoco—Hampden Co.

On B. & A. R. R. M. O. and Tel.; nearest Bank, Westfield, 6 miles.

STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U. S., 20. Phone: Springfield, Republic 6-8301.

MICHIGAN

Alpena—Alpena Co.

On D. & M. R. R.

ABITIBI CORP., *Subsidiary of Abitibi Power & Paper Co., Ltd.* Main Office, 408 University Ave., Toronto 2, Ont. For Executives, see main office. (P. E. Roberts, Executive Vice-Pres.; F. R. Boynton, Cont. and Asst. Treas.; O. B. Eustis, Mill Mgr.; E. J. Schultz, Gen. Sales Mgr.; A. J. Auden, Woods Mgr.) $10,000,000 Hardboard Mill under construction. Completion scheduled for late 1957.

FLETCHER PAPER CO. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; F. R. Trelfa, Sec.-Treas.; Albert Mausolf, Supt.; Eldred Hall, Chief Chem.; J. A. Reinke, Chief Engr.; R. C. Johnson, 20 N. Wacker Dr., Chicago 6, Ill., Sales Mgr.) Four Refiners, four Jordans, and two Pulpers. Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches. Steam and Electricity. Manifold, Sulphite Bond, Register, Sales Book, Register Bond, Second Sheets, Typewriter, Opaque Bond, Duplicator and Mimeograph. 100,000 lbs. 24 hours. Highways, U. S., 23; State, 32. Phone: 3.

Battle Creek—Calhoun Co.

On G. T.; M.; & M. C. R. R. Tel., M. O., Bank, Exp. and Air Port.

MICHIGAN CARTON CO., 79 E. Fountain. (L. G. Fell, Pres. and Treas.; Dan Int-Hout, Jr., Exec. Vice-Pres.; F. H. Stowitts, Vice-Pres. and Asst. Sec.; Dan Int-Hout, Sr., Vice-Pres.; J. J. Harrison, Vice-Pres. Mfg.; H. L. Chorpening, Sales Mgr.; C. H. Cameron, Sec.; W. C. Ingerson, Asst. Treas.; Norman Schmitzer, Cont.; L. J. Phillips, Chief Engr.; Les Styer, Pur. Agt.; J. R. Vosburgh, Traffic Mgr.) S. P., at Mill. Railroad Siding, Michigan Cent. and Grand Trunk R. R. MILLS NOS. 1 AND 2. Two 5000-lb. Breaker Beaters, thirteen Jordans, six Refiners, twenty-two Screens, two Filters, six Pulpers and a Ross Ventilator System. 296 Driers: #1 and 2, 42 inches in diameter, #3, 60 inches in diameter, #1, 108 inches wide, #2, 134 inches wide and #3, 140 inches wide. One 108-inch, Black-Clawson, Seven Cylinder, one 134-inch Black-Clawson Seven Cylinder, and one 140-inch Beloit Eight Cylinder; widest trimmed sheets, 96, 120 and 128 inches. Electricity—Part Purchased and Part Generated. Single Bleached Manila Lined Chip and News, White Patent Coated Solid Manila Back, Double White Patent Coated News, Single and Double Manila Lined Chip, Test Jute Board, Double Bleached Manila Lined Chip or News Center, White Patent Coated News Center Manila Back, White Bleached Sulphite Solid Manila Back, Bleached Sulphite News Center Manila Back, Double Bleached Sulphite Manila Center, Solid Bleached Sulphite, Bending Chip, Kraft Lined Chip, Solid Manila, Plain Chip, White Patent Coated News and Chip and Clay and Machine Coated, 820,000 lbs. 24 hours. Highways, U. S., 12; State, 78. Phone: WO.—3-5511.

Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes Transportation. M. O., Tel., Bank and Exp. Nearest Air Port, Petosky, Mich.

CHARMIN PAPER PRODUCTS CO. See Main Office, Green Bay, Wis., for officials and grades. S. P., at Mill. Railroad Siding, D. & M. Two 136-inch Fourdriniers; widest trimmed sheet, 124 inches. GROUND WOOD MILL. Three Grinders. (Plant under reconstruction. Expect to be in operation Last Quarter of 1957.) Highway, U. S., 27. Phone: 980.

Constantine—St. Joseph Co.

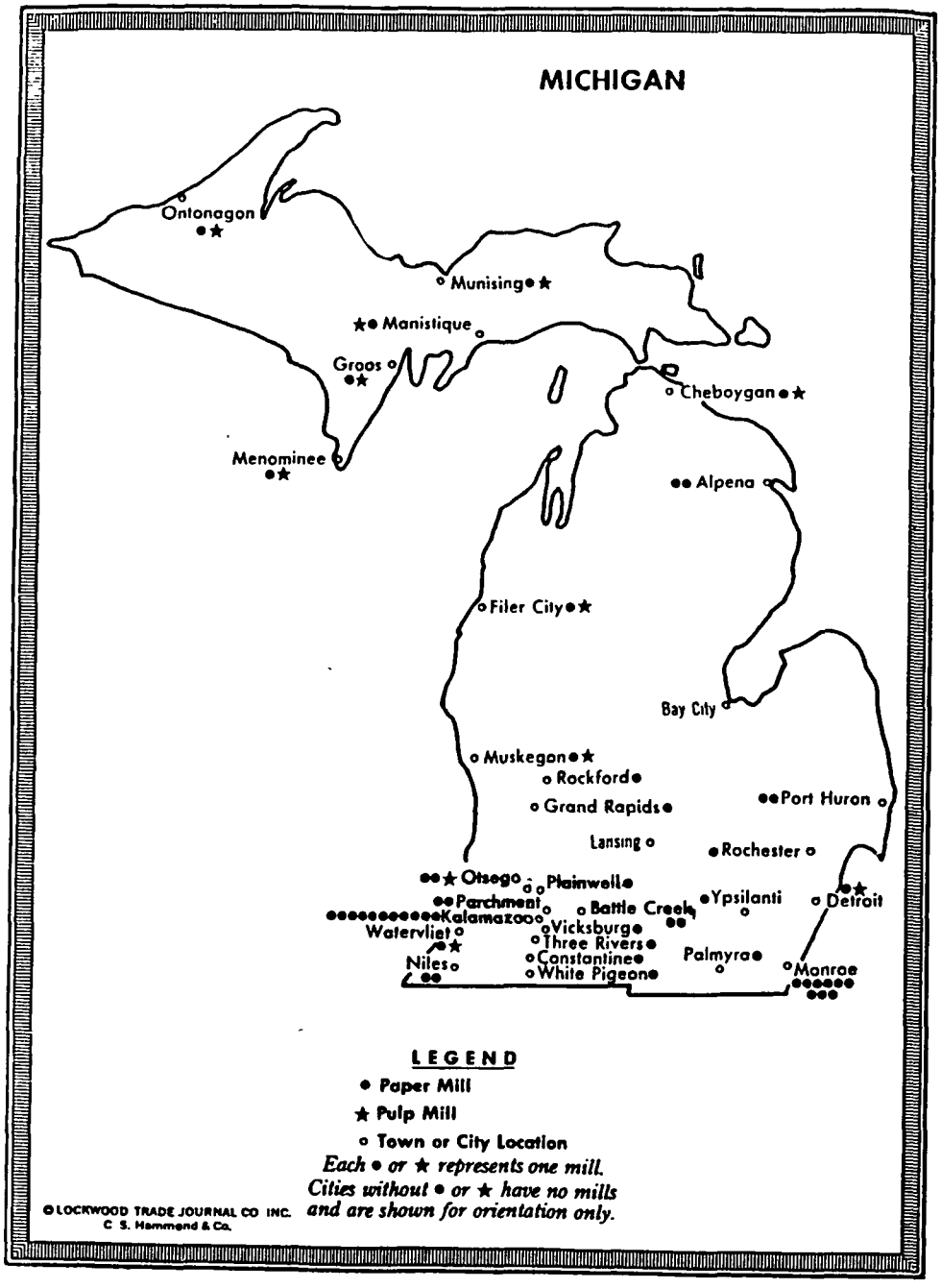
On N. Y. C. R. R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

CONSTANTINE BOARD & PAPER CO. (Frederick G. Weir, Pres. and Sales Mgr.; H. M. Weir, Vice-Pres.; Robert T. Weir, Jr., Sec.-Treas. and Gen. Mgr.; H. E. Reinochl, Pur. Agt.) FAWN MILL. S. P., at mill. Railroad Siding, N. Y. C. R. R. Four 1000-lb. Beaters, two Pulpers and three Jordans, four Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 96 inches. 36 Driers, 36 inches in Diam., 102 inches wide. Purchased Electricity. 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 100,000 lbs. 24 hours. Highway, U. S., 131, 1 mile. Phone: Constantine 4285.

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line; Det. Ter.; G. T.; N. Y. C.; Penn.; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., Detroit Div., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. Main Office, Chester, Pa. For executives, see Main Office. At Detroit: G. N. Carleton, Vice-Pres.; R. A. Mills, Asst. Sec.; K. G. Sell, Detroit Sales Mgr.; M. F. Schnaufer, Plant Mgr.; W. A Kosicki, Plant



KVP
PARCHMENT • WAXED • LAMINATED
WRAPPING • OFFSET • HOUSEHOLD
THE KVP COMPANY • KALAMAZOO, MICHIGAN

Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.) Railroad Siding, Mich. Cent R. R. DELRAY MILL. S. P., at mill. Seventeen 1400-lb. Beaters, seven Jordans and seven Paper Machine Ventilator Systems. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 400,000 lbs. 24 hours. SULPHITE PULP MILL. One Wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Fiber (dry). 325,000 lbs. 24 hours. Phone: Vi 2-0042

Filer City—Manistee Co.

On M. & N. E.; Pere Marquette R. R. M. O.; nearest Bank and Tel., Manistee, 2½ miles. Nearest Air Port, Manistee-Blacker.

AMERICAN BOX BOARD CO., FILER CITY DIV. Main Office, 470 Market Ave., S. W., Grand Rapids 2, Mich. (Walter S. Goodspeed, Pres., G. B. Bonfield, Vice.-Pres.-Gen. Mgr.; Filer City Div.; Robert K. Stolz. Vice-Pres.-Central Div.; F. W. Oldenburg, Vice-Pres.-Dir. of Sales; C. F. Raber, Vice-Pres.-Dir. Ind. Rel.; Harrison L. Goodspeed, Sec.; C. C. Boyer, Treas.; G. Dlesk, Operation Mgr.; R. D. James, Sales Mgr.; D. Elliott, Engr. Mgr.; J. Challas, Tech. Dept. Mgr.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S. P., Manistee. Railroad Siding, M. & N. E. R. R. Three Sutherland Refiners, eleven Jordans, five Bleachers, six Filters and two Pulpers and two Ross Paper Machine Ventilator Systems. One 162-inch, one 172-inch and one 176- Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches. Eighty-eight Driers, 5 ft. in Diameter, 154 and 168 inches wide. Purchased Electricity, 13,000 k.w., 60 Cycles, 3 Phase, 440 and 2160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant, .009 Corrugating Medium and Facing Paper, 680,000 lbs. Bleached Kraft Food Board, 300,000 lbs. 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Seven Digesters, two B. K. Continuous Dig. Chemipulpers, seven Sprout Waldron Grinders. Steam and Electricity. Semi-Chemical Pulp, 680,000 lbs. and Bleached Kraft Pulp, 330,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 470 Cords. Highway, U. S., 31, 2 miles. Phone: Manistee 1500.

Grand Rapids—Kent Co.

On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

AMERICAN BOX BOARD CO. Main Office, 470 Market Ave., S.W., Grand Rapids, 2. (W. S Goodspeed, Pres.; Robert K. Stolz, Vice-Pres. Central Div.; Gordon B. Bonfield, Vice-Pres. and Gen. Mgr.—Filer City Div.; F. W. Oldenburg, Vice-Pres.—Dir. of Sales; C. F. Raber, Vice-Pres.-Dir. Ind. Rel.; H. L. Goodspeed, Sec.; C. C. Boyer, Treas.; E. M. Dean, Mgr.; M. Nossaman, Supt.; R. P. Aument, Tech. Dir; I. P. Nicole, Eng. Mgr.; W. R. Tobin, Sales Mgr.; R L Hall, Dir. of Pur.; Wm. Glaske, Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 400,000 lbs. 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile. Phone: GL. 9-4581.

Groos—Delta Co.

On E. & L. S. R. R. Exp, M. O., Tel. and Bank at Escanaba, 6 miles.

ESCANABA PAPER CO. P. O. Address, Escanaba. Subsidiary, The Mead Corp., Dayton, Ohio. (Sydney Ferguson, Chairman of Board; E. G. Bennett, Pres.; G. S. Douglas, Vice-Pres. and Gen. Mgr.; F. D. Schnacke, Sec.; Stack Smith, Treas. and Asst. Sec.; Geo. Robinson, Asst. Sec.; H. L. Belanger, Compt.; O. C. Christiansen, Supt.; G. C. Eastin, Tech. Dir.; R. H. Sogard, Plant Engr.; H. J. Vanderberghe, Traffic Mgr.) Railroad Siding, Escanaba & Lake Superior R. R. Three 1500-lb. Beaters, one Hydrapulper. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches. Steam. Electricity and Water. Coated Books, Bleached Groundwood Content Uncoated Book Papers and Specialties. 430,000 lbs. 24 hours. GROUND WOOD MILL. Seventeen Grinders and four Wet Machines. Hydro-Electric. Ground Wood. 200,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 90 (128 cu. ft) Cords. Highways, U. S., 2 and 41; State, 35. Phone: Escanaba 348.

Kalamazoo—Kalamazoo Co.

On M. C.; N. Y. C.; Penn.; C. K. & S.; G. T. R. R. Greyhound Bus, 4 miles from Air Port. M. O., Exp., Tel. and Bank.

ALLIED PAPER CORP., Main Office, Prudential Plaza, 140 E. Randolph St., Chicago, Ill., formerly Allied Paper Mills, 1608 Lake St. (Arnold Maremont, Chairman; C. F. Chaplin, Pres. and Dir. of Sales; G. A. Littlefield, Exec. Vice-Pres. c/o Operations; W. A. Kirkpatrick,

ECCO CLAYS
FOR COATING and FILLING
CLAYS
English China Clays Sales Corporation
551 Fifth Ave.—New York

MHI-00059

Vice-Pres. and Tech. Dir.; H. B. Johnston, Vice-Pres. and Chief Engr.; E. J. Gilman, Vice-Pres. and Prod. Mgr.; James McCure, Vice-Pres.; Herman Bernick, Sec.-Treas.; C. J. Wainwright, Sales Mgr.; V. Weaver, Supt.; C. B. Crossley, Asst. Sec.-Treas. C. A. Yonker, Pur. Agt.; O. V. Mason, Traffic Mgr.) KING MILL. S. P., Kalamazoo, Mich. Four 1200-lb. and nine 2000-lb. Beaters and eight Jordans. Improved Washing System. One 120-, one 125-, one 134- and one 144-inch Fourdriniers; widest trimmed sheets, 105, 108, 115 and 128 inches. Width of Super-Calenders, 35 inches min. to 123 inches max. Steam and Electricity. Also Coating Mill. MONARCH MILL. S. P., Kalamazoo, Mich. Six 2400-lb. Beaters, four Jordans, two Improved Washers and five Rotaries. One 124-inch and one 132-inch Fourdriniers; widest trimmed sheets, 110 and 118 inches. Width of Super-Calender, 58 inches. Water, Steam and Electricity. Also Coating Mill. BRYANT MILL. One 137-inch, one 139-inch, one 141-inch, one 154-inch, and one 164-inch Fourdriniers; widest trimmed sheet, 152 inches. Width of Super-Calenders, 60, 64, 70, 90 and 160 inches. Steam and Electricity. Also Coating Mill. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Catalogue, Offset, Map, Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Box Cover, Linings, Roto, Litho, Coating Raw Stock, Bible and Specialties. 600,000 lbs. 24 hours. COATED: Offset, Label, Dull Finish, Folding Enamel, Cover, Varnish Label, Post Card, Gloss Ink Papers, C1S and C2S Enamels, Inserts. 400,000 lbs. 24 hours. SEMI-CHEMICAL AND DE-INKING PULP MILL. Two Digesters. Bleached Semi-Chemical Pulp, 100,000 lbs. 24 hours. (Pulp mill under construction, expected to be in operation, January, 1959.) Highways, U. S., 12 and 131; State, 43 and 96. Phone: FIreside 3-6101.

HAWTHORNE PAPER CO., P. O. Box 906, King Highway. (William Slavin, Pres., Treas. and Gen. Mgr.; Louis J. Slavin, Administrative Vice-Pres.; Fred M. Hodgemire, Vice-Pres. c/o Production; S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and three Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag Bond, Ledger, Bristol, Vellum, Sulphite Text and Cover, Technical Papers, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 100,000 lbs. 24 hours. Highway, U.S., 12, ¼ mile. Phone: FIreside 5-1163.

KALAMAZOO PAPER CO., Main Office, 1210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; B. H. Cooper, Vice-Pres., Dir. Pur.; J. M. Causey, Vice-Pres. and Sales Mgr.; F. B. Curtenius, Sec.-Treas.; Robert W. Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Eight 1500-lb. Beaters, four Jordans, five Rotaries and Washing Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing Equipment on Both Machines. MILL NO. 2. Six 1500-lb Beaters, four Jordans, four Rotaries and Washing Equipment. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing Equipment on both Machines. MILL NO. 3. Four 1500-lb., three 2000-lb. and two 3000-lb. Beaters, one Pulp Master, seven Jordans, one Hydrapulper and Washing Equipment. One 145-inch, one 167-inch and one 180-inch Fourdriniers; tub sizing equipment on 180-inch machine; widest trimmed sheets, 135 inches, 156 inches and 167 inches. Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Label, Music, Drawing, Linings and Hangings. 600,000 lbs. 24 hours. Highway, U. S., 12, 2 miles East; Old U. S. 12 continues from junction as State 96. Phone: FI. 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; F. A. Manske, Pres.; L. L. Hank, Vice-Pres. Mfg.; W. F. Anderson, Vice-Pres. Operations; E. W. Odenwaldt, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Three 1800-lb. HS Beaters, one 150-ton Pulper, and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Steam and Electricity. Gypsum Liner Board Paper, 270,000 lbs. 24 hours. Highway, U. S., 12. Phone: 3-1275.

REX PAPER CO., P. O. Box 751. (Helen R. King, Pres. and Treas.; J. E. Lean, Vice-Pres. Sec. and Gen. Mgr.; A. K. Parker, Vice-Pres.; W. J. Howard, Vice-Pres.; Arthur W. Cole, Supt.; G. R. Haggerson, Chief Chem.; J. G. Ruimveld, Pur. Agt.; N. F. Themins, Traffic Mgr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. Four 1400-lb. J. H. Horne & Sons Beaters, two Horne Jordans, two E. D. Jones Co. Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 113-inch Fourdrinier; widest trimmed sheet, 104½ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book. 60,000 lbs. 24 hours. Also six Machine Coating Mills. Highway, State, 96. Phone: FI. 2-0151.

ST. REGIS PAPER CO. Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.

SUTHERLAND PAPER CO. Main Office, 243 E. Paterson, 13D. (L. W. Sutherland, Chairman; William Race, Pres.; G. E. Graham, Vice-Pres.; A. L. Sherwood, Vice-Pres.; S. A. Angotti, Vice-Pres.; L. W. Sutherland, Jr., Vice-Pres.; J. T. Kirkpatrick, Vice-Pres.; Martin Galbraith, Vice-Pres.; E. W. Smith, Sec.-Treas.; B. C. White, Cont.; D. D. Bachelder, Pur. Agt.; C. L. Fenstermaker, Traffic Mgr.) EAST SIDE PLANT. (Arnold Weller, Supt.) Five Refiners. One Seven Cylinder; widest trimmed sheet, 93 inches Steam and Electricity. Folding Box Boards. 250,000 lbs. 24 hours. NORTH SIDE PLANT. (Glen Sutton, Supt.) Railroad Sidings, C. K. & S. P. R. R. and N. Y. C. R. R. Five 1650-lb. and five 2000-lb. Beaters, one Shartle Beater, six Hydrapulpers and four Hydrafiners, three Continuous Broke Beaters and seventeen Jordans. One 100-inch Six Cylinder, one 116-inch Seven Cylinder and one 132-inch Seven Cylinder and one 154-inch Eight Cylinder; widest trimmed sheets, 92, 102, 120 and 138 inches. Steam and Electricity. White Patent Coated News, Single Manila Lined, Bleached Manila, Mist Gray Lined, News Vat Lined and Plain Chip, Filled, Solid and Double Manila Lined News, Butter Carton, Ice Cream Pail, Oyster Pail and Butter Dish Stock, Mill Blanks and Specialties. 930,000 lbs. 24 hours. Highways, U. S., 12 and 131, 1 mile; State. 43, ½ mile. Phone: Kalamazoo FIreside 3-1651.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Alfred H. Nadelman, Head of Department; Paul V. Sangren, Pres.) Five Experimental Beaters and one Bauer Refiner. One Noble & Wood Sheet Machine, various Sheet Molds. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research.

L'Anse—Baraga Co.

CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago 3, Ill., for executives.) $6,000,000 fiberboard mill under construction. Completion scheduled for 1958.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Trenton Times Corp., Trenton, N. J. (Mrs. James Kerney, Pres.; James Kerney, Jr., Vice-Pres.; Thomas L. Kerney, Treas.; John E. Kerney, Asst. Treas.; Mrs. R. G. Kuser, Sec.; F. S. Hoholik, Gen. Mgr.; W. Hampton, Supt.; M. C. Reid, Chief Engr.; F. J. Kasun, Pur. Agt.) Railroad Sidings, Soo and Ann Arbor R. R. Two 3000-lb. Beaters. One 166-inch Fourdrinier; widest trimmed sheet, 155 inches. Water and Electricity. Groundwood Papers. 170,000 lbs. 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders; six Wet Machines. Water and Electricity. Ground Wood. 124,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood. 60 Cords. Highway, U.S., 2. Phone: Manistique 160.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R. Green Bay and Lake Michigan Steamers.

MARATHON CORP. See Menasha, Wis., for Corporate Officials. (N. H. Foley, Plant Mgr.; Ben K. Guenther, Paper Mill Supt.; John A. Gasperi, Converting Supt.; Martti Lundstrom, Plant Engr.) Six Claflin Refiners, three Jordans and one Hydrapulper. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 152 inches; one 136-inch Yankee Fourdrinier; widest trimmed sheet, 120 inches. Generated Electricity. Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 540,000 lbs. 24 hours. Highways, U. S., 173 and 41. Phone: Menominee 5596.

MARINETTE PAPER CO. Wholly Owned Subsidiary of Scott Paper Co. See Exec. Office, Scott Paper Co., Front and Market Sts., Chester, Pa. (Subsidiaries) for Executive Officers. Principal Office, Marinette, Wis. (Operations Personnel: S. J. Lang, Supt.; for others see Marinette Paper Co., Marinette, Wis.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 38,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 17 Cords. Highway, U. S., 41, ½ mile. Phone: Marinette 2-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run.

CONSOLIDATED PAPER CO., P. O. Box 724. (C. Q. Baron, Pres. and Gen. Mgr.; C. H. R. Johnson, Vice-Pres. in Charge of Mfg.; S. J. Newcomer, Vice-Pres., Treas. and Gen. Sales Mgr.; G. L. Bronson, Vice-Pres.; C. J. Phinney, Vice-Pres.; Kramer Verhoeven, Vice-Pres.; F. H. Bock, Sec.; W. O. Manor, Tech. Dir.; J. C. Ainslie, Chief Engr.; W. L. Cook, Pur. Agt.; Harold Martin, Traffic Mgr.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 600,000 lbs. 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 750,000 lbs. 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; wildest trimmed sheets, 52, 71 and 88 inches. Steam. Straw Board for Corrugating. 250,000 lbs. 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 200,000 lbs. 24 hours. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56, ½ mile West 24A. Phones: Cherry 1-9000 and 1-9004.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (Burton S. Knapp, Pres.; Charles E. Raney, Vice-Pres., Gen. Mgr.

MHI-00060

and Pur. Agt.; G. A. Blum, Sec.-Treas.; Gene L. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Leon Black, Plant Engr.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Seven 1400-lb. Dilts Beaters, two Hydrapulpers, one Dilts Breaker Beater and ten Jordans. Two Wet Machines; widest trimmed sheet, 60 inches; one 68-inch Three Cylinder; widest trimmed sheet, 60 inches; one 78-inch Three Cylinder; widest trimmed sheet, 68 inches, and one 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity. Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 270,000 lbs. 24 hours. Highway, U. S., 24 Phone: CHerry 1-3220.

RIVER RAISIN PAPER CO., 1109 E. Elm Ave. (Charles L. Wood, Pres.; A. J. Goetz, Exec. Vice-Pres.; H. V. Hodge, Vice-Pres. Sales; Fred B. Attwood, Vice-Pres. Mfg.; A. W. Schulte, Sec. and Gen. Sales Mgr.; W. M. Pellot, Treas.; E. F. Hochradel, Dir. of Pur.; Harry L. Lamb, Dir. of Prod.; J. Fuko, Mill Mgr.; C. E. Hanthorn, Chief Engr.; D. Long, Chief Chemist; W. G. Etter, Dir. of Industrial Relations; I. Schmelz, Traffic Mgr.) S. P., at all mills. MILL NO. 2. One 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. One 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. One 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. One 100-ton Dilts Hydrapulper, one 102-inch Two Cylinder Straw Board Machine; widest trimmed sheet, 90 inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials. 800,000 lbs. 24 hours. Highways, U. S., 24, 2 miles, and 25, 1 mile; State, 56. Phone: Monroe, Cherry 1-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

MUNISING PAPER CO., THE, Main Office, 7-120 Merchandise Mart, Chicago. (John R. Kimberly, Pres.; W. R. Kellett, Vice-Pres.; G. K. Crowell, Vice-Pres. and Sec.; W. H. Clifford, Vice-Pres. and Treas.; W. R. Beermon, Mill Mgr.) S. P., at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached Specialties. 160,000 lbs. 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Fiber. 180,000 lbs. 24 hours. Highways, U. S., 41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O. and G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Mill Mgr.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S P. at mill. Railroad Siding. C. & O. R. R. Three 1600-lb. and eleven 1200-lb. Beaters, eight Jordans, four Refiners and seven Pulpers. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Coated Book, English Finish, Lithographic Papers, Eggshell, Offset, Board. 360,000 lbs. 24 hours. SULPHATE PULP MILL. Six Digesters; two Wet Machines. Bleached Sulphate Fiber. 270,000 lbs. 24 hours. Average daily consumption of peeled pulp wood, 240 cords. Highways, U. S., 16 and 31, 5 miles; State, 46. Phone: 51-681.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO. (F. G. French, Pres.; J. E. French, Vice-Pres. and Pur. Agt.; L. F. Kretchman, Sec. and Treas.; H. Nelson, Supt.; R. Fralick, Chief Engr.) Railroad Siding, N. Y. C. R. R. Four Dynapulpers and four Jordans. One 95-inch and one 118-inch Fourdriniers; widest trimmed sheets, 80 and 105 inches. Steam and Electricity. Plain and Embossed Offset, Text, Papeteries, Greetings, Colored Envelope. 100,000 lbs. 24 hours. Highways, U. S., 31 and 112; State, 60. MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; Howard H. Rausch, Paper Mill Supt.; W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 12½ feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase, 1521 h.p. Installed. Sixty-eight motors of 220 and 440 v., 80-lb. Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 30,000 lbs. 24 hours. Highways, U. S., 31-112; State, 60. Phone: Niles 736.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R. M. O., Tel., Bank and Exp. Greyhound Buses. Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER CO., formerly National Container Corp. of Mich. Main Office, 1350 Fullerton Ave., Chicago, Ill. (Alvin Huss, Pres.; Walter Brewer, Vice-Pres.; H. S. Cartwright, Sec.-Treas.; Newton Cuneo, Res. Mgr.; Merlin King, Chief Engr.) Railroad Siding. S. P. at mill. One 2000-lb. Valley Iron Works and two 2000-lb. Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches. Seventy Driers, 48 inches in Diameter and 124 inches wide. One 176-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k. w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures. Cylinder Kraft Liner Board, .009 Corrugating Medium and Bleached Semi-Chem. Food Board. 240,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Five Digesters and one Wet Machine. One Drying Machine, one Pandia-American Defibrator Unit and two Bauer Refiners. Semi-Chemical Pulp, 400,000 lbs. 24 hours of which 300,000 lbs. is bleached. Average daily consumption of peeled birch and maple pulp wood, 200 cords. Highways, U. S., 45, 1 mile; State, 64. Phone: 1.

Otsego—Allegan Co.

On N. Y. C. R. R. M. O., Bank and Exp. Tel. at Kalamazoo. Peoples R. T. and Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (L. W. Dickinson, Pres.; W. E. Hurlbut, Vice-Pres. and Sales Mgr.; M. V. Stowe, Treas.; Walter F. Wolfe, Supt.; Leslie Peck, Tech. Dir. and Chief Chemist; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P at mill. MAC SIM BAR MILL. Fifteen 1200-lb., four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain, Oak, Marble, Burlap Grained Solid Jute Board, Machine Clay Coated News and White Patent Coated News. 600,000 lbs. 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phones: Kalamazoo, FIreside 4-5500; Otsego, OXford 2-6211.

OTSEGO FALLS PAPER MILLS, Div. of Menasha Wooden Ware Corp. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; Roger McVickar, Tech. Dir.; Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 1500-lb. and one 2500-lb. Beaters. One 84-inch and one 110-inch Fourdriniers; widest trimmed sheets, 80 inches and 102 inches. Steam and Electricity. .009 Corrugating, Saturating, Can, Semi-Chemical Wood Pulp Boards. 200,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters. Unbleached Semi-Chemical Fiber. 200,000 lbs. 24 hours. Average Daily Consumption of Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego, OXford 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Charles G. Wood, Pres. and Treas.; Floyd M. Murphy, Jr., Exec. Vice-Pres.; Robert H. Wood, Vice-Pres. and Sec.; Charles R. Ehinger, Supt.; Edward McCormick, Power Plant Supt.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans, One Hydrafiner and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity, Chipboard, Specialties, Building and Insulating. 100,000 lbs. 24 hours. Highway, U. S., 223. Phone: Colfax 5-5174.

Parchment

A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight L. Stocker, Pres.; E. Norval Hunter, First Vice-Pres.; W. Donald Brownell, Vice-Pres.; Robert D. Caine, Vice-Pres.; C. Longford Felske, Vice-Pres. and Treas.; Harold De Weerd, Sec.; F. D. Libby, Corporate Pulp and Paper Consultant; Marshall Rutz, Gen. Supt.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic and Shipping Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. Thirteen Waxing Machines. MILL NO. 1. Three Fibremasters, four 2000-lb., two 2500-lb. Beaters and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, one 3200-lb. Broke Beater, three 2500-lb. Vortex Beaters, ten Majestic Jordans, one Fibremaster, one 2500-lb. Pulpmaster, one 2000-lb. Slushmaker and one Bertram Refiner. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Greaseproof. Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1, 175,000 lbs.; MILL NO. 2, 415,000 lbs. 24 hours. Highways, River Road; U. S., 131 and 12. Phone: 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

HAMILTON PAPER CO., Michigan Div;

formerly Michigan Paper Co. of Plainwell. Main Office, Miquon, Pa. Sales Offices at Miquon, Pa.; New York City, Chicago and Los Angeles. (L. D. Nicolson, Vice-Pres. in Charge; F. L. Brown, Asst. Sec. and Pur. Agt.; Edward W. Jones, Treas.; M. E. Burkheiser, Asst. Treas.; Ray L. Barton, Supt.; John Kauffmann, Chief Engr.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.) Railroad Siding, Penna. R. R. Thirteen 1400-lb. Beaters and seven Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 118 inches. Widest Super-Calender, 80 inches. Water, Steam and Electricity. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers and Poster. 190,000 lbs. 24 hours. Highways, U. S., 131; State, M-89. Phone: MUrray 5-8411.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Pres. and Treas.; Geo. C. Dunn, Exec. Vice-Pres. and Sec.; W. A. Fisher, Vice-Pres.; D. J. Haines, Asst. Treas.; Gladys Fockler, Asst. Sec.; W. W. Carr, Sales Mgr.; L. L. New, Gen. Supt.; W. A. Armstrong, Plant Engr.; D. E. Bonner, Tech. Supv.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R. R. Four 1600-lb. and one 2000-lb. Beaters and two Jordans; three Bleachers, nine Filters, one 16-ft. Hydrapulper, seven Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 126 inches. Electricity: 2,000 K. V. A.; 60 Cycles, 3 Phase, 440 v. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p.s.i. Water Treatment Plant. Sulphite and Sulphate Papers for Bag, Bread Wrapper, Fine Crepe, Diaper Lining, Sales-book, Fruit and Vegetable Wrapping, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Napkin, Absorbent Tissue Excelsior, Machine Coated Opaque, One-time Carbonizing and Other M. G. Bleached and Unbleached Specialties. 75,000 lbs. 24 hours. Highway, U. S., 25, ½ mile. Phone: YUkon 5-5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; O. Seagrave, Pres.; G. F. Durand, Vice-Pres.; B. McFarland, Vice-Pres.; S. L. Bush, Treas.; seph L. Hoolihan, Plant Mgr.; L. T. Summers, c. and Tech. Dir.; W. D. Thompson, Pur. Agt.; J. Janssens, Asst. Sales Mgr.; John Maes, Pa-Mill Supt.; J. Arthur, Asst. Tech. Dir.) Two -inch Yankee Fourdriniers; widest trimmed et, 123 inches; one 140-inch Yankee Fourier; widest trimmed sheet, 128 inches; one inch Fourdrinier, widest trimmed sheet, 122 es. Steam and Electricity. Bag Paper, Bond, d Wrapping, Butter Wraps, Carbon Paper, onizing, Carbonized Rolls, Christmas Paper, ng, Decorative Papers, Locker Paper, M. G. ping and Specialties, Manifold, Onion Skin, Protective Papers, Printed Tissue, Register, Sales-book, Second Sheets, Sulphite Bond, Tissue, Waxed, Waxing, Wrappings, Writing, Carbon Coating, Kraft, Soda Wrapper and Straw, Sulphite Papers. 150,000 lbs. 24 hours.

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ROCHESTER PAPER CO., P. O. Box 185; Mill St. (Paul H. Travis, Pres. and Gen. Mgr.; M. S. Arnold, Vice-Pres. and Pur. Agt.; Gordon Morseth, Vice-Pres. and Plant Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas.; J. Robert Peterson, Sales Mgr.; S. J. Fortune, Supt.; Armand Pepin and Thad Perkins, Asst. Supts.; Irwin L. Taylor, Tech. Dir.) S. P. at mill. Railroad Siding, G. T. R. R. One 1000-lb. Beater and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt, Impregnating and Absorbent Specialties. 25,000 lbs. 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-9851.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port. Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; Ruth Gardner Gumbin, Vice-Pres. and Treas.; Fred Gave, Sr. and Fred Gave, Jr., Supts.; Grover C. Welch, Chief Engr.; Jack Zimler, Pur. Agt.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, five Jordans, seven Screens. One 70-inch Seven Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 750 h. p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure. Coal. White Pat. Coated, Chip Board, News Board, Jute Filled, Solid Jute, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila Lined Chip and Colored Specialties. 130,000 lbs. 24 hours. Highway, U. S., 131, 1½ miles. Phone: VO. 6-9211.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC. Main Office, Box 404. (Paul H. Travis, Pres. and Treas.; Corwin H. Drew, Vice-Pres. and Sales Mgr.; Nathan B. Goodnow, Sec.; Frank H. Pepe, Cont.; Edward F. Boyle, Gen. Supt.; Charles Pearson, Asst. Supt.; Milton J. Frisch, Plant Engr.; John B. Shuman, Pur. Agt.) S. P. at mill. Railroad Siding, N. Y. C. (M) R. R. Two 1000-lb. Beaters, two Refiners, four Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-

Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. Purchased 50% and Generated 50% Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v. 2000 h.p. installed, Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Automotive, Mounting and Food Packaging Boards. 100,000 lbs. 24 hours. Highways, U. S., 131, 1 mile; State, 60, 1 mile. Phone: 3-1015.

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Tel. and Ex. and Gen. Mgr.; Norman Bardeen, Vice-Pres.; A. A. Christian, Vice-Pres. and Sec.; K. A. Warren, Treas.; Arthur Katt, Supt.; John Stroud, Pur. Agt.; Stephen Kukolich, Tech. Dir.) S. P. at mill. Two 1500-lb. and three 1000-lb. Beaters, three Jordans and six Refiners, seven 1000-lb. Washers and four 10,000-lb. Rotaries. One 121½-inch, one 132-inch and one 134-inch Fourdriniers; widest trimmed sheets, 107 inches, 119 inches and 121 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 200,000 lbs. 24 hours. Highways, U. S., 131, 5 miles West; State, M60, 6 miles South. Phone: Vicksburg, MI. 9-5021.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

WATERVLIET PAPER CO. (Subsidiary of Hammermill Paper Co.) (George K. Ferguson, Pres. and Gen. Mgr.; J. D. Zink, Vice-Pres.; R. P. Price, Vice-Pres.; M. E. Graham, Sec.; J. H. De Vitt, Treas.; A. W. Field, Sales Mgr.; V. F. Quigley, Prod. Mgr.; R. T. Trelfa, Plant Mgr.; L. J. Scheid, Supt.; A. H. Hupp, Chief Chem.; Claude Unrath, Chief Engr.; W. P. Jones, Pur. Agt.; John Hanson, Woodlands Mgr.; C. Kelly, Traffic Mgr.) S. P. at mill. Railroad Siding, C. & O.—Pere Marquette Div. Four Jordans, four Refiners, four Screens and three Pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 128 inches. Width of Embossing Equipment, 53 inches. Coated—Book, Offset, One-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 210,000 lbs. 24 hours. SEMI-CHEMICAL PULP MILL. Three Globe Rotary Digesters and two Refiners. Electricity, Half Purchased and Half Generated, 450 h.p. Installed Water Power; Coal; 235 p.s.i. Steam Pressure. Semi-Chemical Fiber, 100,000 lbs. 24 hours. Average Daily Consumption of Peeled Pulp Wood, 70 Cords. Highways, U. S., 12; State, 140. Phone: Watervliet-Ingersoll 3-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O., Exp. and Bank. Nearest Air Port at Three Rivers, Mich. Greyhound Bus Line.

KIECKHEFER-EDDY DIV., WEYERHA SER TIMBER CO., formerly Eddy Paper C Main Office, 919 N. Michigan Ave., Chic (Howard Morgan, Pres.; T. E. Morris, Vice-P and Gen. Mgr.; J. Collett, Sales Mgr.; O. F. F land, Supt.; N. Monroe, Tech. Dir.; Le Roy N baum, Chief Engr.; L. A. Weyrick, Pur. Ag MILL NO. 2. Railroad Siding, N. Y. C. R. Fourteen 1200-lb. Beaters, one 12,000-lb. Breake one 20,000-lb. Hydrapulper and eight Jordan One 100-inch and one 122-inch Seven-Cylinde Machines; widest trimmed sheets, 92 and 11 inches. Generated Electricity, 6000 k.w., 3 phase Coal and Oil. 500 p.s.i. Steam Pressure. Singl and Double Patent Coated News, Clay Coated Folding Box Boards, Single and Double Manila Lined and Bending Chip. 400,000 lbs. 24 hours. Highway, U. S., 112, ½ mile. Phone: 2315.

Ypsilanti—Washtenaw Co.

On N. Y. C.; M. C. R. R. M. O., Tel. and Exp. Nearest Air Port, Willow Run at Detroit.

PENINSULAR PAPER CO. (Daniel T. Quirk, Pres. and Treas.; D. G. Quirk, Vice-Pres.; Mrs. Florence S. Gilmore, Sec.; J. J. Ely, Supt.; Glenn Touse, Chief Chemist; Walter Dice, Maintenance Head; E. C. Robtoy, Traffic Mgr.; W. E. Satterfield, Chief Engr.) S. P. at mill. Four Jordans and two Hydrapulpers. One 65-inch and one 86-inch Fourdriniers; widest trimmed sheets, 58 and 80 inches. Width of Paster, 51 inches. One 40-inch Plater and one 40-inch Embosser. Steam and Electricity, Coal. Cover, Colored Specialties, Sulphite and Bleached Kraft Specialties. 80,000 lbs. 24 hours. Highways, U. S., 112; State, 12 and 17. Phones: 62, 63. Teletype: Ypsilanti, HUnter 2-2600.

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Brainerd—Crow Wing Co.

On N. P. R. R. Tel., Bank, Exp., Air Port and Greyhound Bus.

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Wheelwright—Worcester Co.

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Woronoco—Hampden Co.

On B. & A. R. R. M. O. and Tel.; nearest Bank, Westfield, 6 miles.

STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U. S., 20. Phone: Springfield, Republic 6-8301.

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ABITIBI CORP., Subsidiary of Abitibi Power & Paper Co., Ltd. Main Office, 408 University Ave., Toronto 2, Ont. Head Office, Alpena, Mich. Sales Office, 956 Penobscot Bldg., Detroit, Mich. (D. W. Ambridge, Pres.; P. E. Roberts, Executive Vice-Pres.; F. R. Boynton, Cont.; O. B. Eustis, Mill Mgr.; E. J. Schultz, Gen. Sales Mgr.; A. J. Auden, Woods Mgr.; R. M. Granum, Plant Supt.; C. H. Shepherd, Mfg. Supt.; L. Keller, Finishing Supt.; W. J. Bigham, Personnel Mgr.; P. A. Livingston, Res. Engr.; B. E. Taylor Hardboard Supt.; R. E. Paul, Control Supt.; O. Crews, Master Mechanic; F. X. O'Brien, Power Plant Supt.; C. W. Baldwin, Chief Electrician; T. Blundell, Pur. Agt.; R. Ticknor, Office Mgr.; W. E. Kidd, Traffic Mgr.; J. E. Lamy, Chief Forester.) One 4-ft. and one 13-ft nominal width Fourdriniers. Separate power plant (950 lbs. steam); two-thirds generated and one-third purchased electric power; 60 cycles, 3 phase, 440 v. and 4160 v. Motors. S1S and S2S Hardboards and Insulation Board Products. 200,000,000 sq. ft. annually. PULP MILL. Special Process Woodpulp. Average Daily Consumption of Pulp Wood, 240 Cords. Phone: ALpena 4000.

FLETCHER PAPER CO. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; F. R. Trelfa, Sec.-Treas.; Albert Mausolf, Supt.; Eldred Hall, Chief Chem.; J. A. Reinke, Chief Engr.; R. C. Johnson, 20 N. Wacker Dr., Chicago 6, Ill., Sales Mgr.) Four Refiners, four Jordans, and two Pulpers. Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches. Steam and Electricity. Manifold, Sulphite Bond, Register, Sales Book, Register Bond, Second Sheets, Typewriter, Opaque Bond, Duplicator and Mimeograph. 50 tons 24 hours. Highways, U. S. 23; State, 32. Phone: 3.

Battle Creek—Calhoun Co.

On G. T.; M.; & M. C. R. R. Tel., M. O., Bank, Exp. and Air Port.

MICHIGAN CARTON CO., P. E. Fountain. (F. G. Fell, Chairman and Treas.; Dan Int-Hout, Jr., Pres.; M. Ketting, Vice-Pres.; Dan Int-Hout, Sr., Vice-Pres.; J. J. Harrison, Vice-Pres. Mfg.; C. H. Cameron, Sec.; W. C. Ingerson, Asst. Treas.; Norman Schmitzer, Cont.; H. L. Chorpening, Sales Mgr.; N. A. Pennett and W. J. Shaw, Supts.; W. O. Kroeschell, Tech. Dir.; J. L. Phillips, Chief Engr.; Leo Styer, Pur. Agt.; J. R. Vosburgh, Traffic Mgr.) S. P., at Mill: Railroad Siding, Michigan Cent. and Grand Trunk R. R. MILLS NOS. 1 AND 2. Two 5000-lb. Breaker Beaters, thirteen Jordans, six Refiners, twenty-two Screens, two Filters, six Pulpers, and a Ross Ventilator System. 296 Driers: #1 and 2, 42 inches in diameter, #3, 60 inches in diameter, #1, 108 inches wide, #2, 134 inches wide and #3, 140 inches wide. One 108-inch, Black-Clawson, Seven Cylinder, one 134-inch Beloit Seven Cylinder, and one 140-inch Beloit Eight Cylinder, widest trimmed sheets, 96, 120 and 128 inches. Electricity — Part Purchased and Part Generated. Single Bleached Manila Lined Chip and News, White Patent Coated Solid Manila Back, Double White Patent Coated News, Single and Double Manila Lined Chip, Test Jute Board, Double Bleached Manila Lined Chip or News Center, White Patent Coated News Center Manila Back, White Bleached Sulphite Solid Manila Back, Bleached Sulphite News Center Manila Back, Double Bleached Sulphite Manila Center, Solid Bleached Sulphite, Bending Chip, Kraft Lined Chip, Solid Manila, Plain Chip, White Patent Coated News and Chip and Clay and Machine Coated, 410 tons 24 hours Highways, U. S., 12; State, 78. Phone: WO.—3-5511.

Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes Transportation. M. O., Tel., Bank and Exp. Nearest Air Port, Petosky, Mich.

CHARMIN PAPER PRODUCTS CO. See Main Office, Green Bay, Wis., for officials and grades. (N. Raymaker, Div. Mfg. Supt.; D. Holder, Plant Engr.) S. P., at Mill. Railroad Siding, D. & M. Two 136-inch Fourdriniers: widest trimmed sheet, 124 inches. GROUND WOOD MILL. Three Grinders. Highway, U. S., 27. Phone: 980.

Constantine—St. Joseph Co.

On N. Y. C. R. R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

CONSTANTINE BOARD & PAPER CO. (Frederick G. Weir, Pres. and Sales Mgr.; H. M. Weir, Vice-Pres.; Robert T. Weir, Jr., Sec.-Treas. and Gen. Mgr.; H. E. Reinoehl, Pur. Agt.) FAWN MILL. S. P., at mill. Railroad Siding, N. Y. C. R. R. Four 1000-lb. Beaters, two Pulpers and three Jordans, four Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 96 inches. 36 Driers, 36 inches in Diam., 102 inches wide. Purchased Electricity. 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 50 tons 24 hours. Highway, U. S., 131, 1 mile. Phone: Constantine 4285.

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line; Det. Ter.; G. T.; N. Y. C.; Penn.; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., Detroit Div., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. Main Office, Chester, Pa. For executives, see Main Office. (At Detroit: G. N. Carleton, Vice-Pres.; K. G. Sell, Detroit Sales Mgr.; M. F. Schnaufer, Plant Mgr.; W. A. Kosicki, Plant Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.) Railroad Siding, Mich. Cent. R. R. DELRAY MILL. S. P., at mill. Seventeen 1400-lb. Beaters, seven Jordans and seven Paper Machine Ventilator Systems. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 200 tons 24 hours. SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 162½ tons. 24 hours. Phone: VI. 2-0042.

Filer City—Manistee Co.

On M. & N. E.; Pere Marquette R. R. M. O.; nearest Bank and Tel., Manistee, 2½ miles. Nearest Air Port, Manistee-Blacker.

AMERICAN BOX BOARD CO., FILER CITY DIV. Main Office, 415 Fulton St., E., Grand Rapids 3, Mich. (Walter S. Goodspeed, Pres., G. B. Bonfield, Sr. Vice-Pres.-Gen. Mgr.; Filer City Div.; Robert K. Stolz, Sr., Vice-Pres.-Central Div.; F. W. Oldenburg, Sr.; Vice-Pres. Marketing; G. Dlesk, Vice-Pres. and Resident Mgr. Filer City Div.; K. R. Mull, Vice Pres. Central Div.; J. L. Wilson, Vice-Pres. Marketing; C. F. Raber, Vice-Pres.-Dir. Ind. Rel.: Harrison L. Goodspeed, Sec.; C. C. Boyer, Treas.; R. D. James, Sales Mgr.; D. Elliott, Plant Engr.; J. Challas, Tech. Supt.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S. P., Manistee, Railroad Siding, M. & N. E. R. R. Five Sutherland Refiners, eleven Jordans, five Bleachers, nine Filters and three Pulpers and three Ross Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches wide. Electricity, 17500 k.w., 60 Cycles, 3 Phase, 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper, 400 tons Bleached Kraft Food Board, 150 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Seven Digesters, two B. K. Continuous Dig. Chemipulpers, nine Sprout Waldron Grinders. Steam and Electricity. Semi-Chemical Pulp, 400 tons and Bleached Kraft Pulp, 165 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 2 miles. Phone: Manistee 1500.

Grand Rapids—Kent Co.

On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

AMERICAN BOX BOARD CO. Main Office, 415 Fulton St., E., Grand Rapids, 3. (W. S. Goodspeed, Pres.; Robert K. Stolz, Sr., Vice-Pres. Central Div.; Gordon B. Bonfield, Sr. Vice-Pres. and Gen. Mgr.—Filer City Div.; F. W. Oldenburg, Sr. Vice-Pres. Marketing; G. Dlesk, Vice-Pres. and Resident Mgr. Filer City Div.; K. R. Mull, Vice-Pres. Central Div.; J. L. Wilson, Vice-Pres. Marketing; C. F. Raber, Vice-Pres.-Dir. Ind. Rel.; H. L. Goodspeed, Sec.; C. C. Boyer, Treas.; E. M. Dean, Mgr.; M. Nossaman, Supt.; R. P. Aument, Tech. Dir.; I. P. Nicole, Eng. Mgr.; W. R. Tobin, Sales Mgr.; R. L. Hall, Dir. of Pur.; Wm. Glaske, Gen. Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 200 tons 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile. Phone: GL. 9-4581.

Groos—Delta Co.

On E. & L. S. R. R. Exp., M. O., Tel. and Bank at Escanaba, 6 miles.

ESCANABA PAPER CO. P. O. Address, Escanaba. Subsidiary, The Mead Corp., Dayton, Ohio. (Sydney Ferguson, Chairman of

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iners, eleven Jordans,
and three Pulpers and
Ventilator Systems.
60-inch Fourdriniers;
156 and 160 inches.
Driers, 5 ft. in Di-
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s 24 hours. SEMI-
ULP MILLS Seven
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165 tons 24 hours.
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Kalamazoo—Kalamazoo Co.

On M. C.; N. Y. C.; Penn.; C. K. & S., G. T. R. R. Greyhound Bus, 4 miles from Air Port. M. O., Exp., Tel. and Bank.

ALLIED PAPER CORP., 1608 Lake St. Main Office, Prudential Plaza, 140 E. Randolph St., Chicago, Ill. (Arnold Maremont, Chairman; G. A. Littlefield, Exec. Vice-Pres.; C. F. Chaplin Vice-Pres., H. B. Johnston, Vice-Pres.-Engr.; E. J. Gilman, Vice-Pres. and Bryant Div. Mgr.; James McClure, Vice-Pres.-Mfg.; Herman Bernick, Sec.-Treas.; C. J. Wainwright, Sales Mgr., A. M. Mulder, Mgr. King Div.; H. E. Nelson, Tech. Dir.; C. A. Yonker, Pur. Agt.; O. V. Mason, Traffic Mgr.) KING MILL. S. P., Kalamazoo, Mich. Railroad Sidings: N. Y. C., G. T. W. and P. R. R. Four 1200-lb. and nine 2000-lb. Beaters and eight Jordans. Improved Washing System. Two Screens and six Pulpers. Seven Fourdriniers, widest trimmed sheets, 107, 111, 117 and 130 inches. Width of Super-Calenders, 35 inches min. to 123 inches max. **Also Coating Mill.** MONARCH MILL. S. P., Kalamazoo, Mich. Six 2400-lb. Beaters, four Jordans, two Improved Washers and five Rotaries. Two Fourdriniers; widest trimmed sheets, 111 and 120 inches. Width of Super-Calender, 58 inches. **Also Coating Mill.** BRYANT MILL: Fourteen Beaters, ten Jordans, twelve Refiners, six Pulpers and seven Screens. Five Fourdriniers; widest trimmed sheet, 152 inches. Width of Super Calenders, 60, 64, 70, 90 and 160 inches. **Also Coating Mill.** Purchased Electricity: 5000 k.w.; Generated: 11-500 k.w., 440-2300 v., 60 Cycles, 3 Phase; 37,000 h.p. Installed: Coal; 300, 400, 600 p.s.i. Steam Pressure. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Catalogue, Offset; Map Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Box Cover, Lining, Roto, Litho Coating Raw Stock, Bible and Specialties. 300 tons 24 hours. COATED: Offset, Label, Dull Finish, Folding Enamel Cover, Varnish Label, Post Card, Gloss Ink Papers. C1S and C2S Enamels, Inserts. 200 tons 24 hours. SEMI-CHEMICAL AND DEINKING PULP MILL. Two Digesters. Bleached Semi-Chemical Pulp, 100 tons 24 hours. (Pulp mill under construction, expected to be in operation in 1960.) Highways, U. S., 12 and 131; State, 43 and 96. Phone: Fireside 5-7131.

HAWTHORNE PAPER CO., P. O. Box 906, King Highway. (William Slavin, Pres., Treas. and Gen. Mgr.; Louis J. Slavin, Administrative Vice-Pres.; Fred M. Hodgemire, Vice-Pres. c/o Production; S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent, Mimeograph, Duplicator, Bristol, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength, Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 250 tons 24 hours. Highway, U. S., 12, ¼ mile. Phone: FIreside 5-1163.

KALAMAZOO PAPER CO., Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; B. H. Cooper, Vice-Pres., Dir. Pur.; J. M. Causey, Vice-Pres. and Sales Mgr.; F. B. Curtenius, Sec.-Treas.; Robert W. Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Eight 1500-lb. Beaters, four Jordans, five Rotaries and Washing Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing Equipment on Both Machines. MILL NO. 2. Six 1500-lb Beaters, four Jordans, four Rotaries and Washing Equipment. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches Tub Sizing Equipment on both Machines. MILL NO. 3. Four 1500-lb., three 2000-lb. and two 3000-lb. Beaters, one Pulp Master, seven Jordans, one Hydrapulper and Washing Equipment. One 145-inch, one 167-inch and one 180-inch Four-

FOR COATING and FILLING
CLAYS
ECCO CLAYS
English China Clays Sales Corporation
551 Fifth Ave.—New York

for TRAINERS

MHI-00064

driniers; tub sizing equipment on 180-inch machine; widest trimmed sheets, 135 inches, 156 inches and 167 inches. (145-inch Fourdrinier is temporarily idle.) Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Label, Music, Drawing, Linings and Hangings. 300 tons 24 hours. Highway, U. S., 12, 2 miles East; Old U. S. 12 continues from junction as State 96. Phone: FI. 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; F. A. Manske, Pres.; L. L. Hank, Vice-Pres. Mfg.; W. F. Anderson, Vice-Pres. Operations; E. W. Odenwaldt, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Three 1800-lb. HS Beaters, one 150-ton Pulper, and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Steam and Electricity. Gypsum Liner Board Paper, 135 tons 24 hours. Highway, U. S., 12. Phone: 3-1275

REX PAPER CO. P. O. Box 751. (Helen R. King, Pres. and Treas.; J. E. Lean, Vice-Pres. Sec. and Gen. Mgr.; A. K. Parker, Vice-Pres.; Arthur W. Cole, Supt.; G. R. Haggerson, Chief Chem.; J. G. Ruimveld, Pur. Agt.; N. F. Themins, Traffic Mgr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. Four 1400-lb. J. H. Horne & Sons Beaters, two Horne Jordans, two E. D. Jones Co. Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 113-inch Fourdrinier; widest trimmed sheet, 104½ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book. 30 tons 24 hours. Also six Machine Coating Mills, Highway, State, 96. Phone: FI. 2-0151.

ST. REGIS PAPER CO. Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.

SUTHERLAND PAPER CO. Main Office, 243 E. Paterson, 13D. (L. W. Sutherland, Chairman; William Race, Pres.; A. L. Sherwood, Vice-Pres.; S. A. Angotti, Vice-Pres.; L. W. Sutherland, Jr., Vice-Pres.; J. T. Kirkpatrick, Vice-Pres.; Martin Galbraith, Vice-Pres.; E. W. Smith, Sec.-Treas., M. C. White, Cont.; D. D. Bachelder, Pur. Agt.; C. L. Fenstermaker, Traffic Mgr.) EAST SIDE PLANT. (Arnold Weller, Supt.) Five Refiners. One Seven Cylinder, widest trimmed sheet, 93 inches. Steam and Electricity. Folding Box Boards. 125 tons 24 hours. NORTH SIDE PLANT. (Glen Sutton, Supt.) Railroad Sidings, C. K. & S. P. R. R and N. Y. C. R. R. Five 1650-lb and five 2000-lb. Beaters, one Shartle Beater, six Hydrapulpers and four Hydrafiners, three Continuous Broke Beaters and seventeen Jordans. One 100-inch Six Cylinder, one 116-inch Seven Cylinder and one 132-inch seven Cylinder and one 154-inch Eight Cylinder; widest trimmed sheets, 92 102, 120 and 138 inches. Steam and Electricity. Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Hot Waxed and Cold Water Waxed Grades. 465 tons 24 hours. Highways, U. S., 12 and 131, 1 mile; State, 43, ½ mile. Phone: Kalamazoo, FIreside 3-1651.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Alfred H. Nadelman, Head of Department; Paul V. Sangren, Pres.) Five Experimental Beaters and one Bauer Refiner. One Jones Midget Jordan and two Pulpers. One Noble & Wood Sheet Machine, various. Sheet Molds. One Pilot Stock Preparation System. One 24-inch Pilot Fourdrinier with Size Press; widest trimmed Sheet, 20 inches. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research. Purchased Electricity. From 25 point Fourdrinier Board to Lightweight Tissue. 2½ tons 24 hours. Phone: FIreside 9-2611.

L'Anse—Baraga Co.

CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago 3, Ill., for executives.) $6,000,000 fiberboard mill under construction. Completion scheduled for 1959.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Trenton Times Corp., Trenton, N. J. (Mrs. James Kerney, Pres.; James Kerney, Jr., Vice-Pres.; Thomas L. Kerney, Treas.; John E. Kerney, Asst. Treas.; Mrs. R. G. Kuser, Sec.; F. S. Hoholik, Gen. Mgr.) Railroad Sidings, Soo and Ann Arbor R. R. Three 1000-lb. Beaters. One 166-inch Fourdrinier; widest trimmed sheet, 155 inches. Water and Electricity. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 85 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders Water and Electricity. Ground Wood. 62 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 60 Cords. Highway, U. S., 2. Phone: Manistique 160.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R Green Bay and Lake Michigan Steamers.

MARATHON DIV., American Can Co. See Menasha, Wis., for Corporate Officials. (N. H Foley, Plant Mgr.; Ben K. Guenther, Paper Mill Supt.; John A. Gasperi, Converting Supt.; Martti Lundstrom, Plant Engr.) Six Clafin Refiners, three Jordans and one Hydrapulper. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 154 inches. One Yankee Fourdrinier; wid-

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Monroe—Monroe

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CONSOLIDAT
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MONROE PA
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TRAINERS

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Ann A R. R.

& PAPER CO. Main
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Six Magazine Grinders
Ground Wood. 62 tons
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Co.
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Michigan Steamers

American Can Co. See
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. Guenther, Paper Mill
Converting Supt; Martin
) Six Clafin Refiners.
Hydrapulper. One 164-
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est trimmed sheet, 128 inches. Generated Electricity. Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 262½ tons 24 hours. Highways, U. S., 173 and 41. Phone: Menominee 5596.

MARINETTE PAPER CO. Wholly Owned Subsidiary of Scott Paper Co. See Exec. Office, Scott Paper Co., Front and Market Sts., Chester, Pa. (Subsidiaries) for Executive Officers. Principal Office, Marinette, Wis. (Operations Personnel: S. J. Lang, Supt.; for others see Marinette Paper Co., Marinette, Wis.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 19 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 17 Cords. Highway, U. S., 41, ½ mile. Phone: REdwood 5-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run.

CONSOLIDATED PAPER CO., P. O. Box 724. (C. Q. Baron, Pres. and Gen. Mgr.; C. H. R. Johnson, Vice-Pres. in Charge of Mfg.; S. J. Newcomer, Vice-Pres., Treas. and Gen. Sales Mgr.; G. L. Bronson, Vice-Pres.; C. J. Phinney, Vice-Pres.; Kramer Verhoeven, Vice-Pres.; F. H. Bock, Sec.; W. O. Manor, Tech. Dir.; J. C. Ainslie, Chief Engr.; T. E. Clark, Pur. Agt.; Harold Martin, Traffic Mgr.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 300 tons 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 375 tons 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets., 52, 71 and 88 inches. Steam. Straw Board for Corrugating. 125 tons 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 100 tons 24 hours. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56, ½ mile West 24A. Phones: Cherry 1-9000 and 1-9004.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (Burton S. Knapp, Pres.; Charles E. Raney, Vice-Pres., Gen. Mgr. and Pur. Agt.; G. A. Blum, Sec.-Treas.; Gene L. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Leon Black, Plant Engr.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Seven 1400-lb. Dilts Beaters, two Hydrapulpers, one Dilts Breaker Beater and ten Jordans. Two Wet Machines; widest trimmed sheet, 60 inches; one 68-inch Three Cylinder; widest trimmed sheet, 60 inches; one 78-inch Three Cylinder; widest trimmed sheet, 68 inches, and one 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity. Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 135 tons 24 hours. Highway, U. S., 24 Phone: CHerry 1-3220.

RIVER RAISIN PAPER CO., 1109 E. Elm Ave. (Charles L. Wood, Chairman of Board and Pres.; A. J. Goetz, Exec. Vice-Pres.; A. W. Schulte, Vice-Pres.-Sales and Sec.; Fred B. Attwood, Vice-Pres. Mfg.; H. V. Hodge, Vice-Pres.; W. M. Pellot, Treas.; E. F. Hochradel, Dir. of Pur.; J. Fuko, Mill Mgr.; C. E. Hanthorn, Chief Engr.; D. Long, Chief Chemist; W. G. Etter, Dir. of Industrial Relations; I. Schmelz, Traffic Mgr.) S. P., at all mills. MILL NO. 2. One 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. One 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. One 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. One 100-ton Dilts Hydrapulper, one 102-inch Two Cylinder Board Machine; widest trimmed sheet, 90 inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials. 400 tons 24 hours. Highways, U. S., 24, 2 miles, and 25, 1 mile; State, 56. Phone: Monroe, Cherry 1-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

MUNISING PAPER CO., THE, Main Office, 7-120 Merchandise Mart, Chicago. (John R. Kimberly, Pres.; W. R. Kellett, Vice-Pres.; G. K. Crowell, Vice-Pres. and Sec.; W. H. Clifford, Vice-Pres. and Treas.; W. R. Beerman, Mill Mgr.) S. P., at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 80 tons 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Pulp, 90 tons 24 hours. Highways, U. S., 41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O. and G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Mill Mgr.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P. at mill. Railroad Siding. C. & O. R. R. Three 1600-lb. and eleven 1200-lb. Beaters, eight Jordans, four Refiners and seven Pulpers. Two 115-inch, one 121-inch and

MHI-00066

one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Coated Book, English Finish, Lithographic Papers, Eggshell, Offset, Board. 180 tons 24 hours. SULPHATE PULP MILL. Six Digesters; two Wet Machines. Bleached Sulphate Pulp, 135 tons 24 hours. Average daily consumption of peeled pulp wood, 240 cords. Highways, U. S., 16 and 31, 5 miles; State, 46. Phone: 51-681.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO. (F. G. French, Pres.; J. E. French, Vice-Pres. and Pur. Agt.; L. F. Kretchman, Sec. and Treas.; T. Friedrich, Gen. Supt.; R. Fralick, Chief Engr.) Railroad Siding, N. Y. C. R. R. Four Dynapulpers and four Jordans. One 95-inch and one 118-inch Fourdriniers; widest trimmed sheets, 80 and 105 inches. Steam and Electricity. Plain and Embossed Offset, Text, Papeteries, Greetings, Colored Envelope. 50 tons 24 hours. Highways, U. S., 31 and 112; State, 60. MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: Howard H. Rausch, Paper Mill Supt.; W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 12½ feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase. 1521 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue 15 tons 24 hours. Highways, U. S., 31-112; State, 60 Phone: Niles, MUtual 3-4100.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R M. O., Tel., Bank and Exp. Greyhound Buses. Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER CO., formerly National Container Corp of Mich Main Office, 1350 Fullerton Ave., Chicago, Ill. (Alvin Huss, Pres.; Walter Brewer, Vice-Pres.; H. S. Cartwright, Sec.-Treas.; Newton Cuneo, Res. Mgr.; Merlin King, Chief Engr.) Railroad Siding. S. P. at mill. One 2000-lb. Valley Iron Works and two 2000-lb. Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches. Seventy Driers, 48 inches in Diameter and 124 inches wide. One 176-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k. w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures. Cylinder Kraft Liner Board, .009 Corrugating Medium and Bleached Semi-Chem. Food Board. 120 tons 24 hours. SEMI-CHEMICAL PULP MILL. Five Digesters and on Wet Machine. One Drying Machine, one Pandia-American Defibrator Unit and two Bauer Refiners. Semi-Chemical Pulp, 200 tons 24 hours of which 150 tons are bleached. Average daily consumption of peeled birch and maple pulp wood, 200 cords. Highways, U. S., 45, 1 mile; State, 64. Phone: 1.

Otsego—Allegan Co.

On N. Y. C. R. R. M. O., Bank and Exp. Tel. at Kalamazoo. Peoples R. T. and Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (L. W. Dickinson, Pres.; W. E. Hurlbut, Vice-Pres. and Sales Mgr.; M. V. Stowe, Treas.; Leslie Peck, Supt.; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P. at mill. MAC SIM BAR MILL. Fifteen 1200-lb. four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain, Oak, Marble, Burlap Grained Solid Jute Board, Machine Clay Coated News and White Patent Coated News. 300 tons 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

OTSEGO FALLS PAPER MILLS, Div. of Menasha Wooden Ware Corp. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; Roger McVickar, Tech. Dir.; Joseph Cutro, Chief Engr., R. C. Beveridge, Pur. Agt and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 1500-lb. and one 2500-lb. Beaters. One 84-inch and one 110-inch Fourdriniers; widest trimmed sheets, 80 inches and 102 inches. Steam and Electricity. .009 Corrugating, Saturating, Can, Semi-Chemical Wood Pulp Boards. 120 tons 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters Unbleached Semi-Chemical Pulp, 120 tons 24 hours. Average Daily Consumption of Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego, OXford 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Charles G. Wood, Pres. and

Treas.; Floyd M
Robert H. Wood.
Ehinger, Supt.; Edw
Supt.) One 16-ft. C.
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Parchment

A suburb of K

KALAMAZOO
CO. (A. Southon,
L. Stocker, Pres.;
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D. Caine, Vice-Pr
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sheets, 104
6000-lb. and one
2500-lb. Horne B
Beaters, four 200
Beaters, one 3200-l
Vortex Beaters, ten
master, one 2500-
Slushmaker and
inch Bagley & Sew
sheet, 148 inches;
drimer; widest trim
139-inch Yankee
sheet, 126 inches.
le-f, Waxing, W
Greaseproof. Bon
Paper Specialties
MILL NO. 2, 20
River Road; U. S.,

Plainwell—Allegan

On P. R. R.
and Tel.

HAMILTON P
formerly Michigan
Office, Miquon, P
Pa., New York C
(L. D. Nicolson,
Brown, Asst. Sec.
heiser, Asst. Treas
Kauffmann, Chief
Chemist; Harold C
road Siding, Pen
Beaters and seven
two 130-inch Four
98 inches and 12

MHI-00067

Treas.; Floyd M. Murphy, Jr., Exec. Vice-Pres.; Robert H. Wood, Vice-Pres. and Sec.; Charles R. Ehinger, Supt.; Edward McCormick, Power Plant Supt.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans. One Hydrafiner, three Screens and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated, 60 Cycles, 3 Phase; Coal; 200 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating. 50 tons 24 hours. Highway, U. S., 223. Phone: Colfax 5-5174.

Parchment

A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight L. Stocker, Pres.; E. Norval Hunter, First Vice-Pres.; W. Donald Brownell, Vice-Pres.; Robert D. Caine, Vice-Pres.; C. Longford Felske, Vice-Pres. and Treas.; Harold De Weerd, Sec.; F. D. Libby, Corporate Pulp and Paper Consultant; Marshall Rutz, Gen. Supt.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic and Shipping Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. Thirteen Waxing Machines. MILL NO. 1. Three Fibremasters, four 2000-lb., two 2500-lb. Beaters and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, one 3200-lb. Broke Beater, three 2500-lb. Vortex Beaters, ten Majestic Jordans, one Fibremaster, one 2500-lb. Pulpmaster, one 2000-lb. Slushmaker and one Bertram Refiner. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterlef, Waxing, Waxed, Vegetable Parchment, Greaseproof, Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1, 87½ tons. MILL NO. 2, 207½ tons 24 hours. Highways, River Road; U. S., 131 and 12. Phone: 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

HAMILTON PAPER CO., Michigan Div.; formerly Michigan Paper Co. of Plainwell. Main Office, Miquon, Pa. Sales Offices at Miquon, Pa.; New York City, Chicago and Los Angeles. (L. D. Nicolson, Vice-Pres. in Charge; F. L. Brown, Asst. Sec. and Pur. Agt.; M. E. Burkheiser, Asst. Treas.; Ray L. Barton, Supt.; John Kauffmann, Chief Engr.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.) Railroad Siding, Penna. R. R. Thirteen 1400-lb. Beaters and seven Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches. Widest Super-Calender, 80 inches. Water, Steam and Electricity. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers and Post. 95 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: MUrray 5-8411.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Chairman of Board and Treas.; Geo. C. Dunn, Pres. and Sec.; W. A. Fisher, Vice-Pres.; D. J. Haines, Asst. Treas.; Gladys Fockler, Asst. Sec.; W. W. Carr, Sales Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R. R. Two Jordans, nine Filters, two one-ton Pulpers, eight Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 inches. Electricity: 2,000 K.V.A.; 60 Cycles, 3 Phase, 440 v.. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p.s.i. Water Treatment Plant. Sulphite and Sulphate Papers for Bag, Bread Wrapper, Fine Crepe, Diaper Lining, Salesbook, Fruit and Vegetable Wrapping, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Napkin, Absorbent Tissue Excelsior, One-time Carbonizing and Other M. G. Bleached and Unbleached Specialties in Jumbo Rolls Only. 36 tons 24 hours. Highway, U. S., 25, ½ mile. Phone: YUkon 5-5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; G. F. Durand, Pres.; F. B. McFarland, Vice-Pres.; J. L. Hoolihan, Vice-Pres.; R. S. Smeltzer, Sec.-Treas.; Fred Phare, Pur. Agt.; E. J. Janssens, Sales Mgr.; E. G. Donovan, Asst. Sales Mgr.; John Maes, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; Carl Roglitz, Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 140-inch Yankee Fourdrinier; widest trimmed sheet, 128 inches; one 132-inch Fourdrinier, widest trimmed sheet, 122 inches. Steam and Electricity. Bag Paper, Bond, Carbon Coating, Carbon Paper, Carbonizing, Carbonized Rolls, Coil Winding, Creping, Foil Mounting, Kraft, M. G. Wrapping and Specialties, Manifold, Onion Skin, Register, Salesbook, Soda Wrapper and Straw, Sulphite Bond, Sulphite Papers, Tissue Waxing, Wet Strength Specialties; Wrappings, and Writing. 67½ tons 24 hours.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO., P. O. Box 185; Mill St. (Paul H. Travis, Pres. and Gen. Mgr.; M. S. Arnold, Vice-Pres. and Pur. Agt.; Gordon Morseth, Vice-Pres. and Plant Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas.; S. J. Fortune, Supt.; Thad Perkins, Asst. Supt.; Irwin L. Taylor, Tech. Dir.; Charles T. Briggs, Chief Eng.) S. P. at mill. Railroad Siding, G. T. R. R. One

MHI-00068

1000-lb. Beater, one E. D. Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt, Impregnating and Absorbent Specialties. 12½ tons 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-9851.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port. Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; Ruth Gardner Gumblin, Vice-Pres.; Judith Rose, Treas.; Robert Rose, Sales Mgr.; Fred Gave, Sr. and Fred Gave, Jr., Supts; Edward Gave, Night Supt.; Grover C. Welch, Chief Engr.; Jack Zimler, Pur. Agt.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, seven Jordans, seven Screens. One 70-inch Seven Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 750 h. p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure. Coal. White Pat. Coated, Chip Board, News Board, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila Lined Chip, Mist Grey, Kraft Lined, Solid Kraft and Colored Specialties. 75 tons 24 hours. Highway, U. S., 131, 1½ miles. Phone: VO. 6-9211.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC. Main Office, Box 404. (Paul H. Travis, Pres. and Treas.; Corwin H. Drew, Vice-Pres. and Sales Mgr.; Nathan B. Goodnow, Sec.; Frank H. Pepe, Cont.; Edward F. Boyle, Gen. Supt.; Charles Pearson, Asst. Supt.; Milton J. Frisch, Plant Engr.; John B. Shuman, Pur. Agt.) S. P. at mill. Railroad Siding, N. Y. C. (M) R. R. Two 1000-lb. Beaters, two Refiners, four Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. Purchased 50% and Generated 50% Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v. 2000 h.p. installed, Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Automotive, Mounting and Food Packaging Boards. 50 tons 24 hours. Highways, U. S., 131, 1 mile; State, 60, 1 mile. Phone: 3-1015. (In Bankruptcy, Walter I. McKenzie, Joseph C. Murphy and Harry G. Hackett, Referees.)

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Tel. and Ex.

LEE PAPER CO. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres.; A. A. Christian, Vice-Pres. and Sec.; K. A. Warren, Treas.; Arthur Katt, Supt.; John Stroud, Pur. Agt.; Stephen Kukolich, Tech. Dir.) S. P. at mill. Two 1500-lb. and three 1000-lb. Beaters, three Jordans and six Refiners, seven 1000-lb. Washers and four 10,000-lb. Rotaries. One 121½-inch, one 132-inch and one 134-inch Fourdriniers; widest trimmed sheets, 107 inches, 119 inches and 121 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 100 tons 24 hours. Highways, U. S., 131, 5 miles West; State, M60, 6 miles South. Phone: Vicksburg, MI 9-5201.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

WATERVLIET PAPER CO. Subsidiary of Hammermill Paper Co. (D. S. Leslie, Pres.; F. E. Bahrenburg, Exec. Vice-Pres. and Gen. Mgr.; J. D. Zink, Vice-Pres.; R. P. Price, Vice-Pres.; M. E. Graham, Sec.; J. H. De Vitt, Treas.; H. W. Parnass, Sales Mgr., V. F. Quigley, Prod. Mgr.; R. T. Trelfa, Plant Mgr.; L. J. Scheid, Chief Engr.; J. C. Tongren, Tec. Dir.; W. P. Jones, Pur Agt.; John Hanson, Woodlands Mgr.) S. P. at mill. Railroad Siding, C. & O.—Pere Marquette Div. Four Jordans, four Refiners, four Screens and three Pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 127 inches. Width of Embossing Equipment, 53 inches. Coated—Book, Offset, One-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 105 tons 24 hours. SEMI-CHEMICAL PULP MILL. Three Globe Rotary Digesters and two Refiners. Electricity, Half Purchased and Half Generated, 450 h.p. Installed Water Power; Coal; 235 p.s.i. Steam Pressure. Semi-Chemical Pulp. 50 tons 24 hours. Highways, U. S., 12; State, 140. Phone: Watervliet-Ingersoll 3-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O., Exp. and Bank. Nearest Air Port at Three Rivers, Mich. Greyhound Bus Line.

KIECKHEFER-EDDY DIV., WEYERHAEUSER TIMBER CO., formerly Eddy Paper Corp. Main Office, 919 N. Michigan Ave., Chicago. (Howard Morgan, Pres.; T. E. Morris, Vice-Pres. and Gen. Mgr.; J. Collett, Sales Mgr.; O. F. Flatland, Supt.; N. Monroe, Tech. Dir.; Le Roy Nusbaum, Chief Engr.; L. A. Weyrick, Pur. Agt.) MILL NO. 2. Railroad Siding, N. Y. C. R. R. Fourteen 1200-lb. Beaters, one 12,000-lb. Breaker, one 20,000-lb. Hydrapulper and eight Jordans. One 100-inch and one 122-inch Seven-Cylinder Machines; widest trimmed sheets, 92 and 110 inches. Generated Electricity, 6000 k.w., 3 phase. Coal and Oil. 500 p.s.i. Steam Pressure. Single and Double Patent Coated News, Clay Coated Folding Box Boards, Single and Double Manila

Lined and Ber
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Ypsilanti—Wast

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Cloquet—Carlton

On G. N.;
N. E. R. R.
Port, Duluth.

NORTHWEST
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R. Boquist, Tre
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and Asst. Com
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mazoo Co.

enn. R. R. M. O., Tel. and Ex.

CO. (Maxwell D. Bardeen, Pres. ; Norman Bardeen, Vice-Pres.; Vice-Pres. and Sec.; K. A. Warthur Katt, Supt.; John Stroud, ien Kukolich, Tech. Dir.) S. P. 00-lb. and three 1000-lb. Beaters, nd six Refiners, seven 1000-lb. r 10,000-lb. Rotaries. One 121½-h and one 134-inch Fourdriniers; sheets, 107 inches, 119 inches Steam and Electricity. Rag Bond : and Sulphite Text and Cover, ums, Specialty Papers. 100 tons vays, U. S., 131, 5 miles West; niles South. Phone: Vicksburg,

en Co.

R. R. Bank and Exp. Air Port rbor.

PAPER CO. Subsidiary of er Co. (D. S. Leslie, Pres.; F. xec. Vice-Pres. and Gen. Mgr.; -Pres.; R. P. Price, Vice-Pres.; Sec.; J. H. De Vitt, Treas.; H. s Mgr., V. F. Quigley, Prod. lfa, Plant Mgr.; L. J. Scheid, C. Tongren, Tec. Dir.: W. P. John Hanson, Woodlands Mgr.) ailroad Siding, C. & O.—Pere Four Jordans, four Refiners. l three Pulpers. One 124-inch Fou ers; widest trimmed s an l inches. Width of nent, 5 inches. Coated—Book. Litho, Cover and Post Card: ock and Offset. 105 tons 24 EMICAL PULP MILL. Three esters and two Refiners. Elec-nased and Half Generated, 450 ater Power; Coal; 235 p.s.i. Semi-Chemical Pulp. 50 tons vays, U. S., 12; State, 140. -Ingersoll 3-3141.

Joseph Co.

R. R. M. O., Exp. and Bank. Port at Three Rivers, Mich. Line.

EDDY DIV., WEYERHAEU-., formerly Eddy Paper Corp. N. Michigan Ave., Chicago. Pres.; T. E. Morris, Vice-Pres. Collett, Sales Mgr.; O. F. Flatnroe, Tech. Dir.; Le Roy Nus-; L. A. Weyrick, Pur. Agt.) ilroad Siding, N. Y. C. R. R. eaters, one 12,000-lb. Breaker, drapulper and eight Jordans. one 122-inch Seven-Cylinder trimmed sheets, 92 and 110 Electricity, 6000 k.w., 3 phase. p.s.i. Steam Pressure. Single Coated News, Clay Coated s, Single and Double Manila

Lined and Bending Chip. 200 tons 24 hours. Highway, U. S., 112, ½ mile. Phone: 2315.

Ypsilanti—Washtenaw Co.

On N. Y. C.; M. C. R. R. M. O., Tel. and Exp. Nearest Air Port, Willow Run at Detroit.

PENINSULAR PAPER CO. (Daniel T. Quirk, Pres. and Treas.; D. G. Quirk, Vice-Pres.; Mrs. Florence S. Gilmore, Sec.; J. J. Ely, Supt.; Glenn Touse, Chief Chemist; Walter Dice, Maintenance Head; E. C. Robtoy, Traffic Mgr.) S. P. at mill. Two Hydrapulpers. One 65-inch and one 86-inch Fourdriniers; widest trimmed sheets, 58 and 80 inches. Width of Paster, 51 inches. One 40-inch Plater and one 40-inch Embosser. Steam and Electricity, Coal. Cover, Colored Specialties, Sulphite and Bleached Kraft Specialties. 40 tons 24 hours. Highways, U. S., 112; State, 12 and 17. Phone: HUnter 2-2600. Teletype: Ypsilanti 40.

MINNESOTA

Brainerd—Crow Wing Co.

On N. P. R. R. Tel., Bank, Exp., Air Port and Greyhound Bus.

NORTHWEST PAPER CO., THE. General Office, Cloquet. (See Cloquet for Officers and Department Managers. Leo J. Gayou, Resident Mill Mgr.; Earl W. Wolleat, Asst. to Resident Mill Mgr. and Supt. of Paper Mfg.) Railroad Siding, N. P. R. R. Two Hydrapulpers, two Broke Beaters, two Jordans and one Clafin. One 128-inch Fourdrinier; widest trimmed sheet, 114 inches. Stream and Hydro-Electricity. Bond, Register, Book, Bristol, Coating Raw Stock, Cup Paper, Drawing, Duplicator, Envelope, Label, Ledger, Mimeograph, Offset, Text, Cover, Papeterie, Post Card, Special Converting Papers, Tablet, Writing, Adding Machine, Map Bond, Poster, Lining, Gumming and Embossed-Cover, Text and Offset. 85 tons 24 hours. Highways, U. S., 210 and 371; State, 18. Phone: Brainerd 2818.

Cloquet—Carlton Co.

On G. N.; N. P.; C. M. & St. P.; D. & N. E. R. R. M. O., Tel., Bank and Ex. Air Port, Duluth. Greyhound Bus.

NORTHWEST PAPER CO., THE. (John M. Musser, Chairman of Board; Harry T. Kendall, Jr., Pres.; B. W. McEachern, Vice-Pres. and Mgr. of Sales; Mace V. Harris, Vice-Pres. and Mgr. of Operations; Roy I. Nilsen, Vice-Pres. and Mgr. of Mfg.; Lloyd N. Benson, Sec.; A. R. Boquist, Treas. and Compt.; Wm. M. MacConnachie, Jr., Asst. Sec. and Mgr. of Lands and Timber; Clarence W. Jensen, Asst. Treas. and Asst. Compt.; R. E. Norens, Asst. Mgr. of Mfg.; Roy Hella, Mgr. Pulp Mfg. Warren C. Johnson, Mgr. Paper Mfg.; Joe J. Jenkins, Sales Representative; F. C. Schroeder, Mgr. Tech. Serv. Dept.; E. C. Gamble, Mgr. Mech. Service Dept.; Philip W. Budd, Mgr. Sales Serv. Finishing and Shipping; Glenn J. Ayres, Mgr. Industrial Service; L. V. Blinn, Mgr. Purchases; W. D. Brown, Traffic Mgr.) S. P. at mill. Four Hydrapulpers, six Broke Beaters, ten Jordans and five Claflins. One 100-inch, one 123-inch, one 124-inch and one 213-inch Fourdriniers; widest trimmed sheets, 86, 106, 108 and 194 inches. Bond, Register, Book, Bristol, Coating Raw Stock, Cup Paper, Drawing, Duplicator, Envelope, Label, Ledger, Mimeograph, Offset, Text, Cover, Papeterie, Post Card, Special Converting Papers, Tablet, Writing, Adding Machine, Map Bond, Poster, Lining, Gumming and Embossed: Cover, Text and Offset. 315 tons 24 hours. SULPHITE MILL. Three Digesters, four Wet Machines. Bleached Sulphite Pulp, 100 tons 24 hours. ALKALINE PULP MILL. Seven Digesters and three Wet Machines. Bleached Soda Pulp, 80 tons 24 hours and Bleached Sulphate Pulp. 120 tons 24 hours. Hydro and Steam Electricity plus Steam Power. Highways State, 33 and 45. Phone: Cloquet: TRiangle 9-6794.

WOOD CONVERSION CO. Main Office, 1900 First National Bank Bldg., St. Paul 1, Minn. (E. W. Davis, Pres.; D. M. Pattie, Exec. Vice-Pres.; M. S. Wolf, Vice-Pres. Sales; A. L. Spafford, Vice-Pres. Mfg.; D. E. Hinton, Sec.; W. B. Lincoln, Treas.; H. E. Walter, Prod. Mgr.; P. J. McGervey, Tech. Dir.; P. Wagtskjold, Mgr. of Engr. and Const.; W. E. Walsh, Pur. Agt.; W. D. Brown, Traffic Mgr.) S. P. at mill. Railroad Siding, N. P. BOARD MILL: One 113-inch and one 169-inch Fourdriniers for Insulation and Decorative Board, Tile, Plank, Sheathing, Roof, Insulation and Industrial Board with a capacity of 750,000 sq. ft. per 24 hours; widest trimmed sheets, 102 and 157 inches. Two Machine Coating Units. BALSAM-WOOL MILL: Two Shredders and twelve Hammermills. One 114-inch Forming Unit and Drier, 110-inch trim for Sealed House Insulation with a capacity of 1,375,000 sq. ft. per 24 hours. TUFFLEX MILL: Seventeen Hammermills. One 72-inch and one 114-inch Forming Unit, 64- and 100-inch trim for Homogenous Wood Fiber for Cushioning or Protective Padding with a capacity of 775,000 sq. ft. per 24 hours. Bulk Fiber and Baler Equipment with a capacity of 40 tons 24 hours. Purchased Electricity, 60 Cycles, 3 Phase, 34,000 h.p. installed. Coal and Oil. 275-lb. Steam Pressure. Water Treatment Plant. PULP MILL: Two Chippers, four Rotary and one Continuous Digester, six Defibrators, four No. 410 and ten No. 185 Bauer Grinders, three 36.2 Sprout-Waldron Grinders, one 2-page Stone Roll Beater, five Hydrafiners and one Claflin Refiner. Highways, U. S., 61, 3 miles; State, 33 and 45. Phone: TRiangle 9-6771.

Duluth—St. Louis Co.

N. P. R. R. M. O., Tel., Bank and Exp. Airport. Greyhound Bus.

SUPERWOOD CORP., formerly Superior Wood Products, Inc., 14th Ave., W. and Waterfront, 2. (M. J. Opsahl, Pres.; L. K. Johnson, Vice-Pres.; K. V. Hafner, Vice-Pres.; G. A. Jondal, Vice-Pres.; P. R. Pascoe, Sec.; A. L.

MHI-00070

1960

trimmed sheet, 105 inches. Electricity: 60 cycles, 3 Phase, 440 v. Motors. Electric, Turbine and other drives. Coal and Oil. 225 p. s. i. Steam Pressure. Water Treatment and Effluent Treatment Plants. Onion Skin, Manifold and Thin Bond Papers. 8½ tons 24 hours. Highways, U. S., 5, 3 miles; State 2.

STRATHMORE PAPER CO. Keith Paper Co. Div. See West Springfield, Mass. for Officers, Grades and Equipment.

Waltham—Middlesex Co.

On B. & M. R. R. Tel., Bank and M. O. Nearest Air Port, Boston.

STONY BROOK PAPER MILL. Div. of American Paper Products Co., formerly, Stony Brook Paper Co. General Office, 2113 E. Rusn St., Philadelphia 34, Pa. (Leon J. Perelman, Raymond G. Perelman, Partners; Clarence Forman, Gen. Mgr. and Pur. Agt.) S. P., Roberts Station. One 2800-lb. Continuous Breaker Beater, one Noble & Wood Jordan, one Screen, one Extractor, one Filter and Paper Machine Air Ventilator System. One 68-inch Five Cylinder; widest trimmed sheet, 62 inches. Thirty-eight Driers, 24 and 36 inches in Diameter, 76 inches wide Steam and Purchased Electricity, 60 Cycles, 3 Phase, 440 v. Motors, 125-lb. Steam Pressure. Oil. Water Treatment Plant. Plain Chip and News Board, Tube Board, Sheathing and Car Lining, Solid Color and Lightweight Specialties. 30 tons 24 hours. Highways, Off U. S., 128, near 20, 1 mile. Phone: Waltham 5-6709.

West Dudley—Worcester Co.

On N. Y., N. H. & H. R. R. M. O., Tel., and nearest Bank, Southbridge, 3½ miles.

RHODE ISLAND CARD BOARD CO., West Dudley Paper Co. Div. Sales Office, Pawtucket, R. I. (Lowell Pierce Emerson, Pres.; David Lowell Emerson, Treas.; C. F. Kirby, Gen. Mgr. and Pur. Agt.; W. J. Ford, Supt.; Geo. E. Beaudette, Chief Engr.; H. J. Martin, Traffic Mgr.) WEST DUDLEY MILL. Railroad Siding, N. Y., N. H. & H. R. R. Four 1000-lb., four 1500-lb. and three 1800-lb. Beaters, three Pulpers and six Refiners. One 103-inch Five Cylinder; widest trimmed sheet, 93 inches. Generated Electricity, 3 phase, 2500 h.p. Installed Electricity, 485 h.p. Installed Water Power; Oil; 200 p.s.i. Steam Pressure. News, Middles, Tag Stock, Cover Paper, Photo Mount Stock, Chocolate Board, Manila Lined News, and Kraft and Sulphite Specialties. 50 tons 24 hours. Highways, U. S. 20, 6 miles; State, 131. Phone: Southbridge 4-8356.

Westfield—Hampden Co.

On N. Y., N. H. & H. R. R.; B. & A. R. R.

STEVENS PAPER MILLS, INC. See Main Office at Windsor, Conn. and South Hadley Falls, Mass. (Donald E. Drake, Gen. Supt. in Charge Westfield and South Hadley Mills; J. A. Pitoniak, Stup.; Upper Mill; U. W. Levielle, Supt. Lower Mill.) UPPER MILL. Two Bertrams, one Beater and four Jordans. One 72-inch and one 94-inch Fourdriniers; widest trimmed sheets, 60 and 86 inches. Water, Steam and Electricity. LOWER MILL. Seven Beaters, two Bertrams and six Jordans. One 86-inch and two 94-inch Fourdriniers; widest trimmed sheets, 72 inches and 86 inches. Water, Steam and Electricity. Condenser Tissue, Coil Winding Tissue and Electrical Insulating Paper. Highway, U. S., 202, 1/10 mile. Phone: Westfield, Logan 2-2315.

West Groton—Middlesex Co.

On B. & M. R. R. Nearest Bank, Ayer, 8 miles. Nearest Air Port, Boston.

GROTON LEATHER BOARD CO. (Winthrop L. Sheedy, Pres. and Treas.; Carl A. P. Lawrence, Vice-Pres.; Harry J. Hosking, Vice-Pres. and Supt.; Warren H. Pease, Asst. Treas.) WEST GROTON MILLS. S. P., at mill. Water and Electricity. Stereotype Dry Mats. Phone: Groton—GIlbert 8-6334.

HOLLINGSWORTH & VOSE CO. Executive Office, 112 Washington St., East Walpole, Mass. New York Sales Office, 331 Madison Ave., 17; Chicago Sales Office, 600 W. Jackson Blvd., 6. (Aubrey K. Nicholson, Pres. and Gen. Mgr.; Mark Hollingsworth, Vice-Pres.; Bruce C. Lennox, Treas. and Clerk; T. Grant Harrington, Sales Mgr.; Eugene E. Smith, Prod. Mgr.; Roland W. Sawyer, Mill Supt., West Groton Mill; Hubert Smith, Pur. Agt.; Dr. Harold W. Knudson, Tech. Dir.; David R. Smith, Chief Mech. Engr.; T. J. Lyons, Traffic Mgr.) WEST GROTON MILL. Railroad Siding, Boston & Maine R. R. Nine 1500-lb. and eight 1600-lb. Beaters, five Jordans, two Refiners, four Screens, one Pulper and ten Rotaries. One 65-inch Roto-former and one 86-inch Four-Cylinder; Widest trimmed sheets; 60 inches and 75 inches. One 62-inch Fourdrinier; widest trimmed sheet 57 inches. Electricity: 60 Cycle, 3 Phase: 110 v. Small Motors, 440 v. Large Motors; Oil; 150-lb. Steam Pressure. Effluent Treatment Plant. Rope, Jute, Wood, Rag, Industrial Specialties, Electrical Insulating, Saturating and Absorbent, Filter, Red Rope Papers, Heavy Duty Wallet, Patch Tympan, Duplex, Gasket, Wet Strength Papers and Black Papers. 35 tons 24 hours. Highway, U. S., 40, 2/3 mile; State, 2A, 1 mile. Phone: Gilbert 8-6321.

West Springfield—Hampden Co.

On B. & A. R. R. M. O. and Bank. Tel. and Ex., Springfield, 3 miles. Bradley Field, Windsor Locks, Conn., 13 miles.

PREMOID CORP. Main Office, Front St., W. Springfield, Mass. (F. Nelson Bridgham, Chairman; Cassius M. Bryan, Pres.; Charles F. Collins, Vice-Pres.; Raymond E. Clark, Sec.-Treas.; Franklin B. Comery, Sales Mgr.; Joseph A. Cancelliere, Dir. of Research) S. P., West Springfield. Railroad Siding, B. & A. R. R. One 64-inch Fourdrinier; widest trimmed sheet, 56 inches. Special Industrial and Technical Papers including Saturating Papers for Gasket, Resin, Rubber and Other Purposes, Absorbent for Latex Saturation, and Artificial Leather Base; Impregnated Fiber Products and Latex Impregnated Board and Paper. 15 tons 24 hours. Highway, U. S., 20, 1/3 mile. Direct Mill

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STRATHMORE PAPER CO. Mills at Turners Falls, West Springfield and Woronoco, Mass. New York Office, 25 West 43rd St. (F. N. Bridgham, Pres.; H. D. Johnston, Vice-Pres.; H. E. Riggs, Vice-Pres. in Charge of Sales; L. W. Shattuck, Vice-Pres. in Charge of Prod.; Paul A. Wilks, Vice-Pres. and Treas.; B. E. Stafford, Clerk; P. G. Volanakis, Mgr. Tech. Paper Sales; R. B. Clark, Jr., Mgr., Printing Paper Sales; James H. Sweet, Mgr. Converter Paper Sales; Roy F. Arnold, Mgr. Product Dev.; B. P. Wood, Gen. Supt.; P. P. Gooding, Tech. Dir.; H. A. Bolles, C. B. Benoit, R. E. Hosmer and K. A. Sheridan, Mill Supts.; J. C. Gallatin, Jr., Chief Chem.; J. S. Mudgett, Chief Engr.; G. B. Shattuck, Mgr. of Supply; P. D. Howe, Pur. Agt.; E. A. Eddings, Traffic Mgr.) Railroad Siding, B. & A., B. & M., N. Y., N. H. & H. R. R. Thirty-seven Beaters, eleven Refiners, twenty-two Washers and eight Rotaries. One 66-inch, one 76-inch, one 80-inch, one 86-inch, one 87-inch, one 89-inch and one 106-inch Fourdriniers and two Special. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Onion Skin, Air Mail, Index, Ledger, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes. 80 tons 24 hours. Phone: Republic 6-8301.

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On Southern Div. B. & M. R. R. M. O., Tel., Bank and Exp., Gilbertville, Mass. Nearest Air Port, Bradley Field.

ROMAR TISSUE MILLS, INC., formerly Dookin Products, Inc. (Charles Davidson, Jr., Chairman of Board; Robert Belsky, Pres.; Maurice Belsky, Vice-Pres. and Treas.; Geo. B. Scully, Clerk; Larry Messier, Supt.) S. P., at Mill. Railroad Siding, B. & M. R. R. Two 1500-lb. and two 2000-lb. Horne Beaters, four Emerson Jordans, one 18,000-lb. Pulper, one Washer, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 100, 106, and 112 inches wide. Electricity. Oil. 160-lb. Steam Pressure. Facial and Toilet Tissue, Pocket Pack and Cellulose Wadding, Dinner and Luncheon Napkins, Sanitary Napkins and Towels. 37½ tons 24 hours. Phone: Gilbertville 5291.

Woronoco—Hampden Co.

On B. & A. R. R. M. O. and Tel.; nearest Bank, Westfield, 6 miles.

STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U. S., 20. Phone: Springfield, Republic 6-8301.

MICHIGAN

Alpena—Alpena Co.

On D. & M. R. R.

ABITIBI CORP., Subsidiary of Abitibi Power & Paper Co., Ltd. Main Office, 408 University Ave., Toronto 2, Ont. Head Office, Alpena, Mich. Sales Office, 956 Penobscot Bldg., Detroit, Mich. (D. W. Ambridge, Pres.; P. E. Roberts, Executive Vice-Pres.; F. R. Boynton, Cont.; O. B. Eustis, Mill Mgr.; E. J. Schultz, Gen. Sales Mgr.; A. J. Auden, Woods Mgr.; R. M. Granum, Plant Supt.; L. M. Garrett, Pulp and Insulation Mfg. Supt.; L. Keller, Finishing Supt.; W. J. Bigham, Personnel Mgr.; W. C. E. Wood, Engineering and Maintenance Supt.; B. E. Taylor, Hardboard Mfg. Supt.; R. E. Paul, Control Supt.; O. Crews, Master Mechanic; F. X. O'Brien, Power Plant Supt.; C. W. Baldwin, Chief Electrician; T. Blundell, Pur. Agt.; R. Ticknor, Office Mgr.; W. E. Kidd, Traffic Mgr.; J. E. Lamy, Chief Forester.) One 4-ft. and one 13-ft nominal width Fourdriniers. Separate power plant (950 lbs. steam); two-thirds generated and one-third purchased electric power; 60 cycles, 3 phase, 440 v. and 4160 v. Motors. S1S and S2S Hardboards and Insulation Board Products. 200,000,000 sq. ft. annually. PULP MILL. Special Process Woodpulp. Average Daily Consumption of Pulp Wood, 240 Cords. Phone: ALpena 4000.

FLETCHER PAPER CO. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; F. R. Trelfa, Sec.-Treas.: Chas S. White, Gen. Mgr.; Albert Mausolf, Supt.; Eldred Hall, Chief Chem.; J. A. Reinke, Chief Engr.; R. C. Johnson, 20 N. Wacker Dr., Chicago 6, Ill., Sales Mgr.) Four Refiners, four Jordans, and two Pulpers. Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches. Steam and Electricity. Manifold, Sulphite Bond, Register, Sales Book, Register Bond, Second Sheets, Typewriter, Opaque Bond, Duplicator and Mimeograph. 50 tons 24 hours. Highways, U. S. 23; State, 32. Phone: El 4-4171.

Battle Creek—Calhoun Co.

On G. T.; M.; & M. C. R. R. Tel., M. O Bank, Exp. and Air Port.

MICHIGAN CARTON CO., 79 E. Fountain (L. G. Fell, Chairman and Treas.; Dan Int Hout

Jr., Pres.; Dan Int-Hout, Sr., Vice-Pres.; J. J. Harrison, Vice-Pres. Mfg.; C. H. Cameron, Sec.; W. C. Ingerson, Asst. Treas.; Norman Schmitzer, Cont.; H. L. Chorpening, Sales Mgr.; N. A. Pennetti and W. J. Shaw, Supts.; W. O. Kroeschell, Tech. Dir.; J. L. Phillips, Chief Engr.; Leo Styer, Pur. Agt.; J. R. Vosburgh, Traffic Mgr.) S. P., at Mill. Railroad Siding, Michigan Cent. and Grand Trunk R. R. MILLS NOS. 1 AND 2. Two 5000-lb. Breaker Beaters, thirteen Jordans, six Refiners, twenty-two Screens, two Filters, six Pulpers and a Ross Ventilator System. 296 Driers: #1 and 2, 42 inches in diameter, #3, 60 inches in diameter, #1, 108 inches wide, #2, 134 inches wide and #3, 140 inches wide. One 108-inch, Black-Clawson, Seven Cylinder, one 134-inch Beloit Seven Cylinder, and one 140-inch Beloit Eight Cylinder; widest trimmed sheets, 96, 120 and 128 inches. Electricity — Part Purchased and Part Generated. Single Bleached Manila Lined Chip and News, White Patent Coated Solid Manila Back, Double White Patent Coated News, Single and Double Manila Lined Chip, Test Jute Board, Double Bleached Manila Lined Chip or News Center, White Patent Coated News Center Manila Back, White Bleached Sulphite Solid Manila Back, Bleached Sulphite News Center Manila Back, Double Bleached Sulphite Manila Center, Solid Bleached Sulphite, Bending Chip, Kraft Lined Chip, Solid Manila, Plain Chip, White Patent Coated News and Chip and Clay and Machine Coated, 410 tons 24 hours. Highways, U. S., 12; State, 78. Phone: WO.—3-5511.

Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes Transportation. M. O., Tel., Bank and Exp. Nearest Air Port, Petosky, Mich.

CHARMIN PAPER PRODUCTS CO. See Main Office, Green Bay, Wis., for officials and grades. (N. Raymaker, Div. Mfg. Supt.; D. Holder, Plant Engr.) S. P., at Mill. Railroad Siding, D. & M. One 136-inch Fourdrinier; widest trimmed sheet, 124 inches. GROUND WOOD MILL. Three Grinders. Highway, U. S., 27. Phone: 980.

Constantine—St. Joseph Co.

On N. Y. C. R. R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

CONSTANTINE BOARD & PAPER CO. (Frederick G. Weir, Pres. and Sales Mgr.; H. M. Weir, Vice-Pres.; Robert T. Weir, Jr., Sec.-Treas. and Gen. Mgr.; H. E. Reinoehl, Pur. Agt.) FAWN MILL. S. P., at mill. Railroad Siding, N. Y. C. R. R. Two 1000-lb. Beaters, two Pulpers and three Jordans, six Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 96 inches. 36 Driers, 36 inches in Diam., 102 inches wide. Purchased Electricity. 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 50 tons 24 hours. Highway, U. S., 131, 1 mile. Phone: Constantine 4285.

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line; Det. Ter.; G. T.; N. Y. C.; Penn.; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., Detroit Div., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. Main Office, Chester, Pa. For executives, see Main Office. (At Detroit: G. N. Carleton, Vice-Pres.; K. G. Sell, Detroit Sales Mgr.; M. F. Schnaufer, Plant Mgr.; F. M. Foster, Plant Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.) Railroad Siding, Mich. Cent. R. R. DELRAY MILL. S. P., at mill. Seventeen 1400-lb. Beaters, seven Jordans and seven Paper Machine Ventilator Systems. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue, Napkins, Wipers, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 200 tons 24 hours. SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 162½ tons 24 hours. Phone: VI.2-0042.

Filer City—Manistee Co.

On M. & N. E.; Pere Marquette R. R. M. O.; nearest Bank and Tel., Manistee, 2½ miles. Nearest Air Port, Manistee-Blacker.

AMERICAN BOX BOARD DIV., PACKAGING CORP. OF AMERICA. Main Office, 415 Fulton St., E., Grand Rapids 3, Mich. (For Executives, see Main Office. At Filer City: G. Dlesk, Div. Vice-Pres. and Resident Mgr.; R. D. James, Sales Mgr.; D. Elliott, Plant Engr.; J. Challas, Tech. Supt.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S. P., Manistee, Railroad Siding, M. & N. E. R. R. Five Sutherland Refiners, eleven Jordans, five Bleachers, nine Filters and three Pulpers and three Ross Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches wide. Electricity. 17500 k.w., 60 Cycles, 3 Phase, 4160 v. Motors. Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper, 400 tons Bleached Kraft Food Board, 150 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Seven Digesters, two B. K. Continuous Dig. Chemi-pulpers, nine Sprout Waldron Grinders. Steam and Electricity. Semi-Chemical Pulp, 400 tons and Bleached Kraft Pulp, 165 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 2 miles. Phone: Manistee 1500.

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AMERICAN BOX BOARD DIV., PACKAGING CORP. OF AMERICA. Main Office, 415 Fulton St., E., Grand Rapids 3, (W. S. Goodspeed, Chairman of Exec. Committee; Wayne Young, Chairman of Board; William D. Carey, Pres.; J. N. Andrews, Exec. Vice-Pres.; Emerson Carey, Jr., Treas.; D. W. Maxon, Sec.; Robert K. Stolz, Sr., Div. Vice-Pres.; Gordon B. Bonfield, Sr., Div. Vice-Pres. and Gen. Mgr.; F. W. Oldenburg, Sr., Div. Vice-Pres. Marketing; G. Dlesk; Div. Vice-Pres. and Resident Mgr. Filer City; K. R. Mull, Div. Vice-Pres.; J. L. Wilson, Div. Vice-Pres. Marketing; C. F. Raber, Div. Vice-Pres.-Dir. Ind. Rel.; H. L. Goodspeed, Div. Sec.; C. C. Boyer, Div. Treas.; E. M. Dean, Mgr.; M. Nossaman, Supt.; R. P. Aument, Tech. Dir.; I. P. Nicole, Eng. Mgr.; W. R. Tobin, Sales Mgr.; R. L. Hall, Dir. of Pur.; Wm. Glaske, Gen. Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 200 tons 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile. Phone: GL. 9-4581.

Groos—Delta Co.

On E. & L. S. R. R. Exp., M. O., Tel. and Bank at Escanaba, 6 miles.

MEAD CORP., Escanaba Div. P. O. Address, Escanaba. For Executives, see Main Office, Dayton, Ohio. (G. S. Douglas, Div. Mgr.; O. C. Christiansen, Supt.; G. C. Eastin, Tech. Dir.; R. H. Sogard, Plant Engr.; H. J. Vanlerberghe, Traffic Mgr.; Stack Smith, Pur. Agt.; R. R. McDonough, Office Mgr.) Railroad Siding, Escanaba & Lake Superior R. R. Three 1500-lb. Beaters, one Hydrapulper. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches. Steam, Electricity and Water. Coated Book Papers, Bleached Groundwood Content Uncoated Book Papers and Specialties. 215 tons 24 hours. GROUND WOOD MILL. Seventeen Grinders and four Wet Machines. Hydro-Electric. Ground Wood. 100 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 90 (128 cu. ft.) Cords. Highways, U. S., 2 and 41; State, 35. Phone: Escanaba, S1 6-1660.

Kalamazoo—Kalamazoo Co.

On M. C.; N. Y. C.; Penn.; C. K. & S.; G. T. R. R. Greyhound Bus, 4 miles from Air Port. M. O., Exp., Tel. and Bank.

ALLIED PAPER CORP., 1608 Lake St. Main and Sales Office, 3450 Prudential Bldg., 140 E. Randolph St., Chicago 1, Ill. J. D. Nisbet, Chicago Sales Mgr.; D. J. Campbell, New York City Sales Mgr., 655 Madison Ave., 21. (Arnold H. Maremont, Chairman; W. D Harrison, Pres.; L. B. Owen, Vice-Pres.-Mfg.; H. B. Johnston, Vice-Pres.-Engr.; R. M. Levy, Dir. of Research & Development; M. C. Teague, Dir. of Quality Control; Herman Bernick, Sec.-Treas.; A. M. Mulder, Mgr. King Mill; E. J. Gilman, Bryant Mill Mgr.; C. J. Bos, Coating Mill Mgr.; C. A. Yonker, Dir. of Pur.; O. V. Mason, Traffic Mgr.) KING MILL. S. P., Kalamazoo, Mich. Railroad Sidings. N. Y. C., G. T. W. and P. R. R. Four 1200-lb. and nine 2000-lb. Beaters and eight Jordans. Improved Washing System. Two Screens and six Pulpers. Seven Fourdriniers; widest trimmed sheets, 107, 111, 117 and 130 inches. Width of Super-Calenders, 35 inches min. to 121 inches max. MONARCH MILL, S. P., Kalamazoo, Mich. Six 2400-lb. Beaters, four Jordans, two Improved Washers and five Rotaries. Two Fourdriniers; widest trimmed sheets, 111 and 120 inches. Width of Super-Calender, 58 inches. BRYANT MILL: Fourteen Beaters, ten Jordans, twelve Refiners, six Pulpers and seven Screens. Five Fourdriniers; widest trimmed sheet, 152 inches. Width of Super Calenders, 60 64, 70, 90 and 160 inches. Also Coating Mill. Purchased Electricity: 5000 k.w., Generated: 11,500 k.w., 440-2300 v., 60 Cycles, 3 Phase; 37,000 h.p. Installed; Coal; 300, 400, 600 p.s.i Steam Pressure. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Catalogue, Offset; Map Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Book Cover, Lining, Roto, Litho Coating Raw Stock, Bible and Specialties. 300 tons 24 hours. COATED: Offset, Label, Dull Finish, Folding, Enamel Cover, Varnish Label, Post Card, Gloss Ink Papers, C1S and C2S Enamels, Inserts. 200 tons 24 hours. SEMI-CHEMICAL AND DE-INKING PULP MILL—Two Digesters. Bleached Semi-Chemical Pulp, 100 tons 24 hours. (Pulp mill under construction, expected to be in operation in 1960.) Highways, U. S., 12 and 131; State, 43 and 96. Phone: Fireside 5-7131.

HAWTHORNE PAPER CO., P. O. Box 906, King Highway. (William Slavin, Pres., Treas. and Gen. Mgr.; Louis J. Slavin, Executive Vice-Pres.; Harley E. Nelson, Vice-Pres. i/c Mfg.; S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers. Ross Paper Machine Ventilation System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent Master, Mimeograph, Duplicator, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 50 tons 24 hours. Highway, State 96. Phone: FIreside 5-1163.

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KALAMAZOO PAPER CO. Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; B. H. Cooper, Vice-Pres., Dir. Pur.; J. M. Causey, Vice-Pres. and Sales Mgr.; F. B. Curtenius, Sec.-Treas.; Robert W Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Two 2500-lb. and four 1500-lb. Beaters, one Pulper, four Jordans, five Rotaries and Washing Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing Equipment on Both Machines. MILL NO. 2. Six 1500-lb. Beaters, four Jordans, four Rotaries and Washing Equipment. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing Equipment on both Machines. MILL NO. 3. Four 1500-lb., three 2000-lb. and two 3000-lb. Beaters, one Pulp Master, seven Jordans, one Hydrapulper and Washing Equipment. One 145-inch, one 167-inch and one 180-inch Fourdriniers; tub sizing equipment on 180-inch machine; widest trimmed sheets, 135 inches, 156 inches and 167 inches. (145-inch Fourdrinier is temporarily idle.) Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Label, Music, Drawing, Linings and Hangings. 300 tons 24 hours. Highway, U. S., 12, 2 miles East; Old U. S. 12 continues from junction as State 96. Phone: FI. 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; F. A. Manske, Pres.; E. W. Odenwaldt, Vice-Pres. Mfg. L. L. Hank, Vice-Pres. Operations; S. G. Stapler, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Three 1800-lb. HS Beaters, one 150-ton Pulper, and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Steam and Electricity. Gypsum Liner Board Paper, 135 tons 24 hours. Highway, U. S., 12. Phone: 3-1275

REX PAPER CO., P. O Box 751, King Highway. (J. E. Lean, Pres. and Gen. Mgr.; J. G. Ruimveld, Sec. and Pur. Agt.; J. M. Bireley, Sr., Treas.; H. G. Nendorf, Gen. Supt.; H. E. Warren, Paper Mill Supt.; G. R. Haggerson, Tech. Dir. and Chief Chem.; L. M. Pinkerton, Chief Engr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. Four 1400-lb. J. H. Horne & Sons Beaters, two Horne Jordans, two E. D. Jones Co. Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 113-inch Fourdrinier; widest trimmed sheet, 104½ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book. 30 tons 24 hours. Also six Machine Coating Mills, Highway, State, 96. Phone: FIreside 2-0151.

ST. REGIS PAPER CO. Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.

SUTHERLAND PAPER CO. Main Office, 243 E. Paterson. (William Race, Chairman; E. W. Smith, Pres.; A. L. Sherwood, Vice-Pres.; S. A. Angotti, Vice-Pres.; L. W. Sutherland, Jr., Vice-Pres.; J. T. Kirkpatrick, Vice-Pres.; C. W. Walton, Sec.; B. C. White, Treas.; C. W. Lawrence, Asst. Sec.-Treas.; H. R. Luikens, Pur. Agt.; C. L. Fenstermaker, Traffic Mgr.) EAST SIDE PLANT. (Arnold Weller, Supt.) Five Refiners. One Seven Cylinder, widest trimmed sheet, 93 inches. Steam and Electricity. Folding Box Boards. 125 tons 24 hours. NORTH SIDE PLANT. (L. Justice, Supt.) Railroad Sidings, C. K. & S. P. R. R. and N. Y. C. R. R. Five 1650-lb. and five 2000-lb. Beaters, one Shartle Beater, six Hydrapulpers and four Hydrafiners, three Continuous Broke Beaters and seventeen Jordans. One 100-inch Six Cylinder, one 116-inch Seven Cylinder and one 132-inch seven Cylinder and one 154-inch Eight Cylinder; widest trimmed sheets, 92 102, 120 and 138 inches. Steam and Electricity. Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Polyethylene Coated Boards, Hot Waxed and Cold Water Waxed Grades. 465 tons 24 hours. Highways, U. S., 12 and 131, 1 mile; State, 43, ½ mile. Phone: Kalamazoo, FIreside 3-1651.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Alfred H. Nadelman, Head of Department; Paul V. Sangren, Pres.) Five Experimental Beaters and one Bauer Refiner. One Jones Midget Jordan and two Pulpers. One Noble & Wood Sheet Machine, various. Sheet Molds. One Pilot Stock Preparation System. One 28-inch Pilot Fourdrinier with Size Press; widest trimmed Sheet, 24 inches. One 24-inch Universal Coating Machine and one 8-roll Supercalender. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research. Purchased Electricity, 60 cycles, 3 phase. From 25 point Fourdrinier Board to Lightweight Tissue. 3 tons 24 hours. Phone: FIreside 9-2611, Ext. 274.

MHI-00073

nse—Baraga Co.

ELOTEX CORP. (See Main Office, 120 S. Salle St., Chicago 3, Ill., for executives.) 000,000 fiberboard mill under construction

anistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Trenton Times Corp., Trenton, N. J. (Sarah M. Kerney, Joseph A. Kerney, Vice-Pres. and Treas.; Thomas L. Kerney, Vice-Pres.; John E. Kerney, Sec.; F. S. Hoholik, Asst. Sec. and Gen. Mgr.) Railroad Sidings, Soo and Ann Arbor R. R. Three 1000-lb. Beaters. One 166-inch Fourdrinier; widest trimmed sheet, 155 inches. Water and Electricity. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 90 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders. Water and Electricity. Ground Wood. 80 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 75 Cords. Highway, U. S., 2. Phone: Manistique 160.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R Green Bay and Lake Michigan Steamers

MARATHON DIV., American Can Co. See Menasha, Wis., for Corporate Officials. (Larry S. Sabatke, Plant Mgr.; Ben K. Guenther, Paper Mill Supt.; John A. Gasperi, Converting Supt.; Martti Lundstrom, Plant Engr.) Six Claflin Refiners, three Jordans and one Hydrapulper. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 154 inches. One Yankee Fourdrinier; widest trimmed sheet, 128 inches. Generated Electricity. Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 266 tons 24 hours. Highways, U. S., 173 and 41. Phone: Menominee 5596.

MARINETTE PAPER CO. Wholly Owned Subsidiary of Scott Paper Co. See Exec. Office, Scott Paper Co., Front and Market Sts., Chester, Pa. (Subsidiaries) for Executive Officers. Principal Office, Marinette, Wis. (Operations Personnel: S. J. Lang, Supt.; for others see Marinette Paper Co., Marinette, Wis.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 19 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 17 Cords. Highway, U. S., 41, ½ mile. Phone: REdwood 5-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run.

CONSOLIDATED PAPER CO., P. O. Box 724, 921 E. Elm Ave. (C. H. R. Johnson, Pres. and Gen. Mgr.; K. E. Verhoeven, Vice-Pres. and Gen. Sales Mgr.; S. J. Newcomer, Vice-Pres. and G. L. Bronson, Vice-Pres.; C. J. Phinney, Sales Mgr. Paper Board Div.; F. H. Bock, Sec.; V. C. Matthews, Sales Mgr. Corrugated Div.; K. E. Heusman, Sales Mgr. Automotive and Forming Board Div.; J. W. Conn, Sales Mgr. Folding Carton Div.; A. D. Crowley, Sales Mgr. Asphalt Drum Div.; H. M. Blandin, Research and Development-Plastics Div.; R. D. Morse, Gen. Supt.; W. O. Manor, Tech. Dir.; T. E. Clark, Pur. Agt.; Harold C. Marten, Traffic Mgr.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 300 tons 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breakers, Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 315 tons 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets, 52, 71 and 84 inches. Steam. Straw Board for Corrugating. 125 tons 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 100 tons 24 hours. PRODUCTS: Corrugating Straw Board, Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Board, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56, ½ mile West 24A. Phones: Cherry 1-9000 and 1-9004.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (Lawrence G. Kunkel, Pres.; John P. Kinsey, Vice-Pres.; Robert M. Swaney, Sec.; Thomas M. Banta, Treas.; Gene T. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Seven 1400-lb. Dilts Beaters, two Hydrapulpers, one Dilts Breaker Beater and Jordans. Two Wet Machines; widest trimmed sheet, 60 inches; one 68-inch Three Cylinder; widest trimmed sheet, 60 inches; one 78-inch and one 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity. Tissue Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 135 tons 24 hours. Highway, U. S., 24 Phone: CHerry 1-3220.

RIVER RAISIN PAPER CO., 1109 E. Elm Ave. (Charles L. Wood, Chairman of Board; Pres.; A. J. Goetz, Exec. Vice-Pres.; A. J. Schulte, Vice-Pres.-Sales and Sec.; Fred B. Ashwood, Vice-Pres. Mfg.; H. V. Hodge, Vice-Pres.; W. M. Pellot, Treas.; E. F. Hochradel, Dir. Pur.; J. Fuko, Mill Mgr.; C. E. Hanthorn, Chief Engr.; D. Long, Chief Chemist; I. Schmelz, Traffic Mgr.) S. P. at all mills. MILL NO. 2. One 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. One 150-ton Asphalt Disperser System and one 150-ton Dilts Hydrapulper, 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. One 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. One 100-ton Dilts Hydrapulper, one 102-inch Two Cylinder Board Machine; widest trimmed sheet, 90 inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials. 400 tons 24 hours. Highways, U. S., 24, 2 miles, and 25, 1 mile; State, 56. Phone: Monroe, Cherry 1-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

MUNISING PAPER CO., THE, Main Office, 7-120 Merchandise Mart, Chicago. (John R. Kimberly, Pres.; W. R. Kellett, Vice-Pres.; G. K. Crowell, Vice-Pres. and Treas.; Roger A. Baird, Sec.; J. R. Whitney, Asst. Sec.-Treas.; O. D. Bast, Asst. Sec.-Treas.; W. R. Beerman, Mill Mgr.) S. P., at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 80 tons 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Pulp, 90 tons 24 hours. Highways, U. S., 41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O. and G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Mill Mgr.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P. at mill. Railroad Siding. C. & O. R. R. Three 1600-lb. and eleven 1200-lb. Beaters, eight Jordans, four Refiners and seven Pulpers. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 psi. Steam Pressure. Book, Coated Book, English Finish, Lithographic Papers, Eggshell, Offset, Board. 180 tons 24 hours. SULPHATE PULP MILL. Six Digesters; two Wet Machines. Bleached Sulphate Pulp, 135 tons 24 hours. Average daily consumption of peeled pulp wood, 140 cords. Highways, U. S., 16 and 31, 5 miles; State, 46. Phone: 51-681.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO. (F. G. French, Pres.; J. E. French, Vice-Pres. and Pur. Agt.; L. F. Kretchman, Sec. and Treas.; T. Friedrich, Gen. Supt.; R. Fralick, Chief Engr.) Railroad Siding. N. Y. C. R. R. Four Dynapulpers and four Jordans. One 95-inch and one 118-inch Fourdriniers; widest trimmed sheets, 80 and 105 inches. Steam and Electricity. Plain and Embossed Offset, Text, Papeteries, Greetings, Colored Envelope. 50 tons 24 hours. Highways, U. S., 31 and 112; State, 60. MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: Howard H. Rausch, Paper Mill Supt.; W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 12½ feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase, 1521 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure, Oil and Natural Gas Effluent Treatment Plant. Pattern Tissue, 15 tons 24 hours. Highways, U. S., 31-112; State, 60. Phone: Niles, MUtual 3-4100.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R M. O., Tel., Bank and Exp. Greyhound Buses Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER CO., formerly National Container Corp. of Mich Main Office, 1350 Fullerton Ave., Chicago, Ill. (Alvin Huss, Pres.; Walter Brewer, Vice-Pres.; H. S. Cartwright, Sec.-Treas.; Newton Cuneo, Res. Mgr.; Merlin King, Chief Engr.) Railroad Siding. S. P. at mill. One 2000-lb. Valley Iron Works and two 2000-lb. Jones Beaters, five Jordans, two Jones Majestic Refiners, five Screens and a Ross Paper Machine Ventilator System. One 120-inch Five Cylinder; widest trimmed sheet, 116 inches. Seventy Driers, 48 inches in Diameter and 124 inches wide. One 176-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k. w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb Steam Pressures. Cylinder Kraft Liner Board, .009 Corrugating Medium and Bleached Semi Chem. Food Board. 120 tons 24 hours. SEMI-CHEMICAL PULP MILL. Five Digesters and one Wet Machine. One Drying Machine, one Pandia-American Defibrator Unit and two Bauer Refiners. Semi-Chemical Pulp, 200 tons 24 hours of which 150 tons are bleached. Average daily consumption of peeled birch and maple pulp wood, 200 cords. Highways, U. S., 45, 1 mile; State, 64. Phone: 1.

Otsego—Allegan Co.

On N. Y. C. R. R. M. O., Bank and F

MHI-00075

Tel. at Kalamazoo. Peoples R. T. and Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (L. W. Dickinson, Pres.; W. E. Hurlbut, Exec. Vice-Pres. and Sales Mgr.; M. V. Stowe, Treas.; Leslie Peck, Supt.; Richard Glaser, Tech. Dir.; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P. at mill. MAC SIM BAR MILL. Fifteen 1200-lb. four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain, Oak, Marble, Burlap Grained Solid Jute Board, Machine Clay Coated News and White Patent Coated News. 300 tons 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

OTSEGO FALLS PAPER MILLS, Div. of Menasha Wooden Ware Corp. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; E. R. Timlowski, Tech. Dir.; Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 2500-lb. Beater, two Jordans and two Refiners. Two Fourdriniers; widest trimmed sheets, 78 inches and 98 inches. Steam and Electricity. .009 Corrugating, Saturating, Can, Semi-Chemical Wood Pulp Boards. 110 tons 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters Unbleached Semi-Chemical Pulp, 110 tons 24 hours. Average Daily Consumption of Pulp Wood, 125 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego, OXford 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Floyd M. Murphey, Jr., Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Charles R. Ehinger, Supt.; Edward McCormick, Power Plant Supt.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans. One Hydrafiner, three Screens and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated, 60 Cycles, 3 Phase; Coal; 200 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating. 50 tons 24 hours. Highway, U. S., 223. Phone: Colfax 5-5174.

Parchment

A suburb of Kalamazoo. Bank.

KALAMAZOO VEGETABLE PARCHMENT CO. (A. Southon, Chairman of Board; Dwight L. Stocker, Pres.; E. Norval Hunter, First Vice-Pres.; W. Donald Brownell, Vice-Pres.; Robert D. Caine, Vice-Pres.; C. Longford Felske, Vice-Pres. and Treas.; Harold De Weerd, Sec.; Marshall Ruiz, Gen. Supt.; Frank Wotalewicz Pur. Agt.; Melvin Lievense, Gen. Traffic Mgr.; Fred Ter Burgh, Master Mechanic.) Railroad Sidings, N. Y. C. and C. K. & S. R. R. Five Parchment Machines: widest trimmed sheets, 80 and 100 inches. Thirteen Waxing Machines. MILL NO. 1. Three Fibremasters, five 2000-lb., two 2500-lb. and two 4000-lb. Beaters, and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 2500-lb. Vortex Beaters, ten Majestic Jordans, three Fibremasters, one 2500-lb. Pulpmaster, one 2000-lb. Slushmaker and one Continuous Beater. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Greaseproof. Bond, Manifold, Wrappings and Paper Specialties. MILL NO. 1; 87½ tons; MILL NO. 2, 207½ tons 24 hours. Highways, River Road; U. S., 131 and 12. Phone: FIreside 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O. and Tel.

HAMILTON PAPER CO., Michigan Div. formerly Michigan Paper Co. of Plainwell. Main Office, Miquon, Pa. Sales Offices at Miquon, Pa.; New York City, Chicago and Los Angeles. (L. D. Nicolson, Vice-Pres. in Charge; F. L. Brown, Asst. Sec. and Pur. Agt.; M. E. Burkheiser, Asst. Treas.; Ray L. Barton, Supt.; John Kauffmann, Chief Engr.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.) Railroad Siding, Penna. R. R. One 6000-lb. Hydrapulper, nine 1400-lb. Beaters and ten Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches. Widest Super-Calender, 80 inches. Purchased and Generated Electricity, 3 phase, 60 cycles; Coal; 265 p.s.i. Steam Pressure. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeographed, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers and Post. 100 tons 24 hours. DE-INKED PULP MILL. De-Inked Pulp, 50 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: MUrray 5-8411.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Chairman of Board and Treas.; Geo. C. Dunn, Pres. and Sec.; W. A. Fisher, Vice-Pres.; D. J. Haines, Asst. Treas.; Gladys Fockler, Asst. Sec.; W. W. Carr, Sales Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R. R. Two Jordans, nine Filters, two one-ton Pulpers, thirteen Refiners, four Screens. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 inches. Electricity: 2500 K.V.A.; 60 Cycles, 3 Phase, 440 v.. Small Motors, 4800 v. Large Motors; Coal and Oil; Steam Pressure, 625 p.s.i. Water Treatment Plant. Sulphite and Sulphate Papers for Fine Crepe, Diaper Lining, Salesbook, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue Excelsior, One-time Carbonizing and Other M. G. Bleached and Unbleached Specialties in Jumbo Rolls Only. 35 tons 24 hours. Highway, U. S., 25, ½ mile. Phone: YUkon 5-5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; G. F. Durand, Pres.; F. B. McFarland, Vice-Pres.; J. L. Hoolihan, Vice-Pres.; R. S. Smeltzer, Sec.-Treas.; L. M. Sturdevant, Asst. Sec.; Fred Phare, Pur. Agt.; E. J. Janssens, Sales Mgr.; E. G. Donovan, Asst. Sales Mgr.; John Maes, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; Carl Roglitz, Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 140-inch Yankee Fourdrinier; widest trimmed sheet, 128 inches; one 132-inch Fourdrinier, widest trimmed sheet, 122 inches. Steam and Electricity. Bond, Carbon Coating, Carbon Paper, Carbonizing, Carbonized Rolls, Coil Winding, Creping, Foil Mounting, Kraft, M. G. Wrapping and Specialties, Manifold, Register, Salesbook, Sulphite Bond, Sulphite Papers, Tissue Waxing and Wet Strength Specialties. 67½ tons 24 hours.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO., P. O. Box 185; Mill St. (Paul H. Travis, Pres. and Gen. Mgr.; M. S. Arnold, Vice-Pres.; Gordon Morseth, Vice-Pres. and Plant Mgr.; N. B. Godnow, Sec.; A. H. Giuliani, Treas.; S. J. Fortune, Supt.; Thad Perkins, Asst. Supt.; Phillip H. Avery, Tech. Dir.; William M. Kirkland, Pur. Agt.) S. P. at mill. Railroad Siding, G. T. R. R. One 1000-lb. Beater, one E. D. Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster and Cover Paper, Filter, Matrix, Photo-Mount, Felt, Impregnating and Absorbent Specialties. 12½ tons 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-8121.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; Ruth Gardner Gumblin, Vice-Pres.; Judith Rose, Treas.; Robert Rose, Sales Mgr.; Fred Gave, Sr. and Fred Gave, Jr., Supts; Edward Gave, Night Supt.; Grover C. Welch, Chief Engr.; Jack Zimler, Pur. Agt.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, seven Jordans, seven Screens. One 70-inch Seven Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 750 h. p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure. Coal. White Pat. Coated, Chip Board, News Board, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila Lined Chip, Mist Grey, Kraft Lined, Solid Kraft and Colored Specialties. 75 tons 24 hours. Highway, U. S., 131, 1½ miles. Phone: VO. 6-9211.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC. Main Office, Box 404. (Robert Pohn, Pres. and Treas.; Nick Kredich, Vice-Pres.; Howard Zuker, Vice-Pres.; Bert Derdiger, Sec.; Howard Bogle, Mill Mgr.; Corwin H. Drew, Sales Mgr.; Robert Massengale, Supt.; Ivan Cronkhite, Chief Engr.) S. P. at mill. Railroad Siding, N. Y. C. (M) R. R. Two 1000-lb. Beaters, two Refiners, four Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. Purchased 50% and Generated 50% Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v. 2000 h.p. installed, Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Automotive, Mounting and Food Packaging Boards. 60 tons 24 hours. Highways, U. S., 131, 1 mile; State, 60, 1 mile. Phone: 3-1015.

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Tel. and Ex.

LEB PAPER CO. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres.; A. A. Christian, Vice-Pres. and Sec.; K. A. Warren, Treas.; Arthur Katt, Supt.; John Stroud, Pur. Agt.; Eric Ungren, Tech. Dir.) S. P. at mill. Two 1500-lb. and three 1000-lb. Beaters, three Jordans and six Refiners, seven 1000-lb. Washers and four 10,000-lb. Rotaries. One 121½-inch, one 132-inch and one 134-inch Fourdriniers; widest trimmed sheets, 107 inches, 119 inches and 121 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 100 tons 24 hours. Highways, U. S., 131, 5 miles West; State, M60, 6 miles South. Phone: Vicksburg, MI 9-5201.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

WATERVLIET PAPER CO. Division of Ham

1961

: Bank, Southbridge, 3½ miles; Port, Worcester or Southbridge.

AND CARD BOARD CO., West Co. Div. Main Office, Exchange R. I. (Lowell Pierce Emerson, Lowell Emerson, Treas.; C. F. lgr. and Pur. Agt.; Leander W. Franklin P. Emerson, Tech. Dir.; ette, Cheif Engr.) WEST DUD- ilroad Siding, N. Y., N. H. & H. rdans, two Refiners, five Screens ers. One 103-inch Five Cylinder; sheet, 93 inches. Purchased Elec- p.s.i. Steam Pressure. Cup, Tag, and File Folder Stock; Patent ed Manila; Colored Specialties; minated and Black Fibre Boards. rs. Highways, U. S. 15, 7 miles; e: POrter 4-8356.

den Co.

. H. & H. R. R.; B. & A. R. R.

PER MILLS, INC. See Main sor, Conn. and South Hadley onald E. Drake, Gen. Mgr. in ! and South Hadley Mills; J. A. Upper Mill; U. W. Levielle, Supt. JPPER MILL. Two Bertrams, four Jordans. One 72-inch and rdriniers; widest trimmed sheets, . Water, Steam and Electricity. Seven Beaters, two Bertrams One 86-inch and two 94-inch dest trimmed sheets, 72 inches Water, Steam and Electricity. . Coil Winding Tissue and Elec- Pa Highway, U. S., 202. e: eld, Logan 2-2315.

iddlesex Co.

R. R. Nearest Bank, Ayer, 4 t Air Port, Boston.

ATHER BOARD CO. Win- Pres. and Treas.; Carl A. P. res.; Harry J. Hosking, Vice- Warren H. Pease, Asst. Treas.) MILLS. S. P., at mill. Water Stereotype Dry Mats. Phone: 8-6334.

ORTH & VOSE CO. Executive ngton St., East Walpole, Mass.; Office, 50 E. 42nd St., 17; Chi- e, 600 W. Jackson Blvd., 6; Office, 237 Lancaster Ave. (Au- n, Pres. and Gen. Mgr.; Mark e-Pres.; Bruce G. Lennox, Treas. ant Harrington, Sales Mgr.; B. n, Supt.; Roland W. Sawyer, roton Mill; Hubert Smith, Pur. W. Knudsen, Tech. Dir.; David Engr.; T. J. Lyons, Traffic GROTON MILL. Railroad Maine R. R. Nine 1500- -lb. Beaters, five Jordans, two ens, one Pulper and ten Ro- h Roto-former and one 86-

GOTTESMAN & CO., Inc. • ALL GRADES, DOMESTIC & IMPORTED
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inch Four-Cylinder; Widest trimmed sheets, 60 inches and 75 inches. One 62-inch Fourdrinier: widest trimmed sheet 57 inches. Electricity: 60 Cycle, 3 Phase: 110 v. Small Motors, 440 v. Large Motors; Oil; 150-lb. Steam Pressure. Effluent Treatment Plant. Rope, Jute, Wood, Rag, Industrial Specialties; Electrical Insulating, Saturating and Absorbent, Filter, Red Rope Papers, Heavy Duty Wallet, Patch Tympan, Duplex, Gasket, Wet Strength Papers and Black Papers. 35 tons 24 hours. Highway, U. S., 40, 2/3 mile; State, 2A, 1 mile. Phone: Gilbert 8-6321.

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PREMOID CORP. Main Office, Front St., W. Springfield, Mass. (F. Nelson Bridgham, Chairman; Cassius M. Bryan, Pres.; Charles F. Collins, Vice-Pres.; Raymond E. Clark, Sec.-Treas.; Franklin B. Comery, Sales Mgr.; Charles B. Hammen, Mgr., Industrial Sales; Joseph A. Cancelliere, Technical Dir.) S. P., West Springfield. Railroad Siding, N. Y. C. R. R. One 64-inch Fourdrinier; widest trimmed sheet, 56 inches. Special Industrial and Technical Papers including Saturating Papers for Gasket, Resin, Rubber and Other Purposes, Absorbent for Latex Saturation, and Artificial Leather Base; Impregnated Fiber Products and Latex Impregnated Board and Paper. 15 tons 24 hours. Highway, U. S., 20, 1/3 mile. Direct Mill Phones: Springfield, Republic 6-4554; Boston, Lafayette 3-4650; and New York City, Rector 2-2662.

SOUTHWORTH CO. (Melvin D. Southworth, Pres.; Phelps Brown, Vice-Pres. and Treas.; Paul W. Cheney, Vice-Pres. and Sales Mgr.; John H. Southworth, Sec.; Alfred L. Montagna, Supt.) Railroad Siding, B. & A. R. R. One 1200-lb. and four 850-lb. Beaters. One 81-inch Fourdrinier; widest trimmed sheet, 44 inches; widest machine finished paper in rolls, 70 inches; widest tub sized paper in rolls 68 inches. Water and Electricity. Bonds, Linens, Ledgers, Typewriter Papers, Onion Skin, Manuscript Covers and De-Luxe Bonds with Visible Watermarks. 10 tons 24 hours. Highway, U. S., 20, ⅛ mile. Phone: REpublic 2-5141.

STRATHMORE PAPER CO. Mills at Turners Falls, West Springfield and Woronoco, Mass. New York Office, 25 West 43rd St. (F. N. Bridgham, Chairman of Board and Pres.; H. D. Johnston, Vice-Pres.; H. E. Riggs, Vice-Pres. in Charge of Sales; L. W. Shattuck, Vice-Pres. in Charge of Prod.; Paul A. Wilks, Vice-Pres. and Treas.; B. E. Stafford, Clerk; P. G. Volanakis, Mgr. Tech. Paper Sales; R. B. Clark, Jr., Mgr., Printing Paper Sales; James H. Sweet, Mgr. Converter Paper Sales; Roy F. Arnold, Mgr. Product Dev.; C. E. Benoit, Mgr. Woro Mills; B. P. Wood, Gen. Supt.; P. P. Gooding, Tech. Dir.; R. E. Hosmer, K. A. Sheridan, D. W. Bush and W. L. Bryan, Mill Supts.; J. C. Gallaun, Jr., Chief Chem.; J. S. Mudgett, Chief Engr.; G. B. Shattuck, Mgr. of Supply; Everett Hallberg, Pur. Agt.; E. A. Eddings, Traffic Mgr.) Railroad Siding, B. & A., B. & M., N. Y., N. H. & H. R. R. Thirty-seven Beaters, eleven Refiners, twenty-two Washers and eight Rotaries. One 66-inch, one 76-inch, one 80-inch, one 86-inch, one 87-inch, one 89-inch and one 106-inch Fourdriniers and two Special. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Onion Skin, Air Mail, Ledger, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes. 80 tons 24 hours. Phone: Republic 6-8301.

Wheelwright—Worcester Co.

On Southern Div. B. & M. R. R. M. O., Tel., Bank and Exp., Gilbertville, Mass. Nearest Air Port, Bradley Field.

ROMAR TISSUE MILLS, INC., formerly Doeskin Products, Inc. (Charles Davidson, Jr., Chairman of Board; Robert Belsky, Pres.; Maurice Belsky, Vice-Pres. and Treas.; Geo. B. Scully, Clerk; Larry Messier, Supt.) S. P., at Mill. Railroad Siding, B. & M. R. R. Two 1500-lb. and two 2000-lb. Horne Beaters, four Emerson Jordans, one 18,000-lb. Pulper, one Washer, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 100, 106, and 112 inches wide. Electricity. Oil. 160-lb. Steam Pressure. Facial and Toilet Tissue, Pocket Pack and Cellulose Wadding, Dinner and Luncheon Napkins, Sanitary Napkins and Towels; Cellulose Wadding in Rolls and Sheets and Industrial Wipes. 37½ tons 24 hours. Phone: Gilbertville 5221.

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STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U. S., 20. Phone: Springfield, Republic 6-8301.

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Siding, Mich. Cent. R. R. DELRAY MILL. S. P., at mill. Seventeen 1400-lb. Beaters, seven Jordans and seven Paper Machine Ventilator Systems. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines: two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue, Napkins, Wipers. Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 200 tons 24 hours. SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 162½ tons 24 hours. Phone: VI 2-0042.

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PACKAGING CORP. OF AMERICA. General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Offices. (G. Diesk, Gen. Mgr.; John Oakes, Sales Mgr.; D. Elliott, Plant Engr.; J. Challas, Tech. Supt.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S.P., Manistee. Railroad Siding, M. & N. E. R. R. Five Sutherland Refiners, eleven Jordans, five Bleachers, nine Filters and three Pulpers and three Ross Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches wide. Electricity, 17500 k.w., 60 Cycles, 3 Phase, 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper, 400 tons Bleached Kraft Food Board, 150 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Seven Digesters, two B. K. Continuous Dig. Chemipulpers, nine Sprout Waldron Grinders. Steam and Electricity. Semi-Chemical Pulp, 400 tons and Bleached Kraft Pulp, 165 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 2 miles. Phone: PArkview 3-9951.

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On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

PACKAGING CORP. OF AMERICA. 415 Fulton St., E., Grand Rapids 3, Mich. General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Office (M. Nossaman, Gen. Mgr.; I. P. Nicole, Eng. Mgr.; Wm. Glaske, Gen. Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 200 tons 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile. Phone: GL. 9-4581.

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On M. C.; N. Y. C.; Penn.; C. K. & S.; G. T. R. R. Greyhound Bus, 4 miles from Air Port. M. O., Exp., Tel. and Bank.

ALLIED PAPER CORP., 1608 Lake St. Main and Sales Office, 168 N. Michigan Ave., Chicago, Ill. A. F. Klima, Chicago Sales Mgr.; E. M. Bishop, Jr., New York City Sales Mgr., 655 Madison Ave., 21. (Arnold H. Maremont, Chairman; W. D. Harrison, Pres.; J. D. Dailey, Vice-Pres.-Mfg.; W. J. Garrity, Vice-Pres.-Sales; T. J. Kayhart, Chief Engr.; R. M. Levy, Dir. of Research & Development; M. C. Teague, Dir. of Quality Control; Herman Bernick, Sec.-Treas.; Leo Gayou, Mgr. King Div.; E. J. Gilman, Bryant Div. Mgr.; C. J. Bos, Coating Mill Mgr.; C. A. Yonker, Dir. of Pur.; O. V. Mason, Traffic Mgr.) KING MILL, S. P., Kalamazoo, Mich. Railroad Sidings: N. Y. C., G. T. W. and P. R. R. Four 1200-lb. and nine 2000-lb. Beaters and eight Jordans. Improved Washing System. Two Screens and six Pulpers. Seven Fourdriniers; widest trimmed sheets, 107, 111, 117 and 130 inches. Width of Super-Calenders, 35 inches min. to 123 inches max. MONARCH MILL, S. P., Kalamazoo, Mich. Six 1400-lb. Beaters, four Jordans, two Improved Washers and five Rotaries. Two Fourdriniers; widest trimmed sheets, 111 and 120 inches. Width of Super-Calender, 58 inches. BRYANT MILL: Fourteen Beaters, ten Jordans, twelve Refiners, six Pulpers and seven Screens. Five Fourdriniers; widest trimmed sheet, 152 inches. Width of Super Calenders, 60, 64, 70, 90 and 160 inches. Also Coating Mill. Purchased Electricity: 5000 k.w.; Generated: 11,500 k.w., 440-2300 v., 60 Cycles, 3 Phase; 37,000 h.p. Installed; Coal; 300, 400, 600 p.s.i Steam Pressure. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Catalogue, Offset; Map Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Box Cover, Lining, Roto, Litho Coating Raw Stock, Bible and Specialties. 300 tons 24 hours. COATED: Offset, Label, Dull Finish, Folding Enamel Cover, Varnish Label, Post Card, Gloss Ink Papers, C1S and C2S Enamels, Inserts. 200 tons 24 hours. SEMI-CHEMICAL AND DE-INKING PULP MILL. Two Digesters. Bleached Semi-Chemical Pulp, 100 tons 24 hours. (Pulp mill under construction, expected to be in op-

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NATIONAL GYPSUM CO.; Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; F. A. Manske, Pres.; E. W. Odenwaldt, Vice-Pres. Mfg. L. L. Hank, Vice-Pres. Operations; S. G. Stapier, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Three 1800-lb. HS Beaters, one 150-ton Pulper, and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Steam and Electricity. Gypsum Liner Board Paper. 135 tons 24 hours. Highway, U. S., 12. Phone: Fireside 3-1275.

REX PAPER CO., P. O Box 751, King Highway. (J. E. Lean, Pres. and Gen. Mgr.; J. G. Ruimveld, Sec. and Pur. Agt.; J. M. Bireley, Sr., Treas.; H. G. Nendorf, Gen. Supt.; H. E. Warren, Paper Mill Supt.; G. R. Haggerson, Tech. Dir. and Chief Chem.; L. M. Pinkerton, Chief Engr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. Four 1400-lb. J. H. Horne & Sons Beaters, two Horne Jordans, two E. D. Jones Co. Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 113-inch Fourdrinier; widest trimmed sheet, 104½ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book. 30 tons 24 hours. Also six Machine Coating Mills, Highway, State, 96. Phone: Fireside 2-0151.

ST. REGIS PAPER CO.; Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.

KVP SUTHERLAND PAPER CO., SUTHERLAND DIV., formerly Sutherland Paper Co., 243 E. Paterson. Main Office, Parchment, Mich. For executives, see Main Office.) S.P. at mill. Railroad Sidings, N.Y.C., Penn. and C. K. & S.R.R. EAST SIDE PLANT. Two Refiners. One Seven Cylinder, widest trimmed sheet, 93 inches. NORTH SIDE PLANT. Eight 2000-lb. Beaters, one Shartle Breaker Beater, six Hydrapulpers and four Hydrafiners, two Continuous Broke Beaters and seventeen Jordans. One 100-inch Seven Cylinder, one 116-inch Seven Cylinder, one 132-inch seven Cylinder and one 154-inch Eight Cylinder; widest trimmed sheets. 90, 102, 120 and 138 inches. Steam and Electricity. Folding Box Boards, Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Polyethylene Coated Boards, Hot Waxed and Cold Water Waxed Grades. East Side Plant, 100 tons 24 hours; North Side Plant, 450 tons 24 hours. Highways, U. S., 12 and 131, 1 mile; State, 43, ½ mile. Phone: Kalamazoo, Fireside 3-1651.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Alfred H. Nadelman, Head of Department; Paul V. Sangren, Pres.) Five Experimental Beaters and one Bauer Refiner. One Jones Midget Jordan and two Pulpers. One Noble & Wood Sheet Machine, various. Sheet Molds. One Pilot Stock Preparation System. One 28-inch Pilot Fourdrinier with Size Press; widest trimmed Sheet, 24 inches. One 24-inch Universal Coating Machine. Two Experimental Stainless Steel Digesters. Experimental

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MANISTIQUE PULP & PAPER CO Main Office Box 111, Manistique Mich Owned by Field Enterprises Inc Chicago Ill (Wilbur C Munnecke Pres F S Hoholik Vice Pres and Gen Mgr Burton J Nelson Vice Pres George B Young Sec John F Cross Jr Treas Zenon F Rozycki Tech Dir) Railroad Sidings Soo and Ann Arbor R R Three 1000 lb Beaters two Screens one Jordan one Renner and one Pulper One 166 inch Fourdrinier widest trimmed sheet 154 inches Water and Electricity Coal 165 psi Steam Pressure Groundwood Papers Newsprint Novel Rotogravure Catalog and Hanging 90 tons 24 hours GROUND WOOD PULP MILL Six Magazine Grinders and one Refiner Water and Electricity Ground Wood 85 tons 24 hours DE INKED PULP MILL De inked pulp 35 tons 24 hours Average Daily Consumption of Peeled Pulp Wood 7 Cords Highway U S 2 Phone Manistique 160

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MARATHON DIV American Can Co See Menasha Wis for Corporate Officials (Larry S Sapatke Plant Mgr A S Suminsk Paper Mill Supt John A Gasperi Converting Supt Martti Lundstrom Plant Engr) Six Claflin Renners one Jordans and one Hydrapulper One 16-inch Black Clawson Fourdrinier widest trimmed sheet 154 inches One Yankee Fourdrinier widest trimmed sheet 128 inches Generated Electricity Coal Water Treatment Plant Bleached Board Specialties Waxing Tissue 260 tons 24 hours Highways U S 17 and 4 Phone Menominee 5596

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Monroe—Monroe Co.

On N Y C, Penn P M, D & T and C & O R R Nearest Air Port, Willow Run

CONSOLIDATED PAPER CO, P O Box 72- 921 E Elm Ave (C H R Johnson Pres and Gen Mgr R D James Vice Pres and Gen Sales Mgr, K E Verhoeven, Vice-Pres Corr and Automotive Div S J Newcomer Vice Pres Product Dev C J Phinney Vice-Pres and Sales Mgr Container Board Div F H Bock Sec Treas V C Matthews Sales Mgr Corrugated Div K E Heusman Sales Mgr Automouve and Forming Board Div, J W Conn, Sales Mgr Folding Carton Div J P Bronson, Sales Mgr Box Board Div R G Rau Field Salesman, Asphalt Drum Div W O Lunsford Mgr of Research and Dev H M Blandin Research and Development Plastics Div R D Morse Mgr of Mfg Norman F Krueger Mgr Bremen Ind Branch Plant T E Clark Pur Agt Harold C Marten Traffic Mgr) S P Railroad Sidings at Mills TEST LINER MILL Two Dilts Beaters three 20 foot Hydrapulpers and twelve Jordans Two Machines widest trimmed sheets 108 inches and 122 inches 36 tons 24 hours BOX BOARD MILL Eight Dilts Batch Beaters three Continuous Breaker Beaters and thirteen Jordans Four 1- foot and three 20 foot Hydrapulpers Three Machines widest trimmed sheets 103 1/2 and 113 inches 375 tons 24 hours STRAW BOARD MILL Six Jordans eleven Washers and sixteen Rotaries Three Cylinders widest trimmed sheets, 52 71 and 88 inches Steam Straw Board for Corrugating 125 tons 24 hours PANEL BOARD MILL Nine Beaters and four Jordans Seven Wet Machines one 52 inches, four 62 inches and one 96 inches and one 136 inches Steam Automobile Panel and Resin Forming Board 160 tons 24 hours PRODUCTS Corrugating Straw Board Corrugated Sheets Folding Box Board Cylinder Test Liners Clay Coated Box Board Automobile Panel Board Resin Forming Board Pasted Boards Corrugated Shipping Containers Folding Cartons Asphalt Shipping Drums Beverage Containers Waterproof and Greaseproof Folding Cartons Highways U S 24 1 mile East and 25 2 mile East State 56 1 mile West 24A Phones Cherry 1 9 0 and 1 900-

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3500 k. w. Installed, 230 Motors, 440-2300 v., Electric Drives. Coal. 25, 160 and 600-lb. Steam Pressures. Cylinder Kraft Liner Board, .009 Corrugating Medium and Bleached Semi-Chem. Food Board. 120 tons 24 hours. SEMI-CHEMICAL PULP MILL. Five Digesters and one Wet Machine. One Drying Machine, one Pandia-American Defibrator Unit and two Bauer Refiners. Semi-Chemical Pulp. 200 tons 24 hours of which 150 tons are bleached. Average daily consumption of peeled birch and maple pulp wood, 200 cords. Highways, U. S., 45, 1 mile; State, 64. Phone: Ontonagon 1.

Otsego—Allegan Co.

On N.Y.C. R.R. M.O., Bank and Exp. Tel. at Kalamazoo. Greyhound Bus Lines. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER CO., Div. of United Biscuit Co. of America. (W. E. Hurlbut, Pres. and Gen. Mgr.; M. V. Stowe, Treas.; R. A. Faller, Sales Mgr.; H. A. Bongers, Supt.; Richard Glaser, Tech. Dir.; A. W. Tackaberry, Chief Engr.; L. M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P. at mill. MAC SIM BAR MILL. Fifteen 1200-lb. four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Plain, Oak, Marble, Burlap Grained Solid Jute Board, Machine Clay Coated News and White Patent Coated News. 300 tons 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

OTSEGO FALLS PAPER MILLS, Div. of Menasha Wooden Ware Corp. (R. J. Suess, Pres. and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A. McConney, Sec.; Mowry Smith, Treas.; Clifford Sage, Jr., Supt.; E. R. Tinglowski, Tech. Dir.; Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur. Agt. and Production Mgr.; J. B. Watters, Woodlands Mgr.) Railroad Siding, N. Y. C. R. R. S. P., at mill. One 2500-lb. Beater, one Hydrapulper, two Jordans and two Refiners. Two Fourdriniers; widest trimmed sheets, 78 inches and 98 inches. Steam and Electricity. Jute Corrugating Semi-Chemical Wood Pulp Boards, 150 tons 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters Unbleached Semi-Chemical Pulp, 130 tons 24 hours. Average Daily Consumption of Pulp Wood, 150 Cords. Highways, U. S., 131, 3 miles; State, M89. Phone: Otsego, OXford 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel.; M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Floyd M. Murphey, Jr., Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Charles R. Ehinger, Supt.; Edward McCormick, Power Plant Supt.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans. One Hydrafiner, three Screens and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated. 60 Cycles, 3 Phase; Coal; 200 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating. 50 tons 24 hours. Highway, U. S., 223. Phone: Colfax 5-5174.

Parchment

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KVP SUTHERLAND PAPER CO., formerly Kalamazoo Vegetable Parchment Co. (Dwight L. Stocker, Pres.; E. Norval Hunter, First Vice-Pres.; H. R. O'Donnell, Asst. to Pres.; S. A. Angotti, Vice-Pres.; W. Donald Brownell, Vice-Pres.; Robert D. Caine, Vice-Pres.; C. Longford Felske, Vice-Pres. and Treas.; James T. Kirkpatrick, Vice Pres.; A. L. Sherwood, Vice-Pres.; Harold De Weerd, Sec.; B. C. White, Cont. and Asst. Treas.; Stewart Geelhood, Asst. Vice-Pres. and Asst. Treas.; C. W. Walton, Asst. Vice-Pres.; H. M. Johnson, Asst. Sec.; C. W. Lawrence, Asst. Sec.; H. R. Luikens, Pur. Agt.; Frank Wotalewicz, Pur. Agt.; Melvin Lievense, Traffic Mgr.; C. L. Fenstermaker, Traffic Mgr.) KVP DIVISION: Railroad Sidings, N. Y. C. and C. K. & S. R. R. MILL NO. 1. Three Fibremasters, five 2000-lb., two 2500-lb. and two 4000-lb. Beaters, and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 2500-lb. Vortex Beaters, ten Majestic Jordans, three Fibremasters, one 2500-lb. Pulpmaster, one 2000-lb. Slushmaker and one Continuous Beater. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 145 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 145 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Thirteen Waxing Machines. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Bond, Manifold, Offset, Wrappings and Paper Specialties. MILL NO. 1, 87½ tons; MILL NO. 2, 207½ tons 24 hours. Highways, RiverView Dr.; U. S., 131 and 12. Phone: FIreside 3-2581.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O. and Tel.

HAMILTON PAPER CO., Michigan Div., formerly Michigan Paper Co. of Plainwell. Main Office, Miquon, Pa. Sales Offices at Miquon, Pa.; New York City, Chicago and Los Angeles. (L. D. Nicolson, Vice-Pres. in Charge; J. G. Kaufman, Asst. Sec., Asst. Mgr. and Chief Engr.; M. E. Burkheiser, Asst. Treas.; Ray L. Barton, Supt.; J. A. Dean, Chief Chemist; Harold

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One 110-inch
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Two 132-inch
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Steam Pressure Water and Effluent Treatment Plants Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Automotive, Mounting and Food Packaging Boards 60 tons 24 hours Highways U S 131, 1 mile, State, 60, 1 mile Phone CR 3-1015

Vicksburg—Kalamazoo Co

On G T Penn R R M O, Bank and Ex Nearest Air Port Kalamazoo

SIMPSON LEE PAPER CO, Lee Paper Co Div, formerly Lee Paper Co (Maxwell D Bardeen, Pres and Gen Mgr, Norman Bardeen Vice-Pres and Sales Mgr A A Christian Vice-Pres, Sec and Prod Mgr K A Warren, Treas Arthur Katt Supt John Stroud Pur Agt, James Winn, Tech Dir) S P at mill Railroad Siding Penn R R Two 1500-lb and three 1000-lb Beaters four Jordans six Refiners three Pulpers, six Screens and seven 1000-lb Washers and four 10,000-lb Rotaries One 121½-inch one 132-inch and one 134-inch Fourdriniers widest trimmed sheets 107 inches, 119 inches and 121 inches Steam and Electricity Rag Bond and Ledger Rag and Sulphite Text and Cover Bristols and Vellums Specialty Papers 100 tons 24 hours Highways U S 131 6 miles West State M60 6 miles South Phone Vicksburg MIdway 9-5021

Watervliet—Berrien Co

On C & O R R Bank and Exp Air Port at Benton Harbor

WATERVLIET PAPER CO Division of Hammermill Paper Co (For Executives see Hammermill Paper Co Erie Pa At Watervliet V Friedrick Jr Div Mgr H W Parnass Sales Mgr E Dale Meahl Prod Mgr L J Scheid Dir of Mfg A H Hupp Mgr of Coating Dev C Burdell Chief Engr J C Tongren Tech Dir W P Jones Pur Agt John Hanson Woodlands Mgr D D McKinney Personnel Mgr F G Johnson Div Cont) S P at mill Railroad Siding C & O—Pere Marquette Div Four Jordans and two pulpers One 124-inch and one 133-inch Fourdriniers widest trimmed sheets 114 inches and 127 inches Width of Embossing Equipment 52 inches Coated—Book Offset one Side Litho Cover and Post Card Playing Card Stock and Offset 105 tons 24 hours SEMI-CHEMICAL PULP MILL Three Globe Rotary Digesters and two Refiners Electricity Half Purchased and Half Generated 450 h p Installed Water Power Coal 235 p s i Steam Pressure Semi Chemical Pulp 50 tons 24 hours Highways U S 12 State 140 Phone Watervliet-Ingersoll 3 3141

White Pigeon—St. Joseph Co.

On N Y C R R M O Exp and Bank Nearest Air Port at Three Rivers, Mich Greyhound Bus Line

WEYERHAEUSER CO Boxboard and Folding Carton Div Division Office 919 N Michigan Ave Chicago 11, Ill Main Office Tacoma Wash For Executives see Tacoma (T E Morriss, Vice-Pres and Mgr, J B Collett Sales Mgr O F Flatland, Supt, N Monroe, Tech Dir, Le Roy Nusbaum, Chief Engr., L A Weyrick Pur Agt) MILL NO 2 Railroad Siding, N Y C R R Fourteen 1200-lb Beaters one 12,000-lb Breaker, one 20,000-lb Hydrapulper and eight Jordans One 100-inch and one 122-inch Seven-Cylinder Machines widest trimmed sheets, 92 and 110 inches Generated Electricity 6000 k w, 3 phase Coal and Oil 500 p s i Steam Pressure Single and Double Patent Coated News Clay Coated Folding Box Boards Single and Double Manila Lined and Bending Chip 200 tons 24 hours Highway, U S, 112, ½ mile

Ypsilanti—Washtenaw Co.

On N Y C.; M C R R M O, Tel and Exp Nearest Air Port, Willow Run at Detroit

PENINSULAR PAPER CO (Daniel T Quirk, Pres and Treas.; D G Quirk, Vice-Pres, Mrs Florence S Gilmore Sec John Ely Supt H P Quirk, Chief Engr, Glenn Touse, Chief Chemist, Walter Dice Maintenance Head, E C Robtoy, Traffic Mgr) S P at mill Two Hydrapulpers One 65-inch and one 86-inch Fourdriniers widest trimmed sheets, 57 and 80 inches Width of Paster 51 inches One 40-inch Plater and one 40-inch Embosser Steam and Electricity, Coal Cover Colored Specialties Sulphite and Bleached Kraft Specialties 40 tons 24 hours Highways U S, 112 State 12 and 17 Phone HUnter 2-2600 Teletype Ypsilanti 40

MINNESOTA

Bemidji—Beltrami Co.

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NU-PLY CORP (F Russell Eggers, Pres and Gen Mgr Lloyd K Johnson Vice-Pres, A C Nasvik Sec-Treas Archie Gulsvig Supt Don Gould Tech Dir Don Hanson Chief Engr) S P at Mill Railroad Siding N P R R Special Machinery Purchased Electricity 60 cycles 3 phase Installed Electric h p 2155 Oil 200 p s i Steam Pressure Standard and Panel Hardboard 1/10" to 3/8" thickness and Special Types 42 tons 24 hours PULP MILL Three #445 Bauer Refiners Highway U S 2 and 71-371 Phone PL 1 51-0 5141, 5143

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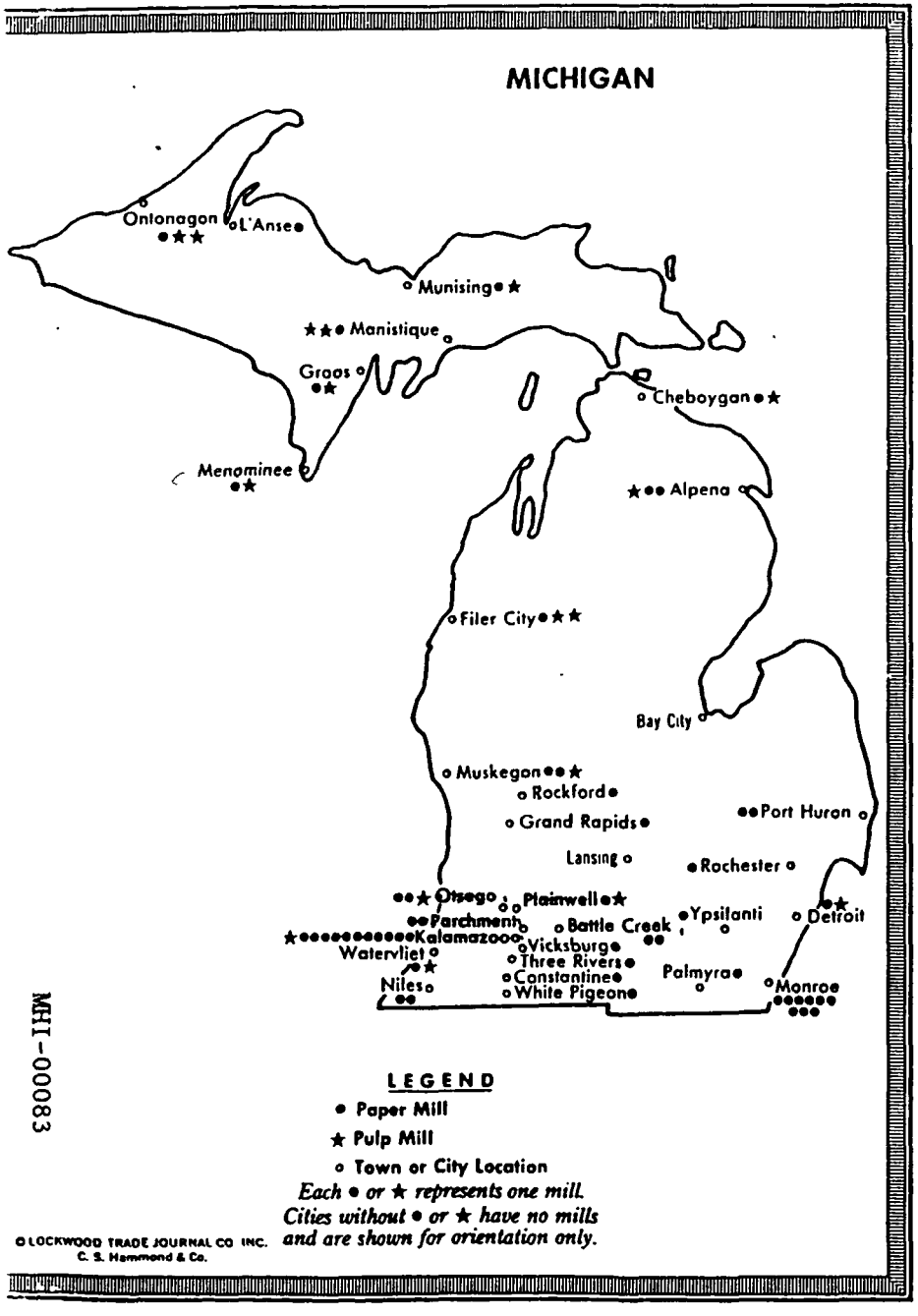

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100 PARK AVENUE NEW YORK 17, N. Y.

West Springfield—Hampden Co.

On N. Y. C. R. R. M. O. and Bank. Tel. and Ex., Springfield, 3 miles. Bradley Field, Windsor Locks, Conn., 13 miles.

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SOUTHWORTH CO. (Melvin D. Southworth, Chairman of Board; Phelps Brown, Pres. and Treas.; Paul W. Cheney, Vice-Pres.; John H. Southworth, Sec.; Gordon D. Frost, Sales Mgr.; Alfred L. Montagna, Supt.) Railroad Siding, B. & A. R. R. One 1200-lb. and four 850-lb. Beaters. One 81-inch Fourdrinier; widest trimmed sheet, 44 inches; widest machine finished paper in rolls, 70 inches; widest tub sized paper in rolls 68 inches. Water and Electricity. Bonds, Linens, Ledgers, Typewriter Papers, Onion Skin, Manuscript Covers and DeLuxe Bonds with Visible Watermarks, 10 tons 24 hours. Highway, U. S., 20, ⅛ mile. Phone: REpublic 2-5141.

STRATHMORE PAPER CO. Mills at Turners Falls, West Springfield and Woronoco, Mass. New York Office, 25 West 43rd St. (F. N. Bridgham, Chairman of Board; H. D. Johnston, Pres.; H. E. Riggs, Vice-Pres. in Charge of Sales; B. P. Wood, Vice-Pres. in Charge of Prod.; Paul A. Wilks, Vice-Pres. and Treas.; B. E. Stafford, Clerk; P. G. Volanakis, Asst. to Pres.; C. E. Benoit, Asst. to Vice-Pres. in Charge of Prod.; R. B. Clark, Jr., Gen. Sales Mgr.; R. L. Fastie, Mgr. Tech. Paper Sales; James H. Sweet, Mgr. Converter Paper Sales; J. G. Gallup, Mgr. Product Dev.; P. P. Gooding, Tech. Dir.; W. A. McGilpin, Mgr. New York Office; G. G. Bullard, Mgr. Mill Sales Office; R. E. Hosmer, K. A. Sheridan, D. W. Bush and W. L. Bryan, Mill Supts.; J. C. Gallatin, Jr., Chief Chem.; J. S. Mudgett, Chief Engr.; G. B. Shattuck, Mgr. of Supply; Everett Hallberg, Pur. Agt.; E. A. Eddings, Traffic Mgr.) Railroad Siding, B. & A., B. & M., N. Y., N. H. & H. R. R. Thirty-seven Beaters, eleven Refiners, twenty-two Washers and eight Rotaries. One 66-inch, one 77-inch, one 83-inch, one 86-inch, one 87-inch, one 90-inch and one 107-inch. Fourdriniers and two Special Fourdriniers. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Onion Skin, Air Mail, Ledger, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes 80 tons 24 hours. Phone: Republic 6-8301.

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On Southern Div. B. & M. R. R. M. O., Tel., Bank and Exp., Gilbertville, Mass. Nearest Air Port, Bradley Field.

ROMAR TISSUE MILLS, INC., formerly Doeskin Products, Inc. (Robert Belsky, Pres.; Maurice Belsky, Vice-Pres. and Treas.; Geo. B. Scully, Clerk; Larry Messier, Supt.) S. P. at Mill. Railroad Siding, B. & M. R. R. Four Emerson Jordans, two Hydropulpers, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 100, 106, and 112 inches wide. Electricity. Oil. 160-lb. Steam Pressure. Facial and Toilet Tissue, Pocket Pack and Cellulose Wadding, Dinner and Luncheon Napkins, Sanitary Napkins and Towels, Cellulose Wadding in Rolls and Sheets and Industrial Wipes, 50 tons 24 hours. Phone: Gilbertville 5291.

Woronoco—Hampden Co.

On B. & A. R. R. M. O. and Tel.; nearest Bank, Westfield, 6 miles.

STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U. S., 20. Phone: Springfield, Republic 6-8301.

MICHIGAN

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On D. & M. R. R., Greyhound Buses, Tel., Bank, Exp. and Air Port.

ABITIBI CORP., Subsidiary of Abitibi Power & Paper Co., Ltd. Main Office, 408 University Ave., Toronto 2, Ont. Head Office, Alpena, Mich. Gen. Sales Office, 956 Penobscot Bldg., Detroit, Mich. Phone: WOodward 1-9545; Eastern Region, 680 Fifth Ave., New York 19, N. Y. Phone: CIrcle 6-0480; Chicago Dist. 333 N Michigan Ave. Phone: FRanklin 2-4559. (D. W. Ambridge, Pres.; P. E. Roberts, Executive Vice-Pres.; C. H. Rosier, Vice-Pres. and Gen. Mgr.; F. R. Boynton, Sec.-Treas.; N. E. Allard, Asst. Treas.; O. B. Eustis, Mill Mgr.; A. J. Auden, Woods Mgr.; R. M. Granum, Plant Supt.; L. M. Garrett, Mfg. Supt.; L. Keller, Finishing Supt.; W. J. Bigham, Personnel Mgr.; B. E. Taylor, Hardboard Mfg. Supt.; R. E. Paul, Control Supt.; L. Ford, Quality Supt.; F. E. Eland, Plant Engr.; O. Crews, Master Mechanic; F. X. O'Brien, Power Plant Supt.; C. W. Baldwin, Chief Electrician; T. Blundell, Pur. Agt.; R. R. Ticknor, Office Mgr.; W. E. Kidd, Traffic Mgr.; J. E. Lamy, Chief Forester.) One 4-ft. and one 13-ft. nominal width Fourdriniers Separate power

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plant (900 p s i. steam); two-thirds generated and one-third purchased electric power; 60 cycles, 3 phase, 440 v. and 4160 v. Motors. S1S (20-deck Press) and S2S (14-deck Press) Hardboards, Hardboard Specialties and Rigid Insulation Board Products. 200,000,000 sq. ft. annually. PULP MILL. Special Process Woodpulp. Average Daily Consumption of Pulp Wood, 240 Cords. Phone. ALpena, ELmwood 4-2121.

FLETCHER PAPER CO. Main Office, 318 W. Fletcher St., Alpena, Mich. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; R. Werner, Sec.-Treas. and Pur. Agt.; Chas. S. White, Gen. Mgr.; A. Mausolf, Gen. Supt.; E. Hall, Paper Mill Supt.; J. A. Reinke, Chief Engr.; R. C. Johnson, 20 N. Wacker Dr., Chicago 6, Ill., Sales Mgr.; M. Lefevre, Tech. Dir.; G. Grant, Finishing Supt.; C. Gilbo, Traffic Mgr.) S. P., at Mill. Railroad Siding, Detroit & Mackinac Ry., Mulvena Truck Lines. Four Refiners, four Jordans, and two Pulpers, Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches. Steam and Electricity. Offset, Manifold, Bond, Register Bond, Opaque Bond, Duplicator, Mimeograph, Adding, Map Bond, Bible and Light Weight Converting. 60 tons 24 hours. Highways, U. S. 23; State, 32. Phone: El 4-4121.

Battle Creek—Calhoun Co.

On G. T.; M.; & M. C. R. R. Tel., M. O., Bank, Exp. and Air Port.

MICHIGAN CARTON CO., 79 E. Fountain. (L. G. Fell, Chairman and Treas.; Dan Int-Hout, Jr., Pres.; Robert G. Pender, Vice-Pres. Paperboard Marketing; C. H. Cameron, Vice-Pres. Mfg.; L. J. Phillips, Vice-Pres. Engrg.; J. G. McCarthy, Sec.; Verne K. Livingston, Asst. Treas.; Norman Schmitzer, Cont.; H. L. Chorpening, Gen. Sales Mgr.; N. A. Pennetti, Supt. Fountain St. Mill; L. A. Carlson, Supt. Angel St. Mill; Robert S. Taylor, Carton Div. Supt.; W. O. Kroeschell, Tech. Dir.; Leo Styer, Pur. Agt.; J. R. Vosburgh, Traffic Mgr.) S. P., at Mill. Railroad Siding, Michigan Cent. and Grand Trunk R. R. ANGEL ST. MILL: One 2000-lb. Broke Beater, six Jordans, four Hydrafiners, one 4000-lb. Morden Slushmaker; one 14-ft., one 16-ft. and one 0-ft. Hydrapulpers; one hundred and one 60-inch Dryers. One Beloit Eight-Cylinder Machine; widest trimmed sheet, 130 inches. Electric Power, 50% Purchased and 50% Generated. FOUNTAIN STREET MILL: One Jones Double "D" Finner and two Bauer Refiners, thirteen Jordans, 4000-lb. Morden Slushmakers, two 3000-lb. pers, two 16-ft. Hydrapulpers. One Black-wson Seven-Cylinder Machine, widest trimmed t, 96 inches and one Stevens Seven-Cylinder ner Machine; widest trimmed sheet, 122 s. 100% Generated Electric Power. Sin-Bleached Manila Lined Chip and News, Patent Coated Solid Manila Back, White Patent Coated News, Single and Manila Lined Chip, Test Jute Board, Manila Lined Chip or News Center Bleached Manila Lined Chip or News White Patent Coated News Center Back, White Bleached Sulphite Solid Back, Bleached Sulphite News Center nila Back, Double Bleached Sulphite Manila Center, Solid Bleached Sulphite, Bending Chip, Kraft Lined Chip, Solid Manila, Plain Chip, White Patent Coated News and Chip and Clay and Machine Coated, 410 tons 24 hours. Highways, U. S., 12; State, 78. Phone: WO.—3-5511.

Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes Transportation. M. O., Tel., Bank and Exp. Nearest Air Port, Petosky, Mich.

CHARMIN PAPER PRODUCTS CO. See Main Office, Green Bay, Wis., for officials and grades. (N. Raymaker, Div. Mfg. Supt.) S. P., at Mill. Railroad Siding, D. & M. Two 136-inch Yankee Fourdriniers; widest trimmed sheet, 124 inches. GROUND WOOD MILL. Three Grinders, Medium Density Bleaching System. Highway, U. S., 27.

Constantine—St. Joseph Co.

On N. Y. C. R. R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

CONSTANTINE PAPERBOARD DIV. of the Davey Co. Main Office, 164 Laidlaw Ave., Jersey City, N. J. (For Executives, see Main Office, Robert C. Dodd, Mill Mgr.; Thomas Manion, Supt.; Howard Reinoehl, Asst. Mgr. and Pur. Agt.) S. P., at mill. Railroad Siding, N. Y. C. R. R. Two 1000-lb. Beaters, two Pulpers and three Jordans, six Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 96 inches. Purchased Electricity, 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 50 tons 24 hours. Highway, U. S., 131, 1 mile: Indiana Toll Road, 8 miles. Phone: GEneva 5-4285.

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line; Det. Ter.; G. T.; N. Y. C.; Penn.; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., Detroit Div., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. Main Office, Chester, Pa. For executives, see Main Office. (At Detroit: G. N. Carleton, Vice-Pres.; K. G. Sell, Detroit Sales Mgr.; M. F. Schnaufer, Plant Mgr.; F. M. Foster, Plant Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.) Railroad Siding, Mich. Cent. R. R. DELRAY MILL. S. P., at mill. Seventeen 1400-lb. Beaters, seven Jordans and seven Paper Machine Ventilator Systems. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue, Napkins, Wipers, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers,

Waxing, Fourdrinier and Machine Glazed Specialties. 200 tons 24 hours. SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 162½ tons 24 hours. Phone: VI 2-0042.

Filer City—Manistee Co.

On M. & N. E.; Pere Marquette R. R. M. O.; nearest Bank and Tel., Manistee, 2¼ miles. Nearest Air Port, Manistee-Blacker.

PACKAGING CORP. OF AMERICA. General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Offices. (G. Dlesk, Gen. Mgr.; John Oakes, Sales Mgr.; D. Elliott, Plant Engr.; J. Challas, Tech. Supt.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S.P., Manistee. Railroad Siding, M. & N. E. R. R. Five Sutherland Refiners, eleven Jordans, five Bleachers, nine Filters and three Pulpers and three Ross Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches wide. Electricity, 17500 k.w., 60 Cycles, 3 Phase, 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper, 400 tons Bleached Kraft Food Board, 150 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Seven Digesters, two B. K. Continuous Dig. Chemipulpers, nine Sprout Waldron Grinders. Steam and Electricity. Semi-Chemical Pulp, 400 tons and Bleached Kraft Pulp, 165 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 2 miles. Phone: PArkview 3-9951.

Grand Rapids—Kent Co.

On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

PACKAGING CORP. OF AMERICA. 415 Fulton St., E., Grand Rapids 3, Mich. General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Office. (M. Nossaman, Gen. Mgr.; I. P. Nicole, Eng. Mgr.; Wm. Glaske, Gen. Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 200 tons 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile Phone: GL. 9-4581.

Groos—Delta Co.

On B. & L. S. R. R. Exp., M. O., Tel. and Bank at Escanaba, 6 miles.

MEAD CORP., Escanaba Div. P. O. Address, Escanaba. For Executives, see Main Office. Dayton, Ohio. (G. S. Douglas, Div. Mgr.; O. C. Christiansen, Supt.; G. C. Eastin, Tech. Dir.; R. H. Sogard, Plant Engr.; H. J. Vanlerberghe, Traffic Mgr.; C. V. Frans, Pur. Agt.; R. R. McDonough, Office Mgr.) Railroad Siding, Escanaba & Lake Superior R. R. Two 1500-lb. Beaters, one Hydrapulper and two Dynopulpers. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches. Steam, Electricity and Water. Coat Papers, Bleached Groundwood Content Book Papers and Specialties 225 tons 2 GROUND WOOD MILL. Seventeen Hydro-Electric Ground Wood. 100 tons 2 Average Daily Consumption of Peele Wood, 80 (128 cu. ft.) Cords. Highways, and 41; State, 35. Phone: Escanaba, ST

Kalamazoo—Kalamazoo Co.

On M. C.; N. Y. C.; Penn.; C. K. G. T. R. R. Greyhound Bus, 4 miles Air Port. M. O., Exp., Tel. and Bank

ALLIED PAPER CORP. Executive and eral Sales Office: 1608 Lake St. Midwestern Office: 168 N. Michigan Ave., Chicago, Ill. Klima, Sales Mgr. Eastern Sales Office: 60 42nd St., New York 17, N. Y. E. M. Bishop, Sales Mgr. (Arnold H. Maremont, Chairm W. D. Harrison, Pres.; J. D. Dailey, Senior Vi Pres.; E. J. Gilman, Vice-Pres Mfg.; W. J. G rity, Vice-Pres.-Sales; H. Bernick, Sec.-Trea J. D. Nisbet, Asst. Gen. Sales Mgr.; G. C. Fre Kalamazoo Sales Mgr.; R. M. Levy, Dir. of R search & Development; C. L. Russell, Dir. Quality Control; P. Kraushaar, Dir. Industri Rel.; H. Peeters, Dir Prod Scheduling; R. A Larson, Development Mgr.; H. R. Hall, Coatin Development Mgr.; G. Baldauf, Research Mgr. T. Kayhart, Engrg. Mgr.; V. Weaver, Gen. Supt King Div.; W. Buenger, Gen. Supt. Bryant Div., M. Carl, Gen. Supt. Monarch Div.; C. J. Bos, Mgr. Bryant Coating Div.; C. A. Yonkers, Dir. of Pur.; O. V. Mason, Traffic Mgr.) KING MILL: S. P., Kalamazoo, Mich. Railroad Sidings N. Y. C., G. T. W. and P. R. R. Two 2000-lb Beaters, four Pulpers, four Oliver Washers, three Bird Vibrator Screens and ten Jordans. Four Fourdriniers; widest trimmed sheets, 107, 111, 117 and 130 inches. Bauer Cleaners, 3-stage Bleach System, three Rewinders, four Cutters and five Trimmers; two Super Calender and Photographic Coaters. MONARCH MILL: S. P., Kalamazoo, Mich. Two Pulpers, three 2,400-lb. Beaters, two Claflins, five Jordans, two Hi-Speed Refiners, two Rewinders, two Cutters and one Trimmer. Two Fourdriniers; widest trimmed sheets, 111 and 120 inches. BRYANT MILL: Six Jordans, ten Morden Stockmakers, two High Speed Refiners, eleven Beaters (1400, 1500 and 1800-lbs.), seven Pulpers, three Oliver Washers, three Bird Vibrator Screens, 2-stage Bleach System, eight Cutters, nine Trimmers, seven Coaters seven Supercalenders and three Rewinders. Five Fourdriniers; widest trimmed sheets, two 126 127, 142 and 152 inches. Also Coating Mill. Purchased Electricity: 5000 k.w.; Generated: 11,500 k.w., 440-2300 v., 60 Cycles, 3 Phase; 37,000 h p Installed; Coal: 300, 400, 600 p.s.i. Steam Pressure. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Machine Offset; Map Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Box Cover Litho Coating Raw Stock, Bible and Specialties 300 tons 24 hours. COATED: Offset Label Finish, Folding Enamel Cover, Post Card, Gloss

MHI-00085

PULP MILL. Pulp 100 tons 24 hours Highways, U. S., 12 and 131; State, 43 and 96. Phone: Fireside 5-7131.

HAWTHORNE PAPER CO., P. O. Box 2858, King Highway. (William Slavin, Pres., Treas. and Gen. Mgr.; Louis J. Slavin, Executive Vice-Pres.; Carl W. Groesbeck, Vice-Pres. i/c Mfg.; S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent Master, Mimeograph, Duplicator, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 50 tons 24 hours. Highway, State 96. Phone: FIreside 5-1163.

KVP SUTHERLAND PAPER CO. Phone: Fireside 3-2581 and 3-1651. (Dwight L. Stocker, Pres.; E. Norval Hunter, Senior Exec. Vice-Pres.; J. R. O'Donnell, Exec. Vice-Pres.; Robert D. Cain, Exec. Vice-Pres.; W. Donald Brownell, Vice-Pres.; C. Longford Felske, Vice-Pres. and Treas.; James T. Kirkpatrick, Vice-Pres.; A. L. Sherwood, Vice-Pres.; Harold De Weerd, Sec.; J. C. White, Cont. and Asst. Treas.; Stewart Steelhood, Asst. Vice-Pres. and Asst. Treas.; T. W. Walton, Asst. Vice-Pres.; H. M. Johnson, Asst. Sec.; C. W. Lawrence, Asst. Sec.; H. R. Tuikens, Pur. Agt.; Frank Wotalewicz, Pur Agt.; Melvin Lievense, Traffic Mgr.; C. L. Fensterbaker, Traffic Mgr.) KVP DIVISION: (formerly Kalamazoo Vegetable Parchment Co.) Railroad Siding, N. Y. C. and C. K. & S. R. R. MILL NO. 1. Three Fibremasters, five 2000-lb., two 2500-lb. and two 4000-lb. Beaters, and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, six 2500-lb. Horne Beaters, two 1000-lb. Bertram Beaters, four 2000-lb. and one 500-lb. Jones Beaters, three 2500-lb. Vortex Beaters, ten Majestic Jordans, three Fibremasters, one 2500-lb. Pulpmaster, one 2000-lb. Flushmaker and one Continuous Beater. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Thirteen Waxing Machines, Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Bond, Manifold, Offset, Wrappings and Paper Specialties. MILL NO. 1, 87½ tons; MILL NO. 2, 207½ tons 24 hours. For Converting Eqpt., See Converters' Section. Highways, Riverview Dr.; U. S., 31 and 12; State 43.

SUTHERLAND DIV., formerly Sutherland Paper Co., S. P. at mill. Railroad Sidings, N.Y.C., Penn. and C. K. & S. R. R. EAST SIDE PLANT. Two Refiners. One Seven Cylinder, widest trimmed sheet, 93 inches. NORTH SIDE PLANT. Eight 2000-lb. Beaters, one Shartle Breaker Beater, six Hydrapulpers and four Hydrafiners, two Continuous Broke Beaters and seventeen Jordans. One 100-inch Seven Cylinder, one 116-inch Seven Cylinder, one 132-inch seven Cylinder and one 154-inch Eight Cylinder, widest trimmed sheets, 90, 102, 120 and 138 inches. Steam and Electricity. Folding Box Boards, Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Polyethylene Coated Boards, Hot Waxed and Cold Water Waxed Grades. East Side Plant, 100 tons 24 hours; North Side Plant, 550 tons 24 hours. For Converting Equipt., See Converters' Section. Highways, U. S., 12 and 131, State, 43.

KALAMAZOO PAPER CO. Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; J. M. Causey, Vice Pres. and Sales Mgr.; F. B. Curtenius, Vice-Pres. Prod. and Sec.; N. P. Hahn, Treas.; Robert W. Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; R. W. Woodruff, Pur. Agt.; Ralph Nichols, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Four 2500-lb. Beaters, two Pulpers, four Jordans, Deinking Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing on Both Machines. MILL NO. 2. Six 1500-lb. Beaters, four Jordans. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing on both Machines. MILL NO. 3. Four 1500-lb., three 2000-lb. and two 3000-lb. Beaters, one Pulp Master, seven Jordans, Deinking Equipment. One 145-inch, one 167-inch and one 180-inch Fourdriniers; tub sizing on 167-inch and 180-inch machines; widest trimmed sheets, 135 inches, 156 inches and 167 inches. (145-inch Fourdrinier is idle.) Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Register Bond, Label, Music, Drawing, Linings and Hangings. 300 tons 24 hours. Highway, U. S., 12, 2 miles East; Old U. S. 12 continues from junction as State 96. Phone: FIreside 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. (M. H. Baker, Chairman of Board; F. A. Manske, Pres.; E. W. Odenwaldt, Vice-Pres. Mfg. L. L. Hank, Vice-Pres. Operations; S. G. Stapler, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Three 1800-lb. HS Beaters, one 150-ton Pulper, and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Electricity. Gypsum Liner Board Paper, 135 tons 24 hours. Highway, U. S., 12. Phone: FIreside 3-1275.

REX PAPER CO., P. O Box 751, King Highway. (J. E. Lean, Pres. and Gen. Mgr.; J. G. Ruimveld, Sec. and Pur. Agt.; J. M. Bireley, Sr., Treas.; H. G. Nendorf, Gen. Supt.; H. E. Warren, Paper Mill Supt.; H. Dalrymple, Chief Engr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. One Black-Clawson 2000-lb. Hydrabeater, one Black-Clawson Series "O" Hydrafiner, one Black-Clawson No. 2 Jordan, two E. D Jones Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 113-inch Fourdrinier; widest trimmed sheet, 104¼ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book, Coated and Enameled Offset, Litho and Cover Papers. 30 tons 24 hours. Also six Machine Coating Mills, Highways, U. S., 94, 1 mile; State, 96. Phone: FIreside 2-0151.

ST. REGIS PAPER CO. Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (John R. Fanselow, Acting Head of Department; James Miller, Pres.; Russell H. Seibert, Vice-Pres.; Dale L. Faunce, Vice-Pres.; Jack Johnson, Supt.) One Jones Midget Jordan and two Pulpers. Two Noble & Wood Sheet Machines, various Sheet Molds. One Pilot Stock Preparation System. One 30-inch Pilot Fourdrinier with Size Press and Machine Calender; widest trimmed Sheet, 24 inches. One 24-inch Universal Coating Machine. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research. Purchased Electricity, 60 cycles, 3 phase. Paper and Board from 16 to 90 lb. (25 x 38-500). 4 tons 24 hours. Phone: FIreside 9-2611, Ext. 274.

L'Anse—Baraga Co.

On D.S.S. and A. R.R.

CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago 3, Ill., for executives.) F. J. Alfeis, Works Mgr.; A. O. Wirtanen, Plant Supt.; R. C. Roberts, Plant Engr.; A. H. Phillipp, Tech. Dir.) Building Board, Roof Insulation, Plank, Perforated and Unperforated Tile, Other Interior Finish Products, Sheathing and Other Exterior Insulation Board Products, 175 tons 24 hours. Phone: L'Anse 600.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Field Enterprises Inc., Chicago, Ill. (Wilbur C. Munnecke, Pres.; F. S. Hoholik, Vice-Pres. and Gen. Mgr.; Burton J. Nelson, Vice-Pres.; George B. Young, Sec.; John F. Cross, Jr., Treas.; Donald F. Skidds, Supt.; Zenon F. Rozycki, Tech. Dir.) Railroad Sidings, Soo and Ann Arbor R. R. Three 1000-lb. Beaters, two Screens, one Jordan, one Refiner and one Pulper. One 166-inch Fourdrinier; widest trimmed sheet, 154 inches. Water and Electricity, Coal, 165 p.s.i. Steam Pressure. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 90 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders and one Refiner. Water and Electricity. Ground Wood. 85 tons 24 hours. DE-INKED PULP MILL. De-inked pulp, 35 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 75 Cords. Highway, U. S., 2. Phone: Manistique 160.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R. Green Bay and Lake Michigan Steamers

MARATHON DIV., American Can Co. See Menasha, Wis., for Corporate Officials. (Martin Lundstrum, Plant Mgr.; A. S. Suminski, Paper Mill Supt.; John A. Gasperi, Converting Supt.; G. F. Schreiner, Plant Engr.) Two Claflin Refiners, five Jordans and four Hydrapulpers. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 154 inches. One Yankee Fourdrinier; widest trimmed sheet, 128 inches. Generated Electricity. Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 285 tons 24 hours. Highways, U. S., 41; State, 173. Phone: Menominee UN. 3-5595.

SCOTT PAPER CO., formerly Marinette Paper Co. See Exec. Office, Front and Market Sts., Chester, Pa. (Subsidiaries) for Executive Officers. (Operations Personnel: S. J. Lang Supt.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 19 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 17 Cords. Highway, U. S., 41, ½ mile. Phone: REdwood 5-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run

CONSOLIDATED PAPER CO., P. O. Box 724, 921 E. Elm Ave. (C. H. R. Johnson, Pres. and Gen. Mgr.; R. D. James, Vice-Pres. and Gen. Sales Mgr.; K. E. Verhoeven, Vice-Pres. Corr. and Automotive Div.; C. J. Phinney, Vice-Pres. and Sales Mgr. Container Board Div.; F. H. Bock, Sec.-Treas.; James A. Wells, Asst. Sec.; V. C. Matthews, Sales Mgr. Corrugated Div.; K. E. Heusman, Sales Mgr. Automotive and Forming Board Div.; N. F. Krueger, Sales Mgr. Folding Carton Div.; J. P. Bronson, Sales Mgr. Box Board Div.; R. G. Rau, Sales Mgr., Asphalt Drum Div.; W. O. Lunsford, Mgr. of Research and Dev.; T. E. Clark, Pur. Agt.; Harold C. Marten, Traffic Mgr.) S. P., Railroad Siding at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets 108 inches and 122 inches. 300 tons 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 37

MHI-00086

'ons 24 hours. STRAW BOARD MILL. Six Jor-
lans, eleven Washers and sixteen Rotaries. Three
Cylinders; widest trimmed sheets,, 52, 71 and 88
inches. Steam. Straw Board for Corrugating.
25 tons 24 hours. PANEL BOARD MILL.
Nine Beaters and four Jordans. Seven Wet Ma-
chines; one 52 inches, four 62 inches and one 96
inches and one 136 inches. Steam. Automobile
Panel and Resin Forming Board. 100 tons
24 hours. PRODUCTS: Corrugating Straw Board,
Corrugated Sheets, Folding Box Board, Cylinder
Test Liners, Clay Coated Box Board, Automobile
Panel Board, Resin Forming Board, Pasted Boards,
Corrugated Shipping Containers, Folding Cartons,
Asphalt Shipping Drums, Beverage Containers,
Waterproof and Greaseproof Folding Cartons.
Highways, U. S., 24, 1 mile East and 25, ½ mile
East; State, 56, ½ mile West 24A. Phones: Cherry
9000 and 1-9004.

MONROE PAPER PRODUCTS CO. Main
Office, 1151 W. Elm Ave. (Lawrence G. Kunkel,
Pres.; John P. Kinsey, Vice-Pres.; Robert M.
Swaney, Sec. and Gen. Mgr.; Thomas M. Banta,
Treas.; Gene L. Bennett, Sales Mgr.; Bernard
Kirby, Supt.; Robert Harter, Chief Engr.) Rail-
road Siding, Pere Marquette R. R. Two Hydra-
pulpers, and ten Jordans. One 124-inch Seven
Cylinder; widest trimmed sheet, 110 inches.
Steam and Electricity. Test Liners, Plain Chip,
Set-up Box Board, Automobile Panel Board,
Shipping Containers and Specialties. 135 tons 24
hours. Highway, U. S., 24. Phone: CHerry 1-3220.

UNION BAG-CAMP PAPER CORP., River
Raisin Paper Co., Div., formerly River Raisin
Paper Co., 1109 E. Elm Ave. (A. J. Goetz,
Pres.; A. W. Schulte, Vice-Pres.-Sales; Fred B.
Attwood, Vice-Pres. Mfg.; R. V. Hodge, Vice-
Pres.; Lawrence P. Jones, Vice-Pres.; F. T.
Schultz, Vice-Pres.; W. M. Pellot, Treas.; Gerald
I. Schuster, Cont.; J. G. Ladley, Gen. Sales Mgr.)
P. at all mills. MILL NO. 2. One 150-ton
Dilts Hydrapulper, one 112-inch Seven Cylinder
Board Machine; widest trimmed sheet, 98 inches.
MILL NO. 3. One 150-ton Asphalt Dispersal
System and one 150-ton Dilts Hydrapulper, one
124-inch Seven Cylinder Board Machine; widest
trimmed sheets, 112 inches. MILL NO. 4 One
0-ton APMEW Top Liner Pulper, one 150-ton
Dilts Filler Hydrapulper, one 124-inch Seven
Cylinder Board Machine; widest trimmed sheet,
12 inches. MILL NO. 5. One 100-ton Dilts
Hydrapulper, one 102-inch Two Cylinder
Board Machine; widest trimmed sheet, 90 inches.
Chip Boards, Container Boards, Fiber Boards,
Solid Fiber and Corrugated Fiber Shipping Cases
and Corrugated Fiber Packing Materials. 400
tons 24 hours. Highways, U. S., 24, 2 miles, and
, 1 mile; State, 56. Phone: Monroe, Cherry
7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W
and D. S. S. & A. M. O., Tel. and Ex.

KIMBERLY-CLARK CORP., Munising Mill.
Main Office, Neenah, Wis. (For Executives, see
Main Office; W. R. Beerman, Mill Mgr.) S. P. at
Mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two
136-inch Fourdriniers; widest trimmed sheet,
120 inches. Steam and Electricity. Bonds, Writ-
ing, Mimeograph, Ledger, Duplicator, Map
Paper, Impregnating, Coating Base Stock and
Bleached, Saturated and Coated Specialties. 80
tons 24 hours. SULPHITE PULP MILL. Three
Digesters; one 84-inch and three 72-inch Wet
Machines. Steam and Electricity. Bleached Sul-
phite Pulp, 90 tons 24 hours. Highways, U. S.,
41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O. and
G. T. P. R. R.; Muskegon Co. Airport; Grey-
hound Bus Lines. M. O., Tel., Bank and Exp.

BEMIS BRO. BAG CO., TEKMOLD DIV.
2850 Lincoln Ave., Muskegon, Mich. Main Office,
408 Pine St., St. Louis 2, Mo. (Judson Bemis,
Pres.; C. W. Akin, Exec. Vice-Pres.; F. G. Bemis,
Jr., Vice-Pres.; C. C. Hammer, Treas.; J. E. Zel-
ler, Resident Mgr.; John Froelich, Supt.) S. P. at
Mill. Railroad Siding, Grand Trunk Western.
Four Pulpers. Electricity, Gas. Moulded Pulp
Planters, Pots, Growing Containers and Protec-
tive Interior Packaging. 50 tons 24 hours. High-
ways, Interstate, 196, 2 miles from Sherman
Blvd.; State, 16 and 31, 2 miles from Sherman
Blvd. Phone PL. 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400
Lakeshore Dr. Main Office, 89 Broad St., Bos-
ton, Mass. For Executives, see Main Office.
(Operations Officials: F. W. Roberts, Vice-Presi-
dent and Mill Mgr.; W. A. Wrase, Ch. Engr.;
Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic
Mgr.; J. N. Fields, Woodlands Mgr.) S.P. at
mill. Railroad Siding. C. & O. R. R. Two 115-
inch, one 121-inch and one 165-inch Fourdri-
niers; widest trimmed sheets, two 96 inches, one
120 inches, and one 144 inches. Purchased and
Generated Electricity, 60 Cycles, 3 Phase, 11,000
h.p. Installed, Coal, 475 p.s.i. Steam Pressure.
Book, Coated Book, English Finish, Lithographic
Papers, Eggshell, Offset and Kraft. 175 tons 24
hours. SULPHATE PULP MILL. Six Digesters;
two Wet Machines. Bleached Sulphate Pulp, 125
tons 24 hours. Average daily consumption of
peeled pulp wood, 240 cords. Highways, U. S.,
16 and 31, 5 miles; State, 46. Phone: 51-681.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank.
Greyhound Bus Lines. Nearest Air Port,
South Bend, Ind.

FRENCH PAPER CO., 100 French St. (J. E.
French, Pres. and Gen. Mgr.; L. F. Kretchman,
Exec. Vice-Pres. and Treas.; T. Friedrich, Vice-
Pres. and Gen. Supt.; R. D. Clark, Sec. and
Cont.; B. Bigford, Sales Mgr.; E. Lingnowski,
Tech. Dir. and Chief Chem.; D. Pears, Traffic
Mgr.; R. Engberg, Chief Engr.; R. Etzcorn, Pur.
Agt.) S. P. at Mill. Railroad Siding, N. Y. C.
R. R. Four Dynapulpers, five Jordans and one
Refiner. One 95-inch and one 118-inch Four-
driniers; widest trimmed sheets, 84 and 105
inches. Generated Electricity, 440 v., 60 Cycles, 3
Phase, 1600 h.p. Installed Electricity; 1600 h.p.
Installed Water Power; Coal; 150 p.s.i. Steam

Pressure. Offset, Colored Offset, Opaque, Cover,
Embossed, Greeting, Text and Specialties. 60 tons
24 hours. Highways, U. S., 31 and 112; State 60.
MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main
Office, 200 Madison Ave., New York 16, N. Y.
(J. J. Shapiro, Pres. and Treas.; H. H. Bening-
ton, Vice-Pres.; Robert J. Shapiro, Vice-Pres.;
H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.;
A. L. Pilson, Sec.; At Niles: Howard H. Rausch,
Paper Mill Supt.; D. M. Parrish, Plant Engr.;
W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic
Mgr.) S. P. at mill. Railroad Siding, N. Y. C.
R. R. One Dynapulper and one 2000-lb. Beater
and four Refiners. One Paper Machine Exhaust
System. Two 136-inch Single Cylinders; widest
trimmed sheet, 120 inches. Sixteen Driers, 4 feet
x 136 inches. Purchased Electricity: 60 Cycles,
3 Phase, 1521 h.p. Installed. Sixty-eight motors of
220 and 440 v. 80-lb. Steam Pressure, Oil and
Natural Gas. Effluent Treatment Plant. Pattern
Tissue, 16 tons 24 hours. Highways, U. S. 31-112;
State, 60. Phone: Niles, MUtual 3-4100.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R.
M. O., Tel., Bank and Exp. Greyhound Buses.
Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER CO.,
formerly National Container Corp. of Mich.
Main Office, 1350 Fullerton Ave., Chicago, Ill.
(Alvin Huss, Pres.; Walter Brewer, Vice-Pres.;
H. S. Cartwright, Sec.-Treas.; Newton Cuneo,
Asst. Sec.; Geo. Riedel, Prod. Mgr.; Merlin King,
Chief Engr.; Robert McFarland, Sales Mgr.; Earl
Johnson, Woodlands Mgr.) Railroad Siding. S. P.
at mill. Two 2000-lb. Jones Beaters, five Jordans,
seven Refiners, two Screens and a Ross Paper
Machine Ventilator System. One 166-inch trim
Pusey & Jones Fourdrinier. Electricity: 60 Cycles,
3 Phase, 25% Purchased, 75% Generated, 3500
k.w. Installed, 230 Motors, 440-2360 v., Electric
Drives. Coal and Oil; 250 and 650-lb. Steam
Pressures. Kraft Liner Board, 150 tons 24 hours.
.009 NSSC Corrugating Medium, 250 tons 24
hours. SULPHATE and SEMI-CHEMICAL
PULP MILL. Five Digesters and one Pandia-
American Defibrator Unit and three Bauer and
four Sprout Waldron Refiners. Semi-Chemical
Pulp, 250 tons 24 hours Sulphate Pulp, 150 tons
24 hours. Average daily consumption of peeled
birch and maple pulp wood, 250 cords. Highways,
U. S., 45, 1 mile; State, 64. Phone: Ontonagan 1.

Otsego—Allegan Co.

On N.Y.C. R.R. M.O., Bank and Exp. Nearest
Air Port, 2 miles.

MAC SIM BAR PAPER PRODUCTS CO.
(W. E. Hurlbut, Pres.; L. M. Hart, Vice-Pres.;
M. V. Stowe, Sec.; Donald Hunsaker, Treas.;
R. A. Faller, Sales Mgr.; Karl Halladin, Gen.
Supt.; Chas. Myers, Mill Supt.; Richard Glaser,
Tech. Dir.; Fred Carroll, Plant Engr.; Robert
Orr, Pur. Agt.) Railroad Siding, N. Y. C. R. R.
S. P. at mill. MAC SIM BAR MILL. Fifteen
1200-lb. four 1500-lb. Beaters, one 175-ton
Breaker Beater, two Hydrapulpers and eleven
Jordans. One 126-inch Seven and one 142-inch
Eight Cylinders; widest trimmed sheets, 115 and
129 inches. Electricity, generated by Steam Tur-
bines. Coal. 250-lb. Steam Pressure. Water Treat-
ment Plant. Bending and Non-Bending Combina-
tion Box Boards, Plain Chip, News Vat Lined
Filled News, Solid News, White Vat Lined, Single
Manila Lined, Bleached Manila Lined, Pasted
Boards, Jute Lined, Mist Colored Suit Box
Boards, Florists' Box Boards, Machine Clay
Coated News and White Patent Coated News
300 tons 24 hours. Highways, U. S., 131, 2 miles
State, 89. Phone: Otsego, OXford 2-6211.

OTSEGO FALLS PAPER MILLS, Div. of
Menasha Wooden Ware Corp. (R. J. Suess, Pres
and Gen. Mgr.; D. G. Turner, Vice-Pres.; G. A
McConney, Sec.; Mowry Smith, Treas.; Clifford
Sage, Jr., Supt.; E. R. Timlowski, Tech. Dir.;
Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur
Agt. and Production Mgr.; J. B. Watters, Wood
lands Mgr.) Railroad Siding, N. Y. C. R. R.
S. P., at mill. One 2500-lb. Beater, one Hydra-
pulper, and four Refiners. Two Fourdriniers,
widest trimmed sheets, 78 inches and 98 inches
Steam and Electricity. .009 Corrugating Semi
Chemical Wood Pulp Boards, 130 tons 24 hours
SEMI-CHEMICAL PULP MILL. Four Rotary
Digesters Unbleached Semi-Chemical Pulp, 130
tons 24 hours. Average Daily Consumption of
Pulp Wood, 150 Cords. Highways, U. S., 131, 3
miles; State, M89. Phone: Otsego, OXford 2-6141

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and
Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address,
Adrian, Mich. (Floyd M. Murphey, Jr., Pres. and
Treas.; Robert H. Wood, Vice-Pres. and Sec.;
Charles R. Ehinger, Supt.; Edward McCormick,
Power Plant Supt.) One 16-ft. Continuous Shartle
Dilts Hydrapulper, two Jordans. One Hydrafiner,
three Screens and one 1000-G. P. M. Sveen Peder-
son Saveall. One 80-inch Beloit Three Cylinder;
widest trimmed sheet, 78 inches. Electricity, Part
Purchased and Part Generated, 60 Cycles, 3
Phase; Coal; 200 p.s.i. Steam Pressure. Chip
board, Specialties, Building and Insulating. 50
tons 24 hours. Highway, U. S., 223. Phone: Col-
fax 5-5174.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O.,
and Tel.

HAMILTON PAPER CO., (Subsidiary of
Weyerhaeuser Co., Tacoma, Wash.) Michigan Div.
formerly Michigan Paper Co. of Plainwell. Main
Office, Miquon, Pa. Sales Offices at Miquon,
Pa.; New York City, Chicago and Los Angeles
(L. D. Nicolson, Vice-Pres. in Charge; J. G
Kauffman, Asst. Sec., Asst. Mgr. and Chief
Engr.; M. E Burkheiser, Asst. Treas.; Ray L.
Barton, Supt.; J. A. Dean, Chief Chemist; Harold
Greenburg, Traffic Mgr.; R. F. Waber, Pur. Agt.)
Railroad Siding, Penna. R. R. One 6000-lb. Hy
drapulper, nine 1400-lb. Beaters and ten Refiners.
One 110-inch and two 130-inch Fourdriniers.
widest trimmed sheets, 98 inches and 120 inches

MHI-00087

Widest Super-Calender, 80 inches. Purchased and Generated Electricity, 3 phase, 60 cycles; Coal, 265 p.s.i. Steam Pressure. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeographed, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers and Post. 110 tons 24 hours. DE-INKED PULP MILL. De-Inked Pulp, 60 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: MUrray 5-8411.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Theo. W. Dunn, Chairman of Board and Treas.; Geo. C. Dunn, Pres. and Sec.; W. A. Fisher, Vice-Pres.; D. J. Haines, Asst. Treas.; Gladys Fockler, Asst. Sec.; W. W. Carr, Sales Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R. R. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 inches. Electricity. Sulphite and Sulphate Papers for Fine Crepe, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, Excelsior, One-time Carbonizing and Other M. G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 35 tons 24 hours. Highway, U. S., 25, ½ mile. Phone YUkon 5-5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; G. F. Durand, Pres.; F. B. McFarland, Vice-Pres.; J. L. Hoolihan, Vice-Pres.; R. S. Smeltzer, Sec.-Treas.; L. M. Sturdevant, Asst. Sec.; George Majis, Pur. Agt.; E. J. Janssens, Sales Mgr.; E. G. Donovan, Asst. Sales Mgr.; John Maes, Mgr. of Paper Prod.; Frank Davis, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; Carl Roglitz, Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 140-inch Yankee Fourdrinier; widest trimmed sheet, 128 inches; one 132-inch Fourdrinier, widest trimmed sheet, 122 inches. Steam and Electricity. Bond, Carbon Coating, Carbon Paper, Carbonizing, Carbonized Rolls, Coil Winding, Creping, Foil Mounting, Kraft, M. G. Wrapping and Specialties, Manifold, Register, Salesbook, Sulphite Bond, Sulphite Papers, Tissue Waxing and Wet Strength Specialties. 67½ tons 24 hours. Phone: YUkon 2-0191.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO., P. O. Box 185; Mill St. (Paul H. Travis, Pres. and Gen. Mgr.; L. S. Arnold, Vice-Pres.; Gordon Morseth, Vice-Pres. and Plant Mgr.; N. B. Goodnow, Sec.; A. J. Giuliani, Treas.; N. A. Wold, Sales Mgr. Automotive Specialties; R. T. Blome, Sales Mgr. Paper and Board; R. J. Arsenault, Sales Mgr. New Prods.; Philip H. Avery, Tech. Dir.; William M. Kirkland, Pur. Agt.) S. P. at mill. Railroad Siding, G. T. R. R. One 1000-lb. Beater, one E. D. Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster, Cover and Cushion Papers; Impregnated, Regular and Wet Strength Filter Papers; Graph and Grinding Wheel Papers; Inpregnated Specialty Papers; Laminated and Packaging Specialties; Photo-Mount, Saturating and Speaker Cone Papers and Embossed Specialties. 12½ tons 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-8121.

Rockford—Kent Co.

On Penna. R. R. Tel., M. O., Ex. and Bank. Nearest Air Port. Grand Rapids, Mich.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Pres., Sec. and Gen. Mgr.; John G. Cooper, Exec. Vice-Pres.; R. Battinus, Vice-Pres.; Fred Gave, Jr., Vice-Pres.-Mill Operations; Jack Zimler, Vice-Pres.-Pur.; Judith Rose, Treas.; David Fisher, Asst. Sec.; Robert Rose, Sales Mgr.; Edward Gave, Night Supt.; Grover C. Welch, Chief Engr.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, seven Jordans, eight Screens. One 70-inch Eight Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide; one Suction Press Roll, one Curtis Wright Automatic Caliper Control, Waldron Micro-Jet Coater, Pattern Smoothing Press, Allied Clay Mixing Eqpt. and Drive. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 750 h.p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure, Coal. White Pat. Coated, Chip Board, News Board, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila, Lined Chip, Mist Grey, Kraft Lined, Solid Kraft and Colored Specialties. 75 tons 24 hours. Highway, U.S., 131, 1½ miles. Phone: VO. 6-9211.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC. Main Office, Box 404. (Howard Zuker, Pres.; L. H. Herman, Vice-Pres. and Sec.; L. Pohn, Treas.; Howard Bogle, Mill Mgr.; Corwin H. Drew, Sales Mgr.; Milford Fosdick, Supt.; Thomas Gelwick, Cont.) S. P. at mill. Railroad Siding, N. Y. C. (M) R. R. Two 1000-lb. Beaters, three Refiners, five Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. Purchased 50% and Generated 50% Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v., 2000 h.p. installed. Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Automotive, Mounting and Food Packaging Boards. 65 tons 24 hours. Highways, U. S., 131, 1 mile; State, 60, 1 mile. Phone: CR. 3-1015.

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Bank and Ex. Nearest Air Port, Kalamazoo.

SIMPSON LEE PAPER CO., formerly Lee Paper Co. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres. and Sales Mgr.; A. A. Christian, Vice-Pres., Sec. and Prod. Mgr.; K. A. Warren, Treas.; Arthur Katt, Supt.; John Stroud, Pur. Agt.; James Winn, Tech. Dir.) S. P. at mill. Railroad Siding, Penn. R.R. Two 1500-lb. and three 1000-lb. Beaters, four Jordans, six Refiners, three Pulpers, six Screens and seven 1000-lb. Washers and four 10,000-lb. Rotaries. One 121½-inch, one 132-inch and one 134-inch Fourdriniers; widest trimmed sheets, 107 inches, 119 inches and 121 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 100 tons 24 hours. Highways, U. S., 131, 6 miles West; State, M60, 6 miles South. Phone: Vicksburg, MIdway 9-5021.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

WATERVLIET PAPER CO. Division of Hammermill Paper Co. (For Executives, see Hammermill Paper Co., Erie, Pa. At Watervliet: V. Friedrich, Jr., Div. Mgr.; H. W. Parnass, Sales Mgr.; E. Dale Meahl, Prod. Mgr.; L. J. Scheid, Dir. of Mfg.; A. H. Hupp, Mgr. of Coating Dev.; C. Burdell, Cheif Engr.; J. C. Tongren, Tech. Dir.; W. P. Jones, Pur. Agt.; John Hanson, Woodlands Mgr.; D. D. McKinney, Personnel Mgr.; F. G. Johnson, Div. Cont.) S.P. at mill. Railroad Siding, C. & O.—Pere Marquette Div. Four Jordans, and two pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 127 inches. Width of Embossing Equipment, 53 inches. Coated—Book, Offset, one-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 105 tons 24 hours. SEMI-CHEMICAL PULP MILL. Three Globe Rotary Digesters and two Refiners. Electricity, Half Purchased and Half Generated, 450 h.p. Installed Water Power; Coal; 235 p.s.i. Steam Pressure. Semi-Chemical Pulp, 50 tons 24 hours. Highways, U. S., 12; State, 140. Phone: Watervliet-Ingersoll 3-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O., Exp. and Bank. Nearest Air Port at Three Rivers, Mich. Greyhound Bus Line.

WEYERHAEUSER CO., Boxboard and Folding Carton Div. Division Office; 919 N. Michigan Ave., Chicago 11, Ill. Main Office, Tacoma, Wash. For Executives, see Tacoma. (T. E. Morriss, Vice-Pres. and Mgr.; J. B. Collett, Sales Mgr.; O. F. Flatland, Branch Mgr.; N. Monroe, Supt.; A. Andrews, Tech Dir.; Le Roy Nusbaum, Chief Engr.; L. A. Weyrick, Pur. Agt.) MILL NO. 2. Railroad Siding, N. Y. C. R. R. Fourteen 1200-lb. Beaters, one 12,000-lb. Breaker, one 20,000-lb. Hydrapulper and eight Jordans. One 100-inch and one 122-inch Seven-Cylinder Machines; widest trimmed sheets, 92 and 110 inches. Generated Electricity, 6000 k.w., 3 phase. Coal and Oil. 500 p.s.i. Steam Pressure. Single and Double Patent Coated News, Clay Coated Folding Box Boards, Single and Double Manila Lined and Bending Chip. 200 tons 24 hours. Highway, U. S., 112, ½ mile. Phone: HUdson 3-2315.

Ypsilanti—Washtenaw Co.

On N. Y. C.; M. C. R. R. M. O., Tel. and Exp. Nearest Air Port, Willow Run at Detroit.

PENINSULAR PAPER CO. (Daniel T. Quirk, Pres. and Treas.; D. G. Quirk, Vice-Pres.; Mrs. Florence S. Gilmore, Sec.; John Ely, Supt.; H. P. Quirk, Chief Engr.; Glenn Touse, Chief Chemist; Walter Dice, Maintenance Head; E. C. Robtoy, Traffic Mgr.) S. P. at mill. Two Hydrapulpers. One 65-inch and one 86-inch Fourdriniers; widest trimmed sheets, 57 and 80 inches. Width of Paster, 51 inches. One 40-inch Embosser. Steam and Electricity, Coal. Cover, Colored Specialties, Sulphite and Bleached Kraft Specialties. 40 tons 24 hours. Highways, U. S., 112; State, 12 and 17. Phone: HUnter 2-2600. Teletype: Ypsilanti 40.

MINNESOTA

Bemidji—Beltrami Co.

On N. P., G. N., and Soo R. R. M. O., Bank, Tel., Exp. and Air Port, Greyhound and Triangle Buses.

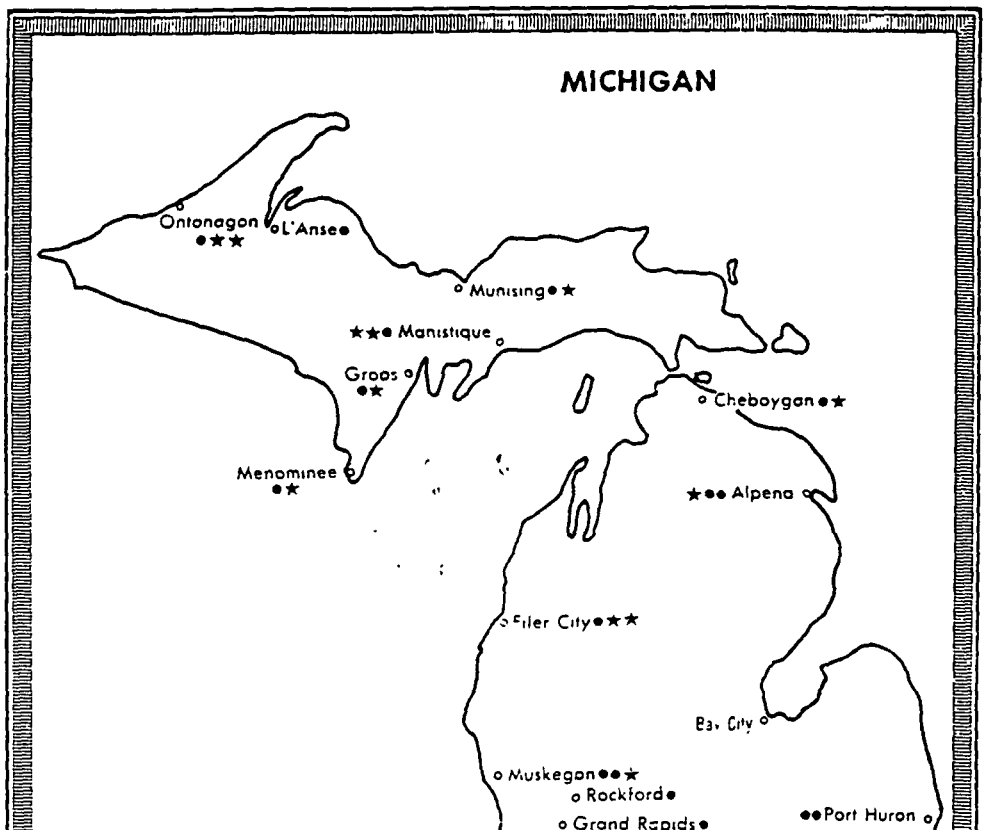
NU-PLY CORP. (F. Russell Eggers, Pres. and Gen. Mgr.; Lloyd K. Johnson, Vice-Pres.; A. C. Nasvik, Sec.-Treas.; Archie Gulsvig, Supt.; Don Gould, Tech. Dir.; Don Hanson, Master Mechanic; Paul Barthelemy, Sales Mgr.) S. P. at Mill. Railroad Siding, N. P. R. R. Special Machinery. Purchased Electricity, 440 v. 60 cycles, 3 phase, Installed Electric h.p. 2300; Oil, 200 p.s.i.g. Steam Pressure. Standard, Panel and Tempered Hardboard 1/10" to ⅜" thickness and Special Types, 60 tons 24 hours. PULP MILL. Three #445 Bauer Refiners, two 30-ft. Grenco Continuous Cookers and one Continuous Drying Machine. Highway, U. S. 2 and 71-371. Phone: PL 1-5140, 5141, 5143.

Brainerd—Crow Wing Co.

On N. P. R. R. Tel., Bank, Exp., Air Port and Greyhound Bus.

NORTHWEST PAPER CO., THE. General Office, Cloquet. (See Cloquet for Officers and Department Managers. Philip W. Budd, Mgr.; Earl W. Wolleat, Asst. Mgr.) Railroad Siding, N. P. R. R. Three Hydrapulpers, two Broke Beaters, four Liebeck Disintegrators, eight Jordans and two Claflins. One 128-inch and one 200-inch Fourdriniers, widest trimmed sheets, 114 and 180 inches. Steam and Hydro-Electricity. Bond, Duplicator, Ledger, Mimeograph, Map Bond, Book, Label, Offset, Poster, Writing, Bristol, Post Card, Cover, Text, Envelope, Adding Machine, Coating Raw Stock, Drawing, Gumming, Lining, Papeteries, Register, Tablet and Greeting Card. 235 tons 24 hours. Highways,

1963



Bare's "Ruskin Demi-Coat, Smooth, Sub 45" for Offset Printing

GOTTESM
100 PARK AVENUE

64-inch Fourdrinier;
inches. Special Indus
including Saturating
Rubber and Other P
tex Saturation, and A
pregnated Fiber Pro
nated Board and P
Highway, U. S., 2
Phones: Springfield,
Lafayette 3-4650; an
2-2662.

SOUTHWORTH C
Chairman of Board;
Treas.; Paul W. Che
Southworth, Sec.; Gor
Alfred L. Montagna, S
A. R. R. One 1200-lb
One 81-inch Fourdrin
44 inches; widest mach
70 inches; widest tut
inches. Water and I
Ledgers, Typewriter P
script Covers and D
Watermarks, 10 tons
20, ⅛ mile. Phone: R

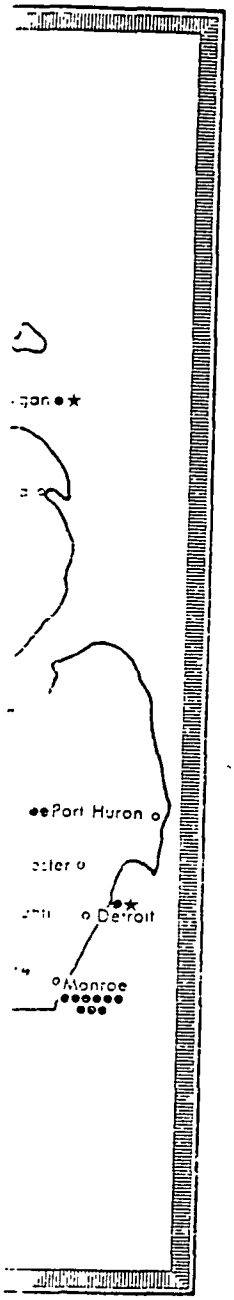
STRATHMORE PA
Falls, West Springfiel
Main Office, West S
Johnston, Pres., P. G.
Wood, Vice-Pres in
Wilks, Vice-Pres and
Clerk, C E. Benoit, G
Gen. Sales Mgr., R L
Sales, James H Swee
Sales; J. G. Gallup, M
Market Research, J C
W A McGilpin Mgr
Bullard, Mgr. Mill Sa
A W. Dempsey, D W
Mill Supts; J S Mu
Shattuck, Mgr of Sup
Agt.; E. A. Eddings, Tr
B & A., B & M, N
seven Beaters, eleven R
and eight Rotaries On
83-inch, one 86-inch,
one 107-inch and two S
and Steam Bonds W
Wedding Papers, Typ
Mail, Manuscript Cove
Cover, Detail Paper, P
Paper and Illustration
Bristol, Lamp Shade
Steel Plate, Gravure, T
Direct Print and Neg
ishes. 80 tons 24 hours

Wheelwright—Worcest
On Southern Div.
Tel., Bank and Exp
est Air Port, Bradle

ROMAR TISSUE M
skin Products, Inc. (Ro
Belsky, Vice-Pres. an
Clerk; Raymond Hart
road Siding, B & I
Jordans, two Hydr

MHI-00088

GOTTESMAN & CO., Inc. • ALL GRADES, DOMESTIC & IMPORTED
100 PARK AVENUE NEW YORK 17, N. Y. WOOD PULP



64-inch Fourdrinier; widest trimmed sheet, 56 inches. Special Industrial and Technical Papers including Saturating Papers for Gasket, Resin, Rubber and Other Purposes, Absorbent for Latex Saturation, and Artificial Leather Base; Impregnated Fiber Products and Latex Impregnated Board and Paper. 15 tons 24 hours. Highway, U. S., 20, 1/3 mile. Direct Mill Phones: Springfield, Republic 6-4554; Boston, Lafayette 3-4650; and New York City, Rector 2-2662.

SOUTHWORTH CO. (Melvin D. Southworth, Chairman of Board; Phelps Brown, Pres. and Treas.; Paul W. Cheney, Vice-Pres.; John H. Southworth, Sec.; Gordon D. Frost, Sales Mgr.; Alfred L. Montagna, Supt.) Railroad Siding, B. & A. R. R. One 1200-lb. and four 850-lb. Beaters. One 81-inch Fourdrinier; widest trimmed sheet, 44 inches; widest machine finished paper in rolls, 70 inches; widest tub sized paper in rolls, 68 inches. Water and Electricity. Bonds, Linens, Ledgers, Typewriter Papers, Onion Skin, Manuscript Covers and DeLuxe Bonds with Visible Watermarks, 10 tons 24 hours. Highway, U. S., 20, ⅛ mile. Phone: REpublic 2-5141.

STRATHMORE PAPER CO Mills at Turners Falls, West Springfield and Woronoco, Mass. Main Office, West Springfield, Mass. (H. D. Johnston, Pres., P. G. Volanakis, Vice-Pres ; B. P. Wood, Vice-Pres in Charge of Mfg.; Paul A Wilks, Vice-Pres and Treas ; B. E Stafford, Clerk; C. E Benoit, Gen Supt.; R. B. Clark, Jr., Gen. Sales Mgr.; R. L. Fastie, Mgr. Tech. Paper Sales; James H Sweet, Mgr Converter Paper Sales; J G. Gallup, Mgr Product Planning and Market Research, J C Gallatin, Jr , Tech. Dir, W. A. McGilpin Mgr. New York Office, G. G Bullard, Mgr. Mill Sales Office; R E Hosmer, A W Dempsey, D W Bush and W. L. Bryan, Mill Supts., J S Mudgett, Chief Engr.; G B. Shattuck, Mgr of Supply, Everett Hallberg, Pur. Agt.; E A Eddings, Traffic Mgr) Railroad Siding, B. & A , B & M., N Y , N. H & H. R.R. Thirty-seven Beaters, eleven Refiners, twenty-two Washers and eight Rotaries One 66-inch, one 77-inch, one 83-inch, one 86-inch, one 87-inch, one 90-inch, one 107-inch and two Special Fourdriniers Water and Steam Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Onion Skin, Air Mail, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes 80 tons 24 hours Phone· REpublic 6-8301.

Wheelwright—Worcester Co.

On Southern Div. B. & M. R. R. M. O., Tel., Bank and Exp., Gilbertville, Mass. Nearest Air Port, Bradley Field.

ROMAR TISSUE MILLS, INC., formerly Dooskin Products, Inc. (Robert Belsky, Pres.; Maurice Belsky, Vice-Pres. and Treas.; Geo. B. Scully, Clerk; Raymond Hart, Supt.) S. P. at Mill. Railroad Siding, B. & M. R. R. Four Emerson Jordans, two Hydropulpers, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft. in Diameter and 90, 100, 106, and 112 inches wide. Electricity. Oil. 160-lb. Steam Pressure. Facial and Toilet Tissue, Pocket Pack and Cellulose Wadding, Dinner and Luncheon Napkins, Sanitary Napkins and Towels, Cellulose Wadding in Rolls and Sheets and Industrial Wipes, 50 tons 24 hours. Phone: Gilbertville 5291, 2271 and 2281.

Woronoco—Hampden Co.

On B. & A. R. R. M. O. and Tel.; nearest Bank, Westfield, 6 miles.

STRATHMORE PAPER CO. See West Springfield for Officers, Grades and Equipment. Highway, U. S., 20. Phone: Springfield, Republic 6-8301.

MICHIGAN

Alpena—Alpena Co.

On D. & M. R. R., Greyhound Buses, Tel., Bank, Exp. and Air Port.

ABITIBI CORP., Subsidiary of Abitibi Power & Paper Co., Ltd. Main Office, 408 University Ave., Toronto 2, Ont. Head Office, Alpena, Mich. Gen. Sales and Central Div. Sales Office, 956 Penobscot Bldg., Detroit, Mich. (A. B. Cook, Vice-Pres -Sales; H. M. Lineweaver, Marketing Mgr.; A. N. Hurd, Merchandise Mgr.; H. A. Kennedy, Adv. and Market Research Mgr.; H. A. Hall, Central Div. Sales Mgr.) Phone: WOodward 1-9545; Eastern Div., 680 Fifth Ave., New York 19, N. Y., (E. F. Werny, Eastern Div. Sales Mgr.) Phone· CIrcle 6-0480, Midwest Sales Office, 333 N. Michigan Ave , Chicago, Ill (M. W Viergever, Midwest Div Sales Mgr) Phone: FRanklin 2-4559 (At Alpena: O B Eustis, Mill Mgr.; A. J. Auden, Woods Mgr ; R. M. Granum, Plant Supt.; L. M. Garrett, Mfg Supt.; L. Keller, Finishing Supt.; W. J. Bigham, Personnel Mgr.; B. E. Taylor, Operating Project Mgr.; R. E Paul, Control Supt.; L Ford, Quality Supt.; F. E. Eland, Plant Engr , O. Crews, Master Mechanic; V E Rickle, Power Plant Supt.; C. W. Baldwin, Electrical Supt.; T. Blundell, Pur. Agt : R. R Ticknor, Office Mgr.; W. E. Kidd, Traffic Mgr ; J. E. Lamy, Chief Forester.) One 4-ft. and one 13-ft. nominal width Fourdriniers Separate power plant (900 p.s.i. steam), two-thirds generated and one-third purchased electric power; 60 cycles, 3 phase, 440 v. and 4160 v Motors. S1S (20-deck Press) and S2S (14-deck Press) Hardboards, Hardboard Specialties and Rigid Insulation Board Products. 200,000,000 sq. ft. annually. PULP MILL. Special Process Woodpulp. Average Daily Consumption of Pulp Wood, 240 Cords. Phone: ALpena, ELmwood 4-2121.

FLETCHER PAPER CO. Main Office, 318 W. Fletcher St., Alpena, Mich. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; R. Werner, Sec.-Treas. and Pur. Agt.; Chas. S. White, Gen.

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). Main Office, 325
Y. (M. H. Baker,
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L. Hank, Vice-
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Mgr.-Paper; E. M.
Siding, Mich. Cent
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inches. Electricity.
135 tons 24 hours.
treside 3-1579.

x 751, King High-
Gen. Mgr.; J. G.
J. M. Bireley, Sr.,

Treas.; M. H. Davidsmeyer, Supt. of Prod.; H. E. Warren, Paper Mill Supt.; James C. Kline, Chief Chem.; H. Dalrymple, Chief Engr.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. One Black-Clawson 2000-lb. Hydrabeater, one Black-Clawson Series "O" Hydrafiner, one Black-Clawson No. 2 Jordan, two E. D. Jones Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 113-inch Fourdrinier; widest trimmed sheet, 104¼ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book, Coated and Enameled Offset, Litho and Cover Papers. 30 tons 24 hours. Also six Machine Coating Mills. Highways, U. S., 94, 1 mile; State, 96. Phone: FIreside 2-0151.

ST. REGIS PAPER CO. Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Russell H. Savage, Head of Department; James Miller, Pres.; Russell H. Seibert, Vice-Pres.; Dale L. Faunce, Vice-Pres.; Harley Hartwig, Supt.) One Jones Midget Jordan and two Pulpers. Two Noble & Wood Sheet Machines, various Sheet Molds. One Pilot Stock Preparation System. One 30-inch Pilot Fourdrinier with Size Press and Machine Calender; widest trimmed Sheet. 30 inches. One 30-inch Universal Coating Machine. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research. Purchased Electricity, 60 cycles, 3 phase. Paper and Board from 16 to 90 lb. (25 x 38-500). 4 tons 24 hours. Phone: FIreside 9-2611, Ext. 274.

L'Anse—Baraga Co.

On D.S.S. and A. R.R.

CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago 3, Ill., for executives.) F. J. Alfeis, Works Mgr.; A. O. Wirtanen, Plant Supt.; R. C. Roberts, Plant Engr.; A. H. Phillipp, Tech. Dir.) Building Board, Roof Insulation, Plank, Perforated and Unperforated Tile, Other Interior Finish Products, Sheathing and Other Exterior Insulation Board Products, 175 tons 24 hours. Phone: L'Anse 600.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Field Enterprises Inc., Chicago, Ill. (F. S. Hoholik, Pres. and Gen. Mgr.; John F. Cross, Jr., Sec.-Treas.; Donald F. Skidds, Supt.; Francis J. Kasun, Pur. Agt.) Railroad Sidings, Soo and Ann Arbor R.R. Two Beaters, two Screens, one Jordan, one Refiner and two Pulpers. One 166-inch Fourdrinier; widest trimmed sheet, 154 inches. Water and Electricity, Coal, 165 p.s.i. Steam Pressure. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 90 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders and one Refiner. Water and Electricity. Ground Wood. 60 tons 24 hours. DE-INKED PULP MILL. De-inked pulp, 50 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 60 Cords. Highway, U. S. 2. Phone: Manistique 160.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R Green Bay and Lake Michigan Steamers and Air Port.

MARATHON DIV., American Can Co. See Menasha, Wis., for Corporate Officials. (Martti Lundstrom, Plant Mgr.; A. S. Suminski, Paper Mill Supt.; John A. Gasperi, Converting Supt.; G. R. Schreiner, Asst. Paper Mill Supt.; Victor Swanson, Plant Engr.) Two Claflin Refiners, five Jordans and four Hydrapulpers. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 154 inches. One Yankee Fourdrinier; widest trimmed sheet, 128 inches. Generated Electricity. Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 285 tons 24 hours. Highways, U. S., 41; State, 173. Phone: Menominee UN. 3-5595.

SCOTT PAPER CO., formerly Marinette Paper Co. For Executives see Scott Paper Co., International Airport, Philadelphia 13, Pa. (Operating Personnel: S. J. Lang, Supt.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 19 tons 24 hours. Average Daily Consupmption of Peeled Pulp Wood, 17 Cords. Highway, U. S. 41, ½ mile. Phone: REdwood 5-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run.

CONSOLIDATED PAPER CO., P. O. Box 724, 921 E. Elm Ave. (C. H. R. Johnson, Pres. and Gen. Mgr.; T. J. Lopatka, Vice-Pres. Administration; R. D. James, Vice-Pres. and Gen. Sales Mgr.; K. E. Verhoeven, Vice-Pres. Corr. and Automotive Div.; C. J. Phinney, Vice-Pres. and Sales Mgr. Container Board Div.; F. H. Bock, Sec.-Treas.; James A. Wells, Asst. Sec.; V. C. Matthews, Sales Mgr. Corrugated Div.; K. E. Heusman, Sales Mgr. Automotive and Forming Board Div.; N. F. Krueger, Sales Mgr. Folding Carton Div.; J. P. Bronson, Sales Mgr. Box Board Div.; R. G. Rau, Sales Mgr., Asphalt Drum Div.; W. O. Lunsford, Mgr. of Research and Dev.; J. T. Gleeson, Dir. of Pur., Harry D. Johnson, Traffic Mgr.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 300 tons 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 375 tons 24 hours. STRAW BOARD MILL. Six Jor-

Bare's "Ruskin Demi-Coat, Smooth, Sub. 45" for Offset Printing

dans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets,, 52, 71 and 88 inches. Steam. Straw Board for Corrugating. 125 tons 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 100 tons 24 hours. PRODUCTS: Corrugating Straw Board, Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons. Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56, ½ mile West 24A. Phones: Cherry 1-9000 and 1-9004.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (Lawrence G. Kunkel, Pres.; John P. Kinsey, Vice-Pres.; Robert M. Swaney, Sec. and Gen. Mgr.; Thomas M. Banta, Treas.; Gene L. Bennett, Sales Mgr.; Bernard Kirby, Supt.; Robert Harter, Chief Engr.) Railroad Siding, Pere Marquette R. R. Two Hydrapulpers, and ten Jordans. One 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 135 tons 24 hours. Highway, U. S., 24 Phone: CHerry 1-3220.

UNION BAG-CAMP PAPER CORP., River Raisin Paper Div., formerly River Raisin Paper Co., 1109 E Elm Ave. (A W Schulte, Vice-Pres. and Gen. Mgr., Fred B Attwood, Vice-Pres Mfg; H. V. Hodge, Vice-Pres.; F T. Schultz, Vice-Pres., W. M. Pellot, Treas Gerald H. Schuster, Cont.; J G. Ladley, Dir Container Sales) S P. at all mills. MILL NO. 2. One 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine, widest trimmed sheet, 98 inches MILL NO 3 One 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine, widest trimmed sheets 112 inches MILL NO 4 One 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. One 100-ton Dilts Hydrapulper, one 102-inch Two Cylinder Board Machine; widest trimmed sheet, 90 inches. Chip Boards, Container Boards, Fiber Boards, Solid Fiber and Corrugated Fiber Shipping Cases and Corrugated Fiber Packing Materials 400 tons 24 hours. Highways, U S, 24, 2 miles, and 25, 1 mile; State, 56 Phone. Monroe, Cherry 1-7700

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W and D. S. S. & A M. O, Tel. and Ex.

KIMBERLY-CLARK CORP., Munising Mill Main Office, Neenah, Wis (For Executives, see Main Office; W. R. Beerman, Mill Mgr.) S. P at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 85 tons 24 hours. SULPHITE PULP MILL. Three Digesters; one 84-inch and three 72-inch Wet Machines. Steam and Electricity. Bleached Sulphite Pulp, 90 tons 24 hours. Highways, U. S., 41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O. and G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp.

BEMIS BRO. BAG CO., TEKMOLD DIV. 2850 Lincoln Ave., Muskegon, Mich. Main Office, 608 Second Ave., S., Minneapolis 2, Minn. (Judson Bemis, Pres.; C. W. Akin, Exec. Vice-Pres.; F. G. Bemis, Jr., Vice-Pres.; C. C. Hammer, Treas.; J. E. Zeller, Resident Mgr.; John Froelich, Supt.) S. P. at Mill. Railroad Siding, Grand Trunk Western. Four Pulpers. Electricity, Gas. Moulded Pulp Planters, Pots, Growing Containers and Protective Interior Packaging. 50 tons 24 hours. Highways, Interstate, 196, 2 miles from Sherman Blvd.; State, 16 and 31, 2 miles from Sherman Blvd. Phone. PLaza 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F W. Roberts, Vice-President and Mill Mgr.; W. A. Wrase, Ch. Engr.; Gordon Sando Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S.P. at mill. Railroad Siding. C. & O. R. R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Kraft 175 tons 24 hours SULPHATE PULP MILL Six Digesters. Bleached Sulphate Pulp, 125 tons 24 hours Average daily consumption of peeled pulp wood, 240 cords Highways U S 16 and 31, 5 miles State 46 Phone. PLaza 5-3761.

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On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO., 100 French St., P O Box 214 (J E French, Pres and Gen Mgr., L F Kretchman, Exec. Vice-Pres and Treas., T. Friedrich, Vice-Pres. and Gen Supt; R. D. Clark, Sec. and Cont.; B Bigford, Sales Mgr; E Lingnowski, Tech. Dir and Chief Chem; D Pears, Traffic Mgr., R. Engberg, Chief Engr.; R. Etzcorn, Pur. Agt.) S. P. at Mill Railroad Siding, N Y C. R R. Four Dynapulpers, four Jordans and two Refiners One 96-inch and one 118-inch Fourdriniers; widest trimmed sheets, 84 and 105 inches Generated Electricity, 440 v., 60 Cycles, 3 Phase, 1600 h.p. Installed Electricity; 1600 h.p. Installed Water Power; Coal; 150 p.s.i. Steam Pressure Offset, Colored Offset, Opaque, Cover, Embossed, Greeting, Text and Specialties.

60 tons 24 hours. Hig
State 60. MUtual 3-110

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ton, Vice-Pres.; Robert
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A. L. Pilson, Sec.; At N
Paper Mill Supt.; D.
W. V. Dieckmann, Pur
Mgr.) S. P. at mill. R.
R. R. One Dynapulper
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System. Two 136-inch
trimmed sheet, 120 inch
x 136 inches. Purchase
3 Phase, 1521 h.p Instal
220 and 440 v. 80-lb.
Natural Gas. Effluent
Tissue, 16 tons 24 hours
State, 60. Phone: Niles,

Ontonagon—Ontonagon

On Chic., Milw., St
M. O., Tel., Bank an
Nearest Air Port, H

HUSS ONTONAGON
formerly National Con
Main Office, 1350 Fulle
(Alvin Huss, Pres.; W
H. S. Cartwright, Sec
Asst. Sec.; Geo. Riedel,
Chief Engr.; Robert McF
Johnson, Woodlands Mg
at mill. Two 2000-lb. Jo
seven Refiners, two Sc
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3 Phase, 25% Purchase
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U. S., 45, 1 mile; State,

Otsego—Allegan Co.

On N.Y.C. R.R. M.O
Air Port, 2 miles.

MAC SIM BAR PA
(W. E. Hurlbut, Pres.;
M. V. Stowe, Sec.; Do
R. A. Faller, Sales Me
Supt.; Chas. Myers, Mill
Tech. Dir.; Fred Carrol
Orr, Pur. Agt.) Railroad
S. P. at mill. MAC SI
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Breaker Beater, two H
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MHI-00094

:er, Duplicator, Map
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Coated Specialties. 85
E PULP MILL. Three
nd three 72-inch Wet
:ctricity. Bleached Sul-
ours. Highways, U. S.,
! 28. Phone: 56.

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Gas. Moulded Pulp
:ntainers and Protec-
:tons 24 hours. High-
:miles from Sherman
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:. see Main Office.
Roberts, Vice-Presi-
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). D. Glopper, Traffic
.! Mgr.) S.P. at
:. R. Two 115-
:e 165-inch Fourdri-
:, two 96 inches, one
:ches. Purchased and
:cles, 3 Phase, 11,000
:s.i. Steam Pressure.
:ook, English Finish,
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HATE PULP MILL.
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:nsumption of peeled
:ways. U. S. 16 and
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nd Chief Chem.; D.
:gberg, Chief Engr.;
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:ne 96-inch and one
: trimmed sheets, 84
:lectricity, 440 v., 60
Installed Electricity;
:wer; Coal; 150 p.s.i.
:red Offset, Opaque,
Text and Specialties.

60 tons 24 hours. Highways, U. S. 31 and 112; State 60. MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: Howard H. Rausch, Paper Mill Supt.; D. M. Parrish, Plant Engr.; W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 4 feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase, 1521 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 16 tons 24 hours. Highways, U. S. 31-112; State, 60. Phone: Niles, MUtual 3-4100.

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HUSS ONTONAGON PULP & PAPER CO., formerly National Container Corp. of Mich. Main Office, 1350 Fullerton Ave., Chicago, Ill. (Alvin Huss, Pres.; Walter Brewer, Vice-Pres.; H. S. Cartwright, Sec.-Treas.; Newton Cuneo, Asst. Sec.; Geo. Riedel, Prod. Mgr.; Merlin King, Chief Engr.; Robert McFarland, Sales Mgr.; Earl Johnson, Woodlands Mgr.) Railroad Siding. S. P. at mill. Two 2000-lb. Jones Beaters, five Jordans, seven Refiners, two Screens and a Ross Paper Machine Ventilator System. One 166-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k.w. Installed, 230 Motors, 440-2360 v., Electric Drives. Coal and Oil: 250 and 650-lb. Steam Pressures. Kraft Liner Board, 150 tons 24 hours. .009 NSSC Corrugating Medium, 250 tons 24 hours. SULPHATE and SEMI-CHEMICAL PULP MILL. Five Digesters and one Pandia-American Defibrator Unit and three Bauer and four Sprout Waldron Refiners. Semi-Chemical Pulp, 250 tons 24 hours Sulphate Pulp, 150 tons 24 hours. Average daily consumption of peeled birch and maple pulp wood, 250 cords. Highways, U. S., 45, 1 mile; State, 64. Phone: Ontonagan 1.

Otsego—Allegan Co.

On N.Y.C. R.R. M.O., Bank and Exp. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER PRODUCTS CO. (W. E. Hurlbut, Pres.; L. M. Hart, Vice-Pres.; M. V. Stowe, Sec.; Donald Hunsaker, Treas.; R. A. Faller, Sales Mgr.; Karl Halladin, Gen. Supt.; Chas. Myers, Mill Supt.; Richard Glaser, Tech. Dir.; Fred Carroll, Plant Engr.; Robert Orr, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P. at mill. MAC SIM BAR MILL. Fifteen 1200-lb. four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News. 300 tons 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

OTSEGO FALLS PAPER MILLS, DIV. of Menasha Wooden Ware Corp. For Executives see Main Office, Menasha Wooden Ware Corp., 430 River St., Menasha, Wis. (R. J. Suess, Gen. Mgr.; G. A. McConney, Adm. Supt.; Clifford Sage, Jr., Prod. Mgr.; E. R. Timlowski, Tech. Dir.; Joseph Cutra, Chief Engr.; R. C. Beveridge, Pur. Agt.; J. B. Watters, Woodlands and Wood Buyer.) Railroad Siding, N. Y. C. R.R. S. P. at Mill. One 2500-lb. Beater, one Hydrapulper, two Presses and six Primary Refiners and two Secondary Refiners. Two Fourdriniers: widest trimmed sheets, 78 inches and 98 inches. Steam and Electricity. .009 Corrugating Semi-Chemical Wood Pulp Boards. 130 tons 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digesters Unbleached Semi-Chemical Pulp, 130 tons 24 hours. Average Daily Consumption of Pulp Wood, 150 Cords. Highways, U.S. 131, 1 mile; State M89, ¼ mile. Phone: Otsego, OXford 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Floyd M. Murphey, Jr., Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Charles R. Ebinger, Supt.; Edward McCormick, Power Plant Supt.) One 16-ft. Continuous Shartle Dilts Hydrapulper, two Jordans. One Hydrafiner, three Screens and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Three Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated. 60 Cycles, 3 Phase: Coal: 200 p.s.i. Steam Pressure. Chipboard. Specialties. Building and Insulating. 50 tons 24 hours. Highway, U. S., 223. Phone: Colfax 5-5174.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

HAMILTON PAPER CO. (Subsidiary of Weyerhaeuser Co., Tacoma, Wash.) Michigan Div., formerly Michigan Paper Co. of Plainwell. Main Office, Miquon, Pa. Sales Offices at Miquon, Pa.; New York City, Chicago and Los Angeles. (L. D. Nicolson, Vice-Pres. in Charge; J. G. Kauffman, Asst. Sec., Asst. Mgr. and Chief Engr.; M. E. Burkheiser, Asst. Treas.; Ray L. Barton, Supt.; J. A. Dean, Chief Chemist; Harold Greenburg, Traffic Mgr.; R. F. Waber, Pur. Agt.) Railroad Siding, Penna. R. R. One 6000-lb. Hydrapulper, nine 1400-lb. Beaters and ten Refiners. One 110-inch and two 130-inch Fourdriniers: widest trimmed sheets, 98 inches and 120 inches.

CONVERTERS, U.S.A.

Bare's "Ruskin Demi-Coat, Smooth, Sub. 45" for Offset Printing

MHI-00095

Widest Super-Calender, 80 inches. Purchased and Generated Electricity, 3 phase, 60 cycles; Coal, 265 p.s.i. Steam Pressure. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeographed, Duplicator, Tablet, Writing, Catalogue, Bible Papers. Colored Covers and Post. 110 tons 24 hours. DE-INKED PULP MILL. De-Inked Pulp, 60 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: MUrray 5-8411.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Geo. C. Dunn, Pres. and Treas.; George B. Smith, Vice-Pres. and Sec.; D. J. Haines, Asst. Treas.; Walter E. Woods, Mill Mgr.; W. W. Carr, Sales Mgr.; John C. Smith, Plant Engr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R. R. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 inches. Electricity. Sulphite and Sulphate Papers for Fine Crepe, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, Excelsior, One-time Carbonizing and Other M. G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 36 tons 24 hours. Highway, U. S., 25, ½ mile. Phone YUkon 5-5181-2.

PORT HURON SULPHITE & PAPER CO., Washington Ave. (E. W. Kiefer, Ch. of Board; G. F. Durand, Pres.; F. B. McFarland, Vice-Pres.; J. L. Hoolihan, Vice-Pres.; R. S. Smeltzer, Sec.-Treas.; L. M. Sturdevant, Asst. Sec.; George Bajis, Pur. Agt.; E. J. Janssens, Sales Mgr.; E. G. Donovan, Asst. Sales Mgr.; John Maes, Mgr. of Paper Prod.; Frank Davis, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; Carl Roglitz, Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 143-inch Yankee Fourdrinier; widest trimmed sheet, 127½ inches; one 132-inch Fourdrinier, widest trimmed sheet, 120 inches; one 184-inch Fourdrinier; widest trimmed sheet, 164 inches. Steam and Electricity. Bond, Carbon Coating, Carbon Paper, Carbonizing, Coil Winding, Creping, Foil Mounting, Kraft, M. G. Wrapping and Specialties, Manifold, Register, Salesbook, Sulphite Bond, Sulphite Papers, Tissue Waxing and Wet Strength Specialties. 100 tons 24 hours. Phone: YUkon 2-0191.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Pontiac.

ROCHESTER PAPER CO., P. O. Box 185; Mill St. (Paul H. Travis, Pres. and Gen. Mgr.; M. S. Arnold, Vice-Pres.; Gordon Morseth, Vice-Pres. and Plant Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas.; N. A. Wold, Sales Mgr. Automotive Specialties; R. T. Blome, Sales Mgr. Paper and Board; R. J. Arsenault, Sales Mgr. New Prods.; Philip H. Avery, Tech. Dir.; William M. Kirkland, Pur. Agt.) S. P. at mill. Railroad Siding, G. T. R. R. One 1000-lb. Beater, one E. D. Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 58 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster, Cover and Cushion Papers; Impregnated, Regular and Wet Strength Filter Papers; Graph and Grinding Wheel Papers; Inpregnated Specialty Papers; Laminated and Packaging Specialties; Photo-Mount, Saturating and Speaker Cone Papers and Embossed Specialties. 12½ tons 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: Olive 1-8121.

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1500-lb. and three 10
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Four Jordans, and tw
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CONSTANTINE PAPERBOARD DIV. of the Davey Co. Main Office, 164 Laidlaw Ave., Jersey City, N. J. (For Executives, see Main Office. Mortimer J. Williams, Sales Mgr.; Robert C. Dodd, Mill Mgr.; Thomas Manion, Supt.; Howard Reinoehl, Asst. Mgr. and Pur. Agt.) S. P. at Mill. Railroad Siding, N. Y. C. R. R. Two 1000-lb. Beaters, two Pulpers and three Jordans, six Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 96 inches. Purchased Electricity. 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 50 tons 24 hours. Highway, U. S., 131, 1 mile: Indiana Toll Road; 8 miles. Phone: OEneva 5-4285.

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line; Det. Ter.; G. T.; N. Y. C.; Penn.; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., Detroit Div., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. For executives, see Scott Paper Co., International Airport, Philadelphia 13, Pa. (Operating Personnel: M. F. Schnaufer, Plant Mgr.; J. S. Brown, Production Mgr.; E. H. Williams, Tech. Dir.; F. M. Foster, Plant Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.; J. F. Gaylord, Personnel Mgr.; C. G. Allen, Pulpwood Buyer; J. J. Marousky, Plant Accountant; K.C. Waltman, Paper Mill Supt.; H. A. Kentus, Finishing Supt.; W. E. Pasha, Pulp Mill Supt.; R. S. Reese, Chief Consumer Rep.; T. F. Woodward, Power Supt.) Railroad Siding, Mich. Cent. R.R. DELRAY MILL. S. P. at Mill. Seven Holander Beaters, ten Jordans, four Mordens. One 90-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue in Rolls, Napkins, Wiper Tissues, Waxing Base Stock, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 270 tons 24 hours. SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 160 tons 24 hours. Phone VI 2-0042.

Filer City—Manistee Co.

On M. & N. E.; Pere Marquette R. R. M. O.; nearest Bank and Tel., Manistee, 2¼ miles. Nearest Air Port, Manistee-Blacker.

PACKAGING CORP. OF AMERICA. General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Offices. (G. Dlesk, Gen. Mgr.; John Oakes, Sales Mgr.; D. Elliott, Plant Engr.; J. Challas, Tech. Supt.; A. F. Koller, Woodlands Mgr.; W. Linke, Pur. Agt. and Traffic Mgr.) S.P., Manistee. Railroad Siding, M. & N. E. R. R. Five Sutherland Refiners, eleven Jordans, five Bleachers, nine Filters and three Pulpers and three Ross Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches wide. Electricity, 17500 k.w., 60 Cycles, 3 Phase, 4160 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure. Water Treatment Plant. .009 Corrugating Medium and Facing Paper, 400 tons Bleached Kraft Food Board, 150 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Seven Digesters, two B. K. Continuous Dig. Chemipulpers, nine Sprout Waldron Grinders. Steam and Electricity. Semi-Chemical Pulp, 400 tons and Bleached Kraft Pulp, 165 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 2 miles. Phone: PArkview 3-9951.

Grand Rapids—Kent Co.

On G. T.; M. C.; N. Y. C.; Penn.; P. M. R. R.

PACKAGING CORP. OF AMERICA. 415 Fulton St., E., Grand Rapids 3, Mich. General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Office. (Robert Alspaugh, Gen. Mgr.; I. P. Nicole, Eng. Mgr.; Wm. Glaske, Gen. Traffic Mgr.) S. P., at mill. Four Breaker Beaters, twelve Jordans, ten Finishing Beaters and one Pulper. Two 122-inch Six Cylinders; widest trimmed sheet, 112 inches. Generate own power, 3 Phase, 60 Cycle, 440 v. High Grade Box Boards and Test Liners. 200 tons 24 hours. Highways, U. S., 131, 1 mile; State, 50 and 21, 1 mile. Phone: GL. 9-4581.

Groos—Delta Co.

On E. & L. S. R. R. Exp., M. O., Tel. and Bank at Escanaba, 6 miles.

MEAD CORP., Escanaba Div. P. O. Address, Escanaba. For Executives, see Main Office, Dayton, Ohio. (G. S. Douglas, Div. Mgr.; O. C. Christiansen, Asst. Div. Mgr.; G. C. Eastin, Supt. and Tech. Dir.; R. H. Sogard, Plant Engr.; H. J. Vanlerberghe, Traffic Mgr.; R. E. Nelson, Pur. Agt.; R. R. McDonough, Office Mgr.) Railroad Siding, Escanaba & Lake Superior R.R. One Hydrapulper and two Dynopulpers. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches. Steam, Electricity and Water. Coated Book Papers, Bleached Groundwood Content Uncoated Book Papers and Specialties; 245 tons 24 hours. GROUND WOOD MILL. Seventeen Grinders. Hydro-Electric. Ground Wood, 100 tons 24 hours.

Printed on 40# HI-OPAKE E.F.—St. Regis Paper Company—Printing Paper Division

MHT-00099

Average Daily Consumption of Peeled Pulp Wood, 90 (128 cu ft) Cords. Highways, U. S. 2 and 41; State 35. Phone: Escanaba, ST 6-1660.

Kalamazoo—Kalamazoo Co.

On M. C.; N. Y. C.; Penn.; C. K. & S.; G. T. R. R. Greyhound Bus, 4 miles from Air Port. M. O., Exp., Tel. and Bank.

ALLIED PAPER CORP. Executive and General Sales Office: 1608 Lake St. Midwestern Sales Office: 168 N. Michigan Ave., Chicago, Ill. A. F. Klima, Sales Mgr. Eastern Sales Office: 60 E. 42nd St., New York 17, N. Y. E. M. Bishop, Jr., Sales Mgr. (Arnold H. Maremont, Chairman; W. D Harrison, Pres.; J. D. Dailey, Exec. Vice-Pres.; E. J. Gilman, Vice-Pres. Mfg.; W. J. Garrity, Vice-Pres.-Sales; R. Levy, Vice-Pres. Research and Dev.; H. Bernick, Sec.-Treas.; J. D. Nisbet. Gen. Sales Mgr.; G. C. Freas, Kalamazoo Sales Mgr.; C. L. Russell, Dir. of Quality Control; P. Kraushaar, Dir. Industrial Rel.; H. Peeters, Dir. Prod. Scheduling; J. Galloway, Prod. Mgr.; L. Stoeffler, Process Dev. Mgr.; B. Growald, Coating Res. Mgr.; T. Kayhart, Engrg. Mgr.; W. Buenger, Gen. Supt. Bryant Div.; M. Carl, Gen. Supt. Monarch Div.; C. J. Bos, Mgr. Coating Div.; D. Huyser, Mgr. King Photographic Div., L. Scott, Dir. of Pur.; O. V. Mason, Traffic Mgr.) KING MILL. S. P., Kalamazoo, Mich. Railroad Sidings: N. Y. C., G. T. W. and P. R. R. Two 2000-lb. Beaters, four Pulpers, four Oliver Washers, three Bird Vibrator Screens and ten Jordans. Four Fourdriniers; widest trimmed sheets, 107, 111, 117 and 130 inches. Bauer Cleaners, 3-stage Bleach System, three Rewinders, four Cutters and five Trimmers; two Super Calender and Photographic Coaters. MONARCH MILL. S. P., Kalamazoo, Mich. Two Pulpers, three 2,400-lb. Beaters, two Claflins, five Jordans, two Hi-Speed Refiners, two Rewinders, two Cutters and one Trimmer. Two Fourdriniers; widest trimmed sheets, 111 and 120 inches. BRYANT MILL: Six Jordans, ten Morden Stockmakers, two High Speed Refiners, eleven Beaters (1400, 1500 and 1800-lbs.), seven Pulpers, three Oliver Washers, three Bird Vibrator Screens, 2-stage Bleach System, eight Cutters, nine Trimmers, seven Coaters, seven Supercalenders and three Rewinders. Five Fourdriniers; widest trimmed sheets, two 126, 127, 142 and 152 inches. Also Coating Mill Purchased Electricity: 5000 k.w., Generated: 11,500 k.w., 440-2300 v., 60 Cycles, 3 Phase; 37,000 h.p. Installed; Coal: 300, 400, 600 p.s.i. Steam Pressure. GRADES MADE (Uncoated). Machine Finish, English Finish, Duplicator, Catalogue, Offset; Map Eggshell, Writing Tablet, Mimeograph, Poster, Label, Music, Drawing, Box Cover, Litho Coating Raw Stock, Bible and Specialties. 300 tons 24 hours. COATED: Offset Label, Dull Finish, Folding Enamel Cover, Varnish Label, Post Card, Gloss Ink Papers, C1S and C2S Enamels, Inserts. 400 tons 24 hours. DE-INKING PULP MILL. Pulp 100 tons 24 hours. Highways, U. S., 12 and 131; State, 43 and 96. Phone: Fireside 5-7131.

HAWTHORNE PAPER CO., P. O. Box 2858. King Highway. (William Slavin, Chairman of Board; Louis J. Slavin, Pres.; Carl W. Groebeck, Vice-Pres. i/c Mfg.; S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275 lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent Master, Mimeograph, Duplicator, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Wedding, Papeteries, Photogelatin Paper. 65 tons 24 hours. Highway, State 96. Phone: FIreside 5-1163.

KVP SUTHERLAND PAPER CO. Phone: 616—383-5000. (Dwight L. Stocker, Pres.; Norvel Hunter, Senior Exec. Vice-Pres.; H. O'Donnell, Exec. Vice-Pres.; Robert D. Cain, Exec. Vice-Pres.; B. C. White, Financial Vice-Pres. and Cont.; W. Donald Brownell, Vice-Pres.; James T. Kirkpatrick, Vice Pres.; A. L. Sherwood, Vice-Pres.; Harold De Weerd, Sec.; Stewart T. Geelhood, Treas.; C. W. Walton, Asst. Vice-Pres.; H. M. Johnson, Asst. Sec.; C. W. Lawrance, Asst. Sec.; Homer Barber, Pur. Agt. Sutherland Div.; Frank Wotalewicz, Pur. Agt. KVP Div.; Melvin Lievense, Gen. Traffic Mgr. KVP DIVISION (formerly Kalamazoo Vegetable Parchment Co.) Railroad Siding, N. Y. C. and C. K. & S. R. R. MILL NO. 1. Three Fibremasters, five 2000-lb., two 2500-lb. and two 4000-lb. Beaters, and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdrinier; widest trimmed sheets, 104 and 148 inches. Five Parchment Machines; widest trimmed sheets, 92 and 100 inches. MILL NO. 2. Two 6000-lb., two one 1000-lb. Hydrapulpers, five 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 2500-lb. Vortex Beaters, ten Majestic Jordans, six Fibremasters, one 2500-lb Pulpmaster and one 2000-lb. Slushmaker. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers, widest trimmed sheet, 126 inches. Thirteen Waxing Machines, Steam and Electricity. Waxed leaf, Waxing, Waxed, Vegetable Parchment, Bond, Manifold, Offset, Wrappings and Paper Specialties. MILL NO. 1, 87½ tons; MILL NO. 2, 20[illegible] tons 24 hours For Converting Eqpt., See Converters' Section. Highways, Riverview Dr.; U. S. 131 and 12; State 43.

SUTHERLAND DIV., formerly Sutherland Paper Co., S. P. at mill. Railroad Sidings, N.Y.C., Penn. and C. K. & S. R. R. EAST SIDE PLANT. Two Refiners. One Seven Cylinder, [illegible] trimmed sheet, 93 inches. NORTH SIDE PLANT. Eight 2000-lb. Beaters, one Sh[illegible] Breaker Beater, six Hydrapulpers and four Hy[illegible] finers, two Continuous Broke Beaters and [illegible]

PULPS Suitable for every Paper Making Requirement
PAGEL, HORTON & CO., INC.
347 Madison Ave., New York 17, N. Y. Established 1916

[illegible]ween Jordans. One 100-inch Seven Cylinder, one 116-inch Seven Cylinder, one 132-inch seven Cylinder and one 154-inch Eight Cylinder, widest trimmed sheets, 90, 102, 120 and 138 inches. Steam and Electricity. Folding Box Boards, Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Polyethylene Coated Boards, Hot Waxed and Cold Water Waxed Grades. East Side Plant, 100 tons 24 hours; North Side Plant, 550 tons 24 hours. For Converting Equipt., See Converters' Section. Highways, U. S., 12 and 131, State, 43.

KALAMAZOO PAPER CO. Main Office, 2210 E. Michigan Ave. (James A. Wise, Pres. and Gen. Mgr.; J. M. Causey, Vice Pres. and Sales Mgr.; F. B. Curtenius, Vice-Pres. Prod. and Sec.; N. P. Hahn, Treas.; Robert W. Poldrman, Chief Engr.; M. R. Wilkins, Tech. Dir.; R. W. Woodruff, Pur. Agt.; Harley Bouwhuis, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Four 2500-lb. Beaters, two Pulpers, four Jordans, Deinking Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing on Both Machines. MILL NO. 2. Two Pulpers, four 2500-lb. Beaters, four Jordans. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing on both Machines. MILL NO. 3. Three 2000-lb. and two 3000-lb. Beaters, two Pulpers, six Jordans, Deinking Equipment. One 167-inch and one 180-inch Fourdriniers; tub sizing on both machines; widest trimmed sheets, 156 inches and 167 inches. Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Register Bond, Label, Music, Drawing, Linings and Hangings. 300 tons 24 hours. Highway, Interstate 94, 2 miles East; Interstate 94 continues from junction as State 96. Phone: FIreside 3-2667.

NATIONAL GYPSUM CO. Main Office, 325 Delaware Ave., Buffalo 2, N. Y. For Executives, see Main Office. (J. G. Stapler, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Two Hydrapulpers and six Jordans. One 108-inch Eight Cylinder; widest trimmed sheet, 100 inches. Electricity. Gypsum Liner Board Paper, 135 tons 24 hours. Highway, U. S. 12. Phone: Fireside 3-1579.

REX PAPER CO., P. O Box 751, King Highway. (N. A. Altmann, Pres.; Wm. H. Toppan, Vice-Pres. and Gen. Mgr.; Robert A. Huston, Sec.; J. G. Ruimveld, Treas. and Pur. Agt.; H. E. Warren, Supt.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. One Black-Clawson 2000-lb. Hydrabeater, one Black-Clawson Series "O" Hydrafiner, one Black-Clawson No. 2 Jordan, two J. D. Jones Paper Washers, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 111-inch Fourdrinier; widest trimmed sheet, 104¼ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. One Off-Machine Brush Coater, 60 inches wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 p.s.i. Steam Pressures. Coated Book Papers, English Finish Book, Coated and Enameled Offset, Litho and Cover Papers. 30 tons 24 hours. Also six Machine Coating Mills. Highways, U. S., 94, 1 mile; State, 96. Phone: FIreside 2-0151. (Idle)

ST. REGIS PAPER CO. **Leased on long term with option to buy to Thor Corp. See report of Bryant Mill under Allied Paper Corp., Kalamazoo, Mich.**

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Raymond L. Janes, Head of Department; James Miller, Pres.; Russell H. Seibert, Vice-Pres.; Dale L. Faunce, Vice-Pres.; Harley Hartwig, Supt.) One Jones Midget Jordan and two Pulpers. Two Noble & Wood Sheet Machines, various Sheet Molds. One Pilot Stock Preparation System. One 30-inch Pilot Fourdrinier with Size Press and Machine Calender; widest trimmed Sheet, 30 inches. One 30-inch Universal Coating Machine. Two Experimental Stainless Steel Digesters. Experimental Equipment Used in Paper Making Course and for Commercial Research. Purchased Electricity, 60 cycles, 3 phase. Paper and Board from 16 to 90 lb. (25 x 38-500). 4 tons 24 hours. Phone: FIreside 9-2611, Ext. 274.

L'Anse—Baraga Co.

On D.S.S. and A. R.R.

CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago 3, Ill., for executives.) W. C. Heirtzler, Works Mgr.; A. O. Wirtanen, Plant Supt.; R. C. Roberts, Plant Engr.; A. H. Philipp, Tech. Dir.) Building Board, Roof Insulation, Plank, Perforated and Unperforated Tile, Other Interior Finish Products, Sheathing and Other Exterior Insulation Board Products, 175 tons 24 hours. Phone: L'Anse 600.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R. R.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Field Enterprises Inc., Chicago, Ill. (F. S. Hoholik, Pres and Gen. Mgr.; John F. Cross, Jr., Sec.-Treas.; Donald F. Skidds, Supt.; Francis J. Kasun, Pur. Agt.) Railroad Sidings, Soo and Ann Arbor R.R. Two Beaters, two Screens, one Jordan, one Refiner and two Pulpers. One 166-inch Fourdrinier; widest trimmed sheet, 154 inches. Water and Electricity, Coal, 165 p.s.i. Steam Pressure. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 90 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders and one Refiner. Water and Electricity. Ground Wood. 60 tons 24 hours. DE-INKED PULP MILL. De-inked pulp, 50 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 60 Cords Highway, U. S. 2. Phone: Manistique 341-2175.

MHT-001100

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R Green Bay and Lake Michigan Steamers and Air Port

MARATHON DIV., American Can Co See Neenah, Wis, for Corporate Officials. (Martin Lundstrom, Plant Mgr., A S Suminski, Paper Mill Supt.; John A Gasperi, Converting Supt; G. F. Schreiner, Asst Paper Mill Supt; Victor Swanson, Plant Engr) Two Claflin Refiners, five Jordans and four Hydrapulpers. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 154 inches. One Yankee Fourdrinier; widest trimmed sheet, 128 inches. Generated Electricity Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 292 tons 24 hours. Highways, U S, 41; State, 173 Phone: Menominee UN. 3-5595.

SCOTT PAPER CO., formerly Marinette Paper Co For Executives see Scott Paper Co., International Airport, Philadelphia 13, Pa. (Operating Personnel: S J. Lang, Supt) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood 19 tons 24 hours. Average Daily Consupmption of Peeled Pulp Wood, 17 Cords. Highway, U S. 41, ½ mile. Phone: REdwood 5-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run.

CONSOLIDATED PAPER CO., P. O. Box 724, 921 E. Elm Ave. (C. H. R. Johnson, Pres. and Gen. Mgr; T. J. Lopatka, Vice-Pres. Administration; R D. James, Vice-Pres. and Gen. Sales Mgr.; K. E. Verhoeven, Vice-Pres.; C. J. Phinney, Vice-Pres.; F. H. Bock, Sec-Treas.; V. C. Matthews, Sales Mgr. Corrugated Div.; K. E. Heusman, Sales Mgr Automotive and Forming Board Div.; N. F. Krueger, Sales Mgr. Folding Carton Div.; J. P. Bronson, Sales Mgr. Box Board Div.; R. G. Rau, Sales Mgr., Asphalt Drum Div.; W. A. Lunsford, Mgr. of Research and Dev.; J. T. Gleeson, Dir. of Pur., Harry D. Johnson, Traffic Mgr.) S P, Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines; widest trimmed sheets, 108 inches and 122 inches. 300 tons 24 hours. BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydrapulpers. Three Machines; widest trimmed sheets, 103, 112 and 113 inches. 375 tons 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets,, 52, 71 and 88 inches. Steam. Straw Board for Corrugating. 125 tons 24 hours. PANEL BOARD MILL. Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 100 tons 24 hours. PRODUCTS: Corrugating Straw Board, Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Carto[illegible] Asphalt Shipping Drums, Beverage Containe[illegible] Waterproof and Greaseproof Folding Carto[illegible] Highways, U. S., 24, 1 mile East and 25, ½ m[illegible] East, State, 56, ½ mile West 24A Phones: Che[illegible] 1-9000 and 1-9004

MONROE PAPER PRODUCTS CO. Ma[illegible] Office, 1151 W. Elm Ave (Lawrence G. Kunk[illegible] Pres.; John P. Kinsey, Vice-Pres.; Robert [illegible] Swaney, Sec. and Gen. Mgr.; Thomas M. Ba[illegible] Treas, Gene L. Bennett, Sales Mgr; Paul Sch[illegible] erling, Supt; Robert Harter, Chief Engr.) R[illegible] road Siding, Pere Marquette R. R. Two Hy[illegible] pulpers, and ten Jordans. One 124-inch Se[illegible] Cylinder; widest trimmed sheet, 110 inc[illegible] Steam and Electricity. Test Liners, Plain C[illegible] Set-up Box Board, Automobile Panel Bo[illegible] Shipping Containers and Specialties. 135 tons [illegible] hours. Highway, U. S., 24. Phone: CHerry 1-32[illegible]

UNION BAG-CAMP PAPER CORP., [illegible] E. Elm Ave. (For Executives see Main Of[illegible] 233 Broadway, New York 7, N. Y.) S. [illegible] at all mills. MILL NO. 2. One 150-ton D[illegible] Hydrapulper, one 112-inch Seven Cylin[illegible] Board Machine; widest trimmed sheet, 98 inc[illegible] MILL NO 3. One 150-ton Asphalt Dispe[illegible] System and one 150-ton Dilts Hydrapulper, [illegible] 124-inch Seven Cylinder Board Machine; wi[illegible] trimmed sheets, 112 inches. MILL NO. 4. O[illegible] 70-ton APMEW Top Liner Pulper, one 150-[illegible] Dilts Filler Hydrapulper, one 124-inch Se[illegible] Cylinder Board Machine; widest trimmed she[illegible] 112 inches. MILL NO. 5. One 100-ton D[illegible] Hydrapulper, one 102-inch Two Cylin[illegible] Board Machine; widest trimmed sheet, 90 inc[illegible] Chip Boards, Container Boards, Fiber Boa[illegible] Solid Fiber and Corrugated Fiber Shipping C[illegible] and Corrugated Fibre Packing Materials. [illegible] tons 24 hours. Highways, U. S., 24, 2 miles, [illegible] 25, 1 mile; State, 56. Phone: Monroe, Che[illegible] 1-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. [illegible] and D. S. S. & A. M. O., Tel. and Ex[illegible]

KIMBERLY-CLARK CORP., Munising [illegible] Main Office, Neenah, Wis. (For Executives [illegible] Main Office; W. R. Beerman, Mill Mgr.) S. [illegible] mill. NO. 1 MILL. Ten 1800-lb. Beaters. [illegible] 136-inch Fourdriniers; widest trimmed [illegible] 120 inches Steam and Electricity. Bonds, [illegible] ing, Mimeograph, Ledger, Duplicator, [illegible] Paper, Impregnating, Coating Base Stock [illegible] Bleached, Saturated and Coated Specialtie[illegible] tons 24 hours. SULPHITE PULP MILL. [illegible] 84-inch Wet Machine. Steam and Electricity. [illegible] phite Pulp. Highways, U. S., 41, 30 miles; [illegible] 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O.; [illegible] G. T. P. R. R.; Muskegon Co. Airport; G[illegible] hound Bus Lines. M. O., Tel., Bank and [illegible]

BEMIS BRO. BAG CO., TEKMOLD [illegible] 2850 Lincoln Ave., Muskegon, Mich. Main O[illegible]

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PAPERSTOCK
U[illegible]ached
Kraft [illegible]bstitutes

608 Second Ave., S, Minneapolis 2, Minn (Judson Bemis, Pres.; C. W. Akin, Exec. Vice-Pres.; F G Bemis, Jr., Vice-Pres; C C. Hammer, Treas.; J E Zeller, Resident Mgr; John Froelich, Supt.) S P at Mill. Railroad Siding, Grand Trunk Western Four Pulpers. Electricity, Gas. Moulded Pulp Planters, Pots, Growing Containers and Protective Interior Packaging. 50 tons 24 hours. Highways, Interstate, 196, 2 miles from Sherman Blvd.; State, 16 and 31, 2 miles from Sherman Blvd. Phone: PLaza 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Vice-President and Mill Mgr.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S P. at mill. Railroad Siding. C. & O. R. R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Kraft. 175 tons 24 hours. SULPHATE PULP MILL. Six Digesters. Bleached Sulphate Pulp, 125 tons 24 hours. Average daily consumption of peeled pulp wood, 240 cords Highways, U. S. 16 and 31, 5 miles; State 46. Phone: PLaza 5-3761.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO., 100 French St., P.O. Box 214, (J. E. French, Pres. and Gen. Mgr.; L. F. Kretchman, Exec. Vice-Pres.; R. D. Clark, Sec.-Treas.; B. Bigford, Sales Mgr.; E. Lingnowski, Tech. Dir. and Chief Chem.; R. W. Meyers, Traffic Mgr.; R. Engberg, Chief Engr.; R. Etzcorn, Pur. Agt.) S. P. at Mill. Railroad Siding, N. Y. C. R.R. Four Dynapulpers, four Jordans and two Refiners. One 96-inch and one 118-inch Fourdriniers; widest trimmed sheets, 84 and 105 inches. Generated Electricity, 440 v., 60 Cycles, 3 Phase, 1600 h.p. Installed Electricity; 1600 h.p. Installed Water Power; Coal; 150 p.s.i. Steam Pressure. Offset, Colored Offset, Opaque, Cover, Embossed, Greeting, Text and Specialties 60 tons 24 hours. Highways, U. S. 31 and 112; State 60. MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: Howard H. Rausch, Paper Mill Supt.; D. M. Parrish, Plant Engr.; W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Refiners. One Paper Machine Exhaust System. Two 136-inch Single Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 4 feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase, 1521 h.p. Installed Sixty-eight motors of 220 and 440 v. 80-lb Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 16 tons 24 hours. Highways, U. S. 31-112; State, 60. Phone: Niles, MUtual 3-4100.

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On Chic., Milw., St. Paul & Pacific R. R M. O., Tel., Bank and Exp. Greyhound Buses Nearest Air Port, Houghton-Hancock, Mich

HUSS ONTONAGON PULP & PAPER CO. Main Office, 1350 Fullerton Ave., Chicago, Ill (Alvin Huss, Pres; Walter Brewer, Vice-Pres., H. S. Cartwright, Sec.-Treas; Newton Cuneo, Asst. Sec.; Geo. Riedel, Prod. Mgr.; Merlin King Chief Engr.; Robert McFarland, Sales Mgr.; Earl Johnson, Woodlands Mgr.) Railroad Siding. S. P at mill. Two 2000-lb. Jones Beaters, five Jordans, seven Refiners, two Screens and a Ross Paper Machine Ventilator System. One 166-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k.w. Installed, 230 Motors, 440-2360 v., Electric Drives. Coal and Oil; 250 and 650-lb Steam Pressures. Kraft Liner Board, 150 tons 24 hours. .009 NSSC Corrugating Medium. 250 tons 24 hours. SULPHATE and SEMI-CHEMICAL PULP MILL. Five Digesters and one Pandia-American Defibrator Unit and three Bauer and four Sprout Waldron Refiners. Semi-Chemical Pulp, 250 tons 24 hours Sulphate Pulp, 150 tons 24 hours. Average daily consumption of peeled birch and maple pulp wood, 250 cords. Highways, U. S, 45, 1 mile; State, 64. Phone: Ontonagan 1.

Otsego—Allegan Co.

On N.Y.C. R.R. M.O, Bank and Exp. Nearest Air Port, 2 miles.

MAC SIM BAR PAPER PRODUCTS CO. (W. E. Hurlbut, Pres.; L. M. Hart, Vice-Pres.; M. V. Stowe, Sec.; Donald Hunsaker, Treas.; R. A. Faller, Sales Mgr.; Karl Halladin, Gen. Supt.; Chas. Myers, Mill Supt.; Richard Glaser, Asst. Gen. Supt.; Richard Morgan, Tech. Dir.; Fred Carroll, Plant Engr; Robert Orr, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P. at mill. MAC SIM BAR MILL. Fifteen 1200-lb. four 1500-lb. Beaters, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Electricity, generated by Steam Turbines. Coal. 250-lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News 300 tons 24 hours. Highways, U. S, 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

MENASHA CORP., Paperboard Div. Main Office, Menasha Corp, 430 River St, Menasha, Wis. (R. J. Suess, Gen. Mgr; G A McConney, Adm. Supt.; Clifford Sage, Jr, Prod Mgr; F R

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Timlowski, Tech. Dir.; Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur. Agt; J. B. Watters, Woodlands and Wood Buyer) Railroad Siding, N. Y. C. R.R. S. P. at Mill. One 2500-lb. Beater, one Hydrapulper, two Presses and six Primary Refiners and two Secondary Refiners Two Fourdriniers; widest trimmed sheets, 78 inches and 98 inches. Steam and Electricity. .009 Corrugating Semi-Chemical Wood Pulp Boards, 130 tons 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digester Unbleached Semi-Chemical Pulp, 130 tons 24 hours. Average Daily Consumption of Pulp Wood, 150 Cords. Highways, US 131, 1 mile; State M89, ¼ mile. Phone: Otsego, OXford 2-6141.

Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, O.

SIMPLEX PAPER CORP. P. O. Address, Adrian, Mich. (Floyd M. Murphey, Jr., Pres. and Treas.; Robert H. Wood, Vice-Pres. and Sec.; Charles R. Ehinger, Supt.; Edward McCormick, Power Plant Supt.) One 16-ft. and one 12-ft. Pulpers, four Jordans. One Hydrafiner, and one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Six-Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated, 60 Cycles, 3 Phase; Coal; 200 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating. 50 tons 24 hours. Highway, U. S., 223. Phone: Colfax 5-5174.

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On P. R. R. and N. Y. C. R. R. M. O., and Tel.

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Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron. (Geo. C. Dunn, Pres. and Treas.; George B. Smith, Vice-Pres. and Sec.; D. J. Haines, Asst. Treas; Walter E Woods, Mill Mgr.; W. [illegible] Carr, Sales Mgr; John C. Smith, Plant Eng[illegible] N. F. Plouff, Pur. Agt.) Railroad Sidi[illegible] O. T. W. R. R. Two 132-inch Yankee M[illegible] Fourdriniers; widest trimmed sheet, 125 inch[illegible] Electricity, Sulphite and Sulphate Papers for Fl[illegible] Crepe, Diaper Lining, Impregnating Tissue; R[illegible] Mounting, Twisting, Waxing, Absorbent Tis[illegible] Excelsior, One-time Carbonizing and Other MA[illegible] Bleached, Semi-Bleached and Unbleached Sp[illegible] cialties in Jumbo Rolls only. 36 tons 24 ho[illegible] Highway, U. S., 25, ½ mile. Phone YU[illegible] 5-5181-2.

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ROCKY RIVER PAPER MILL, INC., Box [illegible] 604, Broadway Rd. Main Office, 102 E. Chestnut St., Chicago 11, Ill. (Howard Zuker, Pres. and Treas.; Leonard Herman, Vice-Pres.; Richard Mandel, Sec.; Howard Bogle, Mill Mgr.; Corwin H. Drew, Sales Mgr.) S. P. at Mill. Railroad Siding, N. Y. C. (M) R.R. Two 1000-lb. Beaters, three Refiners, five Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. Purchased 50% and Generated 50% Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v., 2000 h.p. installed. Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Machine Clay Coated Board, Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent Lined, Colored Specialties, Kraft, Mounting and Food Packaging Boards. 65 tons 24 hours. Highways, U. S. 131, 1 mile; State 60, 1 mile. Phone: [illegible]-1015.

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SIMPSON LEE PAPER CO., formerly Lee Paper Co. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres. and Sales Mgr.; A. A. Christian, Vice-Pres., Sec. and Prod. Mgr.; K. A. Warren, Treas.; Charles Gardner, Supt.; John Stroud, Pur. Agt.; James Winn, Tech. Dir.) S. P. at mill. Railroad Siding, Penn. R.R. Two 1500-lb. and three 1000-lb. Beaters, four Jordans, six Refiners, three Pulpers, six Screens and one 1000-lb. Washers and four 10,000-lb. Rotar-

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Watervliet—Berrien Co.

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WATERVLIET PAPER CO. Division of Ha[illegible] mermill Paper Co (For Executives, see Hamme[illegible] mill Paper Co.: Erie, Pa. At Watervliet: [illegible] Friedrich, Jr., Div. Mgr.; H. W. Parnass, Asst. Di[illegible] Mgr. and Sales Mgr.; E. Dale Meahl, Proc[illegible] Mgr.; L. J. Scheid, Dir. of Mfg; C. Burdell, Chie[illegible] Engr.; W. H. Jones, Pur Agt; John Hanson [illegible] Woodlands Mgr.; D. D. McKinney, Personne[illegible] Mgr.; F. G. Johnson, Div. Cont.) S.P. at mill. Railroad Siding, C. & O.—Pere Marquette Div. Four Jordans, and two pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 127 inches. Width of Embossing Equipment, 53 inches. Coated—Book, Offset, one-Side-Litho, Cover and Post Card; Playing Card Stock and Offset. 105 tons 24 hours. SEMI-CHEMICAL PULP MILL. Three Globe Rotary Digesters and two Refiners. Electricity, Half Purchased and Half Generated, 450 h.p. Installed Water Power; Coal; 235 p.s.i. Steam Pressure. Semi-Chemical Pulp, 50 tons 24 hours. Highways, U. S., 12; State, 140. Phone: Watervliet-Ingersoll 3-3141.

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On N. Y. C. R. R. M. O., Exp. and Bank. Nearest Air Port at Three Rivers, Mich. Greyhound Bus Line.

WEYERHAEUSER CO. For Executives see Main Office, Tacoma, Wash. (O. J. Flatland, Branch Mgr.; N. Monroe, Supt.; A. Andrews, Tech. Dir.; Le Roy Nusbaum, Chief Engr.; L. A. Weyrick, Pur. Agt.) Fourteen 1200-lb. Beaters, one 12,000-lb. Breaker, one 20,000-lb. Hydrapulper and eight Jordans. One 100-inch and one 122-inch Seven-Cylinder Machines; widest trimmed sheets, 92 and 110 inches. Generated Electricity, 6000 k.w., 3 phase. Coal and Oil. 500 p.s.i. Steam Pressure. Single and Double Patent Coated News, Clay Coated Folding Box Boards, Single and Double Manila Lined and Bending Chip and Metallic Coated Boxboard. 200 tons 24 hours Highway, U. S. 112, ½ mile. Phone: 616—HUdson 3-2315.

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CHARMIN PAPER PRODUCTS CO. See Main Office, Green Bay, Wis., for officials and grades. (N. Raymaker, Plant Mgr.) S. P. at Mill. Railroad Siding, D. & M. Two 136-inch Yankee Fourdriniers: widest trimmed sheet, 124 inches. GROUND WOOD MILL. Three Grinders, Medium Density Bleaching System. Highway, U. S., 27.

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SCOTT PAPER CO., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 17. For executives, see Scott Paper Co., Philadelphia, Pa. 19113. (Operating Personnel: M. F. Schnaufer, Plant Mgr.; J S Brown, Production Mgr.; E H. Williams, Tech Dir.; F. M. Foster, Plant Engr; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.; J F. Gaylord, Personnel Mgr; C. G. Allen, Pulpwood Buyer, J. J. Marousky, Plant Accountant; K. C Waltman, Paper Mill Supt.; H. A. Kentus Finishing Supt.; W E Pasha, Pulp Mill Supt.; E S. Reese, Chief Consumer Rep.; R. G. Lake, Power Supt.) Railroad Siding, Mich. Cent. R.R DELRAY MILL. S. P. at Mill Seven Hollander Beaters, ten Jordans, four Mordens One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines: two 136-inch and one 142-inch Yankees Generated Electricity Coal. Water Treatment Plant. Toilet Tissue in Rolls, Napkins, Wiper Tissues, Waxing Base Stock, Mitscherlich Fiber, M G Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Glazed Specialties. 270 tons 24 hours SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 168 tons 24 hours. Phone: 313—VI 2-0042.

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Groos—Delta Co.

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CONSOLIDATED PACKAGING CORP., P O Box 724, 921 E Elm Ave. Main Office, 72 W. Adams, Chicago, Ill., 60603 (Joseph L. Gidwitz, Chairman of Board; C. H. R Johnson, Pres. and Gen Mgr; Robert P Getty, Senior Vice-Pres Corrugated Div., David S Block, Vice-Pres. and Gen Sales Mgr; T. J Lopatka, Vice-Pres. Industrial Relations; R D James, Vice-Pres Automotive Board, Bldg Board and Fiber Drums; Hy Sweet, Vice-Pres Northwest Mich Region, F. H Bock, Sec; Charles Herlinger, Treas; Gerald Friedman, Cont. and Asst Sec.; William Daniels, Asst to Pres Monroe Mill Operations) S. P., Railroad Sidings at Mills TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two Machines, widest trimmed sheets, 108 inches and 122 inches 300 tons 24 hours BOX BOARD MILL. Eight Dilts Batch Beaters, three Continuous Breaker Beaters and thirteen Jordans Four 14-foot and three 20-foot Hydrapulpers. Three Machines, widest trimmed sheets, 103, 112 and 113 inches 375 tons 24 hours. STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinders; widest trimmed sheets., 52, 71 and 88 inches. Steam Straw Board for Corrugating 125 tons 24 hours. PANEL BOARD MILL Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board 100 tons 24 hours. PRODUCTS: *Corrugating Straw Board, Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons.* Highways, U. S., 24, 1 mile East and 25, ½ mile East; State, 56, ½ mile West 24A. Phone: 313—241-9000.

MONROE PAPER PRODUCTS CO. Main Office, 1151 W. Elm Ave. (John Fery, Pres.; Wm. Agee, Vice-Pres. and Sec.; Charles McDevitt, Treas.; Robert M. Swarley, Gen. Mgr; Lawrence Helton, Prod. Mgr.; Gene L Bennett, Sales Mgr. Paul Schaferling, Supt.; Robert Harter, Chief Engr.; Wm. Finn, Pur. Agt.) Railroad Siding, Pere Marquette R.R. Two Hydrapulpers, and ten Jordans. One 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Steam and Electricity Test Liners, Plain Chip, Set-up Box Board, Automobile Panel Board, Shipping Containers and Specialties. 135 tons 24 hours Highway, U.S. 24. Phone: 313—CHerry 1-3220

UNION BAG-CAMP PAPER CORP., 1109 E. Elm Ave. (For Executives see Main Office, 233 Broadway, New York 7, N. Y.) S. P. at all mills. MILL NO. 2. One 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO 3 One 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches MILL NO 4. One 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. One 100-ton Dilts Hydrapulper, one 102-inch Two Cylinder Board Machine; widest trimmed sheet, 90 inches. *Chip Boards, Container Boards, Solid Fiber and Corrugated Shipping Cases and Corrugated Packing Materials* 350 tons 24 hours Highways, U.S 24, 2 miles and 25, 1 mile State 56 Phone Monroe 313—Cherry 1-7700

Munising—Alger Co.

On L. S & I., connecting with C. & N. W and D S. S. & A. M. O, Tel. and Ex.

KIMBERLY-CLARK CORP., Munising Mill. Main Office, Neenah, Wis (For Executives, see Main Office; W R. Beerman, Mill Mgr.) S. P. at mill. NO 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 85 tons 24 hours SULPHITE PULP MILL (Idle) Highways U S 41, 30 miles State, 94 and 28. Phone: 56

Muskegon—Muskegon Co.

On P M; M. R. & Nav. Co.; C. & O. and G. T P R. R.; Muskegon Co. Airport; Greyhound Bus Lines M. O., Tel., Bank and Exp.

BEMIS BRO. BAG CO., TEKMOLD DIV. 2850 Lincoln Ave., Muskegon, Mich Main Office, 608 Second Ave., S., Minneapolis 2, Minn. (Judson Bemis, Pres: C. W Akin, Exec. Vice-Pres.; F. G Bemis, Jr. Vice-Pres. C. C. Hammer, Treas.; J. E

MHI-00108

Zeller, Gen. Mgr.; Monte Shomaker, Supt.) S. P. at Mill Railroad Siding. Grand Trunk Western. Four Pulpers. Electricity, Gas. Moulded Pulp Planters, Pots, Growing Containers and Protective Interior Packaging. 5 tons 24 hours. Highways, Interstate, 196, 2 miles from Sherman Blvd.; State, 16 and 31, 2 miles from Sherman Blvd. Phone: 616—PLaza 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr. Main Office, 89 Broad St., Boston, Mass. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Vice-President and Mill Mgr.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S.P. at mill. Railroad Siding. C. & O. R. R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Specialties. 175 tons 24 hours. SULPHATE PULP MILL. Six Digesters. Bleached Sulphate Pulp, 125 tons 24 hours. Average daily consumption of peeled pulp wood, 240 cords. Highways, U.S. 16 and 31, 5 miles; State 46. Phone: 616—PLaza —5-3761.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO., 100 French St., P.O. Box 214. (J. E. French, Pres. and Gen. Mgr.; L. F. Kretchman, Exec. Vice-Pres.; R. D. Clark, Sec.-Treas.; B. Bilford, Sales Mgr.; R. C. Kinzel, Supt.; E. Lingnowski, Tech. Dir. and Chief Chem.; R. W. Meyers, Traffic Mgr.; R. Engberg, Chief Engr.; R. Eizcorn, Pur. Agt.) S. P. at Mill. Railroad Siding, N. Y. C. R. R. Four Dynapulpers, four Jordans and two Refiners. One 96-inch and one 118-inch Fourdriniers, widest trimmed sheets, 84 and 105 inches. Generated Electricity, 440 v., 60 Cycles, 3 Phase, 1600 h.p. Installed Electricity, 1600 h.p. Installed Water Power: Coal; 150 p.s.i. Steam Pressure. Offset, Colored Offset, Opaque, Cover, Embossed, Greeting, Text and Specialties. 60 tons 24 hours. Highways, U.S. 31 and 112. State 60. Phone: 616—MUtual 3-1100.

SIMPLICITY PATTERN CO., INC. Main Office, 200 Madison Ave., New York 16, N. Y. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: Howard H. Rausch, Paper Mill Supt.; D. M. Parrish, Plant Engr.; W. V. Dieckmann, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R. R. One Dynapulper and one 2000-lb. Beater and four Jordans. One Paper Machine Exhaust System. Two 136-inch Eight Cylinders: widest trimmed sheet 120 inches. Sixteen Driers, 4 feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase, 1761 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 16 tons 24 hours. Highways, U. S. 31, State, 60. Phone: Niles, 616—MUtual 3-4100.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R. M. O., Tel., Bank and Exp. Greyhound Buses. Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER DIV., Hoener Boxes, Inc., Mill and Sales Office, 1350 Fullerton Ave., Chicago, Ill. Main Office, Keokuk, Iowa. (Alvin Huss, Vice-Chairman of Board; John Hoeft, Res. Mgr.) Railroad Siding S. P. at mill. Two 2000-lb. Jones Beaters, five Jordans, seven Refiners, two Screens and a Ross Paper Machine Ventilator System. One 166-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k.w. Installed, 230 Motors, 440-2360 v., Electric Drives. Coal and Oil; 250 and 650-lb. Steam Pressures. Kraft Liner Board, 150 tons 24 hours. .009 NSSC Corrugating Medium, 250 tons 24 hours. SULPHATE and SEMI-CHEMICAL PULP MILL. Five Digesters and one Pandia-American Defibrator Unit and three Bauer and four Sprout Waldron Refiners. Semi-Chemical Pulp, 250 tons 24 hours Sulphate Pulp, 150 tons 24 hours. Average daily consumption of peeled birch and maple pulp wood, 250 cords. Highways, U. S., 45, 1 mile; State, 64. Phone: Ontonagan 1

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MAC SIM BAR DIV., WALDORF PAPER PRODUCTS CO., P. O. Box 187, Otsego, Mich. 49078. (M. V. Stowe, Sec.; R. H. Glaser, Res. Mgr.; Gordon Duisterhof, Regional Sales Mgr.; Chas. Myers, Mill Supt.; Richard Morgan, Tech. Dir.; Fritz Schmid, Chief Engr.; L. M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R. R. S. P. at mill. MAC SIM BAR MILL. Fifteen 1200-lb. four 1500-lb. Beaters, one 3,000-lb. Norden Slushmaker, three Refiners, eight Screens, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders, widest trimmed sheets, 115 and 129 inches. Two On-Machine 128-inch Roll Coaters. One 200 ton per day Cleaning and Asphalt Dispersion System. Electricity, generated by Steam Turbines, 60 Cycles, 3 Phase, 6,000 k.v.a. Installed Electric h.p. Coal; 290 lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News. 170 tons 24 hours. Highways, U. S. 131, 2 miles State, 89. Phone: Otsego, OXford 2-6211.

MENASHA CORP., Paperboard Div. Main Office, Menasha Corp., 430 River St., Menasha, Wis. (R. J. Suess, Gen. Mgr.; G. A. McConney, Adm. Supt.; Clifford Sage, Jr., Prod. Mgr.; E. R.

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Palmyra—Lenawee Co.

On N. Y. C. R. R. Tel. M. O., Bank and Exp. at Adrian. Nearest Air Port Toledo, Ohio; Short Way Bus Line.

SIMPLEX PAPER CORP. P. O. Address, Treat Rd., Adrian, Mich. (Floyd M. Murphey, Jr., Pres., Treas. and Gen. Mgr.; Robert H Wood, Vice-Pres., Sec. and Sales Mgr.; J. Charles Young, Vice-Pres.; Charles R. Ehinger, Supt.; Edward McCormick, Chief Engr.; C. F. Matthes, Pur. Agt.) One 16-ft. and one 12-ft. Pulpers, one Jordan, two Bauer Disc. Refiners, one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Six-Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated, 60 Cycles, 3 Phase; Coal; 200 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating. 50 tons 24 hours Highway, U S, 223 Phone: 313—265-5174

Plainwell—Allegan Co.

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WEYERHAEUSER CO., PAPER DIV., formerly Hamilton Paper Co. Plainwell Div., 111 Mill St. Main Office, Fitchburg, Mass For Executives see Main Office (L D. Nicolson, Mill Mgr.; J H Kauffman, Asst. Mgr.; A. W McCafferty, Personnel Mgr.; R. F. Waber, Pur. Agt) Railroad Siding, Penna. R. R. One 6000-lb. and one 4000-lb. Hydrapulpers, eight 1400-lb Beaters and twelve Refiners One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches Widest Super-Calender, 80 inches Purchased and Generated Electricity. 3 phase, 60 cycles. Coal, 265 p.s.i. Steam Pressure Effluent Treatment Plant. English Finish Book, M F. Book, M. F. Litho, S. C. Book, Antique Book. Tub Sized Offset, Bond, Mimeographed, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers, Vellums, Index, Vellum-Bristol and Post. 140 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: 616—685-8211

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron, 48061. (Geo. C. Dunn, Pres. and Treas.; George B. Smith, Vice-Pres. and Sec.; Walter E. Woods, Vice-Pres. i/c Mfg.; D. J. Haines, Asst. Treas.; W. W. Carr, Sales Mgr.; Carl Burdell, Asst. Mill Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R. R. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 inches. Electricity. Sulphite and Sulphate Papers for Fine Crepe, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, Excelsior, One-time Carbonizing and Other M. G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 45 tons 24 hours. Highway, U. S., 25, ½ mile Phone: 313—YUkon 5-5181-2.

PORT HURON PAPER CO., Washington Ave., 48061. (E. W. Kiefer, Ch. of Board; G. F. Durand, Pres.; F. B. McFarland, Vice-Pres.; J. L. Hoolihan, Vice-Pres.; C. R. Roglitz, Asst. Vice-Pres.; R. S. Smeltzer, Sec.-Treas.; L. M. Sturdevant, Asst. Sec.; George Bajis, Pur. Agt.; E. J. Janssens, Sales Mgr., E. G. Donovan, Asst. Sales Mgr., Frank Davis, Gen. Paper Mill Supt.; G. C. Thompson, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; T. C. Noetzel, Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 143-inch Yankee Fourdrinier; widest trimmed sheet, 127½ inches; one 132-inch Fourdrinier, widest trimmed sheet, 120 inches, one 184-inch Fourdrinier; widest trimmed sheet, 160 inches. Steam and Electricity Bond, Carbon Coating, Carbon Paper, Carbonizing, Coil Winding, Creping, Foil Mounting, Kraft, M. G. Wrapping and Specialties, Manifold, Register, Salesbook, Sulphite Bond, Sulphite Papers, M. G. and M. F. Lightweight Dense Specialty Papers, Tissue Waxing and Wet Strength Specialties. 100 tons 24 hours Phone 313—982-0191.

Rochester—Oakland Co.

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ROCHESTER PAPER CO. P O. Box 185; Mill St. (Paul H Travis, Pres and Gen. Mgr.; M S Arnold Vice-Pres., Gordon Morseth, Vice-Pres. and Plant Mgr.; N. B. Goodnow, Sec.; A. H. Giuliani, Treas., N. A. Wold, Sales Mgr. Automotive Specialties; R. L. Blome, Sales Mgr. Paper and Board; R. J. Arsenault, Sales Mgr. New Prods.; Philip H. Avery, Tech. Dir.; William M. Kirkland, Pur. Agt.) S P. at mill Railroad Siding, G. T. R. R. One 1000-lb. Beater, one E. D Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 62 inches. Purchased Electricity, 60 Cycles, 3 Phase. Oil, 100 p.s.i Steam Pressure. Blotting, Coaster, Cover and Cushion Papers; Impregnated, Regular and Wet Strength Filter Papers; Graph and Grinding Wheel Papers; Impregnated Specialty Papers; Laminated and Packaging Specialties; Photo-Mount, Saturating and Speaker Cone Papers and Embossed Specialties. 12½ tons 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: 313—Olive 1-8121.

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Rockford—Kent Co.

On Penna. R. R. Bank, Tel., Exp. and Nearest Air Port Grand Rapids, Mich. North Star Bus Line.

ROCKFORD PAPER MILLS, INC. (Seymour Rose, Chairman of Board and Pres.; A. J. Edahl, Vice-Pres. Finance; J. Richter, Vice-Pres. Nat. Folding Carton Plant Prod.; L. Bernstein, Vice-Pres. Nat. Folding Carton Sales; R. Battinus, Vice-Pres.; Fred Gave, Jr., Vice-Pres. and Resident Mill Mgr.; Jack Zimler, Vice-Pres. and Dir. of Pur.; Robert Rose, Vice-Pres. Board Sales; David Fisher, Sec.; Judith Rose, Treas.; Edward Gave, Mill Supt.; Grover C. Welch, Chief Engr.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, seven Jordans, three Refiners, eight Screens. One 70-inch Eight Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide; one Suction Press Roll, one Curtis Wright Automatic Caliper Control. Waldron Micro-Jet Coater, Pattern Smoothing Press, Allied Clay Mixing Eqpt. and Drive. Three Complete Escher Wyes Units including Cleaners, Deflakers and Consistency Controls. Purchased Electricity, A. C., 60 Cycles, 3 Phase. 2,100 h.p. Installed Electricity. 300 h. p. Installed Water Power. 440 v. Motors Electric Drives. 135 p. s. i. Steam Pressure, Coal. White Pat. Coated, Clay Coated Boards of all Brightnesses, Chip Board, News Board, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila, Lined Chip, Mist Grey, Kraft Lined, Solid Kraft, Food Grade, and Colored Specialties. 75 tons 24 hours. Highway, U. S, 131, 1½ miles. Phone: 616—866-1523.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC., Box 404, Broadway Rd. Main Office, 102 E. Chestnut St., Chicago 11, Ill. (Howard Zuker, Pres. and Treas.: Leonard Herman, Vice-Pres.; Richard Mandel, Sec.; Howard Bogle, Mill Mgr.; Corwin H. Drew, Sales Mgr.) S. P. at Mill. Railroad Siding, N. Y. C. (M) R.R. Two 1000-lb. Beaters, three Refiners, five Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. Purchased 50% and Generated 50% Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v., 2000 h.p. installed. Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Machine Clay Coated Board, Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Mounting and Food Packaging Boards. 65 tons 24 hours. Highways, U. S. 131, 1 mile; State 60, 1 mile. Phone: 616—273-1015.

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Bank and Ex. Nearest Air Port, Kalamazoo.

SIMPSON LEE PAPER CO., formerly Lee Paper Co. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres. and Sales Mgr.; James Winn, Vice-Pres. and Tech. Dir.; K. A. Warren, Treas.; Charles Gardner, Supt.; John Stroud, Pur. Agt.) S. P. at mill. Railroad Siding, Penn. R.R. Two 1500-lb. and three 1000-lb. Beaters, four Jordans, six Refiners, three Pulpers, six Screens and eight 1000-lb. Washers and four 10,000-lb. Rotaries. One 121½-inch, one 132-inch and one 134-inch Fourdriniers, widest trimmed sheets, 107 inches, 119 inches and 121 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 100 tons 24 hours. Highways, U.S 131, 6 miles West; Interstate 194, 6 miles North Phone: Vicksburg, 616—MIdway 9-5021.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

WATERVLIET PAPER CO. Division of Hammermill Paper Co. (For Executives, see Hammermill Paper Co., Erie, Pa. At Watervliet: V Friedrich, Jr., Div. Mgr.; H. W. Parnass, Asst. Div Mgr. and Sales Mgr.; W. R. Omark, Asst. Sales Mgr.; E. Dale Meahl, Prod. Mgr; L. J. Scheid, Dir. of Mfg; H M. Lyle, Tech. Dir.; Jozua Quist, Chief Engr.; John Pasquill, Pur. Agt.; D. D McKinney, Personnel Mgr.; F G. Johnson, Div Cont.) S. P. at mill Railroad Siding, C. & O — Pere Marquette Div Four Jordans, and two pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 127 inches. Four Air Knife Off-Machine Coaters Width of Embossing Equipment, 53 inches Coated—Book, Offset, one-Side-Litho, Cover and Post Card and Playing Card Stock. 120 tons 24 hours. SEMI-CHEMICAL PULP MILL. Three Globe Rotary Digesters and two Refiners Semi-Chemical Pulp Mill is Idle. Purchased Electricity, 450 h.p. Installed Water Power Coal; 235 p.s.i Steam Pressure Highways. U S 12; State 140 Phone: Watervliet, 616—Ingersoll 3-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O., Exp. and Bank Nearest Air Port at Three Rivers, Mich Greyhound Bus Line.

WEYERHAEUSER CO. For Executives see Main Office, Tacoma, Wash (N. J. Monroe, Branch Mgr.; Newman Drew, Sales Mgr. at Mill, A H. Anderson, Supt.; L. R. Beeman, Tech. Dir; Le Roy Nusbaum, Chief Engr, L. A. Weyrick, Pur. Agt.) Fourteen 1200-lb. Beaters, one 12,000-lb Breaker, one 20,000-lb. Hydrapulper and eight Jordans. One 100-inch and one 122-inch Seven-Cylinder Machines; widest trimmed sheets, 92 and 110 inches Generated Electricity, 6000 k.w., 3 phase. Coal and Oil 500 p.s.i. Steam Pressure. Single and Double Patent Coated News, Clay Coated Folding Box Boards, Single and Double Manila Lined and Bending Chip and Metallic Coated Boxboard. 200 tons 24 hours Highway, U.S. 112, ½ mile. Phone: 616—483-2315.

Ypsilanti—Washtenaw Co.

On N. Y. C, M. C. R.R. M. O., Tel. and

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PACKAGING CORP. OF AMERICA. General Offices, 1632 Chicago Ave, Evanston, Ill. For executives see General Offices (G. Diesk, Vice-Pres. Filer Mill; John Oakes, Sales Mgr.; Richard Brechtges, Prod Mgr; J. Ham, Supt. Paper Mills; B DesCamp, Supt Pulp Mills; D Elliott, Plant Engr; D Voigts, Tech Dir; A. F Koller, Woodlands Mgr., W Linke, Pur Agt) S. P Manistee. Railroad Siding, C & O R R Five Sutherland Refiners, nine Jordans, five Bleachers, nine Filters and three Pulpers and three Paper Machine Ventilator Systems Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 156 and 160 inches One hundred and thirty Dryers, 5 ft in Diameter, 154 and 168 inches wide. Electricity, 17500 k.w., 60 Cycles, 3 Phase, 360 v. Motors, Turbine Drives. Coal. 600-lb. Steam Pressure Water Treatment Plant 009 Corrugating Medium, 400 tons; Bleached Kraft Paper and Board, 170 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS Three Digesters, two B K Continuous Dig Chemi pulpers, five Sprout Waldron Grinders Steam and Electricity Semi Chemical Pulp, 400 tons and Bleached Kraft Pulp, 165 tons 24 hours Average Daily Consumption of Peeled Pulp Wood, 750 Cords Highway, U S, 31, 1 mile Phone: PArkview 3 9951.

Grand Rapids—Kent Co.

On G T, M C; N Y C; Penn; P M R R

PACKAGING CORP OF AMERICA, 415 Fulton St, E, Grand Rapids, Mich, 49502. General Offices, 1632 Chicago Ave, Evanston, Ill For Executives see General Office (E L. Stentz, Vice-Pres Paperboard Div and Gen. Mgr; Robert M Alspaugh, Plant Mgr, H E Castor, Plant Engr; C Jakeway, Tech Dir) S P. at mill Four Pulpers, six Jordans, one Refiner. One 122-inch Seven Cylinder; widest trimmed sheet, 112 inches One On-Machine Air Knife Coater. Generate own power, 3 Phase, 60 Cycle, 440 v; Coal High Grade Box Boards and Test Liners and Clay Coated Grades. 135 tons 24 hours Highways, U S 131, 1 mile; State, 50 and 21, 1 mile. Phone 616—GL 9-4581.

Groos—Delta Co.

On Lake Michigan and E & L S, C N W, and Soo R R Exp, Tel, Bank and Air Port at Escanaba, 6 miles

MEAD CORP, Escanaba Div P O Address, Escanaba, 49829. For Executives, see Main Office, Dayton, Ohio (G S Douglas, Div. Mgr; G. C Eastin, Prod Mgr and Tech Dir; R H. Sogard, Plant Engr; H J Vanlerberghe, Traffic Mgr; R E Nelson, Pur. Agt; R R McDonough, Office Mgr; R. E Schmeling, Woodlands Mgr.) S P. at Mill Railroad Siding, Escanaba & Lake Superior R R. Two Hydrapulpers and two Dynapulpers One Beater, four Jordans, six Refiners and six Screens. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches One Blade, one Roll and one Flooded Nip On Machine Coaters producing 140 tons daily and two 152-inch Off-Machine Blade Coaters producing 120 tons daily. Steam, Electricity and Water Coated Book Papers, Bleached Groundwood Content Uncoated Book Papers and Specialties; 260 tons 24 hours GROUND WOOD MILL. Seventeen Grinders Hydro-Electric Power. 5 million k w h/yr purchased and 110 million k w h/yr generated, 18,000 h p. Installed Electric Power and 15,000 h p. Installed Water Power, Coal and Oil; 400 and 175 p s i Steam Pressure Ground Wood, 100 tons 24 hours Average Daily Consumption of Peeled Pulp Wood, 80 (128 cu ft) Cords Highways, U S. 2 and 41; State 35, 1 mile. Phone· Escanaba, 906—786-1660

Kalamazoo—Kalamazoo Co.

On M C., N Y. C, Penn, C. K & S, and G. T. R R. Greyhound Bus, Air Port, Exp. Tel. and Bank

ALLIED PAPER CORP. Executive and General Sales Office, 1608 Lake St, 49003 Also operate Bleached Sulphate Pulp Mill at Jackson, Ala Midwestern Sales Office, 1 E Wacker Dr, Chicago, Ill, Jack Minar, Sales Mgr. Eastern Sales Office 60 E 42nd St, New York, N Y, 10017, John L'Estrange, Sales Mgr (W D Harrison, Chairman, E J Klimczak, Pres; J D Dailey, Pres-Pulp Div; E J Gilman, Vice-Pres Mfg, R Levy, Vice Pres Research and Dev, J D Nisbet, Vice Pres and Gen. Sales Mgr, H Bernick, Sec-Treas; G C Freas, Office Mgr Mill Sales and Services; J Galloway, Prod Mgr, C. L Russell, Dir of Quality Control; P. Kraushaar, Dir. Industrial Rel; H Peeters, Dir Prod Scheduling; L. Stoeffler, Process Dev. Mgr; B Growald, Coating Res. Mgr; A Vickery, Engrg Mgr; W Buenger, Gen Supt Bryant Div, H Horrocks, Gen. Supt King Div; M Carl, Gen Supt. Monarch Div; C. J. Bos, Mgr Coating Div; L R. Scott, Dir. of Pur; J R Bowen, Traffic Mgr) KING MILL. S. P, Kalamazoo, Mich Railroad Sidings N. Y. C, G T. W. and P R R Three Rewinders, four Cutters and five Trimmers Four Fourdriniers, widest trimmed sheets, 107, 111, 117 and 130 inches DEINKED PULP MILL. Three-stage Bleach System. Deinked pulp, 200 tons 24 hours MONARCH MILL. S. P, Kalamazoo, Mich Two Carbon Coaters. Two Fourdriniers; widest trimmed sheets, 111 and 120 inches. BRYANT MILL. Eight Cutters, nine Trimmers, seven Coaters, seven Supercalenders and three Rewinders Five Fourdriniers; widest trimmed sheets, two 126, 127, 142 and 152 inches. Also have Coating Mill. DEINKED PULP MILL. Two-stage Bleach System. Deinked Pulp, 150 tons 24 hours. GRADES MADE: Uncoated Machine Finish, English Finish, Eggshell, Antique and Wove Finish; Book Publishing Papers; Map, Writing Tablet, Duplicator, Bond, Envelope, Index, Mimeograph, Register Bond, Carbonizing Tissue, Poster, Label, Music, Drawing, Box Cover, Litho Coating Rawstock, Bible, Dictionary and Encyclopaedia and Specialties, 400 tons 24 hours. COATED: Litho and C2S Offset and Letterpress, Folding Enamel Cover, Varnish Label, Post Card, Gloss Ink Papers, Electrostatic Base Stock, Master Paper, and Specialties, 75 tons 24 hours. Highways, U S. 12 and 131; State 43 and 96. Phone: 616—FIreside 5-7131.

HAWTHORNE PAPER CO, P O. Box 2858, King Highway, 49003. (William Slavin, Chairman of Board; Louis J. Slavin, Pres; Carl W. Groesbeck, Vice-Pres. i/c Mfg.; S. R Zatz, Sec; C. Frederick Young, Tech Dir; E M. Betz, Traffic Mgr) Railroad Siding, M. C. R. R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure Water Treatment Plant. Turbine and Other Drives Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent Master, Mimeograph, Duplicator, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper 65 tons 24 hours Highway, State 96 Phone 616—FIreside 5-1163

KVP SUTHERLAND PAPER CO. Phone 616—383-5000 (Dwight L. Stocker, Pres; E Norvel Hunter, Senior Exec Vice Pres; H. R O'Donnell, Exec Vice Pres, Robert D Caine, Exec Vice Pres; B. C. White, Financial Vice-Pres and Cont, John C. Scarth, Vice Pres, Harold De Weerd, Sec, Stewart S Geelhood, Treas, Jack R Woods, Asst Treas, H M Johnson, Asst Sec, Homer Barber, Pur Dir., Thomas E Flanagan, Tech. Div U S Operations, Melvin Lievense, Gen Traffic Mgr) PAPER DIVISION: Railroad Siding, N. Y. C and C K. & S R R MILL NO 1 Four Fibremasters, four 2000 lb, two 2500 lb and two 4000 lb Beaters, and five Majestic Jordans. One 117 inch Horne Harper and one 163 inch Pusey & Jones Fourdriniers, widest trimmed sheets, 104 and 148 inches Five Parchment Machines widest trimmed sheets, 80 and 100 inches MILL NO. 2 Two 6000 lb and one 1000 lb Hydrapulpers, three 2500 lb Horne Beaters, two 2000 lb. Bertram Beaters, four 2000 lb. and one 2500-lb Jones Beaters, three 2500 lb. Vortex Beaters, ten Majestic Jordans, eight Fibre masters, one 2500-lb. Pulpmaster and one 2000-lb Slushmaker. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches. one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139 inch Yankee Fourdriniers; widest trimmed sheet, 126 inches Nine Waxing Machines, Steam and Electricity Waterleaf, Waxing, Waxed, Vegetable Parchment, Bond, Manifold, Offset, Wrappings and Paper Specialties. MILL NO. 1, 87½ tons; MILL NO. 2, 240 tons 24 hours. For Converting Eqpt., See Converters' Section. Highways, Riverview Dr; U. S 131 and 12, State 43, I 94

BOARD DIV., formerly Sutherland Div, S. P at mill. Railroad Sidings, N. Y. C., Penn. and C. K. & S. R.R. EAST SIDE PLANT. Five Beaters, three Hydrafiners, four Jordans. One Seven-Cylinder, widest trimmed sheet 93 inches. NORTH SIDE PLANT. Nine Hydrapulpers, six Beaters, one Shartle Breaker Beater, two Continuous Broke Beaters, eight Hydrafiners, two Morden Stock Makers, two Sprout Waldron Disc Refiners, eighteen Jordans. One 100-inch Seven Cylinder, one 116 inch Seven-Cylinder, one 132-inch Seven Cylinder, one 154-inch Eight Cylinder, widest trimmed sheets 90 inches, 102 inches, 120 inches and 138 inches Steam and Electricity Folding Box Boards, Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Polyethylene Coated Boards, Hot Waxed and Cold Water Waxed Grades. East Side Plant, 100 tons 24 hours; North Side Plant, 550 tons 24 hours For Converting Equipt., See Converters' Section Highways, U S, 12 and 131, State, 43, I 94

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KALAMAZOO PAPER CO.; Main Office, Box 2738, 2425 King Highway, 49001. (James A. Wise, Pres. and Gen. Mgr.; J. M. Causey, Vice-Pres.-Sales; F. B. Curtenius, Vice-Pres. Prod.; R. W. Woodruff, Vice-Pres.-Pur. and Asst. Sec.; N. P. Hahn, Sec.-Treas.; L. A. Stech, Sales Mgr.; Vincent D. Redmond, Supt.; Robert W. Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir. and Chief Chem.; John Gideon, Pur. Agt.; Harley Bowhuis, Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Four 2500-lb. Beaters, two Pulpers, four Jordans. Deinking Equipment. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing on Both Machines. MILL NO. 2. Two Pulpers, four 2500-lb. Beaters, four Jordans. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing on both Machines. MILL NO. 3. Two 2500-lb. and two 3000-lb. Beaters, two Pulpers, six Jordans, Deinking Equipment. One 167-inch and one 180-inch Fourdriniers; tub sizing on both machines; widest trimmed sheets, 156 inches and 167 inches. Super Calenders up to 80 inches wide. Steam and Electricity. M. F., English Finish, Super Offset, Mimeograph, Writing, Register Bond, Label, Music, Drawing, Linings, Coated Papers and Hangings. 300 tons 24 hours. Highway, Interstate 94, 2 miles East; Interstate 94 continues from junction as State 96. Phone: 616—FIreside 3-2667.

NATIONAL GYPSUM CO.; 49099. Main Office, 325 Delaware Ave., Buffalo, N. Y., 14202. For Executives, see Main Office. (J. G. Stapler, Gen. Prod. Mgr.; W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Two Hydrapulpers, five Jordans and one Refiner. One 108-inch Eight Cylinder, widest trimmed sheet, 100 inches. Electricity. Gypsum Liner Board Paper, 135 tons 24 hours. Highway, U.S. 12. Phone: 616—FIreside 3-1579.

REX PAPER CO., P. O Box 751, King Highway, 49005. (N. A. Altmann, Pres.; Wm. H. Toppan, Vice-Pres. and Gen. Mgr.; Robert A. Huston, Sec.; Kenneth H. Hummell, Treas.; Michael B. Lawniczak, Sales Mgr.; Richard J. Moser, Supt.; Robert J. Slevatz, Chief Chem.) S. P., Kalamazoo. Railroad Sidings, two on N. Y. C. One Black-Clawson 2000-lb. Hydrabeater, one Black-Clawson 2000-lb. Hydra-one Black-Clawson Series "O" Hydrafiner, Washer, one 2000-lb. Jones Pulpmaster, one Bleacher and three Screens. One 116-inch Fourdrinier; widest trimmed sheet, 103½ inches. Twenty-six Driers, 48 inches in Diameter and 110 inches Wide. Purchased and Generated Electricity. Electric and Turbine Drives. Coal. 200 and 155 s.i. Steam Pressures. Bond, Mimeo, Duplicator, Liset, Envelope, Drawing, Colored School Construction and Ruled Papers. 30 tons 24 hours. Highways, U.S. 94, 1 mile; State, 96. Phone: —FIreside 2-0151.

T. REGIS PAPER CO. Leased on long term option to buy to Thor Corp. See report of at Mill under Allied Paper Corp., Kalamazoo, Mich.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Raymond L. Janes, Head of Department; George E. Kohrman, Dean; James W. Miller, Pres.; Russell H. Seibert, Vice-Pres.; Dale L. Faunce, Vice-Pres.; Hugh Warren, Plant Dir.) Pilot Stock Preparation System; One Jones 250-lb. Beater, one Jones Midget Jordan and one O1-Claflin. One 26-inch trim Pilot Fourdrinier with Size Press, Creping Doctor and Machine Calender. One Pilot Coater, universal type, 26-inch max. trim, one 30-inch ten-roll double-facer Supercalender for roll stock; Laboratory sheet processing equipment. Experimental Stainless Steel Digester. Variety of pulp and paper testing instruments and equipment for educational and research purposes. Purchased Electricity, 60 cycles, 3 phase. Wide variety of developmental grades of paper and paperboard from 10 to 150 lbs. (25 x 38-500). 4 tons 24 hours. Highways, U.S. 131; State 1-94. Phone: 616—383-1804.

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CELOTEX CORP. (See Main Office, 120 S. La Salle St., Chicago, Ill., 60603, for executives.) (W. C. Heirtzler, Works Mgr.; A. O. Wirtanen, Board Mill Supt.; A. H. Philipp, Fabr. Supt.; L. W. Swanson, Plant Engr.; R. D. Pratt, Tech. Mgr.) Building Board, Roof Insulation, Perforated and Unperforated Tile, Other Interior Finish Products, Sheathing and Other Exterior Insulation Board Products, 175 tons 24 hours. Phone: L'Anse 600.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie; Manistique and Lk. Sup.; Ann Arbor R.R. Tel., Bank and Exp. Greyhound Bus. Nearest Air Port at Escanaba.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. Owned by Field Enterprises Inc., Chicago, Ill. (F. S. Hoholik, Pres. and Gen. Mgr.; John F. Cross, Jr., Sec.-Treas.; Lief Christensen, Tech. Dir.) Railroad Sidings, Soo and Ann Arbor R.R. Two Beaters, two Screens, one Jordan, one Refiner and two Pulpers. One 166-inch Fourdrinier; widest trimmed sheet, 154 inches. Water and Purchased Electricity. 5800 h.p. Installed Electric Power and 5000 h.p. Installed Water Power. Coal, 250 p.s.i. Steam Pressure. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 90 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders and one Refiner. Water and Electricity. Ground Wood, 90 tons 24 hours. DE-INKED PULP MILL. De-inked pulp, 60 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 90 Cords. Highway, U.S. 2. Phone: Manistique 906—341-2175.

Menominee—Menominee Co.

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SCOTT PAPER CO., formerly Marinette Paper Co. For Executives see Scott Paper Co., Philadelphia, Pa. 19113. (Operating Personnel: S. J. Lang, Supt.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 19 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 19 Cords. Highway, U. S. 41, ½ mile. Phone: 906—REdwood 5-6644.

Monroe—Monroe Co.

On N. Y. C.; Penn.; P. M.; D. & T. and C. & O. R. R. Nearest Air Port, Willow Run.

CONSOLIDATED PACKAGING CORP., P.O. Box 724, 921 E. Elm Ave., 48161. For Executives see Main Office, 72 W. Adams, Chicago, Ill., 60603. (Joseph L. Gidwitz, Pres. and Chairman of Board; William Daniels, Vice-Pres. Monroe Mills; Robert D. James, Vice-Pres. Mon-cialties Div.; David S. Block, Vice-Pres. Mill Spec-Lopatka, Vice-Pres., Industrial Relations; Hy Sweet, Vice-Pres.; F. H. Bock, Sec.; Charles Herlinger, Treas.; Gerald Friedman, Cont.; George C. Baron, Mgr. North Side Mills; Leslie P. Peck, Mgr. South Side Mills; William Lunsford, Supt Boxboard and Auto Mills) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two Dilts Beaters, three 20-foot Hydrapulpers and twelve Jordans. Two 123-inch Fourdriniers; widest trimmed sheets 108 inches and 122 inches. 300 tons 24 hours. BOX BOARD MILL. Eight Dilts Batch Beate three Continuous Breaker Beaters and thirteen Jordans. Four 14-foot and three 20-foot Hydra pulpers. Three Machines; widest trimmed she. 103, 112 and 113 inches. 375 tons 24 hour STRAW BOARD MILL. Six Jordans, eleven Washers and sixteen Rotaries. Three Cylinde widest trimmed sheets, 52, 71 and 88 inches Steam, Straw Board for Corrugating 125 tons 24 hours. PANEL BOARD MILL Nine Beaters and four Jordans. Seven Wet Machines; one 52 inches, four 62 inches and one 96 inches and one 136 inches. Steam. Automobile Panel and Resin Forming Board. 100 tons 24 hours. PRODUCTS: Corrugating Straw Board, Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons. Highways, U.S. 24, 1 mile East and 25, ½ mile East; State 56, ½ mile West 24A. Phone: 313—241-9000.

MONROE PAPER DIV., TIME CONTAINER CORP., 1151 W. Elm Ave., 48161. M 5300 W. 74th Pl., Chicago, Ill., 60638 Hindman, Pres. and Treas.; Stephen J. Vice-Pres.; Howard R. Jones, Sec.; Krueger, Gen. Mgr.; Paul Schaferlin Mgr.; John Spanraft, Supt.; Edward Tech. Dir.; Robert Harter, Chief Eng Finn, Pur. Agt.) Railroad Siding, Pere M R.R. Two Hydrapulpers, and ten Jorda 124-inch Seven Cylinder; widest trimmed 110 inches. Steam and Electricity. Test Plain Chip, Set-Up Box Board, Automobile Board, Shipping Containers and Specialtie tons 24 hours. Highway, U.S. 24. Phone: CHerry 1-3220.

UNION BAG-CAMP PAPER CORP., E. Elm Ave. (For Executives see Main O 233 Broadway, New York, N. Y., 10007.) at all mills. MILL NO. 2. One 150-ton Hydrapulper, one 112-inch Seven Cyli Board Machine; widest trimmed sheet, 98 inc MILL NO. 3. One 150-ton Asphalt Dispe System and one 150-ton Dilts Hydrapulper, 124-inch Seven Cylinder Board Machine; wid trimmed sheets, 112 inches. MILL NO. 4. O 70-ton APMEW Top Liner Pulper, one 150-t Dilts Filler Hydrapulper, one 124-inch Sev Cylinder Board Machine; widest trimmed she 112 inches. MILL NO. 5. One 100-ton Dil Hydrapulper, one 102-inch Two Cylind Board Machine; widest trimmed sheet, 90 inche Chip Boards, Container Boards, Solid Fiber an Corrugated Shipping Cases and Corrugated Pack ing Materials. 350 tons 24 hours. Highways, U.S 24, 2 miles, and 25, 1 mile; State 56. Phone Monroe 313—Cherry 1-7700.

Munising—Alger Co.

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KIMBERLY-CLARK CORP., Munising Mill 49862. Main Office, Neenah, Wis. (For Executive see Main Office; W. R. Beerman, Mill Mgr.) S. P at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Tw 136-inch Fourdriniers; widest trimmed shee 120 inches. Steam and Electricity. Bonds, Writ ing, Mimeograph, Ledger, Duplicator, Ma Paper, Impregnating, Coating Base Stock an Bleached, Saturated and Coated Specialties. 8 tons 24 hours. SULPHITE PULP MILL. (Idle Highways, U.S. 41, 30 miles; State, 94 and 2 Phone: 56.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O. an G. T. P. R. R.; Muskegon Co. Airport; Grey hound Bus Lines. M. O., Tel., Bank and Ex

BEMIS BRO. BAG CO., TEKMOLD DIV 2850 Lincoln Ave., Muskegon, Mich., 49441. Ma Office, 608 Second Ave., S., Minneapolis, Minn 55402. (Judson Bemis, Pres.; C. W. Akin, Exe Vice-Pres.; F. G. Bemis, Jr., Vice-Pres.; C. Hammer, Treas.; J. E. Zeller, Gen. Mgr.; Mon Shomaker, Supt.) S. P. at Mill. Railroad Sidi Grand Trunk Western. Four Pulp Gas. Moulded Pulp

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aging. 5 tons 24 hours. Highways, Interstate 196, 2 miles from Sherman Blvd.; State 16 and 31, 2 miles from Sherman Blvd. Phone: 616—PLaza 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr., 49443. Main Office, 89 Broad St., Boston, Mass., 02101. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Vice-President and Mill Mgr.; C. S. Russell, Prod. Mgr.; W. H. Marra, Prod. Mgr.; H. J. Hotz, Tech. Dir.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGloppet, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P. at mill. Railroad Siding. C. & O. R.R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Specialties. 175 tons 24 hours. SULPHATE PULP MILL. Six Digesters. Bleached Sulphate Pulp, 225 tons 24 hours. Average daily consumption of peeled pulp wood, 430 cords. Highways, U.S. 16 and 31, 5 miles; State 46. Phone: 616—PLaza—5-3761.

Niles—Berrien Co.

On N. Y. C. R. R. M. O., Tel. and Bank. Greyhound Bus Lines. Nearest Air Port, South Bend, Ind.

FRENCH PAPER CO., 100 French St., P.O. Box 214, 49120. (J. E. French, Pres. and Gen. Mgr.; L. F. Kretchman, Exec. Vice-Pres.; R. D. Clark, Sec.-Treas.; B. Bigford, Sales Mgr.; E. Lingnowski, Supt.; R. W. Meyers, Traffic Mgr.; R. Engberg, Chief Engr.; R. Etzcorn, Pur. Agt.) S. P. at Mill. Railroad Siding, N. Y. C. R.R. Four Dynapulpers, four Jordans and two Refiners. One 96-inch and one 118-inch Fourdriniers; widest trimmed sheets, 84 and 105 inches. Generated Electricity, 440 v., 60 Cycles, 3 Phase, 1600 h.p. Installed Electricity; 1600 h.p. Installed Water Power; Coal; 150 p.s.i. Steam Pressure. Offset, Colored Offset, Opaque, Cover, Embossed, Greeting, Text and Specialties. 60 tons 24 hours. Highways, U.S. 31 and 112; State 60. Phone: 616—MUtual 3-1100.

SIMPLICITY PATTERN CO., INC., 49120. Main Office, 200 Madison Ave., New York, N. Y., 10016. (J. J. Shapiro, Pres. and Treas.; H. H. Benington, Vice-Pres.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: H. J. Mersereau, Vice-Pres. and Plant Mgr.; Howard H. Rausch, Paper Mill Supt.; D. M. Parrish, Plant Engr.; Earl Stevens, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R.R. One Dynapulper and one 2000-lb. Beater and four Jordans. One Paper Machine Exhaust System. Two 136-inch Eight Cylinders; widest trimmed sheet, 120 inches. Sixteen Driers, 4 feet x 136 inches. Purchased Electricity: 60 Cycles, 3 Phase 1761 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 16 tons 24 hours. Highways, U. S. 31; State, 60. Phone: Niles, 616—MUtual 3-4100.

Ontonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R M. O., Tel., Bank and Exp. Nearest Air Port, Houghton-Hancock, Mich.

HUSS ONTONAGON PULP & PAPER DIV., Hoerner Boxes, Inc., 49953. Mill and Sales Office, 1350 Fullerton Ave., Chicago, Ill. Main Office, Keokuk, Iowa. (Alvin Huss, Vice-Chairman of Board; John Hoeft, Res. Mgr.) Railroad Siding. S. P. at mill. Two 2000-lb. Jones Beaters, five Jordans, seven Refiners, two Screens and a Ross Paper Machine Ventilator System. One 166-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 3500 k.w. Installed, 230 Motors, 440-2360 v., Electric Drives. Coal and Oil; 250 and 650-lb. Steam Pressures. .009 NSSC Corrugating Medium, 250 tons 24 hours. SEMI-CHEMICAL PULP MILL. One Pandia-American Defibrator Unit and three Bauer and four Sprout Waldron Refiners. Semi-Chemical Pulp, 250 tons 24 hours. Average daily consumption of birch and maple pulp wood, 250 cords. Highways, U.S. 45, 1 mile; State 64.

Otsego—Allegan Co.

On N.Y.C. R.R. M.O., Bank and Exp. Nearest Air Port, 2 miles.

MAC SIM BAR DIV., WALDORF PAPER PRODUCTS CO., P. O. Box 187, Otsego, Mich. 49078. (M. V. Stowe, Sec.; R. H. Glaser, Res. Mgr.; Louis Forcier, Prod. Mgr.; Gordon Duisterhof, Regional Sales Mgr.; Fritz Schmid, Chief Engr.; L. M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R.R. S. P. at mill. MAC SIM BAR MILL. Four 1500-lb. Beaters, one 3000-lb Norden Slushmaker, three Refiners, eight Screens, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 126-inch Seven and one 142-inch Eight Cylinders; widest trimmed sheets, 115 and 129 inches. Two On-Machine 128-inch Roll Coaters. One 200 ton per day Cleaning and Asphalt Dispersion System. Electricity, generated by Steam Turbines, 60 Cycles, 3 Phase, 6,000 k.v.a. Installed Electric h.p.; Coal; 290 lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News. 170 tons 24 hours. Highways, U.S., 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

MENASHA CORP., Paperboard Div., 49078. Main Office, Menasha Corp., 430 River St., Menasha, Wis. (R. J. Suess, Gen. Mgr.; G. A. McConney, Adm. Supt.; Clifford Sage, Jr., Prod. Mgr.; E. R. Timlowski, Tech. Dir.; Joseph Cutro, Chief Engr.; R. C. Beveridge, Pur. Agt.; J. B. Watters, Woodlands and Wood Buyer.) Railroad Siding, N. Y. C. R.R. S. P. at Mill. One 2500-lb. Beater, one Hydrapulper, two Presses and six Primary Refiners and two Secondary Refiners. One Fourdrinier; widest trimmed sheet, 162 inches. Steam and Electricity, Semi-Chemical Corrugating Medium, 200 tons 24 hours. SEMI-CHEMICAL PULP MILL. Four Rotary Digester Unbleached Semi-Chemical Pulp, 130 tons 24 hours. Average Daily Consumption of Pulp Wood, 150 Cords. Highways, U.S. 131, 1 mile; State M89, ¼ mile. Phone: Otsego, 616—692-6141.

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SIMPLEX PAPER CORP., P. O. Address, Treat Rd., Adrian, Mich., 49221. (Floyd M. Murphey, Jr., Pres., Treas. and Gen. Mgr.; Robert H. Wood, Vice-Pres., Sec. and Sales Mgr.; J. Charles Young, Vice-Pres.; Charles R. Ehinger, Supt.; Edward McCormick, Chief Engr.; C. F. Matthes, Pur. Agt.) One 16-ft. and one 12-ft. Pulpers, one Jordan, two Bauer Disc. Refiners, one 1000-G. P. M. Sveen Pederson Saveall. One 80-inch Beloit Six-Cylinder; widest trimmed sheet, 78 inches. Electricity, Part Purchased and Part Generated, 60 Cycles, 3 Phase; Gas; 200 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating. 50 tons 24 hours. Highway, U. S., 223. Phone: 313—265-5174.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

WEYERHAEUSER CO., PAPER DIV., 49080. Plainwell Div., 111 Mill St. Main Office, Fitchburg, Mass. For Executives see Main Office. (J. H. Kauffman, Mgr.; Donald O. Martin, Gen. Supt.; A. W. McCafferty, Personnel Mgr.; R. F. Waber, Pur. Agt.) Railroad Siding, Penna. R. R. One 6000-lb. and one 4000-lb. Hydrapulpers, eight 1400-lb. Beaters and twelve Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches. Widest Super-Calender, 80 inches. Purchased and Generated Electricity, 3 phase, 60 cycles; Coal, 265 p.s.i. Steam Pressure. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers, Vellums, Index, Vellum-Bristol and Post. 140 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: 616—685-8211.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO., 218 Riverview, Port Huron, 48061. (D. C. Huntington, Chairman; H. C. Weeks, Pres.; N. G. McLean, Exec. Vice-Pres. and Gen. Mgr.; Walter E. Woods, Vice-Pres. i/c Mfg.; C. E. Josselyn, Sec.-Treas.; D. J. Haines, Cont. and Asst. Treas.; W. W. Carr, Sales Mgr.; Carl Burdell, Asst. Mill Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R.R. Two 132-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 inches. Electricity. Sulphite and Sulphate Papers for Fine Crepe, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, Excelsior, One-Time Carbonizing and Other M. G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 45 tons 24 hours. Highway, U.S. 25, ½ mile. Phone: 313—YUkon 5-5181-2.

PORT HURON PAPER CO., Washington Ave., 48061. (G. F. Durandt, Pres.; F. B. McFarland, Vice-Pres.; C. R. Roglitz, Vice-Pres.; R. S. Smeltzer, Treas.; L. M. Sturdevant, Sec.; George Bajis, Pur. Agt.; E. J. Janssens, Sales Mgr.; E. G. Donovan, Asst. Sales Mgr.; Frank Davis, Paper Mill Mgr.; G. C. Thompson, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; T. C. Noetzel, Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 143-inch Yankee Fourdrinier; widest trimmed sheet, 127½ inches; one 132-inch Fourdrinier, widest trimmed sheet, 120 inches; one 184-inch Fourdriner; widest trimmed sheet, 160 inches. Steam and Electricity. Absorbent, Adding Machine, Anti-Tarnish, Bond, Carbon Coating, Carbon Paper, Carbonized Rolls, Carbonizing, Coil Winding, Creping, Cigarette Tipping, Coating and Glazing Base Stock, Colored Specialties, Crepe Paper, Diaper Linings, Electric Cable Paper, Foil Mounting, Interleaving, Kraft Specialties, Kraft, Laminating Stock, Lens Paper, Offset, Opaque, Tissue Specialties, Wrapping, Wrapping Specialties, Writing, M. G. Wrapping and Specialties, Manifold Register, Salesbook, Sulphite Bond, Sulphite Papers, M. G. and M. F. Lightweight Dense Specialty Papers, Tissue Waxing and Wet Strength Specialties. 100 tons 24 hours. Phone 313—982-0191.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Bank and Exp. Nearest Air Port at Detroit.

ROCHESTER PAPER CO., P. O. Box 185; Mill St. (Paul H. Travis, Pres. and Gen. Mgr.; M. S. Arnold, Vice-Pres.; Gordon Morseth, Vice-Pres. and Plant Mgr.; A. H. Giuliani, Vice-Pres. Finance; N. B. Goodnow, Sec.; John R. Smith, Treas.; N. A. Wold, Sales Mgr. Automotive Specialties; R. L. Blome, Sales Mgr. Paper and Board; R. J. Arsenault, Sales Mgr. New Prods.; Philip H. Avery, Tech. Dir.; William M. Kirkland, Pur. Agt.) S. P. at mill. Railroad Siding, G. T. R. R. One 1000-lb. Beater, one E. D. Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 62 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s.i. Steam Pressure. Blotting, Coaster, Cover and Cushion Papers; Impregnated, Regular and Wet Strength Filter Papers; Graph and Grinding Wheel Papers; Impregnated Specialty Papers; Laminated and Packaging Specialties; Photo-Mount, Saturating and Speaker Cone Papers and Embossed Specialties. 12½ tons 24 hours. High-

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ways, U. S., 10, 9 miles; State, 150. Phone 313—Olive 1-8121.

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ROCKFORD PAPER MILLS, INC., 49341. (Seymour Rose, Chairman of Board and Pres.; A. J. Edahl, Vice-Pres. Finance; L. Bernstein, Vice-Pres. Nat. Folding Carton Sales; R. Battinus, Vice-Pres.; Fred Gave Jr., Vice-Pres. and Resident Mill Mgr.; Jack Zimler, Vice-Pres. and Dir. of Pur.; Robert Rose, Vice-Pres. Board Sales; David Fisher, Sec.; Judith Rose, Treas.; Edward Gave, Mill Supt.; Grover C. Welch, Chief Engr.) Private Siding, P. R. R. S. P., at Mill. Three Hydrapulpers, seven Jordans, three Refiners, eight Screens. One 70-inch Eight Cylinder; widest trimmed sheet, 64 inches. Eighty-seven Driers, 36 inches in Diameter, 68 inches wide; one Suction Press Roll, one Curtis Wright Automatic Caliper Control. Waldron Micro-Jet Coater, Pattern Smoothing Press, Allied Clay Mixing Eqpt. and Drive. Three Complete Escher Wyes Units including Cleaners, Deflakers and Consistency Controls. Purchased Electricity, A. C., 60 Cycles, 3 Phase, 2,100 h.p. Installed Electricity, 300 h. p. Installed Water Power. 440 v. Motors. Electric Drives. 135 p. s. i. Steam Pressure. Coal. White Pat. Coated, Clay Coated Boards of all Brightnesses, Chip Board, News Board, Vat Lined Chip Board, Suit Board, Combination Board, Bleached Manila, Lined Chip, Mist Grey, Kraft Lined, Solid Kraft, Food Grade, and Colored Specialties. 75 tons 24 hours. Highway, U. S., 131, 1½ miles. Phone: 616—866-1523.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C R. R. M. O., Tel., Exp., and Bank. Greyhound and Indiana Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC., Box 404, Broadway Rd. (Howard Bogle, Gen. Mgr.; Corwin H. Drew, Sales Mgr.; Milford Fosdick, Supt.; Marion Leister, Tech. Dir.; Robert Garrison, Traffic Mgr.) S. P. at Mill. Railroad Siding, N. Y. C. (M) R.R. Two 1000-lb. Beaters, two Refiners, six Jordans, four Washers, two Pulpers, six Screens and one Paper Machine Ventilator System. One 80-inch Six-Cylinder; widest trimmed sheet, 72 inches. Seventy-four Driers, 48 inches in diam. and 82 inches wide. One 72-inch On-Machine Coater. Purchased Electricity, 2000 k.w., 60 cycles, 3 phase, 440 v., 2000 h p. installed. Turbine Drives. Coal, 250 p.s.i. Steam Pressure. Water and Effluent Treatment Plants. Machine Clay Coated Board, Tag Boards, Chocolate Layer Board, Folding and Set-Up Box Board, Paper Plate Board, Colored Kraft Liner, White Patent and Colored Specialties, Kraft, Mounting and Food Packaging Boards. 65 tons 24 hours. Highways, U. S. 131, 1 mile; State 60, 1 mile. Phone: 616—273-1015. (Idle)

Vicksburg—Kalamazoo Co.

On G. T.; Penn. R. R. M. O., Bank and Ex. Nearest Air Port, Kalamazoo.

SIMPSON LEE PAPER CO., formerly Lee Paper Co. (Maxwell D. Bardeen, Pres. and Gen. Mgr.; Norman Bardeen, Vice-Pres. and Sales Mgr.; James Winn, Vice-Pres. and Tech. Dir.; A. A. Christian, Vice Pres. and Mill Mgr.; K. A. Warren, Treas.; Charles Gardner, Supt.; John Stroud, Pur. Agt.) S. P. at mill. Railroad Siding, Penn. R.R. Two 1500-lb. and three 1000-lb. Beaters, four Jordans, six Refiners, three Pulpers, six Screens and eight 1000-lb. Washers and four 10,000-lb. Rotaries. One 121½-inch, one 132-inch and one 134-inch Fourdriniers; widest trimmed sheets, 107 inches, 119 inches and 121 inches. Steam and Electricity. Rag Bond and Ledger, Rag and Sulphite Text and Cover, Bristols and Vellums, Specialty Papers. 100 tons 24 hours. Highways, U.S. 131, 6 miles West; Interstate 194, 6 miles North. Phone: Vicksburg, 616—MIdway 9-5021.

Watervliet—Berrien Co.

On C. & O. R. R. Bank and Exp. Air Port at Benton Harbor.

WATERVLIET PAPER CO Division of Hammermill Paper Co., 49098. (For Executives, see Hammermill Paper Co., Erie, Pa. At Watervliet: V. Friedrich, Jr., Div. Mgr.; H. W. Parnass, Asst. Div. Mgr.; W. R. Omark, Sales Mgr.; E. Dale Meahl, Prod. Mgr.; L. J. Scheid, Mgr. Planning and Development; H. M. Lyle, Mgr. of Mfg.; Jozua Quist, Chief Engr.; John Pasquill, Pur. Agt.; D. D. McKinney, Personnel Mgr.; F. G. Johnson, Div. Cont.) S. P. at mill. Railroad Siding, C. & O. —Pere Marquette Div. Four Jordans, and two pulpers. One 124-inch and one 138-inch Fourdriniers; widest trimmed sheets, 114 inches and 127 inches. Four Air Knife Off-Machine Coaters. Width of Embossing Equipment, 53 inches. Coated—Book, Offset, one-Side-Litho, Cover and Post Card and Playing Card Stock. 120 tons 24 hours. SEMI-CHEMICAL PULP MILL. (Dismantled). Purchased Electricity, 450 h.p. Installed Water Power; Coal; 235 p.s.i. Steam Pressure. Highways, U.S. 12; State 140. Phone: Watervliet, 616—Ingersoll 3-3141.

White Pigeon—St. Joseph Co.

On N. Y. C. R. R. M. O., Exp. and Bank. Nearest Air Port at Three Rivers, Mich. Greyhound Bus Line.

WEYERHAEUSER CO. For Executives see Main Office, Tacoma, Wash. (N. J. Monroe, Branch Mgr.; Newman Drew, Sales Mgr. at Mill; A. H. Anderson, Supt.; R. L Morgan, Tech. Dir.; Le Roy Nusbaum, Chief Engr.; C. E. Caveriey, Pur. Agt.) Six 1200-lb. Beaters, one 12,000-lb. Breaker, five Hydrapulpers and eight Jordans. One 100-inch and one 122-inch Seven-Cylinder Machines; widest trimmed sheets, 92 and 110 inches. One 92-inch and one 110-inch Air Knife On-Machine Coaters and one Air Knife Off-Machine Coater. Generated Electricity, 6000 k.w., 3 phase. Coal and Oil. 500 p.s.i. Steam Pressure. Single and Double Patent Coated News,

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GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP
100 PARK AVENUE NEW YORK 17, N. Y.

Clay Coated Folding Box Boards, Single and Double Manila Lined and Bending Chip and Metallic Coated Boxboard. 200 tons 24 hours. Highway, U.S. 112, ½ mile. Phone: 616—483-2315.

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On N. Y. C.; M. C. R.R. M. O., Tel. and Exp.; Greyhound Bus; Nearest Air Port, Willow Run at Detroit.

PENINSULAR PAPER CO., 48197. (Daniel T. Quirk, Pres. and Treas.; D. G. Quirk, Vice-Pres.; Mrs. Florence S. Gilmore, Sec.; Thomas F. Sullivan, Supt.; Glen F. Touse, Chief Chem.; H. P. Quirk, Chief Engr.; J. R. Robtoy, Traffic Mgr.; Glen L. Alt, Pur. Agt.) S. P. at Mill. Railroad Siding, N. Y. C. Two Hydrapulpers. One 65-inch and one 86-inch Fourdriniers; widest trimmed sheets, 57 and 80 inches. Width of Paster, 51 inches. One 40-inch Embosser. Steam and Electricity, Coal and Gas. Cover, Colored Specialties, Sulphite and Bleached Kraft Specialties. 40 tons 24 hours. Highways, U.S. I-75 and I-94, 2 miles; State 12 and 17. Phone: 313—482-2600. Teletype: 313—482-8162.

MINNESOTA

Bemidji—Beltrami Co.

On N. P., G. N., and Soo R. R. M. O., Bank, Tel., Exp. and Air Port, Greyhound and Triangle Buses

NU-PLY CORP., P.O. Box 547, Midway Dr., 56601. (F. Russell Eggers, Pres. and Gen. Mgr.; Lloyd K. Johnson, Vice-Pres.; Clarence R. Smith, Sec.; Harry F. Pihl, Treas.; Archie Gulsvig, Supt.; Don Gould, Tech. Dir.; Paul Barthelemy, Sales and Traffic Mgr.) S. P. at Mill. Railroad Siding, N. P. R.R. Special Machinery including one 49 x 97½-inch Fourdrinier. Purchased Electricity, 440 v. 60 Cycles, 3 Phase, Installed Electric h.p. 2350; Oil, 200 p.s.i.g. Steam Pressure. Standard, Panel and Tempered Hardboard 1/10" to ⅜" thickness and Special Types, 75 tons 24 hours. PULP MILL. Three #445 Bauer Refiners, two 30-ft. Grenco Continuous Cookers and two Drying Systems. Average daily consumption of Peeled Pulp Wood, 75 cords of Aspen. Highway, U.S. 2, 71 and 371, 1 block. Phone: PL 1-5140, 5141, 5142.

Brainerd—Crow Wing Co.

On N. P. R. R. Tel., Bank, Exp., Air Port and Greyhound Bus.

NORTHWEST PAPER CO., THE, 56401. Subsidiary of Potlatch Forests, Inc. General Office, Cloquet. (See Cloquet for Officers and Department Managers. Warren C. Johnson, Mgr.; Edmond F. Kolodge, Prod. Mgr.; Frank Kaulakis, Jr., Mgr.-Coating Dept.; Frank A. Jarboe, Mgr. Paper Mfg.; Robert R. Watkins, Mgr. Finishing and Shipping; Harold N. Pitt, Mgr. Industrial Service; William J. Shepeck, Mgr. Mech. Service; Burdell L. Lower, Mgr. Tech. Service). Railroad Siding, N. P. R.R. Three Hydrapulpers, six Liebeck Disintegrators, one Morden slushmaker, seven Jordans and one Claflin. One 128-inch and one 200-inch Fourdriniers, widest trimmed sheets, 114 and 180 inches. One 114-inch Double Coating Machine and two Supercalenders. Steam and Hydro-Electricity. Bond, Duplicator, Ledger, Mimeograph, Map Bond, Book, Label, Offset, Poster, Writing, Bristol, Post Card, Cover, Text, Envelope, Adding Machine, Coating Raw Stock, Drawing, Gumming, Lining, Papeteries, Register, Tablet, Translucent, Greeting Card, MICR Papers, Bible, Mimeoset, Publishers Book Papers, Tripurpose Paper; and Coated Book, Lithograph and Label Papers. 250 tons 24 hours. Highways, U.S. 210 and 371; State 18. Phone: 218—829-4741.

Cloquet—Carlton Co.

On G. N.; N. P.; C. M. & St. P.; D. & N. E. R. R. M. O., Tel., Bank and Ex. Air Port, Duluth. Greyhound Bus.

NORTHWEST PAPER CO., THE, 55720. Subsidiary of Potlatch Forests, Inc. General Office, Cloquet, Minn. Mills at Cloquet and Brainerd, Minn. Sales Offices at 20 N. Wacker Dr., Chicago, Ill, 60606; Foshay Tower, Minneapolis, Minn., 55402; Shell Bldg., St. Louis, Mo., 63103; 420 Lexington Ave., New York, N. Y., 10017; 244 California St., San Francisco, Calif., 94111. (Harry T. Kendall, Jr. Pres.; C. P. Sheldon, Sr. Vice-Pres.; Mace V. Harris, Sr. Vice-Pres.; Roy I. Nilsen, Vice-Pres. and Gen. Mgr.; Joel J. Jenkins, Vice-Pres. and Gen. Sales Mgr.; Phillip W. Budd, Vice-Pres. and Mgr. of Mfg.; William M. Mac Connachie, Jr., Vice-Pres. and Mgr. of Lands and Timber; Glenn J. Ayres, Sec.; Richard C. Nordholm, Asst. Sec.; Clarence W. Jensen, Treas.; Fred A. Joice, Asst. Treas. and Compt.; Henry C. Larson, Asst. Treas. and Office Mgr.; Edwin B. Wenzel, Mgr. Industrial Service; Theo. W. Kamps, Jr., Asst. to Mgr. Mfg.; Roy P. Hella, Mgr. Cloquet Mill; Edwin F. Erickson, Mgr. Paper Mfg.; F. C Schroeder, Mgr. Tech. Serv.; Richard H. Cornell, Mgr. Research and Dev.; Frank B. Ashley, Mgr. Mech. Service; Peter J. Nelson, Mgr. Sales Serv.; Harold H. Huseby, Mgr. Finishing and Shipping; William D. Chandler, Mgr. Mfg. Service; Edwin J. Janowski, Asst. Mgr. Lands and Timber and Chief Forester; T. C. Guenther, Adv. and Sales Promotion Mgr.; L. V. Blinn, Mgr. Purchasing; Fred E. Schueppert, Mgr. of Transportation.) S. P. at mill. Four Hydrapulpers, six Broke Beaters, twelve Jordans and three Claflins. One 100-inch, one 123-inch, one 124-inch and one 213-inch Fourdriniers; widest trimmed sheets, 86, 106, 108 and 194 inches. Bond, Duplicator, Ledger, Mimeograph, Map Bond, Book, Label, Offset, Poster, Writing, Bristol, Post Card, Cover, Text, Envelope, Adding Machine, Coating Raw Stock, Drawing, Gumming, Lining, Papeteries, Register, Tablet, Translucent, Greeting Card, MICR Papers, Bible, Mimeoset, Publishers Book Papers, Tripurpose Paper; and Embossed Cover, Text and Offset. 310 tons 24 hours. SULPHITE PULP MILL. Three Digesters. Bleached Sulphite Pulp, 115 tons

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Pur. Agt.; L. O. Reisinger, Employee Services Administrator) PAPER MILL. S. P. at Mill. Thirteen Jordans, two Claflins, four Disc Refiners. One 182-inch Fourdrinier; widest trimmed sheet, 166 inches. One 262-inch Fourdrinier with Secondary Headbox; widest trimmed sheet, 242 inches; 96-inch Counter Roll Rewinder, Sack, Bag, Wrapping, Extensible and other Specialty Bleached and Unbleached Papers. Nos. 1, 2 and 3 White Linerboards; Carton, Tag, Cup Stock and other Bleached and Unbleached Specialty Boards. 610 tons 24 hours. SULPHATE PULP MILL. S. P. at Mill. Two Continuous and three Batch Digesters and two 135-inch Flakt Driers. Steam and Electricity. Unbleached, Semi-bleached and Bleached Sulphate pulp, 845 tons 24 hours. Highway, U. S., 99 and 410; State, 1 and 5. Phone: 206—FUlton 3-1861.

WEYERHAEUSER CO. Main Office, Tacoma Bldg., Tacoma, Wash. 98401. (Norton Clapp, Pres.; Howard W. Morgan, Exec. Vice-Pres Pulp and Paper Products. Pulp and Paperboard Div.: Merrill D. Robison, Vice-Pres. and Mgr.; J. O. Julson, Prod. Mgr.; Alfred Graef, Mgr. of Tech. Services—Pulp; Rodger C. Derby, Mgr. Board Sales; Spencer M. Smith, Mgr. Pulp Sales, New York.) Pulp Sales Offices: 230 Park Ave, New York, N. Y., 10017; 77 High St., Clinton, Mass; 200 S. Michigan Ave., Chicago, Ill., 60604; Tacoma Bldg., Tacoma, Wash 98401. Board Sales Offices: 230 Park Ave., New York, N. Y., 10017; 100 S. Wacker Dr, Chicago, Ill 60606; 681 Market St., San Francisco, Calif., 94105; 13400 E. Nelson Ave., City of Industry, Calif., 91743. 3460 Wilshire Blvd., Los Angeles, Calif. 90005; 1827 N. Bendix Dr., South Bend, Ind. 46628.

MILLS OF THE COMPANY

Location	Daily Capacity in Finished Tons
Everett, Wash.	
Sulphite Market Pulp	300
Sulphate Market Pulp	360
Cosmopolis, Wash.	
Sulphite Market Pulp	350
Longview, Wash.	
Sulphite Market Pulp	260
Mitscherlich Market Pulp	50
Sulphate Market Pulp	310
Sulphate Paperboard	340
Corrugating Medium	200
Springfield, Ore.	
Sulphate Linerboard (or 750 Linerboard and 400 Market Pulp)	1,190
Plymouth, N. C.	
Sulphate Linerboard	660
Sulphate Paperboard	210
Semi-Chemical Corrugating Medium	280
White Pigeon, Mich.	
Boxboard ...	170

Vancouver—Clarke Co.

On Gt. Northern; No. Pac.; Spok. P. & S. Sys.; Union Pac. System. Greyhound Bus Nearest Airport, Portland, Ore.

BOISE CASCADE CORP., Fine Paper Div., 907 W. 7th St., 98660. Main Office, 2121 N. W. 26th Ave., Portland, Ore, 97210. (R. V. Hansberger, Pres; W. D. Eberle, Vice-Pres. and Sec.; R. W. Halliday, Vice-Pres. and Treas.; Cecil Taylor, Gen. Mgr.; Jon Miller, Sales Mgr.; Hans Brune, Resident Mgr.; Kenneth R. Roberts, Gen. Supt; Ralph Balmer, Paper Mill Supt.; Ray Hall, Tech. Dir.; Clyde L. Lieser, Sulphite Mill Supt; V. Peters, Chief Engr.; Neal Barney, Plant Engr.; Art Maki, Pur. Agt.; Elmer Folkstad, Wood Buyer.) Ten Refiners. One 132-inch and two 136-inch Fourdriniers; widest trimmed sheets, 118 to 120 inches. Electricity. Bleached Envelope, Bonds, Writings, Safety Paper, Printed Paper and other Bleached Specialties. 150 tons 24 hours. SULPHITE PULP MILL. Five Digesters. Electricity. Sulphite Pulp, 180 tons 24 hours. Highway, U. S., 99, 2 blocks. Phones: Vancouver, 206—693-2567, Portland 503—224-7250.

Wallula—Walla Walla Co.

On N. P. and U. P. R.R. Exp. and Tel. Greyhound Bus. Bank and Air Port at Pasco, Wash.

BOISE CASCADE CORP., Kraft Div., P. O. Box 500, 99336. Main Office, P. O. Box 200, Boise, Idaho. (At Boise: R. V. Hansberger, Pres.; John B Fery, Vice-Pres.; W. D. Eberle, Sec.; R. W. Halliday, Treas. At Portland: Wm. Agee, Sales Mgr. At Wallula: Harry B. Porter, Resident Mgr.; R. P. Allen, Paper Mill Supt.; J. L. Mulyk, Pulp Mill Supt.; R. R. Wiberg, Tech. Supt.; G. A. Witters, Maint. Supt.; W. Frodel, Chief Chem.; F. A. Lowe, Chief Engr.; R. E. Garbe, Pur. Agt.) S P. at Mill. Six Refiners, three Jordans and two Pulpers. One 150-inch trim Fourdrinier. Purchased Electricity 440 v., 60 Cycles, 3 Phase, Gas, 250 p.s.i. Steam Pressure. Linerboard, 375 tons 24 hours. SULPHATE PULP MILL. Five Batch and one Continuous Digesters. Unbleached Sulphate Pulp, 375 tons 24 hours. SEMI-CHEMICAL PULP AND BOARD MILL. Four Refiners, One Fourdrinier, widest trimmed sheet, 150 inches, .009 Corrugating Medium. NSSC PULP MILL. One Continuous Digester. NSSC Pulp, 125 tons 24 hours. (NSSC Pulp and Board Mill under construction. Expect to be in operation in 1965.) Highway, U. S., 410, 13 miles from Pasco. Phone: 509—547-2411.

Wenatchee-Chelan Co.

On G. N. R R. Tel., Bank, Exp. and Air Port.

GREAT NORTHWEST FIBRE CO., P O. Box 460, formerly Pacific Pulp Molding Co. (B. W. Bevis, Pres. and Gen. Mgr.; Henry W. Bigby, Sec.; Mary Pat Bevis, Treas.; Charles V. Gurnard, Prod. Supt.; James Baxter, Chief Chem. and Pur. Agt.; Leo Jaspers, Traffic Mgr.) S. P. at three Jordans, two Refiners, one Screen and Eight Special pulp molding machines. Moulded Pulp Fruit Trays and other Molded Pulp Products. 50 tons 24 hours. GROUND WOOD PULP MILL. One Wet Machine and two Refiners.

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PAPERSTOCK
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Kra Substitutes

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Kalamazoo, Mich. Railroad Sidings: N. Y. C.,
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widest trimmed sheets, 107, 111, 117 and 130
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Two Carbon Coaters. Two Fourdriniers; widest
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sheets, two 126, 127, 142 and 152 inches. Also
have Coating Mill. DEINKED PULP MILL.
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Cover, Litho Coating Rawstock, Bible, Diction-
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24 hours. COATED: Litho and C2S Offset and
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117-inch Horne Harper and one 163-inch Pusey
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trimmed sheets, 80 and 100 inches. MILL NO. 2.

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Two 6000-lb. and one 1000-lb. Hydrapulpers,
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Jones Beaters, three 2500-lb. Vortex Beaters,
ten Majestic Jordans, eight Fibre-masters,
one 2500-lb. Pulpmaster and one 2000-
lb. Slushmaker. One 165-inch Bagley & Sewall
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one 167 inch Beloit Fourdrinier; widest trimmed
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Waxing Machines, Steam and Electricity. Water-
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Seven-Cylinder, widest trimmed sheet 93 inches.
NORTH SIDE BOARD MILL. Nine Hydrapulp-
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Refiners, eighteen Jordans. One 100-inch Seven-
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White Patent Coated News, Bleached and
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Process, Specialty Papers, Rag Book, Weddings,
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MILL NO. 1. Four 2500-lb. Beaters, two Pulpers,
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Calenders up to 80 inches wide. Steam and Elec-
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Twenty-six Driers, 48 inches in Diameter and 110
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SCOTT PAPER CO., formerly Marinette Paper Co. For Executives see Scott Paper Co., Philadelphia, Pa. 19113. (Operating Personnel: S. J. Lang, Supt.) S. P., Menominee, Mich. GROUND WOOD MILL. Three Grinders, four Wet Machines. Ground Wood. 22 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 24 Cords. Highway, U. S. 41, ½ mile. Phone: 715—735-6644.

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UNION CAMP CORP., 1109 E. Elm Ave. 48361. (For Executives see Main Office, 233 Broadway, New York, N. Y., 10007.) S. P. at all mills. MILL NO. 2 Two Jordans, two Refiners, seven Selectifier Screens, one 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. Three Jordans, two Refiners, seven Selectifier Screens, one 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. Three Jordans, two Refiners, seven Selectifier Screens, one 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. MILL NO. 5. Dismantled. POWER PLANT. Electricity 4800/480 v., 60 cycles, 3-phase, 1000 KW Purchased, 7500 KW generated. 600 p.s.i. Steam Pressure. Chip Boards, Container Boards, Solid Fiber and Corrugated Shipping Cases and Corrugated Packing Materials. 300 tons 24 hours. Highways, U.S. 24, 2 miles, and 25, 1 mile; State 56. Phone: Monroe 313—241-7700.

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KIMBERLY-CLARK CORP., Munising Mill, 49862. Main Office, Neenah, Wis. (For Executives, see Main Office; W. R. Beerman, Mill Mgr.) S. P. at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 85 tons 24 hours. SULPHITE PULP MILL. (Idle) Highways, U.S. 41, 30 miles; State, 94 and 28. Phone: 56.

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BEMIS CO., INC. 2850 Lincoln Ave., Muskegon, Mich., 49441. Main Office, 850 Northstar Center, Minneapolis, Minn., 55432. (Judson Bemis, Pres.; C. W. Akin, Exec. Vice-Pres.; F. G. Bemis, Jr., Vice-Pres.; C. C. Hammer, Treas.; J. E. Zeller, Gen. Mgr.; P. Vanderwerf, Sales Mgr.; C. Quimbach, Engr.) S. P. at Mill. Railroad Siding, Grand Trunk Western. Six Pulpers. Electricity. Gas. Moulded Pulp, Protective Interior Packaging. 10 tons 24 hours. Highways, Interstate 196, 2 miles from Sherman Blvd.; State 16 and 31, 2 miles from Sherman Blvd. Phone: 616—PLaza 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr., 49443. Main Office, 225 Franklin St., Boston, Mass 02110. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Vice-President and Mill Mgr.; C. S. Russell, Prod. Mgr.; W. H. Marra, Prod. Mgr.; H. J. Hotz, Tech. Dir.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P. at mill. Railroad Siding. C. & O. R.R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Specialties. 175 tons 24 hours. SULPHATE PULP MILL. One Continuous Digester and one Wet Machine. Bleached Sulphate Pulp, 225 tons 24 hours. Average daily consumption of peeled pulp wood, 430 cords. Highways, U.S. 16 and 31, 5 miles; State 46. Phone: 616—PLaza—5-3761.

Niles—Berrien Co.

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FRENCH PAPER CO., 100 French St., P.O. Box 214, 49120. (J. E. French, Pres. and Gen. Mgr.; Bruce Bigford, Vice-Pres. and Sales Mgr.; R. D Clark, Sec.-Treas.; Charles Leonard, Cont.; Carl L. Anderson, Prod. Mgr.; E. Lingnowski, Supt., Tech. Dir. and Ch. Chemist; R. W. Meyers, Traffic Mgr.; R. Engberg, Chief Engr.; R. Etzcorn, Pur. Agt.) S. P. at Mill. Railroad Siding, N.Y.C R.R. Four Dynapulpers, four Jordans and two Refiners. One 96-inch and one 118-inch Fourdriniers; widest trimmed sheets, 84 and 105 inches Generated Electricity, 440 v., 60 Cycles, 3 Phase 1600 h.p. Installed Electricity; 1600 h.p. Installed Water Power; Coal; 150 p.s.i. Steam Pressure. Off set, Colored Offset, Opaque, Cover, Embossed Greeting Text and Specialties. 60 tons 24 hours Highways, U.S 31 and 112; State 60. Phone 616—MUtual 3-1100.

SIMPLICITY PATTERN CO., INC., 49120 Main Office, 200 Madison Ave., New York, N. Y. 10016. (J. J. Shapiro, Pres. and Treas.; Robert J

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On Chic., Milw., St. Paul & Pacific R. R M. O., Tel., Bank and Exp. Nearest Air Port, Houghton-Hancock, Mich.

HOERNER WALDORF CORP., Mill Div., merly Huss Ontonagon Pulp and Paper Div., erner Boxes, Inc., 49953. Mill and Sales Office, 50 Fullerton Ave., Chicago, Ill. Main Office, eokuk, Iowa. (Alvin Huss, Vice-Chairman of hard; John Hoeft, Res. Mgr.) Railroad Siding. P. at mill. Two 2000-lb. Jones Beaters, five ordans, seven Refiners, two Screens and a Ross aper Machine Ventilator System. One 166-inch im Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated, 1500 k.w. Installed, 230 Motors, 440-2360 v., Electric Drives. Coal and Oil; 250 and 650-lb. Steam Pressures. .009 NSSC Corrugating Medium, 250 tons 24 hours. SEMI-CHEMICAL PULP MILL. One Pandia-American Defibrator Unit and three Bauer and four Sprout Waldron Refiners. Semi-Chemical Pulp, 250 tons 24 hours. Average daily consumption of birch and maple pulp wood, 250 cords. Highways, U.S. 45, 1 mile; State 64.

Otsego—Allegan Co.

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HOERNER WALDORF CORP. formerly Mac Sim Bar Div., Waldorf Paper Products Co., P. O. Box 187, Otsego, Mich. 49078. (R. H. Glaser, Res. Mgr.; Louis Forcier, Prod. Mgr.; Gordon Duisterhof, Regional Sales Mgr.; Leon Symers, Tech. Dir.; Fritz Schmid, Chief Engr.; M. Hart, Pur. Agt.) Railroad Siding, N. Y. C. R. S. P. at mill. MAC SIM BAR MILL. our 1500-lb. Beaters, one 3000-lb. Norden lushmaker, three Refiners, eight Screens, one 75-ton Breaker Beater, two Hydrapulpers and leven Jordans. One 142-inch Eight Cylinder, idest trimmed sheet, 129 inches. One Air-knife, wo Roll On-Machine Coaters; widest trimmed heet, 128 inches. One 200 ton per day Clean- g and Asphalt Dispersion System. Electri- ity, generated by Steam Turbines, 60 Cycles, Phase, 6,000 k.v.a. Installed Electric h.p.; oal: 290 lb. Steam Pressure. Water Treat- ing and Non-Bending Combina- Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News. 170 tons 24 hours. Highways, U. S., 131, 2 miles; State, 89. Phone: Otsego, OXford 2 6211.

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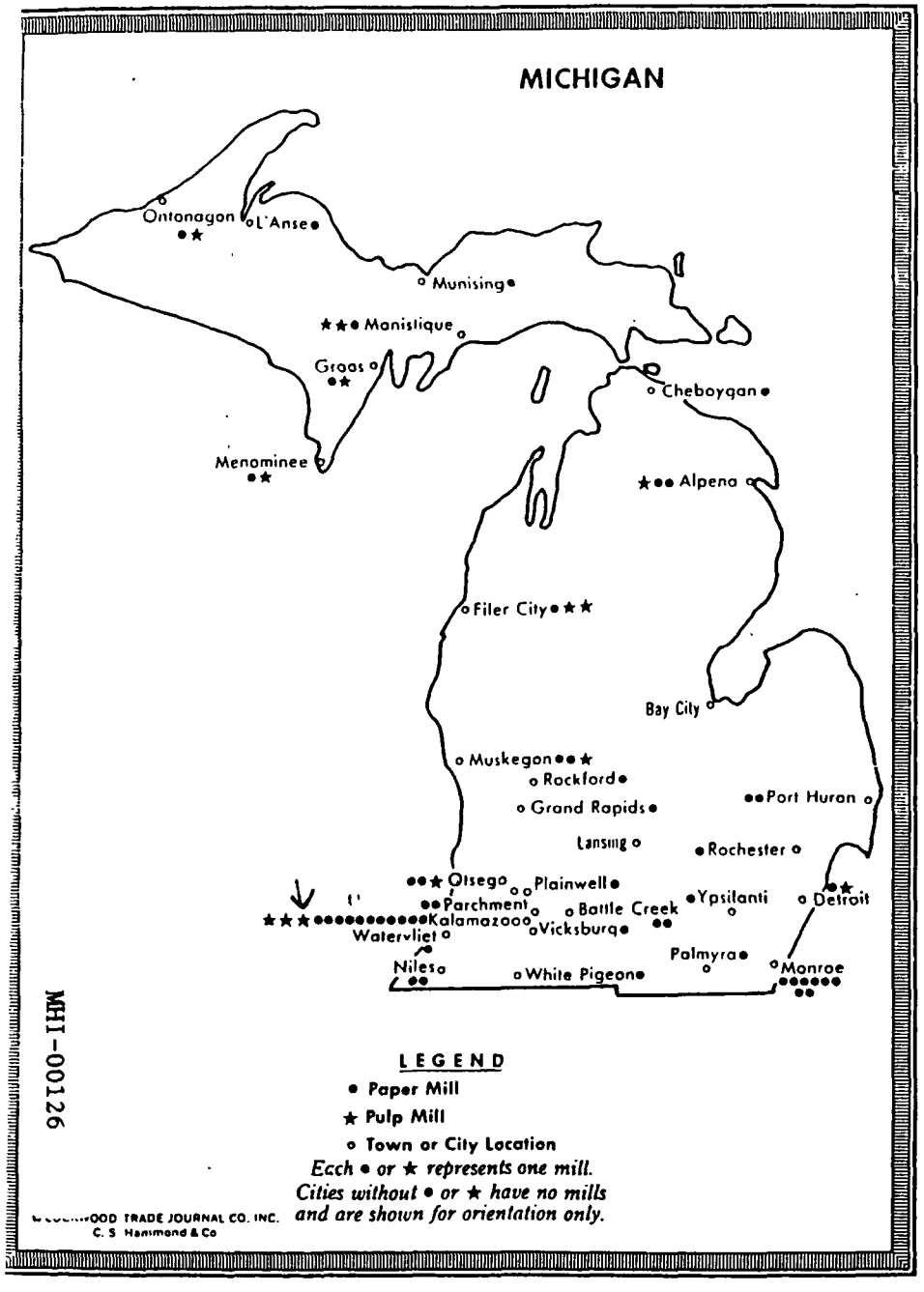

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ayton, Ohio. (G S Douglas, Div Mgr; G C. stin, Prod. Mgr. and Tech Dir.; R H Sogard, nt Engr.; H. J. Vanderberghe, Traffic Mgr., E Nelson, Pur. Agt; R R. McDonough, Office gr.; R. E. Schmeling, Woodlands Mgr) S. P. at ll Railroad Siding, Escanaba & Lake Supe- r R R Two Hydrapulpers and two Dyna- lpers Four Jordans, seven Refiners and six reens Two 166-inch Fourdriniers; widest nmed sheet, 155 inches One Blade, one Roll d one Flooded Nip On-Machine Coaters pro- cing 150 tons daily and two 152-inch Off- achine Blade Coaters producing 120 tons daily. eam, Electricity and Water Coated Book pers, Bleached Groundwood Content Uncoated ok Papers and Specialties; 270 tons 24 hours ROUND WOOD MILL. Seventeen Grinders d two Refiners. Hydro-Electric Power, 5 mil- n k w h /yr. purchased and 110 million k w h generated, 18,000 h p Installed Electric Power d 15,000 h.p. Installed Water Power: Coal and l 490 and 175 p s.i Steam Pressure Ground ood, 100 tons 24 hours. Average Daily Con- mption of Peeled Pulp Wood, 80 (128 cu. ft) rds Highways, U S 2 and 41; State 35, 1 mile one: Escanaba, 906 -786-1660

lamazoo—Kalamazoo Co.

On M. C., N. Y. C., Penn., C. K & S, and G. T. R R. Greyhound Bus, Air Port, Exp Tel. and Bank.

ALLIED PAPER CORP Executive and Gen- l Sales Office, 1608 Lake St., 49003. Also erate Bleached Sulphate Pulp Mill at Jackson, a Midwestern Sales Office, 1 E. Wacker Dr., icago, Ill., Clayton L. Russell, Sales Mgr. stern Sales Office: 60 E. 42nd St., New York, Y. 10017, John L'Estrange, Sales Mgr. (W D rrison, Chairman; E. J. Klimczak, Pres.; J D uley Pres.-Pulp Div.; E. J. Gilman, Vice-Pres g; R. Levy, Vice-Pres Research and Dev.; J. D sbet, Vice-Pres. and Gen. Sales Mgr; H Ber- k, Sec.-Treas; G. C. Freas, Asst. to Pres.; rd Fragomeli. Prod Mgr.; Wm. J. Haselow, r of Quality Control; P. Kraushaar, Dir lustrial Rel; H Peeters, Dir. Prod Schedul- ; L. Stoeffler, Process Dev Mgr.; A Vickery, grg. Mgr.; W. Buenger, Gen. Supt. Bryant .; H. Horrocks, Gen Supt. King Div.; M. rl, Gen. Supt. Monarch Div.; R. Slevatz, pt Rex Div.; C. J. Bos, Mgr. Coating Div; R. Scott, Dir of Pur.; J. R. Bowen, Traffic r) KING MILL S. P., Kalamazoo, Mich. ilroad Sidings. N. Y. C., G T. W and P R R. ree Rewinders, four Cutters and five Trim- rs Four Fourdriniers; widest trimmed sheets, 7, 111, 117 and 130 inches. REX MILL S. P. Mill. R R. Siding on N. Y. C. R. R. One -inch Fourdrinier, widest trimmed sheet 103 hes DEINKED PULP MILL, MONARCH LL. S. P., Kalamazoo, Mich. Two Carbon ffers. Two Fourdriniers; widest trimmed ets, 111 and 120 inches. BRYANT MILL. ht Cutters, nine Trimmers, seven Coaters, en Supercalenders and three Rewinders. e Fourdriniers; widest trimmed sheets, 126, 127, 142 and 152 inches Also Save Coating Mill DEINKED PULP MILL. Two stage Bleach System Deinked Pulp, 150 tons 24 hours. GRADES MADE: Colored Construction, Uncoated Machine Finish, English Finish, Eggshell, Antique and Wove Finish; Book Publishing Papers; Map, Writing Tablet, Duplicator, Bond, Envelope, Index, Mimeograph, Register Bond, Carbonizing Tissue, Poster, Label, Music, Drawing, Box Cover, Litho Coating Raw-stock, Bible, Dictionary and Encyclopedia and Specialties, 450 tons 24 hours COATED: Litho and C2S Offset and Letterpress, Folding Enamel Cover, Varnish Label, Post Card, Gloss Ink Papers, Electrostatic Base Stock, Master Paper, and Specialties, 75 tons 24 hours Highways, U S 12 and 131; State 43 and 96 Phone 616—FIreside 5 7131

BROWN CO., formerly KVP Sutherland Paper Co, 49004 For Officers see Main Office 277 Park Ave, New York, N Y. 10017. (Charles Sweitzer, Resident Mgr. Pulp, Paper and Board Mfg. Div.) PULP PAPER AND BOARD DIVISION: Railroad Siding. N. Y. C. and C. K. & S. R.R. MILL NO. 1 Four Fibre-masters, four 2000-lb., two 2500-lb. and two 4000-lb. Beaters, and five Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets, 104 and 148 inches. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. MILL NO. 2 Two 6000-lb. and one 1000-lb. Hydrapulpers, three 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb Jones Beaters, three 2500-lb. Vortex Beaters, ten Majestic Jordans, eight Fibre-masters, one 2500-lb. Pulpmaster and one 2000-lb. Slushmaker. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches: one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Nine Waxing Machines, Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Bond, Manifold, Offset, Wrappings and Paper Specialties. MILL NO. 1, 87½ tons; MILL NO. 2, 240 tons 24 hours For Converting Eqpt., See Converters' Section EAST SIDE MILL. Five Beaters, three Hydrafiners, four Jordans. One Seven-Cylinder, widest trimmed sheet 93 inches. NORTH SIDE BOARD MILL Nine Hydrapulpers, six Beaters, one Shartle Breaker Beater, two Continuous Broke Beaters, eight Hydrafiners, two Morden Stock Makers, two Sprout Waldron Disc Refiners, eighteen Jordans. One 100-inch Seven-

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HAWTHORNE PAPER CO, P O. Box 2858, King Highway, 49003. (William Slavin, Chairman of Board; Louis J. Slavin, Pres, S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir; E M Betz, Traffic Mgr.) Railroad Siding, M. C. R. R, ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent Master, Mimeograph, Duplicator, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 70 tons 24 hours. Highway, State 96. Phone: 616—FIreside 5-1163.

KALAMAZOO PAPER CO. Main Office, Box 2738, 2425 King Highway, 49001. (James A. Wise, Pres. and Gen. Mgr.; J. M. Causey, Vice-Pres.-Sales; W. R. Noel, Mgr. Prod.; R. W. Woodruff, Vice-Pres.-Pur. and Asst. Sec.; N. P. Hahn, Vice-Pres., Sec. and Treas.; L. A. Stech, Sales Mgr.; Vincent D. Redmond, Gen. Supt.; Robert W. Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Rex Treece, Chief Chem.; John Gideon, Pur. Agt.; Harley Bowhuis. Traffic Mgr.) Railroad Siding, N. Y. C. & G. T. W. MILL NO. 1. Four 2500-lb. Beaters, two Pulpers, four Jordans One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing on Both Machines MILL NO. 2. Two Pulpers, four 2500-lb. Beaters, four Jordans. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing on both Machines. MILL NO. 3. Two 2500-lb. and two 3000-lb. Beaters, two Pulpers, six Jordans One 167-inch and one 180-inch Fourdriniers; tub sizing on both machines; widest trimmed sheets, 156 inches and 167 inches. Super Calenders up to 80 inches wide. Two Air Knife Coaters, widest trimmed sheet 80 inches, and one Blade Coater, widest trimmed sheet 90 inches; 150 tons 24 hours. Electricity: 440 v., 60 cycles 3 phase 12,000 KW Generated Coal 850 p s i Steam Pressure M F, English Finish, Super Offset, Mimeograph, Writing, Register Bond Label, Music, Drawing, Linings, Coated Papers and Hangtags 320 tons 24 hours DEINKED PULP MILL. 200 tons 24 hours Highway, Interstate 94, 2 miles East, Interstate 94 continues from junction as State 96 Phone 616—FIreside 3 2667

NATIONAL GYPSUM CO, 49099 Main Office, 325 Delaware Ave, Buffalo, N Y, 14202. For Executives, see Main Office (J. G. Stapler, Gen. Prod. Mgr, W. J Sprau, Prod. Mgr -Paper; E M. Baker, Plant Mgr) Railroad Siding, Mich. Cent. Two Hydrapulpers, two Jordans and three Refiners One 108 inch Eight Cylinder, widest trimmed sheet, 100 inches Electricity. Gypsum Liner Board Paper, 135 tons 24 hours Highway, U S 12. Phone. 616—FIreside 3-1579.

SIMPSON LEE PAPER CO. Corporate Office, 125 Pratt Rd, P. O. Box 2168, 49003. Incorporated in State of Washington, July 28, 1959 (Maxwell D. Bardeen, Pres; James W Winn, Vice-Pres. and Tech Dir.; Albert A Christian, Vice-Pres; Norman Bardeen, Vice Pres, Robert Boyle, Vice-Pres, C. W Bardeen, Sec; Kenneth A Warren, Treas. and Asst Sec, L R. Klenow, Asst Treas, Orlin H Roth, Personnel Exec Ralph Eichhorn, Sales Exec) Mills at Ripon, Calif, Vicksburg, Mich, Everett, Wash Owns 50% Lee Schoeller Paper Co, Pulaski, N Y Phone: 616—345-8681

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CELOTEX CORP. See Main Office, 1500 No. Dale Mabry Hwy, Tampa, Fla. 33607, for executives. (A. H. Philipp, Works Mgr.; A. O Wirtanen, Board Mill Supt.; R J. Slattery, Fabr Supt.; L. W. Swanson, Plant Engr; R. J. Thorne, Quality Control Supv.) Building Board, Perforated and Unperforated Tile, Other Interior Finish Products, Sheathing and Other Exterior

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SCOTT PAPER CO., formerly Marinette Paper Co. For Executives see Scott Paper Co., Philadelphia, Pa. 19113. (Operating Personnel: S. J. ang, Supt.) S. P., Menominee, Mich. GROUND VOOD MILL. Four Grinders, four Wet Machines. Ground Wood. 22 tons 24 hours. Average Daily Consumption of Peeled Pulp Vood, 24 Cords. Highway, U. S. 41, ½ mile. hone: 715—735-6644.

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CONSOLIDATED PACKAGING CORP., .O. Box 724, 921 E. Elm Ave., 48161. For Executives see Main Office, 72 W. Adams, Chicago. ll., 60603. (Joseph L. Gidwitz, Pres. and Chairman of Board; Robert R. Porter, Sr. Vice-Pres.; Robert D. James, Vice-Pres. Mill Specialties Div.; David S. Block, Vice-Pres.; T. J. Lopatka, Vice-Pres., Industrial Relations; Charles Herlinger, Treas.; James Kirkpatrick, Cont.; J. H. McClure, Prod. Mgr.; David Flotow, Tech. Dir.; H. D. Johnson, Traffic Mgr.; Leonard Herman, Sales Mgr. Boxboard; George C. Barton, Mgr. North Side Mills; Leslie P. Peck, Mgr. South Side Mills; J. T. Gleason, Pur. Agt.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two 200-ton per day Asphalt Dispersion Systems, two Dilts Beaters, three 20-foot Hydrapulpers, one 16-foot Hydrapulper, four Refiners and eight Jordans. One 8-cylinder and one 7-cylinder machine. Widest trimmed sheets 102 and 118 inches. 300 tons 24 hours. CORRUGATING MEDIUM MILL. Two refiners and four Jordans. Two Fourdriniers. Widest trimmed sheets 115 and 85 inches. 200 tons 24 hours. BOXBOARD MILL. Three 20-foot, three 14-foot and one 12-foot Hydrapulpers. Four Dilts Breakers, eight Dynapulpers, twenty Jordans, four Refiners, one 8-Cylinder, two 7-Cylinder Machines; widest trimmed sheets 102 and 112 inches. One 72-inch Air Knife, Off-Machine Coater. Boxboard 425 tons 24 hours. Electricity, 220/440 v., 60 cycles. 3-phase, 200 MKW purchased, 100 MKW generated. Coal. 250 p.s.i. Steam Pressure. PRODUCTS: Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons. Highways, I-75, ½ mile West. State 56, ½ mile West 24A. Phone: 313—241-9000.

MONROE DIV., TIME CONTAINER CORP., 1151 W. Elm Ave., 48161. Main Office, 5303 W. 74th Pl., Chicago, Ill., 60638. (Don J. Hindman, Pres. and Treas.; Stephen J. Van Clay, Vice-Pres., Howard R. Jones, Sec.; N. F. Krueger, Vice-Pres. and Gen. Mgr.; Robert Bert, Mill Mgr.; Edward O'Brien, Tech. Dir.; Robert Richey, Tech. Supv.; Robert Harter, Chief Engr.; Wm. Finn, Pur. Agt.) Railroad Siding, C & O R.R. Two Hydrapulpers, and ten Jordans. One 124-inch Seven Cylinder: widest trimmed sheet, 110 inches. Steam and Electricity. Test Liners, Plain Chip, Set-Up Box Board, Automobile Panel and Pasted Board, Shipping Containers and Specialties. 135 tons 24 hours. Highway, U.S. 24. Phone: 313—CHerry 1-3220.

UNION CAMP CORP., 1109 E. Elm Ave. 48361. (For Executives see Main Office, 233 Broadway, New York, N. Y., 10007.) S. P. at all mills. MILL NO. 2 Two Jordans, two Refiners, seven Selectifier Screens, one 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches. MILL NO. 3. Three Jordans, two Refiners, seven Selectifier Screens, one 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. Three Jordans, two Refiners, seven Selectifier Screens,

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Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

KIMBERLY-CLARK CORP., Munising Mill, 49862. Main Office, Neenah, Wis. (For Executives, see Main Office; R. H. Boehm, Mill Mgr.) S. P. at mill. NO. 1 MILL. Ten 1800-lb. Beaters. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 85 tons 24 hours. SULPHITE PULP MILL. (Sulphite Pulp Mill is idle.) Highways, U.S. 41, 30 miles; State, 94 and 28. Phone: 56.

Muskegon—Muskegon Co.

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BEMIS CO., INC. 2850 Lincoln Ave., Muskegon, Mich., 49441. Main Office, 850 Northstar Center, Minneapolis, Minn., 55432. (Judson Bemis, Pres.; C. W. Akin, Exec. Vice-Pres.; F. G. Bemis, Jr., Vice-Pres.; C. C. Hammer, Treas.; J. E. Zeller, Gen. Mgr.; P. Vanderwerf, Sales Mgr.; C. Quimbach, Engr.) S. P. at Mill. Railroad Siding. Grand Trunk Western. Six Pulpers. Electricity. Gas. Moulded Pulp and Polystyrene Protective Interior Packaging. 10 tons 24 hours. Highways, Interstate 196, 2 miles from Sherman Blvd.; State 16 and 31, 2 miles from Sherman Blvd. Phone: 616—PLaza 5-1662.

WARREN, S. D., CO. Central Mill. Office, 2400 Lakeshore Dr., 49443. Main Office, 225 Franklin St., Boston, Mass. 02101. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Vice-President and Mill Mgr.; C. S. Russell, Prod. Mgr.; W. H. Marra, Prod. Mgr.; H. J. Hotz, Tech. Dir.; W. A. Wrase, Ch. Engr.; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P. at mill. Railroad Siding. C. & O. R.R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure. Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Specialties. 175 tons 24 hours. SULPHATE PULP MILL. One Continuous Digester and one Wet Machine. Bleached Sulphate Pulp, 225 tons 24 hours. Average daily consumption of peeled pulp wood, 430 cords. Highways, U.S. 16 and 31, 5 miles; State 46. Phone: 616—PLaza—5-3761.

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SIMPLICITY PATTERN CO., INC., 49120. Main Office, 200 Madison Ave., New York, N. Y., 10016. (J. J. Shapiro, Pres. and Treas.; Robert J. Shapiro, Vice-Pres.; H. C. Raich, Vice-Pres.; A. A. Brin, Vice-Pres.; A. L. Pilson, Sec.; At Niles: H. J. Mersereau, Vice-Pres. and Plant Mgr.; George Lund, Asst. Plant Mgr.; O. Lundberg, Asst. Plant Mgr.; Howard H. Rausch, Paper-Mill Supt.; D. M. Parrish, Plant Engr.; Earl Stevens, Pur. Agt.; Al Mione, Traffic Mgr.) S. P. at mill. Railroad Siding, N. Y. C. R.R. Three Jordans, four Refiners, one Screen and two Pulpers. One Paper Machine Exhaust System. Two 136-inch and one 162-inch Cylinders; widest trimmed sheets 120 and 150 inches. Sixteen Driers, 4 feet x 136 inches. Purchased Electricity: 60 cycles, 3 Phase 3264 h.p. Installed. Sixty-eight motors of 220 and 440 v. 80-lb. Steam Pressure. Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 63 tons 24 hours. Highway, U. S. 31; State, 60. Phone: Niles, 616—MUtual 3-4100.

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HOERNER WALDORF CORP., Mill Div., formerly Huss Ontonagon Pulp and Paper Div., Hoerner Boxes, Inc., 49953. Sales Office, 1350 Fullerton Ave., Chicago, Ill. Main Office, Keokuk, Iowa. (Alvin Huss, Vice-Chairman of Board; John Hoeft, Res. Mgr.) Railroad Siding S.P. at mill. Two 2000-lb. Jones Beaters, five Jordans, seven Refiners, two Screens and a Ross Paper Machine Ventilator System. One 166-inch trim Pusey & Jones Fourdrinier. Electricity: 60 Cycles, 3 Phase, 25% Purchased, 75% Generated. 3500 k.w. Installed, 230 Motors, 440-2360 v. Electric Drives. Coal and Oil; 250 and 650-lb Steam Pressures. .009 NSSC Corrugating Medium.

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HOERNER WALDORF CORP1 formerly Mac Sim Bar Div, Waldorf Paper Products Co., P.O. Box 187, Otsego, Mich. 49078. (Karl Halladin, Resident Mgr; Gordon Duisterhof, Regional Sales Mgr, Leon Rymers, Tech Dir.; Fritz Schmid, Chief Engr.; L. M Hart, Pur. Agt.) Railroad Siding, N Y C. R.R. S. P. at mill. MACSIM BAR MILL Four 1500-lb. Beaters, one 3000-lb. Norden Slushmaker, three Refiners, eight Screens, one 175-ton Breaker Beater, two Hydrapulpers and eleven Jordans. One 142-inch Eight Cylinder, widest trimmed sheet, 129 inches. One Air-knife, Two Roll On-Machine Coaters; widest trimmed sheet, 128 inches. One 200 ton per day Cleaning and Asphalt Dispersion System. Electricity, generated by Steam Turbines, 60 Cycles. 3 Phase, 6,000 k.v.a. Installed Electric h p.; Coal; 290 lb. Steam Pressure. Water Treatment Plant. Bending and Non-Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined. Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News. 170 tons 24 hours. Highways, U S, 131, 2 miles; State, 89. Phone: Otsego, OXford 2-6211.

MENASHA CORP., Paperboard Div., 49078 Main Office, 430 River St., Menasha, Wis (R J Suess, Gen. Mgr.; G. A. McConney, Adm. Supt.; Clifford Sage, Jr., Prod. Mgr; E. R. Timlowski, Tech. Dir.; Joseph Cutro, Asst Gen. Mgr.; Frank Sebastian, Chief Engr.; R C. Beveridge, Pur. Agt.; John Hanson, Woodlands and Wood Buyers.) Railroad Siding, N. Y. C. R.R. S. P. at Mill. One 2500-lb. Beater, one Hydrapulper, three Presses and seven Primary Refiners and three Secondary Refiners. Two Fourdriniers, widest trimmed sheet, 160 and 162 inches Steam and Electricity, Semi-Chemical Corrugating Medium, 200 tons 24 hours. SEMI-CHEMI-AL PULP MILL. Four Rotary Digesters Unleached Semi-Chemical Pulp, 225 tons 24 hours. verage Daily Consumption of Pulp Wood, 150 ords. Highways, U. S. 131, 1 mile; State M89, mile Phone: Otsego, 616—692-6141.

Imyra—Lenawee Co.

On N. Y. C. R. R. Tel., M. O, Bank and Exp. at Adrian. Nearest Air Port Toledo, Ohio; Short Way Bus Line.

IMPLEX PAPER CORP., P. O. Address, at Rd., Adrian, Mich., 49221. (Floyd M. phey, Jr., Pres., Treas. and Gen. Mgr.; Robert Wood, Vice-Pres., Sec. and Sales Mgr; J. Charles Young, Vice-Pres; Charles R. Ehinger, Supt.; R W. Rehm, Chief Engr; C. F. Matthes, Pur Agt.) One 10-foot, one 12 foot and one 16-foot Pulpers, three Jordans, two Bauer Disc Refiners, one 1,000 g p m. and one 1,500 g.p m Sveen Pederson Savealls One 80-inch Beloit Six-cylinder, widest trimmed sheet 78 inches, and two Single-cylinders, widest trimmed sheets 60 and 130 inches Electricity Purchased, 60 Cycles, 3 Phase; Gas, 150 p s i Steam Pressure. Chipboard, Specialties, Building and Insulating, Asphalt Emulsion Forming and Hard Board 50 tons 24 hours of Cylinder Board and 25 tons 24 hours of Binders Board Highway, U S. 223, 6 miles from Adrian Phone: 313—265-5174.

Plainwell—Allegan Co.

On P. R. R. and N. Y. C. R. R. M. O., and Tel.

WEYERHAEUSER CO., PAPER DIV., Plainwell Div., 111 Mill St. 49080. Main Office, Fitchburg, Mass. For Executives see Main Office. (J. G. Kauffman, Branch Mgr.; Donald O. Martin, Mill Supt.; A. W. McCafferty, Personnel Mgr.; R. F. Waber, Pur. Agt.) Railroad Siding, Penna. R. R. One 6000-lb. and one 4000-lb. Hydrapulpers, eight 1400-lb. Beaters and twelve Refiners. One 110-inch and two 130 inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches. Widest Super-Calender, 80 inches. Purchased and Generated Electricity, 3 phase, 60 cycles; Coal, 265 p s i. Steam Pressure. Effluent Treatment Plant English Finish Book, M. F Book, M. F. Litho, S C Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers, Vellums, Index, Vellum-Bristol and Post. 140 tons 24 hours. Highways, U S., 131; State, M-89 Phone: 616—685 8211.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O, Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St Clair Co.

DUNN PAPER CO 218 Riverview, Port Huron, 48060. (D. C. Huntington, Chairman; H. C. Weeks, Pres.; N. G. McLean, Exec. Vice-Pres. and Gen. Mgr.; Walter E. Woods, Vice-Pres. i/c Mfg.; C. E. Josselyn, Sec.-Treas.; D. J. Haines, Cont. and Asst. Treas.; W. W. Carr, Sales Mgr.; Carl Burdell, Asst. Mill Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R.R. Two 132-inch and one 150-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 125 and 138 inches. Electricity. Papers for Fine Crepe, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, One-Time Carbonizing and Other M G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 105 tons 24 hours. Highway, U. S. I-94, ½ mile. Phone: 313—YUkon 5-5181-2.

PORT HURON PAPER CO, Washington Ave., 48060. (G F. Durand, Pres; F. B. McFarland, Sr., Vice-Pres.; C. R. Roglitz, Vice-Pres; R. S. Smeltzer, Chief Fin. Officer and Treas.; L. M. Sturdevant, Sec.; George Bajis, Pur. Agt.; E. J. Janssens,

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Gen. Sales Mgr.; E. G. Donovan, Sales Mgr.; R G. Payne, Asst. Sales Mgr.; Garth Thompson, Gen. Supt, Paper Div.; Russell Frazier, Asst Paper Mill Supt.; J. R. Arthur, Tech. Dir; Richard W Lambrecht, Jr., Plant Engr.) Two 132-inch Yankee Fourdriniers; widest trimmed sheet, 123 inches, one 143 inch Yankee Fourdrinier; widest trimmed sheet, 127½ inches, one 132 inch Fourdrinier, widest trimmed sheet, 120 inches one 184-inch Fourdrinier; widest trimmed sheet, 160 inches, Steam and Electricity Absorbent, Adding Machine, Anti-Tarnish, Bond, Carbon Coating, Carbon Paper, Carbonized Rolls, Carbonizing, Coil Winding, Creping, Cigarette Tipping, Coating and Glazing Base Stock, Colored Specialties, Crepe Paper, Diaper Linings, Electric Cable Paper, Foil Mounting, Interleaving, Kraft Specialties, Kraft, Laminating Stock, Lens Paper, Offset, Opaque, Tissue Specialties, Wrapping, Wrapping Specialties, Writing, M. G. Wrapping and Specialties, Manifold Register, Salesbook, Sulphite Bond, Sulphite Papers, M. G. and M. F. Lightweight Dense Specialty Papers, Tissue Waxing and Wet Strength Specialties 115 tons 24 hours. Phone 313—982-0191

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel, Bank and Exp. Nearest Air Port at Detroit.

ROCHESTER PAPER CO., P.O. Box 185. Mill St. 48063 (Paul H. Travis, Pres. and Gen Mgr.; M. S. Arnold, Vice-Pres; Gordon Morseth Vice-Pres. and Plant Mgr.; A. H. Giuliani, Vice-Pres, Finance; N. B. Goodnow, Sec.; John R Smith, Treas.; N. A. Wold, Sales Mgr. Automotive Specialties; R. L. Blome, Sales Mgr Paper and Board; R. J. Arsenault, Sales Mgr. New Prods; Philip H. Avery, Tech. Dir.; William M. Kirkland, Pur. Agt) S. P. at mill Railroad Siding. G. T. R. R. One 1000-lb Beater one E. D. Jones Fibremaster, and two Noble & Wood Jordans. One Jones Hi-Low Pulper and one Parker Screen. One 66-inch Fourdrinier; widest trimmed sheet, 62 inches. Purchased Electricity, 60 Cycles, 3 Phase, Oil, 100 p.s i Steam Pressure. Blotting, Coaster, Cover and Cushion Papers; Impregnated, Regular and Wet Strength Filter Papers; Graph and Grinding Wheel Papers; Impregnated Specialty Papers; Laminated and Packaging Specialties; Photo-Mount, Saturating and Speaker Cone Papers and Embossed Specialties. 12½ tons 24 hours. Highways, U. S., 10, 9 miles; State, 150. Phone: 313—Olive 1-8121.

Rockford—Kent Co.

On Penna. R. R. Bank, Tel., Exp. and Nearest Air Port Grand Rapids, Mich North Star Bus Line.

ROCKFORD PAPER MILLS, INC., 49341. (Seymour Rose, Chairman of Board: John Richter, Pres.; A. J. Edahl, Vice-Pres Finance: R. Battinus, Vice-Pres.; Fred Gave Jr, Vice-Pres and Resident Mill Mgr.; Jack Zimler, Vice-Pres and Dir. of Pur.; Robert Rose, Vice-Pres Board Sales; David Fisher, Sec.; Judith Rose, Treas Edward Gave, Mill Supt, Ronald Van Chief Engr.) Private Siding. P R R S P. at Three Hydrapulpers, seven Jordans, three I ers, eight Screens One 76 inch Eight Cyli widest trimmed sheet, 67 inches Eighty-Driers, 36 inches in Diameter, 68 inches one Suction Press Roll, one Curtis Wright A matic Caliper Control. Waldron Micro Jet Co Pattern Smoothing Press, Allied Clay Mi Equipt and Drive, Three Complete Escher W Units including Cleaners, Deflakers and Con ency Controls Purchased Electricity, A. C., Cycles, 3 Phase, 2,100 h p Installed Electric 300 h. p. Installed Water Power. 440 v. Mot Electric Drives. 135 p s i. Steam Pressure, C White Pat. Coated, Clay Coated Boards of Brightnesses, Chip Board, News Board, Lined Chip Board, Suit Board, Combinati Board, Bleached Manila, Lined Chip, Mist Gr Kraft Lined, Solid Kraft, Food Grade, a Colored Specialties. 80 tons 24 hours. Highwa U.S 131, 1¼ miles Phone: 616—866-1523.

Three Rivers—St. Joseph Co.

On M. C.; N. Y. C. R. R. M. O., Tel., Exp and Bank Greyhound and Indiana Moto Bus Nearest Air Port, Kalamazoo

ROCKY RIVER PAPER MILL, INC, Subsidiary of Consolidated Packaging Corp., Bo 404, Broadway Rd. S P at Mill Railroad Sid ing, N. Y C. (M) R R. Two 1000-lb. Beater two Refiners, six Jordans, four Washers, tw Pulpers, six Screens and one Paper Machin Ventilator System One 80-inch Six-Cylinder; wid est trimmed sheet, 72 inches. Seventy-four Driers 48 inches in diam. and 82 inches wide. One 72 inch On-Machine Coater. Purchased Electricity 2000 k.w, 60 cycles, 3 phase, 440 v., 2000 h installed. Turbine Drives Coal, 250 p.s.i. Stean Pressure. Water and Effluent Treatment Plant Machine Clay Coated Board, Tag Boards, Choc olate Layer Board, Folding and Set-Up Bo Board, Paper Plate Board, Colored Kraft Line White Patent and Colored Specialties, Kraf Mounting and Food Packaging Boards 65 to 24 hours. Highways, U. S 131, 1 mile; State 6 1 mile. Phone: 312—263-3473 (Julie)

Vicksburg—Kalamazoo Co.

On G T.; Penn. R. R. M. O., Bank and E Nearest Air Port, Kalamazoo.

SIMPSON LEE PAPER CO, formerly Le Paper Co, Washington St., 49097. For e ecutives see Corporate Offices: 125 Pratt Roa Kalamazoo, Mich 49003 (A A Christian, Vic Pres. Mfg; Robert Millard, Mill Mgr; Charl Gardner, Supt; Gerald Rude, Tech Directo Stanley Pavlick, Engr; John Stroud, Pur. Ag Jerry Yaple, Traffic Mgr; Martin Bare, Perso nel Mgr) S. P. at mill Railroad Siding Pen R R. Two 1500 lb and three 1000 lb Beater four Jordans, six Refiners three Pulpers, s Screens and eight 1000 lb Washers and fo 10,000-lb Rotaries One 121½ inch one 13 inch and one 134 inch Fourdriniers wide trimmed sheets 107 inches, 119 inches and 1

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On Penn-Central R.R. M. O. and Bank. Tel. and Ex., Springfield, 3 miles. Bradley Field, Windsor Locks, Conn., 13 miles.

PREMOID CORP. Main Office, Front St., . Springfield, Mass., 01089. (Joseph H. Torras, hairman and Pres.; Harris O. Ware, Exec. Vice- es.; Franklin B. Comery, Vice-Pres. in Charge les; Joseph A. Cancelliere, Vice-Pres. in harge, Research and Develop.; Raymond E. lark, Treas. and Clerk; Ralph A. Peat, Plant ngr.) S. P., West Springfield. Railroad Siding, nn-Central R.R. One 72-inch Fourdrinier; idest trimmed sheet, 60 inches. Two Coaters imming 60 inches, one 60-inch two-station Roto- avure Press, one 82-inch Impregnating machine. otary Embossing and Sheeting Equipment. Ab- rbent Papers, Latex Treated Board and Papers, atex Saturated Artificial Leather Base, and Vinyl oated Latex Saturated Papers, Box Cover aper, Rotogravure Printed Latex Saturated aper, special Industrial and Technical Papers, lat Back Tape Bases and Gasket Stock. 15 tons 1 hours. Highway, Massachusetts Turnpike, 4 iles; Route 91, 1 mile. Direct Mill Phones: pringfield, 413—736-4554; Boston, 617—523- 50; and New York City, 212—732-2662.

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STRATHMORE PAPER CO., Div. of Hammermill Paper Co., 01089. Mills at Turners Falls. West Springfield and Woronoco, Mass. Finishing Plant and Whse. at Westfield, Mass. Main Office, West Springfield, Mass., 01089. Phone: REpublic 6-8301. New York Office, 200 Park Ave. (P. G. Volanakis, Pres.; B. P. Wood, Vice-Pres.-Mfg.; R. J. Clapp, Vice-Pres.-Marketing; T. Andrews, Cont.; J. G. Gallup, Asst. Div. Mgr.; J. T. Tiffany, Prod. Mgr.; J. J. Tansey, Mgr. Converter Paper Sales; T. R. Friedrich, Tech. Mgr. and Mgr. of Engrg.; W. G. Holmes, Regional Sales Mgr. Metropolitan and Mid Atlantic; G. G. Bullard, Mgr. Sales Services; J. H. McConnell, A. W. Dempsey, B. J. Czanowski, D. W. Bush and C. E. Benoit, Mill Supts.; J. S. Mudgett, Chief Engrg.; W. F. Butler, Traffic Supv.; R. W. Fish, Pur. Mgr.) Railroad Sidings, B. A., B. & M., N. Y., N. H. & H. R.R. Twelve Beaters. Twenty-one Refiners, three Pulpers, sixteen Washers and five Rotaries. Nine Fourdriniers; widest trimmed sheets, 52, 56, 67, 70, 74 75, 79, 89 and 107 inches. Water and Steam. Bonds, Writings, Vellums, Bristols, Wedding Papers, Typewriter, Onion Skin, Air Mail, Manuscript Cover, Book, Text, Cover, Box Cover, Detail Paper, Patent Office Board, Drawing Paper and Illustration Board, Specialties, Jewelers Bristol, Lamp Shade Papers, Papeterie Papers, Steel Plate, Gravure, Tag Parchment, Blue Print, Direct Print and Negative Papers, Special Finishes and Industrial Specialty Paper-like materials. 80 tons 24 hours. Phone: 413—REpublic 6-8301.

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On B. & M. R. R. M. O., Tel., Bank and Exp., Wheelwright, Mass. Nearest Air Port, Bradley Field.

ROMAR TISSUE MILLS, INC., 01094. (Robert Belsky, Pres.; Maurice Belsky, Vice-Pres. and Treas.; Geo. B. Scully, Clerk) S. P. at Mill. Railroad Siding, B. & M. R. R. Four Emerson Jordans, two Hydrapulpers, and one Ross Paper Machine Ventilator System. One 86-inch, two 102-inch, and one 114-inch Fourdriniers; widest trimmed sheets, 82, 96 and 105 inches. Four Driers, 8 ft in Diameter and 90 100 106 and 112 inches wide. Electricity. Oil 160-lb. Steam Pressure. Facial and Toilet Tissue, Cellulose Wadding, Interleaving Tissue, Specialty Wadding and Tissue Products. 50 tons 24 hours. Highway, State 32. Phone: Wheelwright, 413—477-8811, 8812; New York, 212—424-4034.

Woronoco—Hampden Co.

On B. & A. R. R. M. O. and Tel.; nearest Bank Westfield. 6 miles.

STRATHMORE PAPER CO., Div. of Hammermill Paper Co., 01097. See West Springfield for Officers. Grades and Equipment. Highway, Phone: Springfield, 413—Republic

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ABITIBI CORP., 49707. Subsidiary of Abitibi Paper Co., Ltd. Main Office, 408 University Ave., Toronto 2, Ont. General Office: 1400 N. Woodward, Birmingham, Mich. 48011. Sales Offices: 1400 N. Woodward Ave., Birmingham, Mich. 48011; 8201 So. Wallace St., Chicago, Ill. 60620; 11355 Arrow Route, Dayton, O. 45405. 91730; 505 Riverside Drive, Cucamonga, Cal. (C. F. Buckland, Vice-Pres. and Gen. Mgr.; O. B. Eustis, Vice-Pres. Development and Planning; F. R. Boynton, Vice-Pres. and Sec.-Treas.; B. W. Evans, Vice-Pres.-Mktg.; W. C. Hiertzler, Vice-Pres.-Prod.; F. Moeller, Jr., Dir. of Pur.; R. M. Granum, Tech. Development Mgr.; N. E. Allard, Asst. Treas.; R. R. Ticknor, Asst. Treas.; L. M. Koch, Asst. Sec.; W. E. Kidd, Gen. Traffic Mgr.; R. B. Beemer, Mgr. Cost Control; H. M. Lineweaver, Mgr. Market Development; R. F. Wisniewski, Mgr. Market Control; A. N. Hurd, Mgr. Sales and Whse. Admin.; H. A. Kennedy, Mgr. Advertising; E. F. Werny, Mgr. Price Admin.; J. J. Gibson, Indl. Sales Mgr.; R. S. Jacobs, Dealer Sales Mgr. At Alpena: H. W. Evans, Plant Mgr.; L. G. Keller, Plant Supt.; F. E. Eland, Mgr. Engrg.; J. R. Langevin, Gen. Mfg. Supt.; G. E. Aasland, Mfg. Supt.; M. E. Burkenbine, Fabricating Supt.; C. W. Baldwin, Gen. Maint. Supt.; A. R. Schultz, Power Plant Supt.; G. D. Thompson, Quality Supt.; W. C. Lake, Mill Pur. Agt.; J. L. Schrader, Personnel Mgr.; R. C. Keith, Office Mgr.; J. C. Lamy, Woods Mgr.; C. O. E. Basel, Chief Forester.) One 13-ft. and one 4-ft. nominal width Fourdriniers. Separate power plant (900 p.s.i. steam); two-thirds generated and one-third purchased electric power. Oil. S1S Hardboard (20 deck press), S2S Hardboard (20 deck press). Hardboard Specialties and Rigid Insulation Products. 275,000,000 sq. ft. annually. PULP MILL. Special Process Woodpulp. Average Daily Consumption of Pulp Wood 275 Cords. Highways: U.S. 23 and State 32, ½ mile. Phone: Alpena, 517—354-2121.

FLETCHER PAPER CO. Main Office, 318 W. Fletcher St., Alpena, Mich., 49707. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; R. Werner, Sec. and Pur. Agt.; A. M. Fletcher, Treas.; Chas. S. White, Gen. Mgr.; Wm. S. Grimes, Tech. Paper Div. Mgr.; A. J. Steber, Gen. Supt.; D. Gouine, Paper Mill Supt.; R. J. Bowes, Chief Engr.; H. S. Granstrom, 20 N. Wacker Dr., Chicago, Ill. 60606, Sales Mgr.; Orville Fleming, Finishing Supt.; John Stretchko, Traffic Mgr.) S. P. at Mill. Railroad Siding, Detroit & Mackinac Ry., Mulevana Truck Lines. Four Refiners, three Jordans, and two Pulpers. Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches. One 60-inch Blade, one 60-inch Gravure and one 60-inch roll Off-Machine Coaters Coating 10 tons 24 hours. Purchase and Generated Electricity, 60 cycles, 3 phase; Gas. 100,000 lbs. Steam Pressure per hr. at 450 p.s.i. Register Bond, Printing, Electrophotographic, Filter, Carbonizing Bond, Electrofax Base, Wet Strength, Coated Box Cover, Release, Chart, Coated Specialty, Bible, Lightweight Opaque Print Papers, Manifold Papers and Converting Base Stock. 65 tons 24 hours. Highways, U S. 23; State 32. Phone: 517—354-2131.

Battle Creek—Calhoun Co.

On G. T.; M.; & M. C. R. R. Tel., M. O., Bank, Exp. and Air Port.

MICHIGAN CARTON CO., 79 E. Fountain, 49016. (L. G. Fell, Chairman; Dan Int-Hout, Jr. Pres.; James T. Kirkpatrick, Senior Vice-Pres. Marketing; Robert G. Pender, Vice-Pres. Paperboard Marketing; C. H. Cameron, Sr. Vice-Pres. Mfg.; L. J. Philipps, Vice-Pres. Engrg.; R. A. Armstrong, Vice-Pres. Paper Board Mfg.; H. L. Chorpening, Vice-Pres. Carton Sales; J. L. Barclay, Vice-Pres. Purchasing; N. W. Schmitzer, Vice-Pres. and Treas.; J. G. McCarthy, Sec. and Cont.; Verne K. Livingston, Asst. Treas.; H. G. Hanselman, Mgr. Egg Carton Div.; N. A. Pennetti, Supt. Fountain St. Mill; L. A. Carlson, Supt. Angell St. Mill; Robert S. Taylor, Carton Div. Supt.; Edwin H. Cole, Research Mgr.; Clyde G. Eckhart, Tech. Dir.; Marvin Moldenhauer, Mgr. Industrial Relations; D. P. Van Dyk, Dir. of Pur.; J. R. Vosburgh, Traffic Mgr.) S. P. at Mill. Railroad Siding, Michigan Cent. and Grand Trunk R. R. ~~ANGELL ST. MILL~~: One 2000-lb. Broke Beater, six Jordans; four Hydrafiners, one 4000-lb. Morden Slushmaker; one 14 ft., one 16-ft. and one 20-ft. Hydrapulpers; eighty-one 60-inch Dryers. One Beloit Eight-Cylinder Machine; widest trimmed sheet, 130 inches. One 130-inch Air Knife and one 130-inch Blade Coaters and two 130-inch Rod Coaters. Electric Power, 50% Purchased and 50% Generated. ~~FOUNTAIN STREET MILL~~: One Jones Double "D" Refiner, three Disco Refiners and two Bauer Refiners, nine Jordans, two 4000 lb. and two 3000-lb. Morden Slushmakers, one 3000-lb. Pulper, two 16-ft. Hydrapulpers. One Black-Clawson Seven-Cylinder Machine, widest trimmed sheet, 96 inches and one Stevens Seven Cylinder Former Machine; widest trimmed sheet 120 inches. One 98-inch Ultra Former. One 98-inch, one 130-inch and one 122-inch Air Knife Coaters, one 98-inch, one 130-inch and one 122-inch Trailing Blade Coaters. 100 Generated Electric Power. White C Coated and White Lined News (also with Wh Back, White Vat Lined News, Solid Kr Kraft Lined Chip, Bending Chip and P Chip. 450 tons 24 hours. Highways, U S. 1 State, 66. Phone: 616—963-5511.

Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes T portation. M. O., Tel., Bank and Exp. est Air Port, Pellston, Mich.

CHARMIN PAPER PRODUCTS CO., See Main Office, Green Bay, Wis., for and grades. (Jim J. Brown, Plant Mgr.) Mill. Railroad Siding, D & M. Two Yankee Fourdriniers; widest trimmed sh

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On Penn-Central R.R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

CONSTANTINE PAPERBOARD DIV. of the Davey Co., 49042. Main Office, 164 Laidlaw Ave., Jersey City, N. J. (For Executives, see Main Office) S.P. at Mill. Railroad Siding, Penn-Central R. R. Two 1000-lb. Beaters, two Pulpers and three Jordans, six Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 96 inches. Purchased Electricity. 440 v., 60 Cycles, 3 Phase. 125 h.p. Installed Water Power. 440 and 110 v. Motors. Electric and Turbine Drives. Coal. 150-lb. Steam Pressure. Water Treatment Plant. Chip and News Board, Vat Lined News, Tube, Can and Cap Stock, Folding and Set-Up Box Board, Manila Lined Board and Light Weight Specialties. 50 tons 24 hours. Highway, U. S., 131, 1 mile: Indiana Toll Road, 8 miles. Phone: GEneva 5-4285. (Idle.)

Detroit—Wayne Co.

On M. C.; D. & T. Sh. Line: Det. Ter.; G. T.; Penn-Central; Wabash; D. T. & I.; P. M.; C. P. R. R. M. O., Bank, Exp., Tel. and Air Port.

SCOTT PAPER CO., formerly Detroit Sulphite Pulp and Paper Co., 9125 W. Jefferson Ave., 48217. For executives, see Scott Paper Co., Philadelphia, Pa. 19113. (Operating Personnel: M. F. Schnaufer, Gen. Mgr.; J. S. Brown, Production Mgr.; K. G. Sell, Sales Mgr.; T. P. Czepiel, Tech. Dir.; F. M. Foster, Plant Engr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, Plant Traffic Mgr.; R. G. Miller, Personnel Mgr.; C. G. Allen, Pulpwood Buyer; T. J. Krause, Plant Accountant; K. C. Waltman, Paper Mill Supt.; R. S. Murray, Finishing Supt.; W. E. Pasha, Pulp Mill Supt.; E. S. Reese, Chief Consumer Rep.; R. G. Lake, Power Supt.) Railroad Siding, Mich. Cent. R.R. DELRAY MILL. S. P. at Mill. Ten Jordans, four Mordens. One 80-inch Fourdrinier and three 132-inch Yankee M. G. Machines; two 136-inch and one 142-inch Yankees. Generated Electricity. Coal. Water Treatment Plant. Toilet Tissue in Rolls, Napkins, Wiper Tissues, Waxing Base Stock, Mitscherlich Fiber, M. G. Tissue, Bleached and Colored, Coating Papers, Waxing, Fourdrinier and Machine Carbonizing and Glazed Specialties. 270 tons 24 hours. SULPHITE PULP MILL. One wet Machine and eight Digesters. Steam. Mitscherlich Sulphite Pulp (Dry) 168 tons 24 hours. Phone: 313—VI 2-0042.

Escanaba—Delta Co.

On Lake Michigan and E. & L. S., C. N. W., and Soo R.R. Exp., Tel., Bank and Air Port at Escanaba, 6 miles.

ESCANABA PAPER CO., a Subsidiary of The Mead Corp., Dayton, Ohio. P.O. Address, Escanaba, 49829. (Dr. G. H. Sheets, Pres.; J. S. Evans, Vice-Pres.; A. H. Sealy, Sec.; T. A. Hammer, Treas. Mill Personnel: G. S. Douglas, Div. Mgr.; G. C. Eastin, Prod. Mgr. and Tech. Dir.; R. H. Sogard, Plant Engr.; H. J. Vanlerberghe, Traffic Mgr.; R. E. Nelson, Purchasing Agent; R. R. McDonough, Office Manager.) S. P. at Mill. Railroad Siding, Escanaba & Lake Superior R.R. Two Hydrapulpers and two Dynapulpers. Four Jordans, seven Refiners and six Screens. Two 166-inch Fourdriniers; widest trimmed sheet, 155 inches. One Roll and one Flooded Nip On-Machine Coaters producing 150 tons daily and two 152-inch Off-Machine Blade Coaters producing 130 tons daily. Steam, Electricity and Water. Coated Printing and Converting, Uncoated Groundwood; 280 tons 24 hours. GROUND WOOD MILL. Fourteen Grinders and two Refiners. Hydro-Electric Power, 4 million k.w.h./yr. purchased and 110 million k.w.h./yr. generated, 18,000 h.p. Installed Electric Power and 12,500 h.p. Installed Water Power; Coal and Oil; 400 and 175 p.s.i. Steam Pressure. Groundwood, 100 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 60 (128 cu. ft.) Cords. Highways, U.S. 2 and 41; State 35, 1 mile. Phone: Escanaba, 906—786-1660.

Filer City—Manistee Co.

On C & O. R.R. M. O.; nearest Bank and Tel., Manistee, 2½ miles. Nearest Air Port, Manistee-Blacker.

PACKAGING CORP. OF AMERICA. 49634 General Offices, 1632 Chicago Ave., Evanston, Ill. For Executives see General Offices. (Richard Knechtges, Resident Mgr.) S. P. Manistee. Railroad Siding, C. & O. R.R. Six Pressure and Non-Pressure Disc. Refiners, ten Jordans, five Bleachers, nine Filters and three Pulpers and three Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148, 158 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches. On-machine size press, air knife and trailing blade Coaters and off machine air knife Coaters. Electricity, 19,000 k.w., 60 cycles, 3 phase; 1,500 k.w. Purchased and 17,500 k.w. Generated. Coal, Oil and Gas, 600,000 lbs. per hr. Steam generated at 610 p.s.i. Water Treatment plant. .009 Corrugating Medium, 400 tons; Bleached Kraft Paper and Board, 200 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Three 3,000 cu. ft. Batch, two Pandia and one Esco Continuous Digesters, six Impco Barkers, one 15-Knife 96-inch and one 10-Knife 90-inch Chippers, five Sprout Waldron Grinders. CEHED Bleach Plant. Semi-Chemical Pulp, 400 tons; Unbleached Kraft Pulp, 220 tons and Bleached Kraft Pulp, 202 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 1 mile. Phone: PArkview 3-9951.

Grand Rapids—Kent Co.

On G. T.; M. C.; Penn-Central; P. M. R.R.

PACKAGING CORP. OF AMERICA, 415 Fulton St., E., Grand Rapids, Mich., 49502. Gen-

40#—Finch Textbook EF manufactured by Finch, Pruyn & Company, Inc.

al Offices, 1632 Chicago Ave., Evanston, Ill. r Executives see General Office. (Robert M. spaugh, Mgr.) S. P. at mill. Four Pulpers, Jordans, one Refiner. One 122-inch Seven linder; widest trimmed sheet, 112 inches. e On-Machine Air Knife Coater. Generate own wer, 3 Phase, 60 Cycle, 440 v.; Coal. High ade Box Boards and Test Liners and Clay ated Grades. 135 tons 24 hours. Highways, S. 131, 1 mile; State, 50 and 21, 1 mile. Phone: 6—GL 9-4581.

lamazoo—Kalamazoo Co.

On M. C., Penn-Central, C. K. & S. and G. T. R.R. Greyhound Bus, Air Port, Exp. Tel. and Bank.

LLIED PAPER INC., Subsidiary of SCM rp., Executive and General Sales Office, 1608 e St., 49003. Also operate Bleached Sulite Pulp Mill at Jackson, Ala., Midwestern s Office, 1 E. Wacker Dr., Chicago, Ill., ton L. Russell, Sales Mgr. Eastern Sales ce: 60 E. 42nd St., New York, N. Y. 10017, n L'Estrange, Sales Mgr. (W. D. Harrison, ef Exec. Officer and Vice-Pres. SCM Corp.; J. Klimczak, Pres.; H. C. Bernick, Sr. Vice-; J. P. Feeley, Sec.-Treas.; E. J. Gilman, -Pres. Mfg.; R. Levy, Vice-Pres. Research Dev.; J. D. Nisbet, Vice-Pres. and Gen. s Manager; G. C. Freas, Asst. to Pres.; Fragomeli, Prod. Mgr.; Wm. J. Haselow, of Quality Control; P. Kraushaar, Dir. strial Rel.; H. Peeters, Dir. Prod. Schedul- L. Stoeffler, Process Dev. Mgr.; A. Vickery, g. Mgr.; K. Sweet, Gen. Supt. Bryant Div.; Horrocks, Gen. Supt. King Div.; M. Carl Supt. Monarch Div.; C. J. Bos, Mgr. ing Div.; L. R. Scott, Dir. of Pur.; J. R. en, Traffic Mgr.) KING MILL. S. P., Kalao, Mich. R.R. Sidings: Penn-Cent. and G. T. R.R. Three Rewinders, four Cutters and Trimmers. Four Fourdriniers; widest trimsheets, 107, 111, 117 and 130 inches. REX L. Sold to Eaton-Dikeman Co. MONARCH L. S. P., Kalamazoo, Mich. Four Carbon ers. Two Fourdriniers; widest trimmed s, 111 and 120 inches. BRYANT MILL. Cutters, nine Trimmers, three Single, Double and one Trailing Blade Coaters, Supercalenders and three Rewinders. Five driniers; wi[illegible] trimmed sheets, two 126 142 and [illegible]ches. DEINKED PULP Two [illegible]each System. Deinked 150 [illegible]. GRADES MADE: ed C[illegible]ted Machine Finish, h [illegible]tique and Wove [illegible] Map, Writing [illegible]elope, Index, [illegible]zing Tissue, [illegible]nary and [illegible]4 hours. [illegible]r Pa- [illegible] DE [illegible]g

MHI-00132

BROWN CO., formerly KVP Sutherland Paper Co., 49007. For Officers see Main Office 277 Park Ave., New York, N. Y. 10017. (Charles Sweitzer, Resident Mgr. Pulp, Paper and Board Mfg. Div.) PULP PAPER AND BOARD DIVISION: Railroad Siding. N. Y. C. and C. K. & S. R.R. MILL NO. 1. Four Fibremasters, four 2000-lb., two 2500-lb. and two 4000-lb. Beaters, one 400 h.p. Jones Disc Refiner, and four Majestic Jordans. One 117-inch Horne Harper and one 163-inch Pusey & Jones Fourdriniers; widest trimmed sheets 104 and 148 inches. Five Parchment Machines; widest trimmed sheets, 80 and 100 inches. One Air Knife, one Roll and one Solvent Off-Machine Coaters. MILL NO. 2. Two 6000-lb. and one 1000-lb. Hydrapulpers, three 2500-lb. Horne Beaters, two 2000-lb. Bertram Beaters, four 2000-lb. and one 2500-lb. Jones Beaters, three 2500-lb. Vortex Beaters, ten Majestic Jordans, eight Fibre-masters, one 2500-lb. Pulpmaster and one 2000-lb. Slushmaker. One 165-inch Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches; one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139-inch Yankee Fourdriniers; widest trimmed sheet, 126 inches. Two Trailing Blade Off-Machine Coaters. Steam and Electricity. Waterleaf, Waxing, Waxed, Vegetable Parchment, Bond, Manifold, Offset, Wrappings and Paper Specialties. MILL NO. 1, 95 tons; MILL NO. 2, 245 tons 24 hours. For Converting Eqpt., See Converters' Section. EAST SIDE MILL. Four Beaters, one Hydrapulper, three Hydrafiners, four Jordans. One Seven-Cylinder, widest trimmed sheet 93 inches. NORTH SIDE BOARD MILL. Nine Hydrapulpers, six Beaters, one Shartle Breaker Beater, two Continuous Broke Beaters, eight Hydrafiners, one Morden Slushmaker, two Morden Stock Makers, one Sprout Waldron Disc. Refiner, eighteen Jordans. One 100-inch Seven Cylinder, one 116-inch Seven-Cylinder, one 132-inch Seven-Cylinder, one 154-inch Eight-Cylinder; widest trimmed sheets 90 inches, 102 inches, 120, inches and 138 inches. One 76-inch Beloit and one 55-inch Egan Polyethylene Extrusion Coaters. Generated Electricity, Coal. Folding Box Boards, Machine Clay Coated, White Patent Coated News, Bleached and Single Manila Lined Chip, White and News Vat Lined Chip, Solid News and News Lined Chip, Plain and Bending Chip, Sulphite Line Manilas, Foil Laminating Grades, Specialty Grades, Foil Lamination, Grease and Moisture Resistance Laminations, Polyethylene Coated Boards, Hot Waxed and Cold Water Waxed Grades. East Side Plant, 100 tons 24 hours; North Side Plant, 550 tons 24 hours. For Converting Equipt., See Converters' Section. Highways, U. S. 12 and 131, State, 43; I-94. Phone: 616—383-5000.

EATON-DIKEMAN Co., Kalamazoo Mill., P.O. Box 2551, 49003. For Executives see Mt. Holly Springs, Pa., 17065. (Richard Mendham, Supt.) S. P. at Mill. R.R. Siding on Penn-Central R.R. Two Pulpers, two Refiners, two Jordans. One Fourdrinier; widest trimmed sheet 103 inches. Purchased Electricity, 440 v., 60 cycles, 3 phase. Coal. 200 p.s.i. Steam Pressure

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TWX: (710) 581-5392
BLEACHED FLUFF DRIED KRAFT PULP

Laboratory and Industrial Filter Papers, Saturating and Absorbent Papers, 18 tons 24 hours. Highway, State 96.

GEORGIA-PACIFIC CORP., KALAMAZOO PAPER DIV., formerly Kalamazoo Paper Co., Box 2738, 2425 King Highway, 49003. For Executives, see Main Office, Commonwealth Bldg., P.O. Box 311, Portland, Ore. (A. C. Dennard, Res. Mgr.; W. R. Noel, Mgr. Prod.; N. P. Hahn, Vice-Pres.; Charles O. Beck, Div. Cont.; L. A. Stech, Sales Mgr.; R. W. Woodruff, Pur. Mgr. North Central; L. Sparks, Mgr.-Cust. Serv.; Vincent D. Redmond, Gen. Supt.-Paper Mills; L. H. Mimms, Gen. Supt.-Coating; Robert W. Polderman, Chief Engr.; M. R. Wilkins, Tech. Dir.; Rex Treece, Chief Chem.; John R. Kennedy, Mgr. Ind'l. Relations; John Gideon, Pur. Agt.; Harley Bowhuis, Traffic Mgr.) Railroad Siding. Penn-Central & G. T. W. MILL NO. 1. Four 2500-lb. Beaters, two Pulpers, four Jordans. One 133-inch and one 142-inch Fourdriniers; widest trimmed sheets, 120 inches and 130 inches. Tub Sizing on Both Machines. 94 tons 24 hours. MILL NO. 2. Two Pulpers, four 2500-lb. Beaters, four Jordans. One 100-inch and one 116-inch Fourdriniers; widest trimmed sheets, 90 inches and 105 inches. Tub Sizing on both Machines. 56 tons 24 hours. MILL NO. 3. Two 2500-lb. and two 3000-lb. Beaters, two Pulpers, six Jordans. One 167-inch and one 180-inch Fourdriniers; widest trimmed sheets, 156 inches and 167 inches. Super Calenders up to 80 inches wide. Tub sizing on both machines; 141 tons 24 hours. COATING MILL. Two Air Knife Coaters, widest trimmed sheet 80 inches, and one Fountain Coater, widest trimmed sheet 90 inches; 114 tons 24 hours. Electricity: 440 v., 60 cycles, 3 phase. 12,000 KW Generated. Coal. 850 p.s.i. Steam Pressure. M.F., English Finish, Super Offset, Mimeograph, Writing, Register Bond. Label, Music, Drawing, Linings, Coated Papers and Hangings. DE-INKED PULP MILL. 80 tons 25 hours. Highway, Interstate 94; 2 miles East; Interstate 94 continues from junction as State 96. Phone: 616—382-2890.

HAWTHORNE PAPER CO., P.O. Box 2858, King Highway, 49003. (William Slavin, Chairman of Board; Louis J. Slavin, Pres.; S. R. Zatz, Sec.; C. Frederick Young, Tech. Dir.; E. M. Betz, Traffic Mgr.) Railroad Siding, Penn-Central R.R., ¼ mile east of city limits. Ten Beaters, two Jordans, four Refiners and four Pulpers. Ross Paper Machine Ventilator System. One 92-inch and one 105-inch Fourdriniers; widest trimmed sheets, 82 and 92 inches. Fifty-eight Driers, 42 inches in Diameter, 92 and 105 inches wide. Purchased and Generated Electricity. Coal. 275-lb. Steam Pressure. Water Treatment Plant. Turbine and Other Drives. Rag and Sulphite Bond, Ledger, Index, Offset, Onion Skin and Manifold, Embossed, Translucent Master, Mimeograph, Duplicator, Vellum, Sulphite Text and Cover, Technical Papers, Wet Strength Map and Chart, Blue Print, Direct Process, Specialty Papers, Rag Book, Weddings, Papeteries, Photogelatin Paper. 70 tons 24 hours. Highway, State 96. Phone: 616—Fireside 5-1163.

NATIONAL GYPSUM CO., 49099. Main Office, 325 Delaware Ave., Buffalo, N. Y., 14202. For Executives, see Main Office. (J. B. Proctor, Dir. Mfg. Gypsum and Paper, W. J. Sprau, Prod. Mgr.-Paper; E. M. Baker, Plant Mgr.) Railroad Siding, Mich. Cent. Two Hydrapulpers, two Jordans and three Refiners. One 108-inch Eight Cylinder, widest trimmed sheet, 100 inches. Electricity. Gypsum Liner Board Paper, 135 tons 24 hours. Highway, U.S. 12. Phone: 616—Fireside 3-1579.

SIMPSON LEE PAPER CO. Corporate Office, 125 Pratt Rd., P. O. Box 2168, 49003. Incorporated in State of Washington, July 28, 1959. (Malcolm McVickar, Pres. and Gen. Mgr.; James W. Winn, Vice-Pres. and Tech. Dir.; Albert A. Christian, Vice-Pres.; William G. Reed, Jr., Sec.; Kenneth A. Warren, Treas. and Asst. Sec.; L. R. Klenow, Asst. Treas.; Ralph F. Eichhorn, Sales Mgr.) Mills at Ripon, Calif., Vicksburg, Mich.; Everett, Wash. Owns 50% Lee Schoeller Paper Co., Pulaski, N. Y. Phone: 616—345-8681.

WESTERN MICHIGAN UNIVERSITY, Department of Paper Technology. (Raymond L. Janes, Head of Department; George E. Kohrman, Dean; James W. Miller, Pres.; Russell H. Seibert, Vice-Pres.; Hugh Warren, Plant Dir.) Pilot Stock Preparation System: One Jones 250-lb. Beater, one Jones Midget Jordan and one Ol-Claflin. One 24-inch trim Pilot Fourdrinier with Size Press, Creping Doctor and Machine Calender. One Pilot Coater, universal type, 26-inch max. trim, one 30-inch ten-roll double-facer Supercalender for roll stock; Laboratory sheet processing equipment. Experimental Stainless Steel Digester. Variety of pulp and paper testing instruments and equipment for educational and research purposes. Purchased Electricity, 60 cycles, 3 phase. Wide variety of developmental grades of paper and paperboard from 10 to 150 lbs. (25 x 38-500). 4 tons 24 hours. Highways, U.S. 131; State I-94. Phone: 616—383-1804.

L'Anse—Baraga Co.

On D.S.S. and A. R.R.

CELOTEX CORP., 49946. For Executives See Main Office, 1500 No. Dale Mabry Hwy., Tampa, Fla. 33607. (A. H. Philipp, Plant Mgr.; J. L. Dickson, Prod. Mgr.; A. O. Wirtanen, Board Mill Supt.; R. J. Slattery, Fabr. Supt.; L. W. Swanson, Plant Engr.; R. J. Thorne, Quality Control Supv.) Building Board, Perforated and Unperforated Tile, Other Interior Finish Products, Sheathing and Other Exterior Insulation Board Products, Mineral Board Products, 270 tons 24 hours. Phone 906—524-6101.

Manistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie R.R. Tel.,

Bank and Exp Greyhound Bus Nearest Air Port at Escanaba

MANISTIQUE PULP & PAPER CO Main Of- ice, Box 111, Manistique, Mich. 49854 Owned by ield Enterprises Inc., Chicago, Ill (F S Hoholik, Pres and Gen Mgr, John F Cross, Jr, Sec - Treas) Railroad Sidings, Soo R R Two Beaters, wo Screens, one Jordan, one Refiner and two Pulpers One 166-inch Fourdrinier; widest trimmed heet, 154 inches. Water and Purchased Elec- ricity. 5800 h p. Installed Electric Power and 000 h p. Installed Water Power Coal, 250 p s i Steam Pressure Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 150 ons 24 hours. GROUND WOOD PULP MILL. ix Magazine Grinders and one Refiner Water ind Electricity. Ground Wood. 90 tons 24 hours. DE-INKED PULP MILL. De inked pulp, 75 ons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 90 Cords Highway, U S 2 Phone: Manistique 906—341-2175

Menominee—Menominee Co

On C & N W.; C, M, St P & P R R Green Bay and Lake Michigan Steamers and Air Port

AMERICAN CAN CO, Marathon Prod cts, 49858 For Officials see New York City John Fulkerson, Mill Mgr; A S. Suminski, Pa- r Mill Supt; John A Gasperi, Converting Supt, ichard G Hansen, Mill Engr) Two Claflin eliners five Jordans and four Hydrapulpers One 4-inch Black-Clawson Fourdrinier, widest immed sheet, 154 inches. One Yankee Four inier; widest trimmed sheet, 128 inches Gen ated Electricity. Coal. Water Treatment Plant eached Board Specialties. Waxing Tissue 292 ns 24 hours Highways, U S 41; State, 173 one Menominee, 906—UN 3-5595

SCOTT PAPER CO., formerly Marinette Paper For Executives see Scott Paper Co, Phila lphia, Pa. 19113. (Operating Personnel: S. J ng, Supt) S. P., Menominee, Mich. GROUND OOD MILL. Four Grinders, four Wet achines Ground Wood 22 tons 24 hours erage Daily Consumption of Peeled Pulp ood, 24 Cords Highway, U S. 41, ½ mile one 715—735 6644.

nroe—M roe Co.

On Pe al; P M; D. & T and C & O R R nk. Nearest Air Port, Detroit Me

PACKAGING CORP, Ave, 48161 For Ex V. Adams, Chicago Pres and Chair e-Pres. Mktg; arton Div.; ; Robert Div.; rles ;

Mills; William Lunsford, Mgr South Side Mills, J T. Gleason, Pur Agt) S P, Railroad Sidings at Mills TEST LINER MILL Two 200-ton per day Asphalt Dispersion Systems, two Dilts Beaters, three 20-foot Hydrapulpers, one 16 foot Hydrapulper, four Refiners and eight Jordans One 8-cylinder and one 7-cylinder machine. Widest trimmed sheets 102 and 118 inches 300 tons 24 hours. CORRUGATING MEDIUM MILL. Two refiners and four Jordans Two Fourdriniers. Widest trimmed sheets 115 and 85 inches 200 tons 24 hours. BOXBOARD MILL Three 20 foot, three 14-foot and one 12-foot Hydrapulpers. Four Dilts Breakers, eight Dynapulpers, twenty Jordans, four Refiners, one 8-Cylinder, two 7-Cylinder Machines; widest trimmed sheets 102 and 112 inches. One 72-inch Air Knife, Off-Machine Coater. Boxboard 425 tons 24 hours. Electricity, 220/440 v, 60 cycles, 3-phase, 200 MKW purchased, 100 MKW generated Coal 250 p s i. Steam Pressure. PRODUCTS Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons Highways, I 75, ½ mile West State 56, ½ mile West 24A Phone 313—241-9000

MONROE DIV TIME CONTAINER CORP 1151 W Elm Ave, 48161 Main Office, 5303 W 74th Pl, Chicago, Ill, 60638. (Don J Hindman, Pres and Treas.; Norman F. Krueger, Vice Pres and Gen Mgr; Howard R Jones, Sec, Robert Bert, Mill Supt; Edward O'Brien, Tech Dir., James V. Lamarre, Chief Chem; Robert Richey, Corrugated Prod. Mgr; Rexford D Purkey, Sales Mgr; Robert Bedell, Chief Engr; Wm A Linn, Pur Agt) Railroad Siding, C. & O R.R. Two Hydrapulpers, and ten Jordans. One 124-inch Seven Cylinder; widest trimmed sheet, 110 inches Generated Electricity; Coal. Test Liners, Plain Chip, Set-Up Box Board, Automotive Panel and Pasted Board, Shipping Containers and Specialties. 135 tons 24 hours. Highway, U.S. 24. Phone 313—241-3220

UNION CAMP CORP, 1109 E Elm Ave. 48161. (For Executives see Main Office, 233 Broadway, New York, N Y. 10007.) (J. Fuko, Mill Mgr.; A. D. Haarmeyer, Sales Mgr; J. R Van-Slambrouck, Gen. Supt; E. J. McCue, Tech. Supt; A L. Gordon, Mill Engr; E H Davis, Pur. Agent) S P at all Mills MILL No 2 Two Jordans, two Refiners, seven Selectifier Screens, one 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches MILL NO. 3. Three Jordans, two Refiners, seven Selectifier Screens, one 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. Three Jordans, two Refiners, seven Selectifier Screens, one 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed

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sheet, 112 inches POWER PLANT. Electricity 4800/480 v., 60 cycles, 3-phase, 1000 KW Purchased, 7500 KW generated. 600 p.s.i. Steam Pressure Chip and WP Filler Boards, Roc Cor Tube and Core Stocks, Bogus Medium, Container Boards, Solid Fibre and Corrugated Shipping Cases, and Corrugated Packaging Materials 300 tons 24 hours. Highways, U S. 24, 2 miles, and 25, 1 mile; State 56. Phone: Monroe 313—241-7700

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W and D. S. S. & A. M. O., Tel. and Ex.

KIMBERLY-CLARK CORP., Munising Mill, 49862. Main Office, Neenah, Wis. (For Executives, see Main Office; R. H. Boehm, Mill Mgr) S. P. at mill. NO. 1 MILL. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. Steam and Electricity. Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties 85 tons 24 hours. SULPHITE PULP MILL. (Sulphite Pulp Mill Dismantled). Highways, U S. 41, 30 miles; State, 94 and 28 Phone 906—387 2700

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O and G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp

BEMIS CO, INC. 2850 Lincoln Ave., Muskegon, Mich 49441. Main Office, 800 Northstar Center, Minneapolis, Minn, 55432. (Judson Bemis, Pres.; C. W. Akin, Exec. Vice-Pres; F. G Bemis, Jr., Vice-Pres; C. C. Hammer, Treas; J. E Zeller, Gen. Mgr.; P. Vanderwerf, Sales Mgr.; R. Berry, Prod. Mgr) S. P. at Mill. Railroad Siding, Grand Trunk Western. Six Pulpers Electricity Gas. Moulded Pulp and Polystyrene Protective Interior Packaging. 10 tons 24 hours Highways, Interstate 196, 2 miles from Sherman Blvd; State 16 and 31, 2 miles from Sherman Blvd. Phone: 616—PLaza 5-1662.

WARREN, S D., CO., Div. of Scott Paper Co., Central Mill. Office, 2400 Lakeshore Dr., 49443. Main Office, 225 Franklin St, Boston, Mass. 02101. For Executives, see Main Office. (Operations Officials: F. W. Roberts, Vice-President and Mill Mgr.; C. S. Russell, Prod Mgr; W. H Marra, Prod. Mgr.; John Moran, Tech. Dir.; W. A. Wrase, Ch. Engr; Gordon Sando, Pur. Agt.; D. DeGlopper, Traffic Mgr; J. N. Fields, Woodlands Mgr.) S. P. at mill Railroad Siding. C. & O. R.R. Two 115-inch, one 121-inch and one 165-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, and one 144 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p. Installed, Coal, 475 p.s.i. Steam Pressure Book, Machine Coated Book, English Finish, Lithographic Papers, Eggshell, Offset and Specialties. 175 tons 24 hours. SULPHATE PULP MILL. One Continuous Digester and one Wet Machine. Bleached Sulphate Pulp, 225 tons 24 hours. Average daily consumption of peeled pulp wood, 430 cords. Highways, U S. 16 and 31, 5 miles; State 46. Phone: 616—PLaza—5-3761.

Niles—Berrien Co.

On Penn-Central R R M O, Tel and Bank Greyhound Bus Lines Nearest Air Port, South Bend, Ind

FRENCH PAPER CO, 100 French St, P O Box 214, 49120 (J E French, Pres and Gen. Mgr, Bruce Bigford, Vice-Pres and Sales Mgr; R. D Clark, Sec.-Treas; Charles Leonard, Cont; James L Good, Supt.; E. T. Lingnowski, Chief Chem; R. W. Meyers, Traffic Mgr.; R Engberg, Chief Engr.; R. Etzcorn, Pur. Agt) S P. at Mill Railroad Siding, Penn Central R R Four Dynapulpers, four Jordans and two Refiners. One 96-inch and one 118-inch Fourdriniers; widest trimmed sheets, 84 and 105 inches. Generated Electricity, 440 v., 60 Cycles, 3 Phase, 1600 h p Installed Electricity; 1600 h p Installed Water Power; Coal; 150 p s i Steam Pressure. Offset, Colored Offset, Opaque, Cover, Embossed, Greeting Text and Specialties 60 tons 24 hours Highways, U S. 31 and 12, State 60 and 40 Phone 616—MUtual 3-1100

SIMPLICITY PATTERN CO, INC, 49120 Main Office, 200 Madison Ave, New York, N. Y, 10016. (J J Shapiro, Chairman of Board and Pres; Robert J Shapiro, Vice-Pres; H C. Raich, Vice Pres; A L Pilson, Vice Pres and Treas, Al Niles H J Mersereau, Vice Pres and Plant Mgr, George Lund, Asst Plant Mgr; O Lundberg, Asst. Plant Mgr; Howard H Rausch, Paper Mill Supt; D M Parrish, Plant Engr; Earl Stevens, Pur Agt; Al Mione, Traffic Mgr) S P. at Mill Railroad Siding, Penn Central R R Two Jordans, three Refiners, one Screen and two Pulpers One Paper Machine Exhaust System One 136 inch and one 162 inch Cylinders, widest trimmed sheets 120 and 150 inches Eight Driers, 4 feet x 136 inches and sixteen Driers, 4 feet x 162 inches Purchased Electricity 60 Cycles, 3 Phase, 3264 h p Installed Sixty eight motors of 220 and 440 v 80 lb Steam Pressure, Oil and Natural Gas. Effluent Treatment Plant. Pattern Tissue, 63 tons 24 hours. Highway, U S 31; State, 60 and 40 Phone Niles, 616—MUtual 3-4100.

Ontonagon—Ontonagon Co.

On Chic, Milw, St Paul & Pacific R. R M. O., Tel., Bank and Exp Nearest Air Port, Houghton-Hancock, Mich.

HOERNER WALDORF CORP, 115 Lakeshore Rd, 49953 (Alvin Huss, Chairman of Board, John E Hoeft, Vice Pres and Gen Mgr M E King, Chief Engr, R I. Cross, Woodlands Mgr) Railroad Siding S P at Mill One 100 ton Pulper, three Bauer, four Sprout Waldron, and two Sprout Waldron pump through Refiners, and three Jones Majestic Jordans One 177 inch Fourdrinier, widest trimmed sheet 162 inches Electricity, 60 cycles, 3 phase, 9 375 KW Installed Coal, Oil 200,000 lbs/hr Steam Generated at 1,500 p s i 009 NSSC Corrugating Medium 250 tons 24 hours SEMI CHEMICAL PULP MILL Two Pandia Continuous Digesters and three Bauer and four Sprout Waldron Refiners One 30 inch Beloit Debarker and one 114

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nch Beloit Chipper. Semi-Chemical Pulp, 250 ons 24 hours. Average daily consumption of irch and maple pulp wood, 250 cords. Highays, U.S. 45, 1 mile; State M-64. Phone: 906—84-4121.

Otsego—Allegan Co.

On Penn-Central R.R. Bank and Exp. Nearest Air Port, 2 miles.

MEAD CORP., Paperboard Products Div., P.O. lox 187, Otsego, Mich. 49078. For Executives, ee Main Office, Dayton, Ohio. MAC SIM BAR ILL, formerly Hoerner Waldorf Corp. (Karl alladin, Mill Mgr.; Gordon Duisterhof, Reional Sales Mgr.; Leon Rymers, Tech. Dir.; ritz Schmid, Chief Engr.; L. M. Hart, Pur. Agt.) ailroad Siding, Penn-Central R.R. S. P. at Mill. wo 1500-lb. Beaters, one 3000-lb. Morden Slushaker, three Refiners, eight Screens, two Hydraulpers and eleven Jordans. One 142-inch Eight ylinder; widest trimmed sheet, 129 inches. One ir-Knife, two Roll On-Machine Coaters; widest immed sheet, 128 inches. One 200 ton per day leaning and Asphalt Dispersion System. Elecicity, generated by Steam Turbines, 60 Cycles, Phase, 6,000 k.v.a. Installed Electric h.p.; oal; 290 p.s.i. Steam Pressure. Water Treatent Plant. Bending and Non-Bending Combinaon Box Boards, Plain Chip, News Vat Lined, illed News, Solid News, White Vat Lined, Single lanila Lined, Bleached Manila Lined, Pasted oards, Jute Lined, Mist Colored Suit Box oards, Florists' Box Boards, Machine Clay oated News and White Patent Coated News. 70 tons 24 hours. Highways, U. S., 131, 2 miles; tate, 89. Phone: 616—692-6211.

MENASHA CORP., Paperboard Div., 49078. lain Office, P.O. Box 367, Neenah, Wis., 54956. oseph Cutro, Gen. Mgr.; G. A. McConney, Adm. pt.; Clifford Sage, Jr., Prod. Mgr.; E. R. Timwski, Tech. Dir.; Frank Sebastian, Chief Engr.; . C. Beveridge, Pur. Agt.; John Hanson, Woodnds and Wood Buyers.) Railroad Siding, Pennentral R.R. S. P. at Mill. One 2500-lb. Beater, ne Hydrapulper, three Presses and seven Primary efiners and three Secondary Refiners. One ourdrinier; widest trimmed sheet, 162 inches. eam and Electricity, Semi-Chemical Corrugatg Medium, 200 tons 24 hours. SEMI-CHEMIAL PULP MILL. Four Rotary Digesters. Unleached Semi-Chemical Pulp, 225 tons 24 hours. verage Daily Consumption of Pulp Wood, 150 ords. Highways, U. S. 131, 1 mile; State M89, mile. Phone: Otsego, 616—692-6141.

Imyra—Lenawee Co.

On Penn-Central R.R. Tel., M. O. Bank and Exp. at Adrian. Nearest Air Port Toledo, Ohio: Short Way Bus Line.

SIMPLEX PAPER CORP., P. O. Address, eat Rd., Adrian, Mich., 49221. (Floyd M. urphey, Jr., Pres., Treas. and Gen. Mgr.; J. arles Young, Exec. Vice-Pres.; Robert H. ood, Vice-Pres., Sec. and Sales Mgr.; Charles Ehinger, Supt.; R. W. Rehm, Chief Engr.; C. F. Matthes, Pur. Agt.) One 10-foot, one 12-foot and one 16-foot Pulpers, three Jordans, two Bauer Disc Refiners, one 1,000 g.p.m. and one 1,500 g.p.m. Sveen Pederson Savealls. One 80-inch Beloit Six-cylinder, widest trimmed sheet 78 inches, and two Single-cylinders, widest trimmed sheets 60 and 130 inches. Electricity Purchased, 60 Cycles, 3 Phase; Gas; 150 p.s.i. Steam Pressure. Chipboard, Specialties, Building and Insulating, Asphalt Emulsion Forming and Hard Board. 50 tons 24 hours of Cylinder Board and 15 tons 24 hours of Binders Board. Highway, U. S. 223, 6 miles from Adrian. Phone: 313—265-5174.

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WEYERHAEUSER CO., PAPER DIV., Plainwell Div., 111 Mill St. 49080. Main Office, Fitchburg, Mass. For Executives see Main Office. (James L. McClellan, Jr., Branch Mgr.; Donald O. Martin, Prod. Mgr.; James Cole, Paper Mill Supt.; A. W. McCafferty, Personnel Mgr.; R. F. Waber, Pur. Agt.) Railroad Siding, Penn-Central R.R. One 6000-lb. and one 4000-lb. Hydrapulpers, eight 1400-lb. Beaters and twelve Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches. Widest Super-Calender, 80 inches. Purchased and Generated Electricity, 3 phase, 60 cycles; Coal, 265 p.s.i. Steam Pressure. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writing, Catalogue, Bible Papers, Colored Covers, Vellums, Index, Vellum-Bristol and Post. 140 tons 24 hours. Highways, U. S., 131; State, M-89 Phone: 616—685-5851.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO. 218 Riverview, Port Huron, 48060. (D. C. Huntington, Chairman; H. C. Weeks, Pres.; N. G. McLean, Exec. Vice-Pres. and Gen. Mgr.; Walter E. Woods, Vice-Pres. i/c Mfg.; C. E. Josselyn, Sec.-Treas.; D. J. Haines, Cont. and Asst. Treas.; W. W. Carr, Sales Mgr.; Carl Burdell, Asst. Mill Mgr.; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R.R. Three Pulpers, fourteen Refiners and three Jordans. Two 132-inch and one 150-inch Yankee M. G. Fourdriniers; widest trimmed sheet, 122, 125, and 138 inches. Purchased Electricity: 60 Cycles, 3 Phase; Coal; Steam Generated 80,000 lbs./hr. at 150 and 600 p.s.i. Papers for Fine Crepe, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, One-Time Carbonizing and Other M. G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 105 tons 24 hours. Highway, U. S. I-94, ½ mile. Phone: 313—985-5181-2.

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On Penn-Central R.R. Bank, Tel., Exp. and Nearest Air Port Grand Rapids, Mich. North Star Bus Line.

ROCKFORD PAPER MILLS, INC., 49341. (Seymour Rose, Chairman of Board; John Richter, Pres.; R. Battinus, Vice-Pres.; Fred Gave Jr., Vice-Pres. and Resident Mill Mgr.; Robert Rose, Vice-Pres. Board Sales; David Fisher, Sec.; Judith Rose, Treas.; M. Weingard, Cont.; Edward Gave, Mill Supt.; Ronald Van Dyke, Chief Engr. Private Siding, Penn-Central R.R. S. P. at Mil Three Hydrapulpers, seven Jordans, three Refi ers, eight Screens. One 76-inch Eight Cylinde widest trimmed sheet, 67 inches. Eighty-seve Driers, 36 inches in Diameter, 68 inches wid one Suction Press Roll, one Curtis Wright Aut matic Caliper Control. Waldron Micro-Jet Coate Pattern Smoothing Press, Allied Clay Mixin Eqpt. and Drive. Three Complete Escher Wy Units including Cleaners, Deflakers and Consis ency Controls. Purchased Electricity, A. C., Cycles, 3 Phase, 2,100 h.p. Installed Electricit 300 h. p. Installed Water Power. 440 v. Motor Electric Drives. 135 p. s. i. Steam Pressure, Con White Pat. Coated, Clay Coated Boards of Brightnesses, Chip Board, News Board, V Lined Chip Board, Suit Board, Combinatio Board, Bleached Manila, Lined Chip, Mist Gre Kraft Lined, Solid Kraft, Food Grade, an Colored Specialties. 80 tons 24 hours. Highwa U.S. 131, 1½ miles. Phone: 616—866-1523.

Three Rivers—St. Joseph Co.

On M. C.; Penn-Central R.R. M. O., Tel Exp., and Bank. Greyhound and Indian Motor Bus. Nearest Air Port, Kalamazoo.

ROCKY RIVER PAPER MILL, INC., Sub sidiary of Consolidated Packaging Corp., B 404, Broadway Rd. S. P. at Mill. Railroad Si ing, Penn-Central R.R. Two 1000-lb. Beate two Refiners, six Jordans, four Washers, tw Pulpers, six Screens and one Paper Machi Ventilator System. One 80-inch Six-Cylinder; wi est trimmed sheet, 72 inches. Seventy-four Drie 48 inches in diam. and 82 inches wide. One 7 inch On-Machine Coater. Purchased Electricit 2000 k.w., 60 cycles, 3 phase, 440 v., 2000 h installed. Turbine Drives. Coal, 250 p.s.i. Stea Pressure. Water and Effluent Treatment Plant Machine Clay Coated Board, Tag Boards, Cho olate Layer Board, Folding and Set-Up B Board, Paper Plate Board, Colored Kraft Line White Patent and Colored Specialties, Kra Mounting and Food Packaging Boards. 65 to 24 hours. Highways, U. S. 131, 1 mile; State 6 1 mile. Phone: 312—263-3473. (Idle)

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SIMPSON LEE PAPER CO., formerly L Paper Co., Washington St., 49097. For e ecutives see Corporate Offices: 125 Pratt Roa Kalamazoo, Mich. 49003. (A. A. Christian, Vic Pres. Mfg.; Robert Millard, Mill Mgr.; Charl Gardner, Supt.; Gerald Rude, Tech. Directo Stanley Pavlick, Engr.; John Stroud, Pur. Ag Jerry Yaple, Traffic Mgr.; Martin Bare, Perso nel Mgr.) S. P. at Mill. Railroad Siding, Pen Central R.R. Two 1500-lb. and three 1000-lb. Bea ers, four Jordans, six Refiners, three Pulpers, Screens and eight 1000-lb. Washers and fo 10,000-lb. Rotaries. One 121½-inch, one 13 inch and one 134-inch Fourdriniers; wide trimmed sheets, 107 inches, 119 inches and 1.

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FLETCHER PAPER CO. Main Office, 318 W. Fletcher St., Alpena, Mich., 49707. (Tom G. Fletcher, Pres.; Ralph G. Fletcher, Vice-Pres.; R. Werner, Sec. and Pur. Agt.; A. M. Fletcher, Treas.; Chas. S. White, Gen. Mgr.; Wm. S. Grimes, Tech. Paper Div. Mgr.; A. J. Steber, Gen. Supt.; D. Gouine, Paper Mill Supt.; R. J. Bowes, Chief Engr.; H. S. Granstrom, 20 N. Wacker Dr., Chicago, Ill. 60606, Sales Mgr.; Orville Fleming, Finishing Supt.; John Stretchko, Traffic Mgr.) S. P. at Mill. Railroad Siding, Detroit & Mackinac Ry., Mulevana Truck Lines. Four Refiners, three Jordans, and two Pulpers. Two 112-inch Fourdriniers; widest trimmed sheet, 100 inches. One 60-inch Blade, one 60-inch Gravure and one 60-inch roll Off-Machine Coaters. Coating 10 tons 24 hours. Purchase and Generated Electricity, 60 cycles, 3 phase; Gas. 100,000 lbs. Steam Pressure per hr. at 450 p.s.i. Register Bond, Printing, Electrophotographic, Filter, Carbonizing Bond, Electrofax Base, Wet Strength, Coated Box Cover, Release, Chart, Coated Specialty, Bible, Lightweight Opaque Print Papers, Manifold Papers and Converting Base Stock. 65 tons 24 hours. Highways, U.S. 23; State 32. Phone: 517—354-2131.

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Cheboygan—Cheboygan Co.

On M. C.; D. & M. R. R. Great Lakes Transportation. M. O., Tel., Bank and Exp. Nearest Air Port, Pellston, Mich.

CHARMIN PAPER PRODUCTS CO., 49721. See Main Office, Green Bay, Wis., for officials and grades. (R. L. Janda, Plant Mgr.) S. P. at Mill. Railroad Siding, D. & M. Two 136-inch Yankee Fourdriniers; widest trimmed sheet, 130 inches. Facial and Toilet Tissue. Highway, Mich 27. Phone: 616—627-5664.

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On Penn-Central R.R. M. O., Tel., Bank and Ex. Nearest Air Port, Kalamazoo.

SIMPLEX INDUSTRIES, INC., Centreville Rd., 49042. Main Office at Treat Rd., Adrian, Mich. 49221. Formerly Constantine Paperboard Div. of Davey Co. (Thomas Manion, Mill Mgr.) S. P. at Mill. Railroad Siding, Penn-Central R. R. Two Pulpers and six Jordans, one Vacuum Disc Filter, six Screens and Paper Machine Ventilator System. One 108-inch Six-Cylinder; widest trimmed sheet, 98 inches Purchased Electricity 440 v., 60 Cycles, 3 Phase 125 h.p. Installed Water Power 440 and 110 v. Motors. Electric and Turbine Drives Coal. 150-lb. Steam Pres-

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SCOTT PAPER CO., 9125 W. Jefferson Ave., 217. For Executives, see main office at iladelphia, Pa. 19113. (Operating Personnel: . F. Schnaufer, Gen. Mgr.; J. S. Brown, Pro-ction Mgr.; K. G. Sell, Sales Mgr.; R. E. rguson, Jr., Tech. Dir.; F. M. Foster, Plant gr.; H. B. Randolph, Pur. Agt.; J. R. Hulbert, int Traffic Mgr.; D. R. Biren, Personnel Mgr.; J. Krause, Plant Accountant; K. C. Walt-in, Paper Mill Supt.; R. S. Murray, Finishing pt.; E. S. Reese, Chief Consumer Rep.; R. Lake, Power Supt.) Railroad Siding, Mich. nt. R.R. DELRAY MILL. S. P. at Mill. Ten rdans, four Mordens. Three 132-inch Yankee . G. Machines; two 136-inch and one 142-:h Yankees. Generated Electricity. Coal. ater Treatment Plant. Toilet Tissue in Rolls, ipkins, Wiper Tissues, Waxing Base Stock, . G. Tissue, Bleached and Colored, Coating pers, Waxing, Fourdrinier and Machine Car-nizing and Glazed Specialties. 270 tons 24 urs. SULPHITE PULP MILL. (Idle) Phone: 3—VI 2-0042.

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Filer City—Manistee Co.

On C & O. R.R. M. O.; nearest Bank and Tel., Manistee, 2½ miles. Nearest Air Port, Manistee-Blacker.

PACKAGING CORP. OF AMERICA. 49634 For Executives, see Main Office at Evanston, Ill. (At Mill: C. W. Tasker, Vice-Pres. and Mgr.) S. P. Manistee. Railroad Siding, C. & O. R.R. Six Pressure and Non-Pressure Disc Refiners, ten Jordans, five Bleachers, nine Fil-ters and three Pulpers and three Paper Machine Ventilator Systems. Two 174-inch and one 160-inch Fourdriniers; widest trimmed sheets, 148 158 and 160 inches. One hundred and thirty Driers, 5 ft. in Diameter, 154 and 168 inches. On-machine size press, air knife and trailing blade Coaters and off-machine air knife Coaters. Electricity, 19,000 k.w., 60 cycles, 3 phase; 1,500 k.w. Purchased and 17,500 k.w. Generated. Coal, Oil and Gas, 600,000 lbs. per hr. Steam gener-ated at 610 p.s.i. Water Treatment plant. .009 Corrugating Medium, 400 tons; Bleached Kraft Paper and Board, 200 tons 24 hours. SEMI-CHEMICAL and KRAFT PULP MILLS. Three 3,000 cu. ft. Batch, two Pandia and one Esco Continuous Digesters, six Impco Barkers, one 15-knife 96-inch and one 10-Knife 90-inch Chip-pers, five Sprout Waldron Grinders. CEHED Bleach Plant. Semi-Chemical Pulp, 400 tons; Unbleached Kraft Pulp, 220 tons and Bleached Kraft Pulp, 202 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 750 Cords. Highway, U. S., 31, 1 mile. Phone: PArkview 3-9951.

Grand Rapids—Kent Co.

On G. T.; M. C.; Penn-Central; P. M. R.R.

PACKAGING CORP. OF AMERICA. 415 Fulton St., E., Grand Rapids, Mich., 49502. Gen-eral Offices. 1632 Chicago Ave., Evanston, Ill. For Executives see General Office. (Robert M. Alspaugh, Mgr.) S. P. at mill. Four Pulpers, six Jordans, one Refiner. One 122-inch Seven Cylinder; widest trimmed sheet, 112 inches. One On-Machine Air Knife Coater. Generate own power, 3 Phase, 60 Cycle, 440 v.; Coal. High Grade Box Boards and Test Liners and Clay Coated Grades. 135 tons 24 hours. Highways, U.S. 131, 1 mile; State, 50 and 21, 1 mile. Phone: 616—GL 9-4581.

Kalamazoo—Kalamazoo Co.

On M. C., Penn-Central, C. K. & S., and G. T. R.R. Greyhound Bus, Air Port, Exp. Tel. and Bank.

ALLIED PAPER INC., Subsidiary of SCM Corp., Executive and General Sales Office, 1608 Lake St., 49003. (W. D. Harrison, Chief Exec. Officer and Vice-Pres. SCM Corp.; E. J. Klimczak, Pres.; H. C. Bernick, Sr. Vice-Pres.; J. P. Feeley, Sec.-Treas.; E. J. Gilman, Vice-Pres. Mfg.; R. Levy, Vice-Pres. Research and Dev.; J. D. Nisbet, Vice-Pres. Sales; G. C. Freas, Vice-Pres. Admin.; J. H. L'Estrange, Gen. Sales Mgr.; Wm. J. Haselow, Dir. of Quality Control; P. Kraushaar, Vice-Pres., Ind. Rel.; H. Peeters, Dir. Prod. Scheduling; L. Stoeffler, Proc-ess Dev. Mgr.; A. Vickery, Engrg. Mgr.; K.

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Sweet, Gen. Supt. Bryant Div.; H. Horrocks, Gen. Supt. King Div.; M. Carl, Gen. Supt. Monarch Div.; C. J. Bos, Mgr. Coating Div.; L. R. Scott, Dir. of Pur.; J. R. Bowen, Traffic Mgr.) KING MILL, S. P., Kalamazoo, Mich. R.R. Sidings: Penn-Cent. and G. T. W. R.R. Three Rewinders, four Cutters and five Trim-mers. Four Fourdriniers; widest trimmed sheets, 107, 111, 117 and 130 inches. MON-ARCH MILL, S.P., Kalamazoo, Mich. Four Car-ton Coaters. Two Fourdriniers, widest trimmed sheets, 103 and 108 inches. BRYANT MILL. Four Cutters, four Trimmers, three Single, one Double and one Trailing Blade Coaters, seven Supercalenders and three Rewinders. Five Four-driniers; widest trimmed sheets, two 126, 127, 142 and 152 inches. DEINKED PULP MILL. Two stage Bleach System. Deinked Pulp, 150 tons 24 hours. GRADES MADE: Adding Ma-chine, Bible, Black, Bond (Air Mail, Cotton Fibre, Sulphite) Coated and Uncoated Book, End Leaf, Box Covering, Bristol, Carbonizing, Coat-ing Base, Construction, Cover, Direct Process, Drawing, Duplicator, Envelope, Foil Mounting, Folder, Gift Wrapping, Greeting Card, Cumming, Label, Ledger, Manifold, Manila, Map, Mimeo, Offset, Onionskin, Opaque, Papeterie, Place-Mat, Post Card, Poster, Register, Sensitizing, Shelf, Tablet, Text, Vellum, Xerographic. 450 tons 24 hours. COATED: Electrostatic Base Stock, Mas-ter Paper, and Specialties, 75 tons 24 hours. BLADE COATED: C2S Matte Finish Book Pub-lishing Papers, 100 tons 24 hours. Highways, I-94 and 131; State 43 and 96. Phone: 616—FIreside 5-7131.

BROWN CO., Board and Specialty Papers Division, 49007. Formerly KVP Sutherland Pa-per Co. For Officers see Main Office at New York, N. Y. (D. I. MacCalman, Vice-President and General Manager; C. Cooper, General Man-ager Sales and Marketing-Specialty Papers; W. McCarthy, General Manager Sales and Marketing-Board; A. T. Muha, General Manager of Manu-facturing; W. Hathaway, General Superintendent Papermaking; C. W. Holloman, Mgr. Manufac-turing Services; J. Giambrone, Production Man-ager-Board; D. Chapin, Chief Engineer) Railroad Siding Penn-Central and C. K. & S. R.R. MILL NO. 1. One Vortex Beater, three Fibermasters, four Majestic Jordans, one 20" Sprout Waldron Disc Refiner, one 400 HP Jones Disc Refiner, two 4,000 lb. Morden Slushmakers, one Barracuda Pulper, one 117" Horne Harper, and one 163" Pusey & Jones Fourdriniers, widest trimmed sheets 104 and 148 inches. Five Parchment Ma-chines; widest trimmed sheets 80 and 100 inches. One Air Knife, one Roll and one Solvent Off-Machine Coaters. MILL No. 2. ... 6,000 lb. and one 1,000 lb. Hy-drapulpers, three 2,500 lb. Horne Beaters, two 2,000 lb. Bertram Beaters, four 2,000 lb. and one 2,500 lb. Jones Beaters, three 2,500 lb. Vor-tex Beaters, ten Majestic Jordans, eight Fiber-masters, one 2,500 lb. Pulpmaster and one 2,000 lb. Slushmaker. One 165 inch. Bagley & Sewall Fourdrinier; widest trimmed sheet, 148 inches: one 167 inch Beloit Fourdrinier; widest trimmed sheet, 148 inches; two 139 inch Yankee Four-driniers; widest trimmed sheet, 126 inches. Two Trailing Blade Off-Machine Coaters. Steam an Electricity. Waterleaf, Waxing, Waxed, Vege table Parchment, Bond, Manifold, Offset, Wrap pings and Paper Specialties. Mill No. 1, 95 ton Mill No. 2, 245 tons 24 hours. For Convertin Eqpt., See Converters' Section.

BOARD MILLS: Nine Hydrapulpers, on Morden Slushmaker, one Continuous Brok Beater, eight Hydrafiners, two Morden Stoc makers, ten Jordans. One 132 inch seven-Cy inder, and one 154 inch eight-Cylinder m chine, widest trimmed sheets, 120 inches an 138 inches. One 76-inch Beloit and one 5 inch Egan polyethylene extrusion coaters. On Waldron 76-inch, one Inta-Roto 56 inch, on Mercury 56 inch Laminators. Generated ele tricity, coal. Folding box boards, machine cla coated, white patent coated news, bleached an single manila lined chip, white and news va lined chip, solid news and news lined chip, plai and bending chip, sulphite lined manilas, fo laminating grades, specialty grades, foil lam nation, grease and moisture resistant lamina tions, polyethylene coated boards, hot waxed an cold water waxed grades. 300 tons per 24 hour For Converting Equipt. See Converters' Se tion. Highways, U.S. 12 and 131, State 4 I-94. Phone: 616—383-5000.

EATON-DIKEMAN Co., Kalamazoo Mill 49003. For Executives see Mt. Holly Spring Pa., 17065. S. P. at Mill. R.R. Siding on Pen Central R.R. Two Pulpers, two Refiners, tw Jordans. One Fourdrinier; widest trimmed she 103 inches. Purchased Electricity, 440 v., 6 cycles, 3 phase. Coal. 200 p.s.i. Steam Pressur Laboratory and Industrial Filter Papers, Satura ing and Absorbent Papers, 18 tons 24 hou Highway, State 96. Idle.

GEORGIA-PACIFIC CORP., KALAMAZO PAPER DIV., formerly Kalamazoo Paper C Box 2738, 2425 King Highway, 49003. For E ecutives, see Main Office, Commonwealth Bld P.O. Box 311, Portland, Ore. (N. P. Hah Res. Mgr.; W. R. Noel, Mgr. Prod.; Charl O. Beck, Cont.; R. W. Woodruff, Pur. Mg North Central; L. Sparks, Mgr.-Cust. Serv.; Vi cent D. Redmond, Gen. Supt.-Paper Mills; L. Mimms, Gen. Supt.-Coating; Robert W. Pold man, Chief Engr.; M. R. Wilkins, Tech.; R Treece, Tech. Dir.; John R. Kennedy, Mg Ind'l. Relations; John Gideon, Pur. Agt.; Jo Cutler, Traffic Mgr.) Railroad Siding. Penn.-Ce tral & G. T. W. MILL NO. 1. Four 2500-lb. Bea ers, two Pulpers, four Jordans. One 133-inch a one 142-inch Fourdriniers; widest trimmed shee 120 inches and 130 inches. Tub Sizing on Bo Machines. 94 tons 24 hours. MILL NO. 2. T Pulpers, four 1500-lb. Beaters, four Jordans. O 100-inch and one 116-inch Fourdriniers; wid trimmed sheets, 90 inches and 105 inches. T Sizing on both Machines. 56 tons 24 hou MILL NO. 3. Two 2500-lb. and two 3500-l Beaters, two Pulpers, six Jordans. One 1 inch and one 180-inch Fourdriniers; widest tri med sheets, 156 inches and 167 inches. T sizing on both machines; 141 tons 24 hou COATING MILL. Two Air Knife Coate

40# Finch Textbook EF Cream White manufactured by Finch, Pruyn & Co., Inc.

MII-00136

PERRY W. KOPLIK & SONS, INC.
654 MADISON AVE. • N.Y. 10021 • (212)PL 2-2288
TWX: (710) 581-5392
NEWSPRINT
SIDERUNS

idest trimmed sheet 80 inches, and one Foun-
ain Blade Coater, widest trimmed sheet 90
iches; 114 tons 24 hours. Supercalenders up
100 inches wide. Electricity: 440 v., 60 cycles,
phase. 12,000 KW Generated, 4,000 KW Pur-
ased. 18,500 Installed Electric h.p. 350,000
s. per hr. steam at 450/275 p.s.i. Coal. 850
s.i. Steam Pressure. M.F., English Finish, Su-
r Offset, Mimeograph, Writing, Register Bond.
abel, Music, Drawing, Linings, Coated Papers
d Hangings. DEINKED PULP MILL. 80
ns 24 hours. Highway, Interstate 94, 2 miles
ast; Interstate 94 continues from junction as
ate 96. Phone: 616—382-2890.

HAWTHORNE PAPER CO., P.O. Box 2858,
ng Highway, 49003. (William Slavin, Chairman
Board; Louis J. Slavin, Pres.; S. R. Zatz, Sec.;
. Frederick Young, Tech. Dir.; E. M. Betz,
raffic Mgr.) Railroad Siding, Penn-Central R.R.,
mile east of city limits. Ten Beaters, two Jor-
ns, four Refiners and four Pulpers. Ross Paper
achine Ventilator System. One 92-inch and one
5-inch Fourdriniers; widest trimmed sheets, 82
d 92 inches. Fifty-eight Driers, 42 inches in
iameter, 92 and 105 inches wide. Purchased
d Generated Electricity. Coal. 275-lb. Steam
essure. Water Treatment Plant. Turbine and
ther Drives. Rag and Sulphite Bond, Ledger,
dex, Offset, Onion Skin and Manifold, Em-
ssed, Translucent Master, Mimeograph, Duplı-
tor, Vellum, Sulphite Text and Cover, Techni-
l Papers, Wet Strength Map and Chart, Blue
int, Direct Process, Specialty Papers, Rag
ok, Weddings, Papeteries, Photogelatin Paper.
tons 24 hours. Highway, State 96. Phone:
6—FIreside 5-1163.

NATIONAL GYPSUM CO., 49099. Main Of-
e at Buffalo, N. Y. (At Mill: R. L. LeGrand,
ant Mgr.) Railroad Siding, Mich. Cent. Two
drapulpers, two Jordans and three Refiners.
e 108-inch Eight Cylinder, widest trimmed
eet, 100 inches. Electricity. Gypsum Liner
ard Paper, 155 tons 24 hours. Highway, U. S.
. Phone: 616—FIreside 3-1579.

Anse—Baraga Co.

On Soo-Line R.R.

CELOTEX CORP., 49946. For Executives See
ain Office, 1500 No. Dale Mabry Hwy., Tampa,
. 33607. (A. H. Philipp, Plant Mgr.; A. O.
rtanen, Board Mill Supt.; R. J. Slattery, Fabr.
pt.; L. W. Swanson, Plant Engr.; R. J. Thorne,
ality Control Supv.) Building Board, Per-
ated and Unperforated Tile, Other Interior
ish Products, Sheathing and Other Exterior
ulation Board Products, Mineral Board Prod-
s, 270 tons 24 hours. MECHANICAL PULP
LL. Three Asplund Defibrator Digesters and
finers. Defibrated Pulp. Phone: 906—524-
01.

anistique—Schoolcraft Co.

On Minn., St. Paul & S. Ste. Marie R.R. Tel.,
Bank and Exp. Greyhound Bus. Nearest Air
Port at Escanaba.

MANISTIQUE PULP & PAPER CO. Main Office, Box 111, Manistique, Mich. 49854 Owned by Field Enterprises Inc., Chicago, Ill. (F. S. Hoholik, Pres. and Chief Exec.; John F. Cross, Jr., Sec.-Treas.) Railroad Sidings, Soo R.R. Two Beaters, two Screens, one Jordan, one Refiner and two Pulpers. One 166-inch Fourdrinier; widest trimmed sheet, 154 inches. Water and Purchased Electricity. 5800 h.p. Installed Electric Power and 5000 h.p. Installed Water Power. Coal, 250 p.s.i. Steam Pressure. Groundwood Papers, Newsprint, Novel, Rotogravure, Catalog and Hanging. 150 tons 24 hours. GROUND WOOD PULP MILL. Six Magazine Grinders and one Refiner. Water and Electricity. Ground Wood. 90 tons 24 hours. DE-INKED PULP MILL. De-inked pulp, 75 tons 24 hours. Average Daily Consumpuon of Peeled Pulp Wood, 90 Cords. Highway, U.S. 2. Phone: Manistique 906—341-2175.

Menominee—Menominee Co.

On C. & N. W.; C., M., St. P. & P. R. R. Green Bay and Lake Michigan Steamers and Air Port.

AMERICAN CAN CO., Marathon Products, 49858. For Officials see New York City. (John Fulkerson, Mill Mgr.; A. S. Suminski, Paper Mill Supt.; John A. Gasperi, Converting Supt.; Richard G. Hansen, Mill Engr.) Two Claflin Refiners, five Jordans and four Hydrapulpers. One 164-inch Black-Clawson Fourdrinier; widest trimmed sheet, 154 inches. One Yankee Fourdrinier; widest trimmed sheet, 128 inches. Generated Electricity. Coal. Water Treatment Plant. Bleached Board Specialties. Waxing Tissue. 300 tons 24 hours. Highways, U.S. 41; State, 173. Phone: Menominee, 906—UN 3-5595.

SCOTT PAPER CO. For Executives see Scott Paper Co., Philadelphia, Pa. 19113. (Operating Personnel: S. J. Lang, Supt.) S. P., Menominee, Mich. GROUND WOOD MILL. Four Grinders, four Wet Machines. Ground Wood. 22 tons 24 hours. Average Daily Consumption of Peeled Pulp Wood, 24 Cords. Highway, U. S. 41, ½ mile. Phone: 715—735-6644.

Monroe—Monroe Co.

On Penn-Central; P. M.; D. & T. and C. & O. R.R. Tel. and Bank. Nearest Air Port, Detroit Metropolitan.

CONSOLIDATED PACKAGING CORP., P.O. Box 724, 921 E. Elm Ave., 48161. For Executives see Main Office in Chicago, Ill. (at mill: William J. Hohns, Gen. Mgr.; George C. Baron, Mgr. North Side Mills; William Lunsford, Mgr. South Side Mills; J. T. Gleason, Pur. Agt.) S. P., Railroad Sidings at Mills. TEST LINER MILL. Two 200-ton per day Asphalt Dispersion Systems, two Dilts Beaters, three 20-foot Hydrapulpers, one 16-foot Hydrapulper, four Refiners and eight Jordans. One 8-cylinder and one 7-cylinder machine. Widest trimmed sheets 102 and 118 inches. 300 tons 24 hours. CORRUGATING MEDIUM MILL. Two refiners and four Jordans. Two Fourdriniers. Widest trimmed sheets 115 and 85

40# Finch Textbook EF Cream White manufactured by Finch, Pruyn & Co., Inc.

MHI-00137

GOTTESMAN & CO., Inc. • BLEACHED KRAFT PULP
100 PARK AVENUE NEW YORK, N. Y. 10017

inches. 200 tons 24 hours. BOXBOARD MILL. Three 20-foot, three 14-foot and one 12-foot Hydrapulpers. Four Dilts Breakers, eight Dynapulpers, twenty Jordans, four Refiners, one 8-Cylinder, two 7-Cylinder Machines; widest trimmed sheets 102 and 112 inches. One 77-inch Air Knife, Off-Machine Coater. Boxboard 425 tons 24 hours. Electricity. 220/440 v., 60 cycles, 3-phase, 200 MKW purchased, 100 MKW generated. Coal. 250 p.s.i. Steam Pressure. PRODUCTS: Corrugated Sheets, Folding Box Board, Cylinder Test Liners, Clay Coated Box Board, Automobile Panel Board, Resin Forming Board, Pasted Boards, Corrugated Shipping Containers, Folding Cartons, Asphalt Shipping Drums, Beverage Containers, Waterproof and Greaseproof Folding Cartons. Highways, I-75, ½ mile West. State 56, ½ mile West 24A. Phone: 313—241-9000.

MONROE DIV. TIME CONTAINER CORP., 1151 W. Elm Ave., 48161. See Main Office listing at Chicago for Executives. (At Mill: Robert Bert, Mill Supt.; Edward O'Brien, Tech. Dir.; James V. Lamarre, Chief Chem.; Robert Richey, Corrugated Prod. Mgr.; Rexford D. Purkey, Sales Mgr.; Robert Bedell, Chief Engr.; Wm. A. Finn, Pur. Agt.) Railroad Siding, C. & O. R.R. Two Hydrapulpers, and ten Jordans. One 124-inch Seven Cylinder; widest trimmed sheet, 110 inches. Generated Electricity; Coal. Test Liners, Plain Chip, Set-Up Box Board, Automotive Panel and Pasted Board, Shipping Containers and Specialties. 135 tons 24 hours. Highway, U.S. 24. Phone: 313—241-3220.

UNION CAMP CORP., 1109 E. Elm Ave. 48161. For Executives see Main Office at Wayne, N J. (J. Fuko, Mill Mgr.; E. L. Kelley, Sales Mgr.; J. R. Van-Slambrouck, Gen. Supt.; E. J. McCue, Tech. Supt.; A. L. Gordon, Mill Engr.; E. H. Davis, Pur. Agent.) S.P. at all Mills. MILL No. 2. Two Jordans, two Refiners, seven Selectifier Screens, one 150-ton Dilts Hydrapulper, one 112-inch Seven Cylinder Board Machine; widest trimmed sheet, 98 inches MILL NO. 3. Three Jordans, two Refiners, seven Selectifier Screens, one 150-ton Asphalt Dispersal System and one 150-ton Dilts Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheets, 112 inches. MILL NO. 4. Three Jordans, two Refiners, seven Selectifier Screens, one 70-ton APMEW Top Liner Pulper, one 150-ton Dilts Filler Hydrapulper, one 124-inch Seven Cylinder Board Machine; widest trimmed sheet, 112 inches. POWER PLANT. Electricity 4800/480 v., 60 cycles, 3-phase. 1000 KW Purchased, 7500 KW generated. 600 p.s.i. Steam Pressure. Chip and WP Filler Boards, Roc-Cor Tube and Core Stocks, Bogus Medium, Container Boards, Solid Fibre and Corrugated Shipping Cases, and Corrugated Packaging Materials. 300 tons 24 hours. Highways, U.S. 24, 2 miles, and 25, 1 mile; State 56. Phone: Monroe 313—241-7700.

Munising—Alger Co.

On L. S. & I., connecting with C. & N. W. and D. S. S. & A. M. O., Tel. and Ex.

KIMBERLY-CLARK CORP., Munising Mill 49862. Main Office, Neenah, Wis. For Executives, see Main Office listing. (R. H. Boehm, Mill Mgr.) S. P. at mill. NO. 1 MILL. Two 136-inch Fourdriniers; widest trimmed sheet, 120 inches. One 94 inch Supercalender. Steam and Electricity Bonds, Writing, Mimeograph, Ledger, Duplicator, Map Paper, Impregnating, Coating Base Stock and Bleached, Saturated and Coated Specialties. 70 tons 24 hours. Highways, U. S. 41, 30 miles; State, 94 and 28. Phone: 906—387-2700.

Muskegon—Muskegon Co.

On P. M.; M. R. & Nav. Co.; C. & O and G. T. P. R. R.; Muskegon Co. Airport; Greyhound Bus Lines. M. O., Tel., Bank and Exp

BEMIS CO., INC. 2850 Lincoln Ave., Muskegon, Mich. 49441. For Executives, see Main Office listing. (At Mill: J. E. Zeller, Gen. Mgr.; P. Vanderwerf Sales Mgr.; R. Berry, Prod. Mgr.) S. P. at Mill. Railroad Siding, Grand Trunk Western. Six Pulpers. Electricity, Gas. Moulded Pulp and Polystyrene Protective Interior Packaging. 10 tons 24 hours. Highways, Interstate 196, 2 miles from Sherman Blvd.; State 16 and 31, 2 miles from Sherman Blvd. Phone: 616—PLaza 5-1662.

WARREN, S. D., CO., Div. of Scott Paper Co., Central Mill. Office, 2400 Lakeshore Dr., 49443. For executives, see Main Office in Boston, Mass. (Operations Officials: W. H. Marra, Mill Mgr.; C. S. Russell, Prod Mgr.; John Moran, Tech. Dir.; W. A. Wrase, Ch. Engr.; John Lee, Pur. Agt.; D. DeGlopper, Traffic Mgr.; J. N. Fields, Woodlands Mgr.) S. P. at mill. Railroad Siding. C. & O. R.R. Two 115-inch, one 121-inch, one 165-inch and one 222-inch Fourdriniers; widest trimmed sheets, two 96 inches, one 120 inches, one 144 inches and one 190 inches. Purchased and Generated Electricity, 60 Cycles, 3 Phase, 11,000 h.p Installed, Coal, 475 p.s.i. Steam Pressure. Machine Coated Book, Lithographic Papers, Text Papers, Coated Covers, Cast-Coated Papers, Specialty Papers. 350 tons 24 hours. KRAFT PULP MILL. One Continuous Digester and one Wet Machine. Bleached Kraft Pulp, 225 tons 24 hours. Average daily consumption of peeled pulpwood, 430 cords. Highways, U.S. 16 and 31, 1 mile; State 46. Phone: 616—PLaza—5-3761.

Niles—Berrien Co.

On Penn-Central R.R. M. O., Tel. and Bank Greyhound Bus Lines Nearest Airport, South Bend, Ind.

FRENCH PAPER CO., 100 French St., P.O. Box 214, 49120. (J. E. French, Pres.; Bruce Bigford Exec. Vice-Pres. and Sales Mgr.; R. D. Clark Vice-Pres. and Sec.; J. E. French, Treas.; Allyn Clyde, Tech. Dir.; James L. Good, Supt.; E. T. Lingnowski, Chief Chem.; R. W. Meyers, Traffic Mgr.; R. Engberg, Chief Engr.; R. Etzcorn Pur. Agt.) S. P. at Mill. Railroad Siding, Penn Central R. R. Four Dynapulpers, four Jordans and two Refiners. One 96-inch and one 118

40# Finch Textbook EF Cream White manufactured by Finch, Pruyn & Co., Inc.

THE PAPER TIGERS
Howard Zuker Associates / Chicago 60611 / Phone: 312 / 664-5700

ıch Fourdriniers; widest trimmed sheets, 84 ıd 105 inches. Generated Electricity, 440 v.,) Cycles, 3 Phase, 1600 h.p. Installed Elec- icity; 1600 h.p. Installed Water Power; Coal; 50 p.s.i. Steam Pressure. Offset, Colored Off- t, Opaque, Cover, Embossed, Greeting Text ıd Specialties. 60 tons 24 hours. Highways, . S. 31 and 12, State 60 and 40. Phone: 616— (Utual 3-1100.

SIMPLICITY PATTERN CO., INC., 49120. lain Office. 200 Madison Ave., New York, N. Y.,)016. At Niles: H. J. Mersereau, Vice-Pres. and lant Mgr.; George Lund, Asst. Plant Mgr.; O. undberg, Asst. Plant Mgr.; Howard H. Rausch, ıper Mill Supt.; D. M. Parrish, Plant Engr.; ırl Stevens, Pur. Agt.; Al Mione, Traffic Mgr.) P. at Mill. Railroad Siding, Penn-Central R.R. wo Jordans, three Refiners, one Screen and two ılpers. One Paper Machine Exhaust System. ne 136-inch and one 162-inch Cylinders; widest immed sheets 120 and 150 inches. Eight Driers, feet x 136 inches and sixteen Driers, 4 feet x 52 inches. Purchased Electricity: 60 Cycles, 3 ıase, 3264 h.p. Installed. Sixty-eight motors of 10 and 440 v. 80-lb. Steam Pressure, Oil and atural Gas. Effluent Treatment Plant. Pattern ssue, 63 tons 24 hours. Highway, U. S. 31; ate, 60 and 40. Phone: Niles, 616—MUtual 4100.

ıtonagon—Ontonagon Co.

On Chic., Milw., St. Paul & Pacific R. R M. O., Tel., Bank and Exp. Nearest Airport, Houghton-Hancock, Mich.

HOERNER WALDORF CORP., 115 Lake- ore Rd., 49953. See Main Office listings r Executives. (At Mill: John E. Hoeft, ice Pres. and Gen. Mgr.; M. E. King, Chief ıgr.; K. Pickering, Pulp Mill Supt.; E. G. Bar- das, Paper Mill Supt.; R. L. Cross, Wood- ıds Mgr.) S. P. at Mill. Railroad Siding. One 0-ton Pulper, three Bauer, four Sprout Wal- on, and two Sprout Waldron pump-through Re- ers, and three Jones Majestic Jordans. One 177- :h Fourdrinier, widest trimmed sheet 162 inch- Electricity, 60 cycles, 3 phase; 9,375 KW In- lled. Coal, Oil. 200,000 lbs./hr. Steam Gener- ted at 1,500 p.s.i. .009 NSSC Corrugating Med- n. 250 tons 24 hours. SEMI-CHEMICAL ULP MILL. Two Pandia Continuous Digesters d three Bauer and four Sprout Waldron Re- ers. One 30-inch Beloit Deharker and one 114- :h Beloit Chipper. Semi-Chemical Pulp. 250 ıs 24 hours. Average daily consumption of :h and maple pulp wood. 250 cords. High- ys. U.S. 45, 1 mile; State M-64. Phone: 906— 1-4121.

ego—Allegan Co.

On Penn-Central R.R. Bank and Exp. Nearest Air Port, 2 miles.

MEAD CORP., Paperboard Products Div., P.O. x 187, Otsego, Mich. 49078. For Executives. Main Office listing. MAC SIM BAR T.L. formerly Hoerner Waldorf Corp. (Karl lladin, Mill Mgr.; Gordon Duisterhof, Sales ır.; Leon Rymers, Tech. Dir.; L. M. Hart, Pur. Agt.) S. P. at Mill. Railroad Siding, Penn-Central R.R. Two 1500-lb. Beaters, one 3000-lb. Morden Slushmaker, three Refiners, eight Screens, two Hydrapulpers and eleven Jordans. One 142-inch Eight Cylinder: widest trimmed sheet, 129 inches. One Air Knife, two Roll On-Machine Coaters; widest trimmed sheet, 128 inches. One 200 tons per day Cleaning and Asphalt Disper- sion System. Electricity, Generated by Steam Turbines, 60 Cycles, 3 Phase, 6,000 k.v.a. In- stalled Electric h.p.; Coal; 290 p.s.i. Steam Pres- sure. Water Treatment Plant. Bending and Non- Bending Combination Box Boards, Plain Chip, News Vat Lined, Filled News, Solid News, White Vat Lined, Single Manila Lined, Bleached Manila Lined, Pasted Boards, Jute Lined, Mist Colored Suit Box Boards, Florists' Box Boards, Machine Clay Coated News and White Patent Coated News. 170 tons 24 hours. Highways, U.S., 131, 2 miles; State, 89. Phone: 616— 692-6211.

MENASHA CORP., Paperboard Div., 49078. Main Office, P.O. Box 367, Neenah, Wis., 54956. (Joseph Cutro, Gen. Mgr.; G. A. McConney, Adm. Supt.; Clifford Sage, Jr., Prod. Mgr.; E. R. Tim- lowski, Tech. Dir.; Frank Sebastian, Chief Engr.; R. C. Beveridge, Pur. Agt.; John Hanson, Wood- lands and Wood Buyers.) S.P. at Mill. Railroad Siding, Penn-Central R.R. One 2500-lb. Beater, one Hydrapulper, three Presses and seven Primary Refiners and three Secondary Refiners. One Fourdrinier; widest trimmed sheet, 162 inches. Steam and Electricity. Semi-Chemical Corrugat- ing Medium, 200 tons 24 hours. SEMI-CHEMI- CAL PULP MILL. Four Rotary Digesters. Un- bleached Semi-Chemical Pulp, 225 tons 24 hours. Average Daily Consumption of Pulp Wood, 150 Cords. Highways, U. S. 131, 1 mile; State M89, ¼ mile. Phone: Otsego, 616—692-6141.

Palmyra—Lenawee Co.

On Penn-Central R.R. Tel., M. O. Bank and Exp. at Adrian. Nearest Air Port Toledo, Ohio; Short Way Bus Line.

SIMPLEX INDUSTRIES, INC. Mailing Ad- dress: Treat Rd., Adrian, Mich. 49221. (Floyd M. Murphey, Jr., Pres., Treas. and Gen. Mgr.; J. Charles Young, Exec. Vice-Pres.; Robert H. Wood, Vice-Pres., Sec. and Sales Mgr.; Charles R. Ehinger, Supt., Paper Mill Div.; R. W. Rehm, Chief Engr.; C. F. Matthes, Pur. Agt.) One 10- foot, one 12-foot and one 16-foot Pulpers, three Jordans, two Bauer Disc Refiners, one 1,000 g.p.m. and one 1,500 g.p.m. Sveen Pederson Savealls. One 80-inch Beloit Six-cylinder, widest trimmed sheet 78 inches, and two Single-cylin- ders, widest trimmed sheets 60 and 130 inches. Electricity Purchased, 60 Cycles, 3 Phase; Gas; 150 p.s.i. Steam Pressure. Chipboard, Special- ties, Building and Insulating. Asphalt Emulsion Forming and Hard Board. 50 tons 24 hours of Cylinder Board and 15 tons 24 hours of Binders Board. Highway, U. S. 223, 6 miles from Adrian. Phone: 313—265-5174.

Plainwell—Allegan Co.

On Penn-Central R.R. M. O., and Tel.

WEYERHAEUSER CO., PAPER DIV., Plain-

MHI-00138

well Div., 111 Mill St. 49080. For Division Of- ficers, see Main Office in Fitchburg, Mass. For Corporate Officers, see General Offices in Ta- coma, Wash. (James L. McClellan, Jr., Branch Mgr.; Donald O. Martin, Prod. Mgr.; James Cole, Paper Mill Supt.; A. W. McCafferty, Personnel Mgr.; R. F. Waber, Pur. Agt.) Rail- road Siding, Penn-Central R.R. One 6000-lb. and one 4000-lb. Hydrapulpers, eight 1400-lb. Beaters and twelve Refiners. One 110-inch and two 130-inch Fourdriniers; widest trimmed sheets, 98 inches and 120 inches. Widest Super-Calender, 80 inches. Purchased and Gen- erated Electricity, 3 phase, 60 cycles; Coal, 265 p.s.i. Steam Pressure. Effluent Treatment Plant. English Finish Book, M. F. Book, M. F. Litho, S. C. Book, Antique Book, Tub Sized Offset, Bond, Mimeograph, Duplicator, Tablet, Writ- ing, Catalogue, Bible Papers, Colored Covers, Vellums, Index, Vellum-Bristol and Post. 140 tons 24 hours. Highways, U. S., 131; State, M-89. Phone: 616—685-5851.

Port Huron—St. Clair Co.

On G. T. W.; P. M.; P. H. & D. R. R. M. O., Tel., Bank, Exp.; Greyhound Bus. Nearest Air Port, St. Clair Co.

DUNN PAPER CO. Division of Dennison Mfg. Co., 218 Riverview, Port Huron, 48060. (J. B. Gray, Chmn.; N. G. McLean, Pres.; W. E. Woods, Vice-Pres.; C. E. Josselyn, Sec. and Treas.; D. J. Haines, Asst. Treas.; C. L. Bur- dell, Asst. Mill Mgr.; T. E. Gallagher, Market- ing Mgr.; D. L. Huyser, Carbonizing Sales Man- ager; N. F. Plouff, Pur. Agt.) Railroad Siding, G. T. W. R.R. Three Pulpers, fourteen Refiners and three Jordans. Two 132-inch and one 150- inch Yankee M. G. Fourdriniers; widest trimmed sheet, 122, 125, and 138 inches. Purchased Elec- tricity: 60 Cycles, 3 Phase; Coal; Steam Gen- erated 80,000 lbs./hr. at 150 and 600 p.s.i. Pa- pers for Fine Crepe, Diaper Lining, Impreg- nating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, One-Time Carbonizing and Other M. G. Bleached, Semi-Bleached and Un- bleached Specialties in Jumbo Rolls only. 105 tons 24 hours. Highway, U.S. I-94, ½ mile. Phone: 313—985-5181-2.

PORT HURON PAPER CO., P. O. Box 289, Fort Washington Ave., 48060. (G. F. Durand, Board Chmn.; F. B. McFarland, Pres. and Chf. Exec. Officer; C. R. Roglitz, Sr. Vice-Pres.; Geo. F. Bajis, Vice-Pres. and Dir. of Pur.; R. S. Smeltzer, Chief Fin. Officer and Treas.; L. M. Sturdevant, Asst. Treas. and Sec.; E. G. Donovan, Gen. Sales Mgr.; R. G. Payne, Sales Mgr.; L. F. Thelen, Asst. Sales Mgr.; R. W. Durand, Mgr. Paper Div.; Egil R. Aschim, Paper Mill Supt.; J. R. Arthur, Tech. Dir.; Thomas C. Noetzel, Chief Engr.; Richard W. Lambrecht, Jr., Plant Engr.; Edward J. Warren, Traffic Mgr.) Two 132- inch Yankee Fourdriniers; widest trimmed sheet, 123 inches; one 143-inch Yankee Fourdrinier; widest trimmed sheet, 127½ inches; one 132-inch Fourdrinier; widest trimmed sheet. 120 inches; one 184-inch Fourdrinier; widest trimmed sheet, 160 inches, Steam and Electricity. Absorbe Adding Machine, Anti-Tarnish, Bond, Carb Coating, Carbon Paper, Carbonized Rolls, C bonizing, Coil Winding, Creping, Cigarette T ping, Coating and Glazing Base Stock, Colo Specialties, Crepe Paper, Diaper Linings, Elect Cable Paper, Foil Mounting, Interleaving, Ka Specialties, Kraft, Laminating Stock, Lens Pap Offset, Opaque, Tissue Specialties, Wrappi Wrapping Specialties, Writing, M. G. Wrapp and Specialties, Manifold Register, Salesbo Sulphite Bond, Sulphite Papers, M. G. and M. Lightweight Dense Specialty Papers, Tissue W ing and Wet Strength Specialties. 115 tons hours. Phone 313—982-0191.

Rochester—Oakland Co.

On G. T.; M. C. R. R. M. O., Tel., Ba and Exp. Nearest Airport at Detroit.

ROCHESTER PAPER CO., subsidiary of Ki Seeley Thermos Co., P. O. Box 185, Mill 48063. (Paul H. Travis, Pres. and Gen. Mg Gordon Morseth, Vice-Pres. and Plant Mg A. H. Giuliani, Vice-Pres. Finance; J. E. Zi merman, Secretary; John R. Smith, Treasur N. A. Wold, Sales Manager Automotive Sp cialties; R. J. Arsenault, Sales Manager N Products; Philip H. Avery, Technical Direct William M. Kirkland, Pur. Agt.) S. P. at m Railroad Siding, G. T. R. R. One 1000-lb. Bea one E. D. Jones Fibreinaster, and two Noble Wood Jordans. One Jones Hi-Low Pulper a one Parker Screen. One 66-inch Fourdrin widest trimmed sheet, 62 inches. Purcha Electricity, 60 Cycles, 3 Phase, Oil, 100 p. Steam Pressure. Blotting, Coaster, Cover a Cushion Papers; Impregnated, Regular and W Strength Filter Papers; Graph and Grindi Wheel Papers; Impregnated Specialty Pap Laminated and Packaging Specialties; Pho Mount, Saturating and Speaker Cone Papers Embossed Specialties. 12½ tons 24 hours. Hi ways, U. S., 10, 9 miles; State, 150. Pho 313—Olive 1-8121.

Rockford—Kent Co.

On Penn-Central R.R. Bank, Tel., Exp. Nearest Airport Grand Rapids, Mich. N Star Bus Line.

ROCKFORD PAPER MILLS, INC., 493 (Seymour Rose, Chairman of Board; J Richter, Pres.; R. Battinus, Vice-Pres.; Fred G Jr., Vice-Pres. and Resident Mill Mgr.; Rol Rose, Vice-Pres. Board Sales; David Fisher, S Judith Rose, Treas.; M. Weingard, Cont.; Edw Gave, Mill Supt.; Ronald Van Dyke, Chief En S. P. at Mill. Private Siding, Penn-Central Three Hydrapulpers, seven Jordans, three Re ers, eight Screens. One 76-inch Eight Cylin widest trimmed sheet, 67 inches. Eighty-se Driers, 36 inches in Diameter, 68 inches w one Suction Press Roll, one Curtis Wright A matic Caliper Control. Waldron Micro-Jet Co Pattern Smoothing Press, Allied Clay Mi Eqpt. and Drive. Three Complete Escher W Units including Cleaners, Deflakers and Con-

FOREST PRODUCTS GROUP-BECHTEL CORPORATION
50 Beale Street, San Francisco, Cal. 94105 415-764-7545
Engineers and Builders for Industry
San Francisco ● New York ● Houston ● Montreal ● Mexico City ● London ● Paris ● The Hague ● Melbourne

Effluent Treatment. Primary Treatment: Clarifier, flotation saveall

Products. Rag content, onion skin, manifold, thin bond, technical papers, chart paper, airmail, art, direct process, flameproof, sensitizing, saturating, surface watermarked, tracing, waterleaf, writing, 10 tons daily

Strathmore Paper Co. Div of Hammermill Paper Co

Tel: 413-863-4333
Albert W Dempsey, Supt
A.J. Kopinsky, Asst Supt.
Francis Vivier, Chem.
Gustave E. Sell, Maint. Engr.

Paper Mill Paper Machines. Equipment listed under West Springfield Mill Fourdrinier

Products. Bond, writing, index, text, ledger, cover, onionskin papers.

WEST DUDLEY

West Dudley Paper Co. Div. of Rhode Island Card Board Co.

Tel: 617-764-8356
RR: PC sidings. Hwys: Near US Rte # 15 Approx Mi 7. State Rte # 131
Franklin Pierce Emerson, Gen. Mgr
Leander W. Gardner, Gen Supt.
George E. Beaudette, Chief Engr

Paper Mill Stock Preparation: Pulpers 3 Hydrapulper. Screens: 5 Refiners: 2 Claflin. Jordans: 4 Noble & Wood Mammoth Jr.
Paper Machines S&W Five-Cylinder 103" Width 93" Trim 200 fpm
Dryers Drums: 57 Calenders: 1 stack, 1 breaker stack..
Coaters, off Machine. 57. off Machine. 1 stack, 1 breaker stack.
Finishing Plant. Rewinders: 1 Moore & White.

Steam/Power. Power Boilers: 2 Fuel: Gas/Oil. Steam, lbs hr.: 34,000 Press.. 200.
Electricity: Freq, phase. 60, 3. Purchased. 100%.

Water Treatment. Daily Usage, 1,000. M.g.p.d Source: River

Products. Cup, tag, photo mount, pressboard, tube, file folder, anti-tarnish, black, laminated, manila, patch stock, mill blanks, embossing, poster, bristol, card, cover, boxboards (manila-lined, news, patent-coated, coated, kraft, sulphite, pulp, vat-lined) 50 tons daily

WESTFIELD

★**Stevens Paper Mills, Inc.** 77 Mill St.

Tel: 413-562-2315
Headquarters Location See Executive Offices section for more details
RR: PC Hwys: US Rte # 202
Robert Allen, Upper Mill Supt
John Tarnauskas, Lower Mill Supt

Paper Mill Stock Preparation: Beaters: 5 Bertram 8. Jordans: 10.
Paper Machines 72" Fourdrinier Width 60" Trim 4 Fourdrinier 94" Width 86" Trim

Products. Condenser and coil winding tissue, electrical insulating paper, 8 tons daily

WEST GROTON

Groton Leatherboard Co.

Tel. 617-448-6334
Hwys: Near US Rte # 495 Approx Mi 10.
Eugene R. Gray, Pres., Treas.
William A Lawrence II, Vice Pres.
Warren H. Pease, Asst. Treas
Virgil L. Powell, Prod Mgr
R. LeBeau, Asst. Prod. Mgr.

Products. Stereotype dry mats.

Hollingsworth & Vose Co.

Tel: 617-448-6321
RR: B&M siding. Hwys: US Rte # 40. State Rte # 2A.
Roland W. Sawyer, Mill Mgr.
John Fawcett, Paper Mill Supt.
Richard Guimont, Tech. Supt.
Al Freian, Plant Engr.

Pulp Mill PAvg. Daily Prod.: Batch Digesters: pecialty (rope, jute, etc.) 10.Batch Digesters: Rotary.

Paper Mill Stock Preparation: Pulpers: 1. Beaters: 4-1500 lb, 11-1600 lb. Screens: 4. Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines. Four-Cylinder 86" Width 75" Trim 66" Fourdrinier Width 60" Trim
Rotoformers: 1-65", 58" trim.
Dryers. Drums: 150. Size Presses: 2. Calenders: 5 stacks..
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil. Press.: 150.
Electricity: Freq, phase: 60, 3.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 4 settling basins.

Products. Rope, jute, wood fiber, and other industrial specialty, electrical insulating, saturating, absorbent, filter, red rope, heavy duty wallet, tympan, gasket, wet strength and black papers, 35 tons daily.

WEST SPRINGFIELD

★**Premoid Corp.** Front St.

Tel: 413-736-4554
Headquarters Location. See Executive Offices section for more details.
RR: PC siding. Hwys: US Rte # 20.
Stan Forrester, Plant Engr.

Paper Mill Paper Machines. 72" Fourdrinier Width 60" Trim
Coaters, off Machine. Roll, 1-60" reverse roll. off Machine. 1-60" knife, 1-60' impregnator.
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt.: 1-60' two-station roto-gravure printer, 3-60" roll embossers..

Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 18 tons daily.

Southworth Co. Front St.

Tel: 413-732-5141
RR: PC siding. Hwys. US Rte # 91,20.
Phelps Brown, Pres., Treas
John H. Southworth, Vice Pres., Sec.
E. Randall Baker, Supt.
Elio Viecelli, Asst. Supt
Kent Tarrant, Sales Mgr

Paper Mill Stock Preparation: Pulpers: 1. Beaters: 1-1200 lb, 4-850 lb. Jordans: 2.
Paper Machines. 85" Fourdrinier Width 70" Trim Dryers. Size Presses: tub..
Finishing Plant. Supercalenders: 1. Sheeters: 3 Trimmers: 4.

Products. Rag content bond, ledger, linen, typewriter, onionskin, manuscript cover, writing, watermarked deluxe bond, 12 tons daily.

★**Strathmore Paper Co.** Div. of Hammermill Paper Co. Front St.

Tel: 413-568-9111
Headquarters Location. See Executive Offices section for more details.
Hwys: US Rte # 20.
John H. McConnell, Supt.
Denis Scannell, Chem.
Charles O. Hosterman, Maint. Engr.
G.W. Worden, Fnshg. Supt.

Pulp Mill Rags: Batch Digesters: 3 Rotary.
Pulp Processing: Washers: 12 rag.

Paper Mill Stock Preparation Pulpers: 4 Beaters 10 Hollander. 2 Bertrams Refiners 21 Cleaners. 65 Dirtec. Bauer
Paper Machines 52" Trim
89" Trim
66" Fourdrinier Width 56" Trim
77" Fourdrinier Width 67" Trim
80" Fourdrinier Width 70" Trim
86" Fourdrinier Width 74" Trim
87" Fourdrinier Width 75" Trim
90" Fourdrinier Width 79" Trim
Finishing Plant. Supercalenders. 2 Norwood Sheeters: 12 Trimmers: 12

Products. Bond, writing, vellum, bristol, wedding, typewriter, onionskin, airmail bond, manuscript cover, text, box cover, drawing, jeweler's bristol, lampshade, tag parchment, papeterie, steel plate, patent office board, gravure, blueprint, direct process and negative, specialty industrial synthetic papers, 120 tons daily total of Turners Falls, Woronoco and West Springfield mills.

WHEELWRIGHT

Romar Tissue Mills, Inc. Div. of U.S. Industries, Inc.

Tel: 413-477-8811
RR: B & M. Hwys: State Rte # 32.
Robert Belsky, Pres.
Maurice Belsky, Vice Pres., Treas.
George B. Scully, Clerk
David Rose, Gen. Mgr.
Martin Shepro, Pur. Agt.
Joseph Dyer, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 3-Hydrapulpers. Screens: 2-Finckh, 2-Selectrifier, 1 Trimbey. Refiners: 1 Morden, 2 Claflin, 3 Lascopener. Jordans: 4. Consistency Regulators: 4 Foxboro, 4 Poiner, Deckers: 5-Bird.
Paper Machines. Yankee Fourdrinier 102" Width 96' Trim 2000 fpm.
Yankee Fourdrinier 86" Width 80' Trim 2000 fpm
Yankee Fourdrinier 114" Width 108" Trim 2000 fpm
Yankee Fourdrinier 102" Width 96' Trim 2000 fpm
Dryers. Hi-Velocity: 4. Yankee: 4-8' dia. Reels: 4 automatic. Winders: 4 Cameron..
Finishing Plant. Rewinders: 3

Steam/Power. Power Boilers: 2. Fuel: Oil. Steam, lbs hr.: 110,000. Press.: 250/160.
Electricity: Freq, phase: 440/220v,60, 3. Installed H.P. 4000. Purchased: 100%.

Water Treatment. Daily Usage, 600. M.g.p.d. Source: River, Well.

Products. Facial and toilet tissue, cellulose wadding, interleaving, twisting, creping, surgical wadding, tissue specialties (silver, cleansing, colored), 100 tons daily.

WORONOCO

Strathmore Paper Co. Div. of Hammermill Paper Co.

Tel: 413-736-8301
Hwys: US Rte # 20.
Donale W. Bush, Supt. No 1 Mill
Bernard J. Czanowski, Supt. No. 2 Mill
Richard F. Matulewicz, Chem.
Merlin J. Smith, Maint Engr

Paper Mill Paper Machines. Equipment listed under West Springfield Mill Fourdrinier

Products. Mill No. 1: writing, text, cover, papeterie papers. Mill No. 2: Rag specialty, reproduction and bond papers.

MICHIGAN

ADRIAN

★**Simplex Industries, Inc.** Treat Rd.

Headquarters Location. See Executive Offices section for more details.

ALPENA

MHI-00139

Abitibi Corp. 416 Ford Ave.

Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.

W.G Coggan, Mgr
G.E Aasland, Mfg Supt
R.P Stepanski, Hardboard Supt
R.J. Tyler, Mgr Srvcs
W.M. Durdan, Control Supt
O.B Eustis, Quality Control Mgr.
L Keller, Mgr., Fnshg & Shppg
J.L Schrader, Pers Mgr
R.C Keith, Office Mgr
C.O.E Basel, Chief Forester

Woodhandling and Preparation Barkers 2 26" mechanical. Chippers. 1 Avg Daily Use of Peeled Pulpwood 400 cds

Pulp Mill Defibrated Wood Pulp Avg Daily Prod.: 430 tons Continuous Digesters 4 Bauer Grenco
Pulp Processing: Stock Refiners: 9 Bauer disc

Paper Mill Stock Preparation: Pulpers: 1 Jones. Refiners: 5 Bauer pump-thru
Paper Machines 160" Fourdrinier Width 156" Trim
50" Fourdrinier Width 48" Trim
Finishing Plant. Other Eqt. 2 20-deck presses. 1 22-deck press

Steam/Power. Power Boilers 3 Fuel Oil/Gas Steam. lbs hr. 240,000 Press 900
Electricity Purchased 100,000 kwh/day Generated. 200,000 Turbogenerators 1 GE 7500 kva

Water Treatment. Daily Usage. 2,300 M.g.p.d Source River

Effluent Treatment. Primary Treatment Clarifier, settling pond

Products. S1S and S2S hardboard. 350,000,000 sq. ft annually (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St
Tel. 517-354-2131
RR: D&M siding Hwys US Rte # 23 State Rte # 32

Thomas G Fletcher, Pres
Ralph G Fletcher, Vice Pres
R Werner, Sec Pur Agt
A.M Fletcher, Treas
Charles S. White, Gen Mgr
A.J Steber, Gen Supt
D Gouine, Paper Mill Supt
William S. Grimes, Tech Paper Div Mgr
R.J Bowes, Chief Engr
Orville Fleming, Fnshg Supt
John Stretchko, Traffic Mgr
H.S. Granstrom, Sales Mgr

Pulp Mill PAvg Daily Prod.: Batch Digesters: einking 60 tons

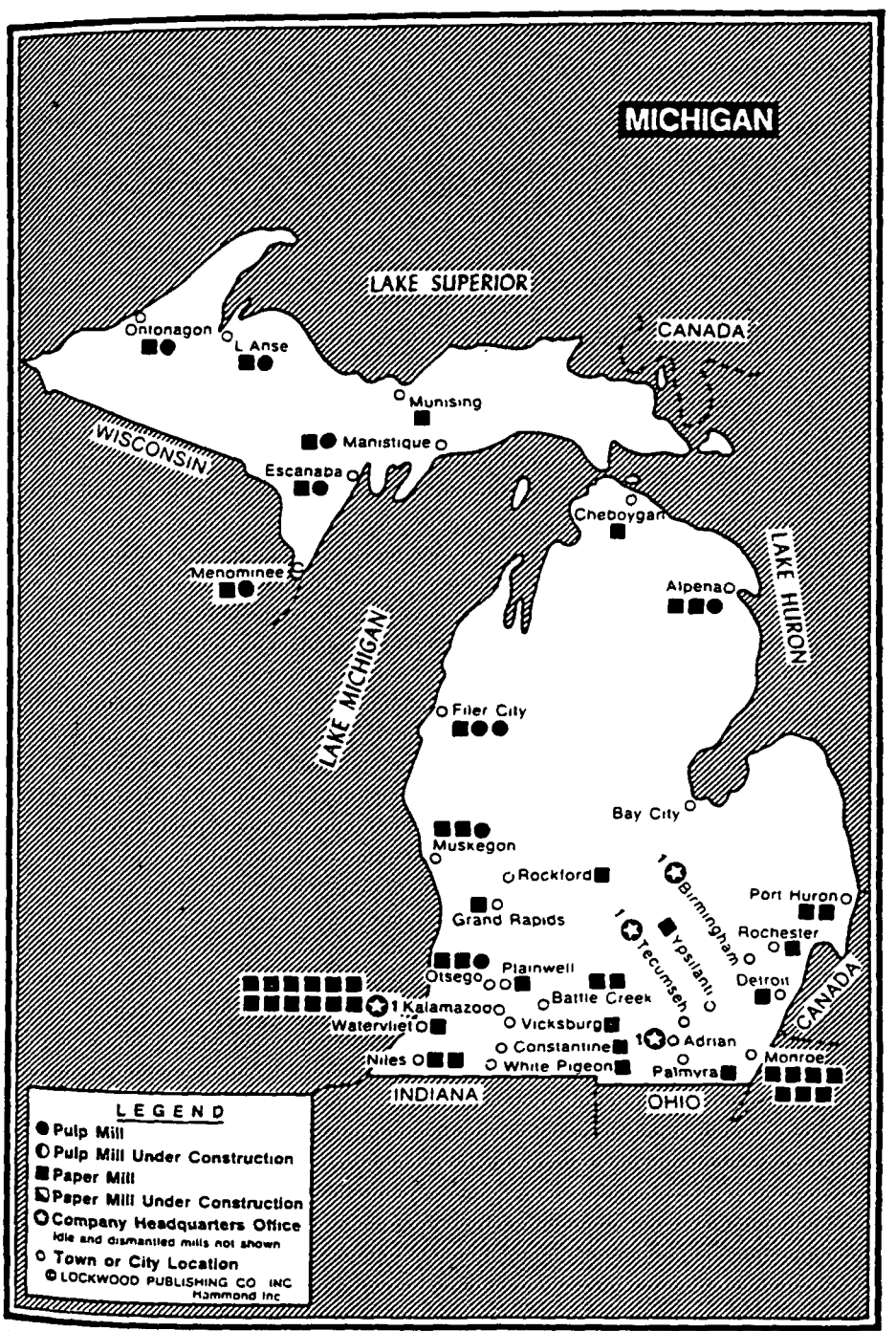
Paper Mill Stock Preparation Pulpers. 3 Hydrapulpers Refiners: 3 conical, 1 disc. Jordans 3 Jones
Paper Machines 112" Fourdrinier Width 100" Trim 750 fpm
112" Fourdrinier Width 100" Trim 1000 fpm
Dryers. Drums 62. Size Presses. 2 Calenders: 2 stacks.
Coaters, off Machine Roll, 1-60" off Machine Trailing Blade, 1060". off Machine. 1-60" Gravure off Machine Cap. Coated Paper, 10 tons
Finishing Plant. Supercalenders: 1-55". Sheeters 1-72", 1-100" Trimmers: 3-65", 72", 85".

Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 100,000. Press.: 450
Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day.

Water Treatment. Daily Usage, 2,500. M.g.p.d Source: River.

Effluent Treatment. Primary Treatment. Clarifiers

Products. Register bond, airmail and cotton fibre bond, absorbent, bible, offset, coated box cover, carbonizing, chart, coating base, duplicator, filter, label, manifold, map, MICR, mimeo, music, onionskin, opaque bond, release, saturating, sensitizing, electrofax, technical, wet strength and writing papers, 65 tons daily



BATTLE CREEK

Michigan Carton Co. 79 E. Fountain St.
Tel. 616-963-5511
RR. PC, GTW siding. Hwys: US Rte # 194, State Rte # 66.
L.G Fell, Chairman
Dan Int-Hout, Jr., Pres
Carlton H. Cameron, Sr. Vice Pres., Mfg.
R.A. Armstrong, Vice Pres., Paperboard Mfg.
Robert G. Pender, Vice Pres., Paperboard Mktg
H.L Chorpening, Vice Pres., Carton Sales
L.J Phillips, Vice Pres., Engrg.
J.L Barclay, Vice Pres., Pur.
N.W. Schmitzer, Vice Pres., Treas
T.A Tiffany, Supt., Fountain St. Mill
L.A. Carlson, Supt., Angell St. Mill
Edwin H Cole, Research Mgr.
C.G. Eckhart, Tech. Dir.
T.W. Daly, Coating Supt.
Earl J. Breen, Carton Div. Supt.
H.G. Hanselman, Mgr., Egg-Cel Div.
J.G McCarthy, Sec., Contr
Verne K. Livingston, Asst. Treas.
D.P Van Dyk, Pur Dir
J.R Vosburgh, Traffic Mgr.
D. Keith Steffee, Ind Rel Mgr.

Paper Mill Stock Preparation: Pulpers: 3-4000 lb. and 3-3000 lb Morden slushmakers; 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb. Beaters. 1-2000 lb broke. Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer Jordans: 15.
Paper Machines. Beloit Eight-Cylinder 130" Trim 1000 fpm
Stevens Formers. 1 seven unit, 120" trim, 750 fpm.1 98" six unit Ultra-Former, 96" trim, 450 fpm.
Dryers. Drums: 283-60", 2 gas infrared. Hi-Velocity: 1. Calenders: 7 stacks, 1 breaker stack.. Coaters, On-Machine. Air Knife, 1-130", 1-98", 1-122". On-Machine. Trailing Blade, 1-130", 1-98", 1-122". On-Machine.2-130" rod.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Coal. Steam, lbs hr.. 240,000.
Electricity: Purchased: 2,500 kwh/day. Generated: 7,500 kwh/day. Turbogenerators: 2-8500 kw/kva

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River

Products. White clay coated, white lined news, solid kraft, kraft lined chip, plain and bending chip, bleached manila lined, manila lined, vat lined boxboards. 450 tons daily.

MHT-00140

GREAT EASTERN
PACKING & PAPER STOCK CORP.
250 Park Avenue, NYC 10017 212-986-7840
615 E. First Ave., Roselle, N. J. 07203 201-245-6511
Station & Halleck Sts., Roxbury, Boston, Mass. 02120 617-427-5720
WASTE PAPER and RAGS of all Descriptions

BIRMINGHAM

★**Abitibi Corp.** 1400 N. Woodward Blvd

Headquarters Location. See Executive Offices section for more details.

CHEBOYGAN

Charmin Paper Products Co. Sub. of Procter & Gamble Co. S. Main St.

Tel: 616-627-5664
RR: D&M siding. Hwys: US Rte # 27.
R. L. Janda, Plant Manager
E. Bruner, Paper Mill Supt.
P. Leege, Plant Engineer

Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Facial and toilet tissue, 100 tons daily.

CONSTANTINE

Simplex Industries, Inc. Centreville Rd.

Tel: 616-435-4285
RR: PC siding. Hwys: US Rte # 131.
Thomas Manion, Paper Mill Mgr.
Ronald Sauer, Plant Engr

Paper Mill Stock Preparation: Pulpers: 2. Screens: 6. Jordans: 6. Other Eqt.: 1 disc filter.
Paper Machines. Six-Cylinder 108" Width 98" Trim

Steam/Power. Power Boilers: Fuel Coal. Press.: 150.
Electricity: Freq, phase: 440v., 60, 3. Purchased: 100%

Products. Chipboard, 50 tons daily.

DETROIT

Scott Paper Co. 9125 W. Jefferson Ave

Tel. 313-842-0042
RR: MC siding
M.F. Schnaufer, Gen. Mgr.
J.S. Brown, Prod Mgr
R.E. Ferguson, Jr., Tech. Dir
Donald Grace, Plant Engr
E.S. Reese, Chief Consumer Rep
R.P. McConkie, Fnshg. Supt.
R.G. Lake, Power Supt.
T.J. Krause, Acctg Mgr.
H B Randolph, Pur Agt.
J.R Hulbert, Plant Traffic Mgr
W.H. Cope, Pers Mgr.
L.H Jewell, Sales Mgr

Pulp Mill Is Dismantled.

Paper Mill Stock Preparation: Pulpers: 4 Morden. Jordans: 10
Paper Machines. 3 Yankee MG. Fourdrinier 132" Width
2 Fourdrinier 136" Width
142" Fourdrinier Width 120" Trim
Dryers Yankee 6..

Steam/Power. Power Boilers: Fuel: Gas.
Electricity: Generated 100%.

Water Treatment. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: City sys.

Products. Toilet, napkin, wiper, waxing, toweling, MG, carbonizing, twisting, bleached and colored tissue papers, 250 tons daily

ESCANABA

Escanaba Paper Co. Sub. of The Mead Corp

Tel: 906-786-1660
RR: C&NW, Soo Line sidings Hwys: US Rte # 2,41. State Rte # 35
R.P Webber, Gen. Mgr.
O.C. Christiansen, Opers.-Mgr.
D.S. Burak, Gwd. Supt
G.C. Eastin, Srvc. Mgr
H.D. Hamilton, Plant Engr.
J.L. Parr, Qual. Assrnce Mgr
J.L. Grettum, Coating Supt.
J.M. Owens, Paper Mach. Supt
W.J. Mulvaney, Prod Control Mgr
D.G. Santavicca, Plant Contr
R.E. Nelson, Pur Mgr
H.J. Vanlerberghe, Traffic Mgr.
R.R. McDonough, Office Mgr
E.S. Beck, Ind. Rel Mgr.
R.E. Schmeling, Woodlands Mgr.

Woodhandling and Preparation Barkers. 2 drum Avg. Daily Use of Peeled Pulpwood: 70 cds swd, 70 cds hwd.

Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 75 tons Bl. Swd., 75 tons Grinders: 12 - 3-Pocket Grinders.
Ground Wood, Refiner. Avg Daily Prod.: Unbl. Hwd., 75 tons Bl. Hwd., 75 tons Refiners: 3 Sprout Waldron 42-1B.
Bleach Plant. Sequence: Gwd: 1-stage.
Pulp Processing: Knotters: 2 Allis Chalmers vibrating. Drainers: 1 Morden, 1 Bauer Helipress. Stock Refiners: 2 - Twin-Flo 26" Sprout-Waldron. Rejects Refiners: 1 Bauer. Screens: 4 - Primary Cowan, 1 - Secondary Cowan, 2 - Bird Centrisorter. Cleaners: 63 - Bauer Centricleaners (606). Deckers: 7 Cowan 48" X 131" gravity, 1 Impco 8' X 16' bleach.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke. Screens: 6 Selectifiers, 2 Centriscreens. Refiners: 7 Claflins, 5 S-W disc. Jordans: 4.
Paper Machines. P.J. Fourdrinier 166" Width 156" Trim 1800 fpm
P.J. Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers. Drums: 54, 46, 64, 60" dia. Size Presses: 2. Calenders: 5 stacks. Reels: 2-Re-reelers, 1 2-drum.
Coaters, On-Machine. Trailing Blade, 2-on 156" machine. On-Machine Cap. Coated Paper, 160 tons
off Machine. Trailing Blade, 2-286", 2-172" for C2S. off Machine. Cap. Coated Paper, 460 tons
Finishing Plant. Supercalenders: 2 - 9 roll - 156" Beloit, 2-11 roll 160" Appleton, 2-9 roll 278" Appleton. Roll Wrapping Eqt: Lamb Grays-Harbor automatic. Rewinders. 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters: 3 - Hamblet Trimmers: 4 Seybold

Steam/Power. Power Boilers: 3 Fuel. Oil/Gas. Steam, lbs hr.: 700,000. Press.: 400/1500.
Electricity: Freq, phase: 60, 3. Installed H.P. 50,000 Generated: 30,000 kwh/day. Hydroelectric: 28,000 kwh/day Turbogenerators: 2,000 kwh/day.

Water Treatment. Daily Usage, 12,000. M.g.p.d. Source. River. Primary Treatment: Activated silica. Secondary Treatment: Sand filters.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment Aeration lagoon

Products. Coated book and publication papers, 600 tons daily

FILER CITY

Packaging Corp. of America

Tel: 616-723-9951
RR: C&O siding Hwys: US Rte # 31.
C.W. Tasker, Vice Pres. & Mgr.

Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers: 6 Impco Chippers: 1-90", 10-knife, 1-96", 15-knife. Chip Screens: 4. Avg. Daily Use of Peeled Pulpwood: 750.

Pulp Mill Kraft. Avg Daily Prod.: 202 tons Batch Digesters: 3 3000 cu.ft.Continuous Digesters: 1 Esco
Semi-Chemical, NSSC. Avg. Daily Prod.: 400 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 multiple-effect. Recovery Boilers. 1 B&W. Lime Kilns: 1. Lime Mud Washers: 2. Recausticizing System: 1.
Bleach Plant. Sequence: C-E-H-E-D.
Pulp Processing: Stock Refiners: 5 Sprout-Waldron.

Paper Mill Stock Preparation Pulpers 3 Refiners 2 Jones disc, 4 Sutherland Jordans 10 Miami
Paper Machines 174" Fourdrinier Width 158" Trim 1000 fpm
174" Fourdrinier Width 160" Trim 1100 fpm
160" Fourdrinier Width 148" Trim 750 fpm
Dryers. Drums 130-60" dia..
Coaters, On-Machine Size Press, 1 On-Machine Air Knife, 1-158" On-Machine Trailing Blade, 1-158".
off Machine 1-80"

Steam/Power. Power Boilers: 4. Fuel: Coal/Oil/Gas Steam, lbs hr. 600,000 Press.: 610
Electricity Purchased: 1500 kw Generated 17,500 kw Turbogenerators. 3-21,875 kva total.

Effluent Treatment. Primary Treatment: Yes.

Products. Corrugating medium, 400 tons daily. Bleached kraft paper and board, 200 tons daily.

GRAND RAPIDS

Packaging Corp. of America 415 Fulton St., E.

Tel: 616-459-4581
Hwys: US Rte # 131. State Rte # 50,21.
W.R. Tobin, Mgr.

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 1 disc. Jordans: 6 Miami.
Paper Machines. Seven-Cylinder 122" Width 112" Trim
Dryers. Drums. 100. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1-120"
Finishing Plant. Sheeters: 1 on machine. Trimmers: 1-72"

Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 150,000
Electricity: Freq, phase: 440v, 60, 3. Generated: 100%. Turbogenerators: 1-3750 kva.

Water Treatment. Daily Usage, 4,500. M.g.p.d. Source: River

Products. Folding and setup boxboards, clay-coated board, test linerboard, 135 tons daily.

KALAMAZOO

Brown Co. Specialty Papers Div. 243 E. Paterson St.

Tel: 616-383-5000
RR: PC, CK & S. siding. Hwys: US Rte # 12,131,194. State Rte # 43.
D.I. MacCalman, Vice Pres, Gen Mgr
C.R. Cooper, Gen. Mgr Sales & Mktg.
A.T. Muha, Gen Mgr Mfg.
W. Hathaway, Gen Supt, Papermaking
F. Yankoviak, Tech. Dir.
D. Chapin, Chief Engr, Mgr. Of Maint.
L. Alrick, Shipping Supt.
A Hamilton, Mgr Paper Cutting
T.G. Scott, Ind. Relations Manager

Paper Mill Stock Preparation: Pulpers: 1-2000 lb. and 2-4000 lb. Morden Slush-cuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 4-2500 lb vortex, 3-2500 lb. Horne, 2-2000 lb. Bertram, 4-2000 lb. and 1-2500 lb. Jones. Refiners: 1-20" Sprout-Waldron disc, 1-400 hp Jones disc. Jordans: 14 Majestic, 11 Fibremaster.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim
P&J Fourdrinier 163" Width 148" Trim
B&S Fourdrinier 165" Width 148" Trim
Beloit Fourdrinier 167" Width 148" Trim
2 Yankee Fourdrinier 139" Width 126" Trim
Dryers. Calenders: 10 stacks..
Coaters, off Machine. Air Knife, 1. off Machine. Roll, 1. off Machine Trailing Blade, 2. off Machine. 1 Solvent
Finishing Plant. Supercalenders: 3. Rewinders: 6. Sheeters: 8 Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Products. Waterleaf, waxing, waxed, vegetable parchment, bond, manifold, offset, wrapping, book publisher's opaque, greeting card parchment, coating base, foil laminating base and MG specialties. Mill #1: 100 tons daily. Mill #2: 250 tons daily

Brown Co. Board Div. 243 E. Paterson St.

Tel: 616-383-5000
RR: PC, CK & S siding. Hwys: US Rte # 12,131,194. State Rte # 43.
Les Spurgeon, Gen. Mgr.
Walter Redmond, Board Supt.
Edward Redmond, Board Supt.
Robert Tardiff, Tech. Dir.

CONSULTING ENGINEERS SERVING THE PAPER INDUSTRY
J·E·SIRRINE COMPANY
GREENVILLE·SOUTH CAROLINA
Established 1902
Investigations, Consultation, Reports, Design, Air and Water Pollution Control, Construction Administration

John Whitehead, Pur Agt
M.E. Lievense Mgr, Transp & Phys Distrib
John Buttje, Traffic Mgr
Marvin Hiatt, Mktg & Sales Mgr

Paper Mill Stock Preparation Pulpers. 9 Hydrapulpers. 1 Morden Slushmaker Beaters: 1 continuous broke Refiners 8 Hydrafiners, 2 Morden stockmakers Jordans 10
Paper Machines seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
#3 being installed
Coaters. On-Machine Air Knife, 2
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan
Extrusion. Coating Material, polyethylene
Finishing Plant Other Eqt 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators

Products. Folding boxboards, machine clay coated, white patent coated news, bleached and single manila lined chip, white and news vat lined chip, solid and news lined chip, plain and bending chip, sulphite lined manila, foil laminating, grease and moisture resistant laminated, polyethylene coated, hot waxed and cold water waxed boards, 300 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div 2425 King Hwy (P. O. Box 2738)

Tel: 616-382-2890
RR: PC, GTW, siding Hwys US Rte # I-94
Frank Hamilton Res Mgr
W.R. Noel, Prod Mgr
Vincent D Redmond, Gen Supt., Paper Mills
W.B Morris, Supt. #3 Mill
Rex A. Treece, Tech Dir
Robert W Polderman, Plant Engr
Leon H Mimms, Gen Coating Supt
Donald E. Thornton, Coating Mill Supt
Howard Sheldon, Fnshg Supt
Charles O Beck, Plant Contr
Norman P Hahn, Admin Asst
John P Gideon Pur Agt
John Cutler, Traffic Mgr
Wilson Sawyer, Ind Rels. Mgr

Pulp Mill PAvg. Daily Prod Batch Digesters, einking 80 tons

Paper Mill Stock Preparation: Pulpers: 6 Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb Jordans 14
Paper Machines 133" Fourdrinier Width 120" Trim 550 fpm
142" Fourdrinier Width 130" Trim 750 fpm
100" Fourdrinier Width 90" Trim 550 fpm
116" Fourdrinier Width 105" Trim 500 fpm
167" Fourdrinier Width 156" Trim 800 fpm
180" Fourdrinier Width 167" Trim 1500 fpm
170" Fourdrinier Width 156" Trim 2000 fpm
Dryers. Size Presses 6 tub, 1 press.
Coaters, off Machine Air Knife, 2-80" trim off Machine. Trailing Blade, 1-90" fountain off Machine
Cap. Coated Paper, 114 tons
Finishing Plant Supercalenders, 6-62", 62", 90", 90", 90", 100" Rewinders 4 Sheeters 4 Trimmers: 4

Steam/Power. Power Boilers Fuel. Coal, Steam, lbs hr.: 350,000 Press 450/275
Electricity: Freq, phase 440v, 60, 3 Installed H P 18,500 electric Purchased 4,000 kw Generated 12,000 kw Turbogenerators 4

Water Treatment. Daily Usage, 12,000 M g p.d
Source: River
Effluent Treatment. Primary Treatment. Clarifiers, joint municipal system

Products. Bible, bond, book (antique, bulking, eggshell, EF, MF, supercalendered offset, coated), braille, text cover, box cover, carbonizing, chart, check, duplicator, text, drawing, litho, mimeo, manifold, embossing, envelope greeting card, gumming, heat sealing, hanging, label, ledger, MICR, music, papeterie, playing card, postcard, poster, register bond, salesbook, straw, tablet, tea bag, vellum, watermarked, writing, coated (book dull finish, folding, offset, litho, varnish label, C1S roto). 400 tons daily

Lowthorne Paper Co. Div of Gould Paper Corp King Hwy. (P. O Box 2858)
Tel 616-345-1163 Telex 810-227-2503

RR: Penn Central siding Hwys State Rte # 96
Louis J Slavin, Pres.
Wayne E Kendrick, Vice Pres., Mfg
Philip B Doherty, Gen Supt
C.F. Young, Tech Dir
E.M Betz, Traffic Mgr.

Paper Mill Stock Preparation. Pulpers: 4 Apmew Beaters: 3 Noble & Wood Screens: Bird. Refiners 4 Morden. Jordans: 2 Jones Impenal. Cleaners: Bird Dirtecs. Consistency Regulators: 2 Poirner. Deckers: 2 Bird.
Paper Machines. Beloit Fourdrinier 105" Width 92" Trim 600 fpm
Beloit Fourdrinier 92" Width 82" Trim 600 fpm
Dryers. Drums: 28, 28-42" dia, 1-96" air dryer. Size Presses: 2 on each machine. Calenders: 2 stacks. Reels. 2 vertical Winders: 1 4-drum and 1 2-drum..
Finishing Plant Rewinders: 1-Cameron 52", 1-Langston 108". Sheeters: 1-Clark-Aiken 100" duplex Trimmers: 1-Lawson 110", 2 Seybold 95", 65". Ream Wrapping & Cartoning: Hayssen.

Steam/Power. Power Boilers. 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.. 150
Electricity: Freq, phase: 60, 3 Purchased: 100%.

Water Treatment. Source: Wells. Primary Treatment: Filtration

Effluent Treatment. Primary Treatment: Joint Industry - City Treatment Plant

Products. Machine and air-dried rag and sulphite bond, ledger, index, offset, onionskin, manifold, embossed, translucent master, mimeo, duplicator, vellum, sulphite text and cover, technical, wet strength map and chart, blue print, diazo, rag book, weddings, papeterie, photogelatin papers, 70 tons daily

Minnesota Mining & Mfg. Co. Paper Products Div.

RR: PC siding Hwys State Rte # 96.

Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2. Jordans. 2.
Paper Machines. 103" Fourdrinier Trim

Steam/Power. Power Boilers. Fuel. Coal. Press.: 200
Electricity. Freq, phase 440v, 60, 3 Purchased: 100%

Products. Laboratory and industrial filter, saturating and absorbent papers, 18 tons daily
Paper Mill Is Idle.

National Gypsum Co. 2305 E King Hwy

Tel 616-343-1579
RR: M.C. siding Hwys. US Rte # 12
Richard L. LeGrand, Plant Mgr
J Waber, Mill Supt.
Lee Webster, Maint. Supv
F.B Mack, Steam Supv
D.R Thompson, Office Mgr
Carl Groesbeck, Plant Buyer

Paper Mill Stock Preparation Pulpers: 2 Hydrapulper. Refiners. 3 Sprout Waldron Jordans: 2 Shartle
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers. Drums 110 Calenders. 2 stacks.
Finishing Plant Rewinders 1

Steam/Power. Power Boilers 2 Fuel: Coal Steam, lbs hr., 70,000.
Electricity Purchased. 48,000 kwh/day.

Water Treatment. Daily Usage, 580 M.g.p.d Source: Wells, City

Effluent Treatment. Primary Treatment. 1 Clarifier

Products. Gypsum board liner, 155 tons daily

★**SCM/Allied Paper Inc.** Sub. of SCM Corp 1608 Lake St

Tel 616-345-7131
Headquarters Location See Executive Offices section for more details
RR: PC, GTW sidings. Hwys: US Rte # 194,131. State Rte # 43,96

Steam/Power. Power Boilers: Fuel: Oil/Coal.

Water Treatment. Source: River, Wells

Effluent Treatment. Primary Treatment. 3 clarifier

Products. Adding machine, bible, black, bond (air mail, cotton fibre, sulphite), coated and uncoated book, end leaf, box cover, bristol, carbonizing, coating base, construction, cover, direct process, drawing, duplicator, envelope, foil mounting, folder, gift wrapping, greeting card, gumming, label, ledger, manifold, manila, map, mimeo, offset, onionskin, opaque, papeterie, place mat, post card, poster, register, sensitizing, shelf, tablet, text, vellum, xerographic, antitarnish, bank note, blotting, litho chart, music, pattern, watermark, 450 tons daily Coated electrostatic base, master and specialites 75 tons daily. Coated two sides matte finish book 100 tons daily.

SCM/Allied Paper Inc. Bryant Mill

Kenneth Sweet, Gen. Supt.
C.J. Bos, Mgr, Coating

Pulp Mill PAvg. Daily Prod.: Batch Digesters: einking .150 tons
Bleach Plant. Sequence: 2 stages.

Paper Mill Paper Machines. 137" Fourdrinier Width 126" Trim
137" Fourdrinier Width 126" Trim
141" Fourdrinier Width 127" Trim
154" Fourdrinier Width 142" Trim
164" Fourdrinier Width 152" Trim
Coaters, On-Machine. Roll, 3 single, 1 double 35" to 110". On-Machine. Trailing Blade, 1-126".
Finishing Plant. Supercalenders: 7. Rewinders: 4 Sheeters: 4, 1 Lenox cut-size. Trimmers: 1-84" Smith & Winchester, 44" and 66" Lawson. Ream Wrapping & Cartoning: 2 Hayssen ream wrappers. Other Eqt.: 2-45" Hickok L-disc and 2 Hickok straight ruling machines.

Products. Refer to first listing above.

SCM/Allied Paper Inc. King Mill

Paper Mill Paper Machines. 120" Fourdrinier Width 107" Trim
125" Fourdrinier Width 111" Trim
144" Fourdrinier Width 117" Trim
Vertiformers: 1-136" Width, 130"trim.
Finishing Plant. Rewinders: 3. Sheeters: 4. Trimmers: 5.

Products. Refer to first listing above.
Paper Mill Is Idle.

SCM/Allied Paper Inc. Monarch Mill

Robert Dennany, General Supt.

Paper Mill Paper Machines. 124" Fourdrinier Width 103" Trim
132" Fourdrinier Width 108" Trim
Coaters, off Machine. 2 carton.

Products. Refer to first listing above.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. P. O. Box 86

Tel: 906-524-6101
A. H. Philipp, Plant Manager
R. J. Slattery, Prod. Supt.
L. W. Swanson, General Supt.
B. C. Penokie, Chief Engineer
G. O. Ash, Qual. Control Supv.

Woodhandling and Preparation Chip Handling: Chain, belt conveyors. Chippers: 1 85" Charthage. Chip Screens: 1 three-deck Dillon.

Pulp Mill Defibrated Wood Pulp. Continuous Digesters: 3 Defibrators.
Pulp Processing: Stock Refiners: 3 Asplund disc.

Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers: 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 fpm
Dryers Drums: 450' 8-deck Coe dryer..
Coaters, off Machine. Acrylic coater, Asphalt roll coater

Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day.

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.

Products. Building board, perforated and unperforated tile, other interior finish products, sheathing

SERVING THE PAPER INDUSTRY SINCE 1929
ALVIN H. JOHNSON & CO., INC.
441 LEXINGTON AVE. — NEW YORK, N. Y. 10017 — 212-687-8764
CONSULTING & DESIGNING ENGINEERS
PULP MILLS • PAPER MILLS • DEINKING • WATER & EFFLUENT TREATMENT

and other exterior insulation board products, mineral board products. 270 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. P. O. Box 111

Tel: 906-341-2175

RR: Soo Line sidings Hwys: US Rte # 2.

Frank S. Hoholik, Pres. & Res Mgr.
Leif Christensen, Prod. Mgr
M. Reid, Gen. Supt.
G. Kelley, Chief Engr
L. Ott, Plant Contr
F. Kasun, Pur. Mgr.
O. Schuster, Sales Mgr.

Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds. Mobile Equipment: 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs: 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.

Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl Swd., 90 tons Grinders: 6 Voith magazine.
PAvg. Daily Prod.: Batch Digesters: einking .75 tons
Pulp Processing: Stock Refiners: 1. Screens: 3 Trimbey, 1 Cowan.

Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 165" Fourdrinier Width 154" Trim 2000 fpm
Dryers. Drums: 40-60" dia. Size Presses: 1. Calenders: 1. Reels: 1 Winders: 1 Cameron..

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 75,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day

Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond.

Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily

MENOMINEE

American Can Co. 144 First St

Tel. 906-863-5595

Hwys: US Rte # 41. State Rte # 173.

Jerome C. Marquardt, Mill Mgr
A.S. Suminski, Paper Mill Supt.
Raymond Henchel, Tech. Supt.
Richard G. Hansen, Mill Engr
R. Smith, Prod. Srvcs. Supv.
John A. Gasperi, Cnvtg. Supt.
Charles Brenner, Plant Acct.
Dennis Novicki, Ind. Rel. Supv.

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners 2 Claflin. Jordans: 5.
Paper Machines Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Coaters, On-Machine. Trailing Blade, 1 Rice Barton on food board machine
Finishing Plant Supercalenders: 2. Rewinders: 2

Steam/Power. Power Boilers: Fuel: Coal.
Electricity: Purchased: 1,000 kwh/day. Generated: 4,000 kwh/day Turbogenerators. 2.

Water Treatment. Primary Treatment: Yes.

Products. Food board, waxing tissue, 300 tons daily

Scott Paper Co. 26th St.

Tel: 906-863-2004

RR: C & NW, CM StP & P Hwys: US Rte # 41.

S.J. Lang, Pulp Mill Supt

Woodhandling and Preparation Roundwood Storage Capacity: 6,000 cds. Avg. Daily Use of Peeled Pulpwood 24 cds

Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl Swd., 22 tons Grinders: 4 three-pocket.
Pulp Processing: Rejects Refiners: 1 disc. Screens: 4
Pulp Drying: Wet Machines. 4.

Products. Groundwood pulp, 22 tons daily for own consumption

MONROE

Consolidated Packaging Corp. 921 E. Elm Av (P. O Box 724)

Tel: 313-241-9000

RR: sidings. Hwys: US Rte # 175 State Rte # 56,24A.

George C. Baron, Mgr. Corr Med. & Liner Mill
William Lunsford, Mgr. Boxboard Mill
George Lockwood, Chief Engr.
Louis Jones, Pur. Mgr., Raw Matls.

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers (liner), 7 Hydrapulpers (bxbd), 8 Dynapulpers (bxbd). Beaters: 2 Dilts (liner), 4 Dilts breaker (bxbd). Refiners: 4 (liner), 2 (Corr), 4 (bxbd). Jordans: 8 (liner), 4 (Corr), 20 (bxbd). Other Eqt.: 2 200 tpd. asphalt dispersion sys.
Paper Machines. Liner Eight-Cylinder 124" Width 102" Trim 600 fpm
Liner Seven-Cylinder 140" Width 118" Trim 600 fpm
Bxbd Eight-Cylinder 102" Trim
Bxbd Seven-Cylinder 112" Trim
Bxbd Seven-Cylinder 112" Trim
Corr Fourdrinier 132" Width 115" Trim 1000 fpm
Corr Fourdrinier 96" Width 84" Trim 700 fpm
Dryers. Drums: 754 Size Presses: 2 on Bxbd machines. Calenders: 9 stacks..
Coaters, off Machine. Bxbd. off Machine. Air Knife, 1-72". off Machine. Cap. Coated Board, 450 tons
Finishing Plant. Rewinders: 5 Trimmers: 4-64", 72", 84", 84".

Steam/Power. Power Boilers: 4. Fuel. Coal. Steam, lbs hr.: 150,000. Press.: 250.
Electricity: Freq. phase: 220/440v, 60, 3. Purchased: 200 mkw Generated: 100 mkw. Turbogenerators: 2-1500, 2500 kw/kva.

Water Treatment. Daily Usage, 4,200 M.g.p.d

Effluent Treatment. Primary Treatment: Clarifiers.

Products. Test liner, 300 tons daily; corrugating medium, 200 tons daily; folding boxboard, clay coated boxboard, automobile panel board, resin forming board, pasted boards. 425 tons daily

Time Container Corp. Monroe Div. Sub of Time Industries, Inc. 1151 W Elm Av

Tel. 313-241-3220

RR: C&O siding Hwys: US Rte # 24,175.

James V. LaMarre, Vice Pres, Res Mgr
Robert Richey, Corrugated Prod Mgr
Robert Bert, Mill Supt.
Edward O'Brien, Tech. Dir.
Robert Bedell, Chief Engr.
Charles Robertson, Paster Supt.
Delbert Broughton, Plant Contr
William A Finn, Pur Agt.
Irving Kuklo, Sales Mgr

Paper Mill Stock Preparation Pulpers: 2 Hydrapulper. Refiners: 1 Emerson. Jordans: 10 Shartle
Paper Machines Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110 Calenders. 2 stacks. Winders 1
Finishing Plant Rewinders: 1 Trimmers: 2

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr. 70,000.
Electricity: Purchased: 100%

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River.

Products. Test linerboard, pasted chip, plain chip, single and double lined and solid boxboard, lightweight chip, panel board, 110 tons daily

Union Camp Corp. 1109 E. Elm Ave.

Tel 313-241-7700

RR: PC, Detroit Toledo Shore Line. Hwys. Near US Rte # 175 Approx Mi 1. State Rte # 56.

T.C Owen, Mill Gen. Mgr.
J Fuko, Mill Mgr
J.R VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
A.L. Gordon, Mill Engr
C.E. Davis, Pur Agt
E.L. Kelley, Mill Sales Mgr

Paper Mill Stock Preparation: Pulpers: 1-15' Aplmew Pulper, 3-20' and 1-16' Hydrapulper Screens 21 Selectifier Refiners: 6-32" Bauer 442 disc Jordans: 6 Miami 2A, 2 Emerson 2-OD Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators 4 Bird
Paper Machines B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 00 fpm Trim
Dryers. Drums. 127, 103, and 137-42" dia. Reels: 2 Pope, 1 Upright Winders: 3 two-Drum..

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 200,000 Press.: 600
Fuel: Gal/Oil. Steam, lbs hr.: 70,000. Press.: 175.
Fuel: Coal. Steam, lbs hr.: 70,000. Press.: 175.
Electricity: Freq, phase: 60, 3. Generated: 9850 kwh/day. Turbogenerators: 2-7500 kw, 1000 kw, 1-1000 kw and 1-350 kw diesel generators.

Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: Lake Erie. Primary Treatment: None.

Effluent Treatment. Primary Treatment: 2 50' Clarifiers Secondary Treatment: City Sys.

Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp.

Tel: 906-387-2700

Hwys: State Rte # 28,94.

R.H. Boehm, Mill Mgr.
A.M. Golbke, Paper Mill Supt.
P.A. Haag, Engrg Mgr.
I.F. Murray, Specialties Supt.
R.E. Ranguette, Pers. Srvcs. Mgr.
H.E. Kriekard, Sales Srvc. Supv.

Paper Mill Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 3, 5 saturators.
Finishing Plant Supercalenders: 1-94". Rewinders: 5. Sheeters: 3. Other Eqt.: 1 Embosser, 1 Laminator.

Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, envelope, index bristol, saturating, coated and saturated specialties, 60 tons daily.

MUSKEGON

Bemis Co., Inc. 2850 Lincoln Ave.

Tel: 616-755-1662

RR: GTW siding Hwys: US Rte # 1196. State Rte # 16,31.

J E. Zeller, Gen Manager
R. Berry, Prod Mgr.
P Vanderwerf, Sales Mgr

Paper Mill Stock Preparation: Pulpers: 6.
Paper Machines. Moulding machines..

Products. Molded pulp interior protective packaging, 10 tons daily

S.D. Warren Co. Div of Scott Paper Co. 2400 Lakeshore Dr.

Tel: 616-755-3761 Telex: 510-394-4300

RR: C&O siding Hwys: US Rte # 16,31,196. State Rte # 46

W.H Marra, Res Mgr.
C.S. Russell, Prod. Mgr.
P.J Hinkley, Pulp Mill Supt.
J.W. Decker, Asst. Pulp Mill Supt.
P.S Hanson, Asst. Pulp Mill Supt.
M.E. Gunn, Paper Mill Supt.
D.R. Burling, Asst Paper Mill Supt.
W.L. Pennell, Spec. Paper Mgr.
John S Moran, Tech. Dir.
W.A. Wrase, Chief Engr.
T Boorsma, Mgr. of Maint.
P.S. Leighton, Qual. Control Dir.
W. Sterritt, Coating Supt.
R.H. Roehner, Fnshg/Shppg Supt.
E. Johnson, Steam/Power Supt.
John Lee, Pur. Agt.

MHI-00143

GOTTESMAN & CO., Inc. • MOIST AND DRY GROUNDWOOD
100 PARK AVENUE NEW YORK, N. Y. 10017

D. DeGlopper, Traffic Mgr
P. Schuiteman, Pers Mgr
J.N. Fields, Wood Procurement Mgr.
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Pettibone crane. Flume. 1. Log Handling: Drag & belt conveyors. Chip Handling: Rader pneumatic sys. Sawdust Handling: Rader pneumatic sys Chip Unloaders: Hydraulic truck dumper. Barkers: 1-30 cd./hr Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood: 182 cds swd, 270 cds hwd.
Pulp Mill Kraft. Avg Daily Prod.: Bl. Swd., 84 tons Bl. Hwd., 156 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquid Oxidation System: Champion sys. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4 Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer sys. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.
Paper Mill Stock Preparation: Pulpers: 7 Vokes rotor Hydrapulper. Screens: 5 Selectifiers. Refiners: 5 Claflin. Jordans: 7 Shartle. Cleaners: 5 Bauer Centricleaner sys, three-stage with vacuum rejects. Consistency Regulators 14 DeZurik, 5 Foxboro. Size Cookers. 1 continuous, 8 batch.
Paper Machines Horne Fourdrinier 135" Width 122" Trim 500 fpm
Horne Fourdrinier 110" Width 98" Trim 750 fpm
Rice Barton Fourdrinier 110" Width 98" Trim 750 fpm
Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers Drums: 40,27,27, and 55-48", 69-60" dia. Hi-Velocity 2 Size Presses. 5. Calenders: 6. Reels: 5 Pope. Winders: 5 two-drum..
Coaters, On-Machine. Trailing Blade. 1-163" paddle, 1-222" Invertablade.
off Machine. Air Knife, 1-105". off Machine. Roll, 1-100", 1-62", 1-92". off Machine. 3 Lusterkoter Cast. off Machine. Cap. Coated Paper, 160 tons off Machine. Cap. Coated Board, 30 tons
Finishing Plant. Supercalenders. 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray sys. Rewinders: 2 Cameron, 2 Langston. Sheeters: 11-100" to 112". Trimmers: 5-100" Ream Wrapping & Cartoning: Southworth sys. Strapping Eqt.: Signode sys.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated 19,000 kwh/day Turbogenerators. 3-25,500 kw.
Water Treatment. Daily Usage. 25,000. M.g.p.d. Source: Lake Primary Treatment. Eimco
Effluent Treatment. Primary Treatment. 1-190', Walker clarifier
Products. Machine and cast coated book, litho, text, cover, specialty, papers, 320 tons daily

NILES

French Paper Co. 100 French St (P O. Box 729)
Tel: 616-683-1100
RR: Penn Central siding Hwys: US Rte # 31,12 State Rte # 60,40.
J.E. French, Pres, Treas.
B.R. Bigford, Exec Vice Pres, Sales
T.R. Friedrich, Vice Pres.
R.D. Clark, Vice Pres., Sec.
C.A. Clyde, Paper Mill Supt.
E.T. Lingnowski, Chief Chem.
R.A. Engberg, Chief Engr.
R. Etzcorn, Pur. Agt
R.W Meyers, Traffic Mgr
Paper Mill Stock Preparation: Pulpers 4 Dynapulpers. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Size Presses: 1 size tub Winders: 2..
Finishing Plant. Sheeters: 3
Steam/Power. Power Boilers: Fuel: Coal. Press.: 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 1600 electric, 1600 water.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 60 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St.
Tel: 616-683-4100
RR: Penn Central. Hwys: US Rte # 12,31. State Rte # 60,40.
George T. Lund, Vice Pres., Plant Mgr.
James M. Harcus, Prod. Mgr.
Frederick Higgins, Prod. Mgr.
Lon Blauvelt, Chief Engr.
George Halliwell, Mgr. of Maint.
A.O. Morningstar, Plant Contr.
Earl Stevens, Pur. Mgr.
A.R. Mione, Traffic Mgr.
M.D. Hogerheide, Pers. Mgr.
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Consistency Regulators: 2.
Paper Machines Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers: 1-162" wide, 150" trim, 1000 fpm
Dryers. Drums: 8 and 14 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1 stock, 1 Pope. Winders: 2 Shear-Cut..
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.: 31,000. Press.: 80
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day.
Water Treatment. Daily Usage. 260. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily.

ONTONAGON

Hoerner Waldorf Corp. 115 Lakehore Rd.
Tel: 906-884-4121 Telex: 810-278-9000
RR: Milw., siding. Hwys: US Rte # 45. State Rte # 64.
John E. Hoeft, Vice Pres., Gen. Mgr
K.E. Pickering, Pulp Mill Supt.
E.G. Barradas, Paper Mill Supt.
A. Szaroletta, Steam/Power Supt.
R.L. Fitze, Admin. Asst
M.E. King, Pur Agt.
R.L. Cross, Woodlands Mgr.
Woodhandling and Preparation Roundwood Storage Capacity: 20,000 cds.. Chip Storage Capacity: 50,000 cds Mobile Equipment: 1 Pettibone carry lift, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling. Rader pneumatic. Barkers: 1-30" Beloit mechanical. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray Chip Screens: 2-Tyler. Avg. Daily Use of Peeled Pulpwood. Hwd, 250 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl Hwd., 220 tons Continuous Digesters. 2 Pandia.
Chemical Recovery Plant. Evaporators: 4-Conkey. Recovery Boilers: 1 C-E, 15,000 lbs steam/hr. @ 175 psi.
Pulp Processing: Hot Stock Refiners: 2 American Defibrator. Stock Refiners: 4-36" Sprout Waldron double disc Washers: 2 Swenson.
Paper Mill Stock Preparation: Pulpers: 1-100 ton. Refiners: 3 Bauer 440, 2 Sprout-Waldron pump-through Jordans: 3 Jones Majestic. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1200 fpm
Dryers. Drums: 52 Calenders 1 stack Winders 1
Steam/Power. Power Boilers Fuel Coal/Oil/Gas Steam, lbs hr 250,000 Press 1500
Electricity Freq, phase 60 3 Installed H P 13500. Generated 240,000 kwh/day Turbogenerators: 1 GE, 15,000 kw
Water Treatment. Daily Usage 5,000 M g p d Source Lake Superior Primary Treatment None
Effluent Treatment. Primary Treatment Saveall
Products. Corrugating medium, 250 tons daily

OTSEGO

Mead Corp. Mead Paperboard Products Div P. O Box 187
Tel: 616-692-6211 Telex. 810-277-7240
RR: PC siding Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89
R.W. Neal, Mill Mgr
Robert Quinlan, Mill Supt
Alan MacNair, Tech. Dir
Fritz G. Schmid, Mill Engr
Ronald Clawson, Maint. Supv
Ira Johnson, Shipping Foreman
Howard J Klein, Cnvtg. Supt
D.T. Jeanmougin, Plant Contr
C.R. Cushman, Pur Agt.
H. Harrison Kindig, Pers. Mgr.
T.A. Olsen, Sales Mgr
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 2 Hydrapulpers Beaters: 2-1500 lb. Screens: 8. Refiners: 1 Bauer double disc Jordans: 9 Cleaners: 1 200 tpd. sys. with asphalt dispersion unit.
Paper Machines. Eight-Cylinder 142" Width 129" Trim
Dryers. Drums 164 Calenders: 2..
Coaters, On-Machine. Air Knife, 1 On-Machine Roll, 1.
Finishing Plant. Rewinders: 1. Sheeters. 3 Milwaukee cut-size Trimmers: 2 Seybold, 65" & 95". Strapping Eqt.: 20,000# Signode strapping station. Other Eqt. 1-84" Manchester Laminator, 2 to 5 ply.
Steam/Power. Power Boilers: Fuel: Gas/oil. Steam, lbs hr. 100,000 Press.: 300
Fuel: Gas/oil Steam, lbs hr.: 125,000. Press.: 875.
Electricity: Freq, phase: 60,3. Installed H.P 8000. Purchased: 1000 kwh/day Generated: 3500 kwh/day Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage, 2,000 M.g.p d. Source: Wells Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.
Effluent Treatment. Primary Treatment: clarifier. Secondary Treatment: lagoon.
Products. Plain and bending chip, vat-lined, filled and solid news, white vat lined, single manila lined, jute lined, mist gray, pasted, machine clay coated and white patent coated boxboards, 170 tons daily.

Menasha Corp. N Farmer St.
Tel: 616-692-6141
RR: PC siding Hwys: US Rte # 131 State Rte # 89
Joseph Cutro, Gen Mgr
Clifford Sage, Jr., Prod Mgr
Kenneth Lowe, Tech. Dir
A. Bickel, Chief Engr
Bernard Budzinski, Maint Supt
David Seiler, Proj. Engr
Walter Boettcher, Power Supt
Lovell Van Fleet, Wood Dept. Supt
G.A. McConney, Admin. Supt.
R.C. Bevendge, Pur. Agt.
John Hanson, Woodlands Mgr
Woodhandling and Preparation Barkers: 1 Chippers: 1 10 knife, 88" Chip Screens: 1. Avg Daily Use of Peeled Pulpwood: Hwd, 150 cds.
Pulp Mill Semi-Chemical, NSSC Avg Daily Prod., Unbl. Hwd., 225 tons Batch Digesters: 4 Rotary.
Pulp Processing. Stock Refiners: 7 Sprout Waldron, 3 Bauer Washers 3 Pressafiners.
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Beaters: 1-2500 lb Noble & Wood. Other Eqt.: 1 Impco disc filter
Paper Machines. 176" Fourdrinier Width 160" Trim 1200
92" Fourdrinier Width 80" Trim 700 fpm
Dryers. Drums: 56..
Steam/Power. Power Boilers. 3. Fuel: Gas. Steam, lbs hr.. 120,000
Electricity: Purchased: 2500 kw. Generated: 4000

MHI-00144

PRINTING, CONVERTING, CARBONIZING AND CARBON PAPERS

PORT HURON PAPER COMPANY
MILLS: PORT HURON, MICHIGAN
SALES OFFICES: RIDGEWOOD, N. J. WILMETTE, ILL.

MG. and MF. LIGHTWEIGHT DENSE, SPECIALTY PAPERS

kw. Turbogenerators: 1-4000 kw/kva.
Effluent Treatment. Primary Treatment: Submerged combustion. Secondary Treatment: Settling ponds.
Products. NSSC corrugating medium, 300 tons daily.

PALMYRA

Simplex Industries, Inc.

Tel: 313-265-5174
RR: PC siding. Hwys: US Rte # 223.
Charles R. Ehinger, Mill Mgr.
Leon Maloney, Supt.
R.W. Rehm, Chief Engr.
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim
2-60", 130" trim wet machines..
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150.
Electricity: Freq. phase: 60, 3. Purchased: 100%.
Products. Binders board, 15 tons daily. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily.

PLAINWELL

Nicolet Paper Co. Plainwell Div. (Plainwell Paper Co., Inc.) 200 Allegan St.

Tel: 616-685-5851
RR: PC siding. Hwys: US Rte # 131,I94. State Rte # 89.
Donald V. Martin, Vice Pres., Mill Mgr.
Edward Kime, Sec-Treas.
James Cole, Mgr. of Mfg.
Edward MacDonald, Mgr Engrg. & Maint.
Robert Beckstrom, Ind. Rel. Mgr
Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters: 2 blending. Refiners: 3 double disc. Jordans: 6. Stock Mixers: 2 blend chests.
Paper Machines. 112" Fourdrinier Width 98" Trim 500 fpm
135" Fourdrinier Width 120" Trim 750 fpm
135" Fourdrinier Width 120" Trim 1000 fpm
Dryers. Size Presses: 3..
Coaters. On-Machine. Trailing Blade, 1-117". On-Machine. Cap. Coated Paper, 70 tons
Finishing Plant. Supercalenders: 3-65", 2-77'. Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 5. Trimmers: 4. Other Eqt.: 1-60" dual roll embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 150,000. Press.: 265.
Electricity: Freq. phase: 60, 3. Purchased: 80,000 kwh/day. Generated: 40,000 kwh/day. Turbogenerators: 2.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond.
Products. Reprographic and photo copy base, direct process, chart, carbonizing, index, bristol, release base, sandpaper backing, release coated, coated and uncoated web and offset, coated and uncoated book, 200 tons daily.

PORT HURON

Dunn Paper Co. Div. of Dennison Mfg. Co. 218 Riverview St.

Tel: 313-984-5521
RR: GTW siding. Hwys: US Rte # I-94 Approx Mi ½ mile.
J.B. Gray, Chmn
Nathaniel G. McLean, Pres.
C.E. Josselyn, Treas.
Thomas E. Gallagher, Mktg. Mgr.
A.C. Crawford, Prod Mgr.
C.L. Burdell, Chief Engineer
D.L. Huyser, Carbonizing Sales Mgr.
D.J. Haines, Asst. Sec. & Treas.
Neil F. Plouff, Pur Agent
Paper Mill Stock Preparation: Pulpers: 5. Refiners: 17. Jordans: 3.
Paper Machines. Beloit-Yankee Fourdrinier 137 Width 124 Trim
Beloit-Yankee Fourdrinier 134 Width 122 Trim
Allis-Chalmers-Yankee Fourdrinier 150 Width 138 Trim 2000
Dryers. Yankee: 2 12', one 18' dia. units. Size Presses: 3. Calenders: 3. Winders: 3..
Finishing Plant. Rewinders: 2.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 40,000. Press.: 600.
Fuel: 2Gas. Steam, lbs hr.: 36,000. Press.: 200.
Electricity: Freq. phase: 60 3. Purchased: 9000 kwh./day.
Products. Papers for Fine Creping, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, One-Time Carbonizing and Other M. G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 105 tons daily

Port Huron Paper Co. Foot of Washington Ave. (PO Box 289)

Tel: 313-982-0191 Telex: 810-231-5252
RR: GTW siding.
G.F. Durand, Chairman
F.B. McFarland, Pres. & C.E.O.
C.R. Roglitz, Sr. Vice Pres.
George F. Bajis, Vice Pres., Dir. of Pur.
L.M. Sturdevant, Sec., Asst. Treas.
R.S. Smeltzer, Treas., Chief Fin. Ofcr
R.W. Durand, Mgr., Paper Div.
Egil R. Aschim, Paper Mill Supt.
J.F. McFall, Asst. Paper Mill Supt.
T.R. Kroll, Asst. Paper Mill Supt.
J.R. Arthur, Tech. Dir.
Thomas C. Noetzel, Chief Engr.
Richard W. Lambrecht, Plant Engr.
W.K. Gilbert, Fin. & Cnvtg Supt.
G.L. Genaw, Supt. Cnvtg Prod.
A.R. Rusee, Contr.
F.W. Phare, Pers. Dir.
Junior Koglin, Traffic Mgr.
C.Q. Fike, Ind. Rels. Dir.
E.G. Donovan, Gen. Sales Mgr.
R.G. Payne, Sales Mgr.
L.F. Thelan, Asst. Sales Mgr.
Paper Mill Stock Preparation: Pulpers: 6. Screens: 10. Refiners: 8. Jordans: 8. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
132" Fourdrinier Width 120" Trim 1200 fpm
184" Fourdrinier Width 160" Trim 1600 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 3. Size Presses: 5. Calenders: 8 stacks. Winders: 5..
Finishing Plant. Rewinders: 2.
Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 14,000. M.g.p.d.
Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, cigarette typing, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, wet strength papers, 115 tons daily.

ROCHESTER

Rochester Paper Co. *Sub. of King-Seeley Thermos Co.* Mill St. (PO Box 185)

Tel: 313-651-8121
RR: G.T. siding. Hwys: US Rte # 10. State Rte # 150.
James Phillips, Gen. Supt.
Dewey Coffelt, Tech. Dir.
William M. Kirkland, Pur. Agt.
R.J. Arsenault, Sales Mgr.-New Products
Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood. 1 Jones Fibremaster.
Paper Machines. 66" Fourdrinier Width 62" Trim
Steam/Power. Power Boilers: Fuel: Oil. Press.: 100. Electricity: Freq. phase: 60, 3. Purchased: 100%.
Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, graph, grinding wheel, impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 20 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd.

Tel: 616-866-1523
RR: PC siding. Hwys: US Rte # 131.
Seymour Rose, Chairman
John Richter, Pres.
Fred Gave, Jr., Vice Pres., Res. Mill Mgr.
Robert L. Rose, Vice Pres., Board Sales
David Fisher, Sec.
Judith Rose, Treas.
M. Weingard, Contr.
Edward W. Gave, Mill Supt.
Ronald Van Dyke, Chief Engr.
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 8. Refiners: 3, 3 Escher Wyss deflakers. Jordans: 7. Cleaners: Escher-Wyss. Consistency Regulators: Escher Wyss. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76' Width 67' Trim
Dryers. Drums: 87-36" dia. Calenders: 3 stacks.
Coaters. On-Machine. Air Knife: 1 Waldron Microjet.
Finishing Plant. Rewinders: 1. Sheeters: 1-72". Trimmers: 2.
Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq. phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva.
Water Treatment. Daily Usage, 900. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 1 Clarifiers with irrigation disposal.
Products. Boxboard: white patent coated, clay coated, chip, news, vat lined, suit, bleached manila, mist gray, lined and solid kraft, food grade, colored specialty, 80 tons daily

TECUMSEH

★***Tecumseh Corrugated Box Co.*** 707 S. Evans St. (PO Box 427)

Headquarters Location. See Executive Offices section for more details.

THREE RIVERS

Rocky River Paper Mill, Inc. *Sub. of Consolidated* Packaging Corp.

Paper Mill Is Dismantled.

VICKSBURG

Simpson Lee Paper Co. Washington St.

Tel: 616-649-0510
RR: PC siding. Hwys: Near US Rte # 131,I194 Approx Mi 6.
Robert G. Millard, Mill Mgr.
Charles E. Gardner, Mfg. Supt.
Raymond Wagner, Tech. Dir.
Stanley Pavlick, Chief Engr.
John Woods, Plant Acct.
John Stroud, Traffic, Pur. Mgr.
Lloyd Campbell, Pers. Mgr.
Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 121" Fourdrinier Width 107

PVDC Coated Papers
nicolet paper company
West De Pere, Wisconsin 54178

Trim 300 fpm
132" Fourdrinier Width 119" Trim 500 fpm
134" Fourdrinier Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife. 1-52'. off Machine. Cap. Coated Paper, 20 tons
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: River, Wells.
Products. Blanking, blueprint, rag and sulphite bond, solid and pasted bristol, carbonless copy, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator guide stock, coated and uncoated label, ledger, mimeo, lamp shade, linen finish, playing card, papeterie, safety, photo mount, photographic base, poster, rag translucent, tracing, reproduction, sugar packet and text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co. Div. of Hammermill Paper Co. 279 Paw Paw Av
Tel: 616-463-3141 Telex: TWX: 810-270-3200
RR: C & O siding. Hwys: US Rte # 194. State Rte # 140
W. Craig McClelland, Div. Mgr.
E. Dale Meahl, Mgr. Mfg.
Sven Tullberg, Paper Mill Supt.
F. Cretors, Tech. Opers. Mgr.
Lees M. Shadduck, Plant Engr.
Victor M. Granada, Mgr Coating Research
M. Stibal, Coating Supt.
R.A. Young, Fnshg. Supt.
John M. Mathews, Matls. Mgr.
F.G. Johnson, Div. Contr.
D.D. McKinney, Pers. Mgr.
D.L. McFall, Sales Mgr.
R.C. Melvin, Mgr. Mktg Srvcs
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 4 Hydradisc. Jordans: 2 Jones.
Paper Machines. 124" Fourdrinier Width 114" Trim 1000 fpm
138" Fourdrinier Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine 4-92", 88", 66", 66".
Finishing Plant. Supercalenders: 4-66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 2 Embossers, 62" and 53".
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000. Press.: 235.
Electricity: Installed H.P. 450 water. Purchased: 100%.
Water Treatment. Daily Usage, 1,250. M.g.p.d. Source: wells.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

Weyerhaeuser Co. Paperboard Div. PO Box 277
Tel: 616-483-7601
RR: PC siding Hwys: US Rte # 12
Arne H. Anderson, Branch Mgr.
R.L. Morgan, Supt
G.K. Timmer, Tech. Dir
T.J. Ewald, Plant Engr.
C. Caverley, Plant Contr.
K.B. Martens, Pur. Agt
R.A. Schaffer, Pers. Mgr.
Newman Drew, Sales Mgr.
Paper Mill Stock Preparation: Pulpers. 6 Hydrapulper. Refiners: 2 Bauer. Jordans: 6 Shartle.
Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm
Seven-Cylinder 122" Width 110" Trim 400 fpm
Dryers. Drums: 156. Calenders: 6..
Coaters, On-Machine Air Knife, 1-92", 1-110" off Machine. 1-78"
Finishing Plant. Supercalenders: 1-78'. Rewinders 1. Sheeters: 3-72". Trimmers: 1-85".
Steam/Power Power Boilers: 2. Fuel: Coal/Oil Steam, lbs hr.. 150,000. Press.: 500.
Electricity: Freq. phase: 60, 3. Generated: 6000 kw. Turbogenerators: 2.
Water Treatment. Daily Usage, 4,500. M.g.p.d Source: River.
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 1 Settling basin.
Products. Single and double patent coated news, clay-coated, single and double manila lined, bending chip, metallic coated boxboards, 200 tons daily

YPSILANTI

Peninsular Paper Co. 1000 N. Huron St.
Tel: 313-482-2600 Telex: 810-223-7004
RR: PC siding. Hwys: US Rte # 194
Harrison P. Quirk, Pres.
Thomas F. Sullivan, Vice Pres. Mfg.
Frank C. Wright, Vice Pres., Sales
Leona Alt, Sec.
K. August, Paper Making Supt.
Glenn F. Touse, Chief Chemist
James Bittinger, Chief Engr.
Robert C. Huston, Fnshg & Shppg Supt.
Dirk Greep, Pur. Agt.
James R. Elliott, Traffic Mgr.
Paper Mill Stock Preparation: Pulpers. 2-2000 lb Hydrapulper Refiners: 1 Morden. Jordans: 2 Jones standard, 1 Jones Imperial. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter Stock Mixers: Lightning agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 57" Trim 65 fpm Width
Dryers. Drums: 52-36" dia. Size Presses: 2. Calenders: 2 stacks. Winders: 2..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 2-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit
Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq. phase: 60, 3. Installed H.P. 3000 Purchased: 2500 kwh/day. Generated: 1000 kwh/day. Hydroelectric: 1000 kwh/day.
Water Treatment. Daily Usage, 2,000. M.g.p.d Source: Wells, River. Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer sys.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Nu-Ply Corp. Midway Dr. (P O. Box 518)
Tel: 218-751-5140,1,2
RR: NP siding Hwys: US Rte # 2,71,371.
Robert W Riley, Vice Pres. Gen Mgr
Archie Gulsvig, Supt.
Richard C. Brown, Plant Engr.
Donovan Gould, Master Mech.
Paul Barthelemy, Sales, Traffic Mgr.
Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.. Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.
Paper Mill Paper Machines Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..
Steam/Power Power Boilers Fuel Oil Steam, lbs hr.: 14,000 Press.: 200
Electricity Freq. phase: 440v, 60, 3 Installed H P 2350 electric. Purchased. 30,000 kwh/day
Water Treatment. Source: City.
Products. Standard panel and tempered hardboard (1/10" to ⅜" thickness) and special types. 85 tons daily

BRAINERD

Northwest Paper Co. Sub of Potlatch Forests, Inc
Tel: 218-829-4741
RR: NP siding Hwys: US Rte # 210,371.
Spencer H Cone, Mill Mgr
Robert V. Hershey, Mgr. Paper Mfg. & Coating
Burdell L. Lower, Mgr., Tech. Srvc
William J. Shepeck, Mgr., Mech. Srvc
Harold N. Pitt, Mgr., Ind. Srvc.
Robert R. Watkins, Mgr., Fnshg/Shppg
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulpers. Refiners: 1 Hydrafiner. Jordans: 2 Emerson, 4 Miami
Paper Machines. 128" Fourdrinier Width 114" Trim 1250 fpm
200" Fourdrinier Width 180" Trim 2000 fpm
Dryers. Drums: 100. Size Presses: 2. Calenders: 3..
Coaters, off Machine. Trailing Blade. 1-114" double.
Finishing Plant. Supercalenders: 2-121". Rewinders: 2. Sheeters: 7. Trimmers: 4.
Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.. 129,000.
Electricity Purchased: 105,000 kwh/day. Generated: 60,000 kwh/day.
Water Treatment. Daily Usage, 3,500. M.g.p.d. Source: River
Products. Bond, duplicator, ledger, MICR, Xerographic, map, book (coated and uncoated) coated and uncoated label, offset, poster, writing, bristol, postcard, index, cover, text, envelope, adding machine, coating base, drawing, gumming lining, papeterie, register, tablet, translucent, greeting card, opaque, mimeoset, C1S book jacket, end leaf, tripurpose, mimeo, litho papers, 225 tons daily

CLOQUET

Conwed Corp. Arch and C Sts.
Tel: 218-879-6771
RR: NP siding. Hwys: Near US Rte # 61 Approx Mi 3. State Rte # 33,45.
J.J. Kozacik, Dir Mfg., Board Products
J.W. King, Dir Mfg., Blanket Products
S.A. Skogland, Asst. Dir. Mfg., Board Products
L.E. Mallory, Asst. Dir' Mfg., Blanket Products
L.E. Carlson, Supt., Board Mill
R.W. Bohren, Supt., Tufflex Mill B
R.R. Olson, Supt., Tufflex Mill C
R.G. Eklund, Supt., Fabric Mill
J.M. Hella, Mgr., Process Control
A.M. Crewson, Mgr., Plant Engrg. & Srvcs.
H.P. Wagtskjold, Mgr., Mech. Engrg. & Constr.
A.W. Heino, Mgr., Mech. Srvcs.
J.S. Loye, Mgr., Elec. Engrg.
J.A. Manisto, Mgr., Quality Control
W.E. Walsh, Pur Agt.
J.A. Guard, Traffic Mgr.
T.J. English, Jr., Pers Mgr.
Woodhandling and Preparation Chippers: 2.
Pulp Mill Ground Wood, Refiner. Refiners: 6 Defibrators; 4-#410, 1-#185, and 1-#442 Bauer disc; 3-36" Sprout Waldron disc. 1 2-stage stone roll beater.
Defibrated Wood Pulp. Continuous Digesters: 1.
Pulp Processing: Stock Refiners: 1-26" and 1-34" Sprout-Waldron pump through.
Paper Mill Paper Machines. 2 Board Fourdrinier 113" Width 102" Trim
Board Fourdrinier 169" Width 159" Trim
1-114" former and dryer, 110" trim (Balsam Wool Mill). 1-72" and 1-114" formers, 64", 100" trim (Tufflex Mill) 1-80" trim Curlator-Rando feeder and Webber, impregnator, and dryer (Fabrics Mill)..
Coaters, On-Machine. Roll, 2 in board mill.
off Machine 6 spray & curtain in board mill.
Steam/Power. Power Boilers: Fuel: Coal/Gas/Oil. Press.: 275
Electricity Freq. phase: 13,800v, 60, 3. Installed H.P. 34,000 Purchased. 100%.
Water Treatment. Primary Treatment: Yes.
Products. Board mill: Insulation and decorative board, tile, plank, sheathing, roof, 850,000 sq. ft.

MHI-00146

GIOVE COMPANY, INC.
ESTABLISHED 1910
PAPER STOCK — QUALITY PACKING — ALL GRADES
108-20 180 Street, Jamaica, N. Y. 11433 AREA CODE 212 Tel.: 657-5200

Eugene R. Gray, Pres., Treas
William A Lawrence II, Vice Pres
John C McGrail, Asst Treas
Virgil L Powell, Prod Mgr
R. LeBeau, Asst. Prod Mgr
Products. Stereotype dry mats

Hollingsworth & Vose Co. 01472
Tel: 617-448-6321
RR. B&M siding Hwys. US Rte # 40. State Rte # 2A
John Fawcett, Gen Supt
Richard Guimond, Tech. Supt
Alfred E Irelan, Proj Engr
Pulp Mill Specialty (rope, jute, etc.) Batch Digesters. 10 Rotary
Paper Mill Stock Preparation: Pulpers: 1. Beaters: 4-1500 lb, 11-1600 lb Screens. 4 Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines Four-Cylinder 86" Width 75" Trim
1 Fourdrinier 66" Width 60" Trim
Rotoformers: 1-65", 58" trim.
Dryers. Drums: 150. Size Presses: 2. Calenders: 5 stacks..
Finishing Plant. Rewinders: 2 Sheeters: 2. Trimmers: 2.
Steam/Power. Power Boilers. 3. Fuel: Oil. Press.: 150.
Electricity: Freq, phase: 60, 3.
Water Treatment. Daily Usage, 5,000. M.g.p.d Source: River
Effluent Treatment. Primary Treatment: 4 settling basins
Products. Rope, jute, wood fiber, and other industrial specialty, electrical insulating, saturating, absorbent, filter, red rope, heavy duty wallet, tympan, gasket, wet strength and black papers. 35 tons daily

WEST SPRINGFIELD

★**Premoid Corp.** Front St. 01089
Tel 413-736-4554
Headquarters Location. See Executive Offices section for more details.
RR: PC siding Hwys US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4.
Paper Mill Paper Machines. 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant Rewinders 1 Sheeters 1 Other Eqt. 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 18 tons daily

Southworth Co. Front St. 01089
Tel 413-732-5141 Telex 955-484
RR PC siding Hwys US Rte # 91,20.
Phelps Brown, Pres., Treas
Kent Tarrant, Vice Pres Sales
John H Southworth, Vice Pres., Sec.
E Randall Baker, Supt.
Elio Viecelli, Asst Supt.
Paper Mill Stock Preparation Pulpers: 1. Beaters. 1-1200 lb, 4-850 lb Refiners: 1 disc. Jordans. 2
Paper Machines 1 Fourdrinier 85" Width 70" Trim
Dryers Size Presses tub..
Finishing Plant. Supercalenders. 1. Sheeters 3 Trimmers 4.
Products. Rag content bond, ledger, linen, typewriter, onionskin, manuscript cover, writing, watermarked deluxe bond. 12 tons daily.

★**Strathmore Paper Co.** Div of Hammermill Paper Co Front St 01089
Tel 413-568-9111
Headquarters Location. See Executive Offices section for more details
RR. B&M Hwys US Rte # 20
John H McConnell, Supt
Richard F Matulewicz, Chem
Jerome C Smart, Maint Engr
G.W Worden, Fnshg Supt
Pulp Mill Rags Batch Digesters: 3 Rotary
Pulp Processing Washers 12 rag
Paper Mill Stock Preparation. Pulpers: 4. Beaters. 10 Hollander. 2 Bertrams. Refiners. 21. Cleaners. 65 Dirtec, Bauer
Paper Machines. Cylinder: 52" Trim
Cylinder 89" Trim
66" Fourdrinier Width 56" Trim
77" Fourdrinier Width 67" Trim
80" Fourdrinier Width 70" Trim
86" Fourdrinier Width 74" Trim
87" Fourdrinier Width 75" Trim
90" Fourdrinier Width 79" Trim
Finishing Plant. Supercalenders: 2 Norwood. Sheeters. 12. Trimmers: 12. Other Eqt.: Air Dryers: 2.
Products. Bond, writing, vellum, bristol, wedding, typewriter, onionskin, airmail bond, manuscript cover, text, box cover, drawing, jeweler's bristol, lampshade, tag parchment, papetene, steel plate, patent office board, gravure, blueprint, direct process and negative, specialty industrial synthetic papers. 120 tons daily total of Turners Falls, Woronoco and West Springfield mills.

WHEELWRIGHT

Romar Tissue Mills, Inc. Div. of U.S. Industries, Inc. 01094
Tel: 413-477-8811
RR: B & M Hwys: State Rte # 32. Near US Rte # I-90 (Mass Tnpk) Approx Mi 20 north.
Robert Belsky, Pres
David Rose, Exec Vice Pres
Maurice Belsky, Vice Pres., Treas.
Joseph Dyer, Vice Pres. Sales
Thomas O'Brien, Contr
Everett Nicholson, Plant Mgr
Martin Shepro, Matl Mgr
Paper Mill Stock Preparation: Pulpers: 3-Hydrapulpers. Screens: 2-Finckh, 2-Selectifier, 1 Trimbey. Refiners: 1 Morden, 2 Claflin, 3 Lascopener. Jordans: 4 Consistency Regulators: 4 Foxboro, 4 Poirner. Deckers: 5-Bird
Paper Machines. Yankee Fourdrinier 102" Width 96" Trim 2000 fpm
Yankee Fourdrinier 86" Width 80" Trim 2000 fpm
Yankee Fourdrinier 114" Width 108" Trim 2000 fpm
Yankee Fourdrinier 102" Width 96" Trim 2000 fpm
Dryers Hi-Velocity: 4. Yankee: 4-8' dia. Reels: 4 automatic Winders: 4 Cameron..
Finishing Plant. Rewinders: 3.
Steam/Power. Power Boilers: 2. Fuel: Oil. Steam, lbs hr. 110,000 Press.: 250/160
Electricity: Freq, phase: 440/220v,60, 3. Installed H P 4000 Purchased. 100%.
Water Treatment. Daily Usage, 600 M.g.p.d. Source: River, Well
Products. Facial and toilet tissue, cellulose wadding, interleaving, twisting, creping, surgical wadding, tissue specialties (silver, cleansing, colored). 100 tons daily.

WORONOCO

Strathmore Paper Co. Div. of Hammermill Paper Co. 01097
Tel 413-568-9111
RR B&M Hwys. US Rte # 20
Donale W. Bush, Supt. No 1 Mill
Bernard J Czanowski, Supt No. 2 Mill
Thomas E Veratti, Chem
Merlin J. Smith, Maint Engr.
Paper Mill Paper Machines. Equipment listed under West Springfield Mill..
Products. Mill No. 1: writing, text, cover, papetene papers Mill No. 2: Rag specialty, reproduction and bond papers

MICHIGAN

ADRIAN

★**Simplex Industries, Inc.** Treat Rd 49221
Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi Corp. Building Products Div 416 Ford Ave 49707
Tel 517-354-2121
RR Detroit & Mackinac Siding Hwys: US Rte # 23 State Rte # 32
W.G. Coggan, Mill Mgr
P K. De Bruhl, Mfg Mgr
R.R Stepanski, Hardboard Supt
R.J Tyler, Mgr Srvcs
W.M. Durdan, Control Supt.
O.B. Eustis, Quality Control Mgr
L Keller, Mgr., Fnshg. & Shppg
J.L Schrader, Pers. Mgr
R.C. Keith, Office Mgr.
W.C. Lake, Pur Agt
C.O.E. Basel, Chief Forester
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1. Avg. Daily Use of Peeled Pulpwood: 400 cds.
Pulp Mill Defibrated Wood Pulp Avg. Daily Prod. 430 tons Continuous Digesters: 4 Bauer Grenco
Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones. Refiners: 5 Bauer pump-thru.
Paper Machines. 160" Fourdrinier Width 156" Trim
50" Fourdrinier Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses 22-deck press.
Steam/Power. Power Boilers: 3. Fuel: Oil/Gas Steam, lbs hr. 240,000. Press.: 900.
Electricity Purchased. 100,000 kwh/day. Generated. 200,000 Turbogenerators: 1 GE 7500 kw
Water Treatment. Daily Usage, 2,300. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Clarifier settling pond
Products. S1S and S2S hardboard, 350,000,000 sq ft. annually. (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707
Tel: 517-354-2131
RR D&M siding Hwys: US Rte # 23. State Rte # 32
Thomas G Fletcher, Pres.
Ralph G Fletcher, Vice Pres
R Werner, Sec., Pur. Agt.
A.M Fletcher, Treas
Charles S. White, Gen. Mgr
A.J. Steber, Gen. Supt
D. Gouine, Paper Mill Supt.
William S. Grimes, Tech Paper Div. Mgr.
R.J. Bowes, Chief Engr.
Orville Fleming, Fnshg Supt
John Stretchko, Traffic Mgr
H.S. Granstrom, Sales Mgr.
Pulp Mill Deinking Avg Daily Prod.: 60 tons
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Refiners 3 conical, 1 disc. Jordans: 3 Jones
Paper Machines 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1000 fpm
Dryers. Drums 62. Size Presses: 2. Calenders: stacks.
Coaters, off Machine. 1-60" Roll-Blade-Gravure. 10 tpd capacity
Finishing Plant. Supercalenders: 1-55". Sheeters 1-72", 1-100" Trimmers: 3-65", 72", 85".
Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam lbs hr.: 100,000. Press.: 450.
Electricity: Freq, phase: 60, 3. Generated. 72,000 kwh/day
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source. River
Effluent Treatment. Primary Treatment: Clarifier
Products. Register bond, airmail and cotton fiber bond, absorbent, bible, offset, coated box cover, carbonizing, chart, coating base, duplicator, filter, label, manifold, map, MICR, mimeo, music, onionskin, opaque bond, release, saturating, sensitizing, electrofax, technical, wet strength and writing papers, 65 tons daily.

MHI-00147

BATTLE CREEK

Carton Co. 79 E. Fountain St. 49016
Tel: 616-963-5511
RR: PC GTW siding. Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.
D.R. Fall, Chairman
Van Ingen Hout, Jr., Pres
Carton H. Cameron, Sr. Vice Pres., Mfg.
R.A. Armstrong, Vice Pres., Paperboard Mfg
Robert G. Pender, Vice Pres., Paperboard Mktg
L.L. Phillips, Vice Pres., Engrg.
J.T. Barclay, Vice Pres., Pur.
W.C. Schmitzer, Vice Pres., Treas.
J.A. Tillary, Supt., Fountain St. Mill
A.J. Carlson, Supt., Angell St. Mill
Louis H. Cole, Research Mgr.
C.G. Eckhart, Tech. Dir
T.W. Daly, Coating Supt
Earl J. Breen, Carton Div. Supt.
R.W. Ryan, Carton Sales Mgr
J.G. McCarthy, Sec., Contr
Verne K. Livingston, Asst. Treas.
D.P. Van Dyk, Pur Dir
W.D. Chichester, Traffic Mgr
D. Keith Steffee, Ind. Rel. Mgr

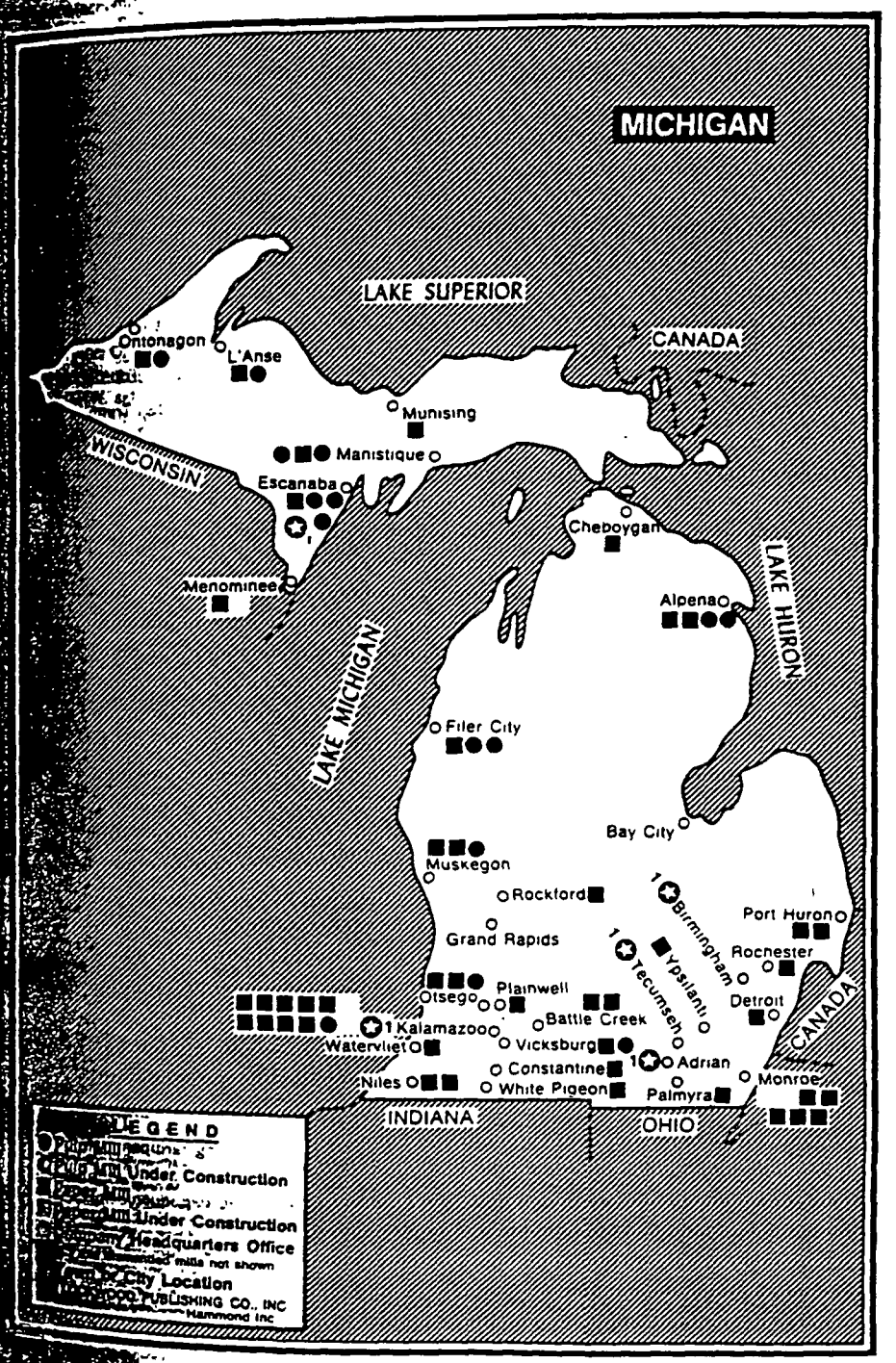
Paper Mill Stock Preparation. Pulpers 3-4000 lb and 3-3000 lb Morden slushmakers, 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb Beaters 1-2000 lb broke Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer. Jordans: 15

Paper Machines. Beloit Eight-Cylinder 130" Trim 1000 fpm
Stevens Formers: 1 seven unit, 120" trim, 750 fpm, 1 98" six unit Ultra-Former, 96" trim, 450 fpm.
Dryers Drums 283-60" 2 gas infrared Hi Velocity 1. Calenders 7 stacks, 1 breaker stack Coaters, On-Machine Air Knife, 1-130", 1-98" 1 122", On-Machine Trailing Blade, 1-130", 1-98" 1-122" On-Machine Rod 2-130"

Steam/Power. Power Boilers 3 Fuel Oil/Gas
Steam, lbs hr., 240,000
Electricity: Purchased, 2,500 kwh/day Generated 7,500 kwh/day Turbogenerators 2-8500 kw/kva.

Water Treatment. Daily Usage, 5,000 M.g.p.d. Source, River.

Products. White clay coated, white lined news, solid kraft, kraft lined chip, plain and bending chip bleached manila lined, manila lined, vat lined boxboards, 450 tons daily



BIRMINGHAM

★**Abitibi Corp. Bldg Products Div** 1400 N. Woodward Blvd 48011

Headquarters Location See Executive Offices section for more details

CHEBOYGAN

Charmin Paper Products Co. Sub. of Procter & Gamble Co. S. Main St 49721

Tel: 616-627-5664
RR: D&M siding. Hwys: US Rte # 27.
H. Bullard, Plant Manager
E. Bruner, Paper Mill Supt
P. Leege, Plant Engineer

Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Facial and toilet tissue, 100 tons daily

CONSTANTINE

Simplex Industries, Inc. Centreville Rd. 49042

Tel. 616-435-4285
RR: PC siding Hwys: US Rte # 131.
Thomas Manion, Paper Mill Mgr.
Ronald Sauer, Plant Engr.

Paper Mill Stock Preparation: Pulpers: 2. Screens: 6. Jordans: 6. Other Eqt.: 1 disc filter
Paper Machines. Six-Cylinder 108" Width 98" Trim

Steam/Power. Power Boilers. Fuel: Coal. Press., 150.
Electricity: Freq. phase: 440v., 60, 3. Purchased 100%.

Products. Chipboard, 50 tons daily.

DETROIT

Scott Paper Co. 9125 W. Jefferson Ave. 48209

Tel: 313-842-0042
RR: Penn Cntrl siding Hwys: US Rte # I-75.
M.F. Schnaufer, Gen. Mgr.
J.S. Brown, Prod Mgr.
T.W. Cosgrove, Tech. Dir.
Donald Grace, Plant Engr
E.S. Reese, Chief Consumer Rep.
R.P. McConkie, Fnshg. Supt.
R.G. Lake, Power Supt.
T.J. Krause, Acctg Mgr.
H.B. Randolph, Pur Agt.
J.R. Hulbert, Plant Traffic Mgr.
W.H. Cope, Pers Mgr.
L.H. Jewell, Sales Mgr.

Paper Mill Stock Preparation: Pulpers. 3 Liebeck, 1 Pulpmaster, 1 Dualator, 2 Slushmaker, 2 Jones, 1 Hymac. Refiners: 5 double disc, 1 Morden. Jordans: 5
Paper Machines. 2 Yankee MG. Fourdrinier 132" Width
1 Yankee Fourdrinier 136" Width
1 Yankee Fourdrinier 142" Width 120" Trim
Dryers. Yankee: 4.

Steam/Power. Power Boilers: Fuel: Gas.
Electricity: Generated: 100%.

Water Treatment. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: City sys.

MHI-00148

GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP

100 PARK AVENUE NEW YORK, N. Y. 10017

Products. Toilet, napkin, wiper, waxing, toweling, MG, carbonizing, twisting, bleached and colored tissue papers, 200 tons daily

ESCANABA

Escanaba Paper Co. Sub of The Mead Corp, Mead Publishing Papers Div 49829

Tel. 906-786-1660

RR: C&NW, Soo Line sidings Hwys. US Rte # 2,41 State Rte # 35

R.P Webber, Vice Pres Mfg

O.C. Christiansen, Opers Mgr

Dudley Grantham, Pulp Mill Supt

G.C. Eastin, Srvc Mgr

H.D Hamilton, Plant Engr.

R.R. Growdon, Mgr Mfg Engrg

A.J. Pelletier, Gen Supt No 1 Mill

J.M Owens, Paper Mach Supt

W.J. Mulvaney, Prod Control Mgr.

D.G. Santavicca, Plant Contr

R.E. Nelson, Pur Mgr

H.J. Vanlerberghe, Traffic Mgr

Lynn S Sandberg, Woodlands Mgr

Woodhandling and Preparation Log Handling: Live decks Chip Handling Rader pneumatic system Barkers. 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW

Pulp Mill Kraft Avg Daily Prod · Bl. Swd., 200 tons Bl. Hwd , 400 tons of which 150-300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each.
Ground Wood, Refiner Avg Daily Prod.: Bl. Hwd., 150 tons Refiners 4 primary, 2 secondary Sprout Waldron 42-1B disc
Chemical Recovery Plant Evaporators: 1 6-effect Swenson. Recovery Boilers 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators. 1 Western Precipitation Lime Kilns 1 Allis-Chalmers Gas Scrubbers. 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers 1 8 x 12' D-O Recausticizing System Dorr-Oliver
Bleach Plant Sequence. Gwd. 1 stage Kraft: C-E-D-E-D Chlorine Dioxide System: Hooker SVP system
Pulp Processing Knotters: Gwd 2 A-C vibrating Kraft SW Hooper centrifugal Drainers Gwd 1 Morden, 1 Bauer Helipress. Hot Stock Refiners Gwd 2-26" S-W Twin-Flo. Stock Refiners: Gwd 1 Bauer Rejects Refiners Gwd 4 primary, 1 secondary Cowan, 2 Bird Centrisorter. Kraft: Bird Centrisorters Screens Gwd: 69-body, 3-stage Bauer 606 Centricleaner Cleaners: Gwd 1-8'x16' Impco bleach. Draft. 3-13/1/2'x24' Impco brown stock, 5-13½'x24' Impco bleach. Washers: Gwd. 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft 1-13½'x24' Impco.
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor.

Paper Mill Stock Preparation Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke Screens: 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans: 4 Cleaners 4-stage Bauer Centricleaner-Deculator sys
Paper Machines. P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers. Size Presses 2 Calenders 2 stacks. Reels 2 Re-reelers
Coaters, off Machine Trailing Blade, 1-286", 2-172" double blade for C2S off Machine Cap Coated Paper, 500 tons
Finishing Plant. Supercalenders 2-278", 9-roll Appleton. Roll Wrapping Eqt., Lamb Grays-Harbor automatic Rewinders 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters 3 - Hamblet Trimmers 4 Seybold

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark Steam, lbs hr · 650,000. Press. 400/1500.
Electricity Freq, phase 60, 3. Installed H.P 75,000 Generated: 50,000 kwh/day Hydroelectric: 2,000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage, 35,000 M.g p.d Source Lake Michigan Primary Treatment Sand filters

Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment Aeration lagoon. Tertiary Treatment: Clarifier

Products. Coated book and publication papers, 600 tons daily

★**Mead Corp, Publishing Papers Div** 623 Ludington St 49829

Headquarters Location. See Executive Offices section for more details.

FILER CITY

Packaging Corp. of America 49634

Tel: 616-723-9951

RR: C&O siding. Hwys: US Rte # 31.

C.W. Tasker, Vice Pres. & Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers: 6 Impco. Chippers: 1-90", 10-knife, 1-96", 15-knife. Chip Screens: 4. Avg. Daily Use of Peeled Pulpwood 750.

Pulp Mill Kraft. Avg Daily Prod.. 202 tons Batch Digesters: 3 3000 cu.ft.Continuous Digesters. 1 Esco.
Semi-Chemical, NSSC Avg Daily Prod.: 400 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant. Evaporators: 1 multiple-effect. Recovery Boilers 1 B&W. Lime Kilns: 1. Lime Mud Washers: 2. Recausticizing System. 1.
Bleach Plant. Sequence C-E-H-E-D
Pulp Processing: Stock Refiners: 5 Sprout-Waldron

Paper Mill Stock Preparation: Pulpers: 3. Refiners 2 Jones disc, 4 Sutherland Jordans: 10 Miami
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1000 fpm
1 Fourdrinier 174" Width 160" Trim 1100 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums. 130-60" dia.
Coaters, On-Machine Size Press, 1. On-Machine Air Knife, 1-158" On-Machine. Trailing Blade, 1-158".
off Machine Air Knife, 1-80"
Finishing Plant. Rewinders 1. Sheeters 4 Trimmers: 3

Steam/Power. Power Boilers: 4. Fuel: Coal/Oil/Gas. Steam, lbs hr.: 600,000 Press.. 610
Electricity: Purchased. 1500 kw Generated: 17,500 kw Turbogenerators 3-21,875 kva total.

Effluent Treatment. Primary Treatment: Yes

Products. Corrugating medium, 400 tons daily Bleached kraft paper and board, 200 tons daily

GRAND RAPIDS

Packaging Corp. of America 415 Fulton St., E. 49502

Tel: 616-459-4581

Hwys: US Rte # 131 State Rte # 50,21

Paper Mill Is Dismantled

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. Sub. of SCM Corp 1608 Lake St. 49003

Tel: 616-345-7131

Headquarters Location. See Executive Offices section for more details

RR: Penn Cntrl sidings. Hwys: US Rte # IS 94, 131 State Rte # 43,96

Steam/Power. Power Boilers Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf, box cover, bristol, carbonizing, coating base, cover, direct process, drawing duplicator envelope foil mounting, gift wrapping, greeting card gumming, label ledger, manifold, manila map mimeo, offset, opaque, papeterie, place mat, post card, poster, register, sensitizing, shelf, tablet, text, vellum, xerographic, antitarnish, bank note blotting, litho, chart, music, pattern, watermark, 450 tons daily Coated electrostatic base, master and specialites, 75 tons daily Coated two sides matte finish book, 100 tons daily

Allied Paper Inc. Bryant Mill 49003

Kenneth Sweet, Gen Supt.
C.J Bos, Mgr. Coating

Pulp Mill Deinking Avg Daily Prod. Idle

Bleach Plant Sequence: Idle

Paper Mill Paper Machines. 137" Fourdrinier Width 126" Trim
137" Fourdrinier Width 126" Trim
141" Fourdrinier Width 127" Trim
154" Fourdrinier Width 142" Trim
164" Fourdrinier Width 152" Trim
Coaters, On-Machine. Roll, 3 single, 1 double 35" to 110". On-Machine. Trailing Blade, 1-126".
Finishing Plant. Supercalenders: 7. Rewinders. 4. Sheeters: 4, 1 Lenox cut-size. Trimmers 1-84" Smith & Winchester, 44" and 66" Lawson Ream Wrapping & Cartoning: 2 Hayssen ream wrappers.

Products. Refer to first listing above.

Allied Paper Inc. King Mill 49003

Paper Mill Is Dismantled.

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, General Supt.

Paper Mill Paper Machines 1 Fourdrinier 124" Width 103" Trim
1 Fourdrinier 132" Width 108" Trim

Products. Refer to first listing above.

Brown Co. Specialty Papers Div. 243 E. Paterson St. 49007

Tel: 616-383-5000

RR: PC, CK & S, siding. Hwys: US Rte # 12,131,194. State Rte # 43

C.R. Cooper, Vice Pres, Gen Mgr
A.T. Muha, Gen. Mgr, Mfg.
W. Hathaway, Gen. Supt, Papermaking
K Matveia, Mgr Tech Srvc
D. Chapin, Chief Engr, Mgr. Of Maint.
L. Alnck, Shipping Supt.
A. Hamilton, Mgr Parchment Div
J.P. Delanty, Mgr Sales & Mktg
T.G. Scott, Ind Relations Manager

Paper Mill Stock Preparation: Pulpers: 1-2000 lb and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 4-2500 lb vortex, 3-2500 lb. Horne, 2-2000 lb. Bertram, 4-2000 lb and 1-2500 lb. Jones. Refiners: 1-20" Sprout-Waldron disc, 1-400 hp Jones disc. Jordans: 14 Majestic, 11 Fibremaster.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim
P&J Fourdrinier 163" Width 148" Trim
B&S Fourdrinier 165" Width 148" Trim
Beloit Fourdrinier 167" Width 148" Trim
2 Yankee Fourdrinier 139" Width 126" Trim
Dryers. Calenders: 10 stacks..
Coaters, off Machine. Air Knife, 1. off Machine. Roll, 1 off Machine Trailing Blade, 2 off Machine. Solvent 1
Finishing Plant. Supercalenders: 3. Rewinders: 6 Sheeters 8 Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Products. Waterleaf, vegetable parchment, bond, manifold, offset, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorchemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1. 100 tons daily. Mill No. 2: 250 tons daily

Brown Co. Board Div. 243 E. Paterson St. 49007

Tel. 616-383-5000

RR: PC, CK & S siding. Hwys: US Rte # 12,131,194 State Rte # 43.

MHT-00140

THE RUST ENGINEERING COMPANY
ENGINEERS · CONSTRUCTORS

Analytical Reports and Surveys—Engineering—Construction—General Planning—Systems Engineering—Urban and Regional Planning—Environmental Engineering
1130 South 22nd Street, P.O. Box 101
Birmingham, Alabama 35201 (205) 323-6551

Les M Spurgeon, Gen. Mgr
William Aloisi, Board Mfg Mgr
Edward Redmond, Plant Engr
Harold Hoogstein, Tech Dir
Bruce Wagner, Pur Agt.
M.E. Lievense, Mgr. Transp & Phys Distrib
John Bultje, Traffic Mgr
Gordon Dilno, Mktg & Sales Mgr
Thomas Drier, Div Contr

Paper Mill Stock Preparation: Pulpers. 9 Hydrapulpers. 1 Morden Slushmaker Beaters: 1 continuous broke. Refiners: 8 Hydrafiners. 2 Morden stockmakers. Jordans: 10
Paper Machines. seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2.
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan.
Extrusion. Coating Material, polyethylene.
Finishing Plant. Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.
Products. Folding boxboards, machine clay coated, white patent coated news, bleached and single manila lined chip, white and news vat lined chip, solid and news lined chip, plain and bending chip, sulphite lined manila, foil laminating, grease and moisture resistant laminated, polyethylene coated, hot waxed and cold water waxed boards, 300 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (P. O. Box 2738) 49003
Tel: 616-382-2890
RR: PC, GTW, siding. Hwys: US Rte # I-94.
William R Walsh, Res. Mgr.
W.R. Noel, Prod Mgr.
Vincent D. Redmond, Gen. Supt., Paper Mills
W.B. Morris, Supt., # 3 Mill
F Cooper, Mgr Paper Mchne Oper
W.R. Willis, Paper Mchne Supt
D Van Bruggen, Paper Mchne Supt
Rodenck A Perkins, Tech. Dir.
Fred J Shelton, Plant Engr.
A.A. Morris, Mgr Power & Maint
Leon H. Mimms, Gen. Coating Supt.
Donald E. Thornton, Coating Mill Supt.
A Pawloski, Coating Mill Supt
Philip S McKensie, Fnshg. Supt.
Gerald Johnson, Plant Contr.
Norman P Hahn, Admin. Asst.
John P. Gideon, Pur. Agt
James H Cox, Traffic Mgr.
Wilson Sawyer, Ind. Rels. Mgr.
Pulp Mill Deinking Avg. Daily Prod.: 80 tons
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb. Jordans: 14.
Paper Machines 1 Fourdrinier 142" Width 130" Trim 750 fpm
1 Fourdrinier 167" Width 156" Trim 800 fpm
1 Fourdrinier 180" Width 167" Trim 1500 fpm
1 Fourdrinier 170" Width 156" Trim 2000 fpm
Dryers. Size Presses. 1 plus 3 tub..
Coaters, off Machine. 2-90" Air Knife, 1-100" Fountain Blade, coated paper cap. 114 tons daily.
Finishing Plant. Supercalenders: 6-62", 62", 90", 90", 90", 100". Rewinders: 4 Sheeters: 4. Trimmers: 4.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 350,000. Press.. 450/275
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.
Water Treatment. Daily Usage, 8,000. M.g.p.d Source: River.
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system
Products. Bible, bond, book (antique, bulking, eggshell, EF, MF, supercalendered, offset, coated), braille, text, cover, box cover, carbonizing, chart, check, duplicator, text, drawing, litho, mimeo, manifold, embossing, envelope, greeting card, gumming, heat sealing, hanging, label, ledger, MICR, music, papetene, playing card, postcard, poster, register bond, salesbook, straw, tablet, tea bag, vellum, watermarked, writing, coated (book, dull finish, folding, offset, litho, varnish label, C1S roto), 400 tons daily

Hawthorne Paper Co. Div. of Gould Paper Corp King Hwy. (P. O. Box 2858) 49003
Tel: 616-345-1163 Telex: 810-227-2503
RR: Penn Central siding. Hwys: State Rte # 96.
E.M. Nash, Pres.
Wayne E. Kendrick, Vice Pres
W.M. Ryan, Vice Pres Mktg
D Hughes, Gen. Supt.
R Janne, Sales Mgr
E.M. Betz, Traffic Mgr.
J Bergman, Contr
Paper Mill Stock Preparation: Pulpers: 4 Apmew. Beaters: 3 Noble & Wood. Screens: Bird. Refiners: 4 Morden. Jordans: 2 Jones Imperial. Cleaners: Bird Dirtecs. Consistency Regulators: 2 Poirner. Deckers: 2 Bird.
Paper Machines. Beloit Fourdrinier 105" Width 92" Trim 600 fpm
Beloit Fourdrinier 92" Width 82" Trim 600 fpm
Dryers. Drums: 28, 28-42" dia, 1-96" air dryer.
Size Presses: 2 on each machine. Calenders: 2 stacks. Reels: 2 vertical. Winders: 1 4-drum and 1 2-drum..
Finishing Plant. Rewinders: 1-Cameron 52", 1-Langston 108". Sheeters: 1-Clark-Aiken 100" duplex. Trimmers: 1-Lawson 110", 2 Seybold 95", 65". Ream Wrapping & Cartoning: Hayssen.
Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 150.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Source: Wells. Primary Treatment: Filtration.
Effluent Treatment. Primary Treatment: Joint Industry - City Treatment Plant.
Products. Machine and air-dried rag and sulphite bond, ledger, index, offset, onionskin, manifold, embossed, translucent master, mimeo, duplicator, vellum, sulphite text and cover, technical, wet strength map and chart, rag book, weddings, papetene, 50 tons daily.

Minnesota Mining & Mfg. Co. Paper Products Div. 49003
RR: PC siding. Hwys: State Rte # 96
Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 Jordans: 2.
Paper Machines. 1 Fourdrinier 103" Trim
Steam/Power. Power Boilers: Fuel: Coal. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Purchased. 100%.
Products. Laboratory and industrial filter, saturating and absorbent papers, 18 tons daily.
Paper Mill Is Idle.

National Gypsum Co. 2305 E. King Hwy 49099
Tel: 616-343-1579
RR: M.C. siding. Hwys. US Rte # 12
Richard L. LeGrand, Plant Mgr.
J. Waber, Mill Supt.
Lee Webster, Maint. Supv.
F.B. Mack, Steam Supv
D.R Thompson, Office Mgr
Carl Groesbeck, Plant Buyer
Paper Mill Stock Preparation: Pulpers. 2 Hydrapulper. Refiners 3 Sprout Waldron. Jordans: 2 Shartle.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers. Drums: 110 Infrared: 30 Calenders: 2 stacks..
Finishing Plant. Rewinders: 1
Steam/Power. Power Boilers: 2 Fuel: Coal. Steam, lbs hr.: 70,000
Electricity: Purchased 48,000 kwh/day.
Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Gypsum board liner, 155 tons daily.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. P. O. Box 86 49946
Tel: 906-524-6101
A. H Philipp, Plant Manager
R. J. Slattery, Prod. Supt
L. W. Swanson, General Supt
B. C. Penokie, Plant Engr
G. O Ash, Tech Srvc Mgr
Woodhandling and Preparation Chip Handling Chain, belt conveyors. Chippers. 1 85" Charthage Chip Screens: 1 three-deck Dillon
Pulp Mill Defibrated Wood Pulp. Continuous Digesters. 3 Defibrators.
Pulp Processing: Stock Refiners 3 Asplund disc
Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin Consistency Regulators: Brammer type. Deckers 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 fpm
Dryers. Drums: 450' 8-deck Coe dryer..
Coaters, off Machine. Acrylic coater, Asphalt roll coater.
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day
Water Treatment. Daily Usage, 1,000. M.g.p.d Source: Bay.
Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. P. O. Box 111 49854
Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2.
Edward W Petrich, Exec Vice Pres, Res Mgr
Leif Christensen, Vice Pres, Asst Res Mgr
M. Reid, Gen. Supt.
G. Kelley, Chief Engr.
G Bouscher, Maint Supt
L. Ott, Asst Sec-Treas
F. Kasun, Pur. Mgr.
John H Orr, Sales Mgr.
Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds.. Mobile Equipment. 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs: 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl Swd., 90 tons Grinders: 6 Voith magazine
Deinking Avg. Daily Prod.: 75 tons
Pulp Processing. Stock Refiners: 1 Screens: 3 Trimbey, 1 Cowan.
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums: 40-60" dia. Size Presses. 1. Calenders: 1. Reels: 1. Winders: 1 Cameron..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 75,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500 M.g.p.d Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Settling pond.
Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily.

MENOMINEE

American Can Co. 144 First St. 49858
Tel: 906-863-5595
Hwys: US Rte # 41. State Rte # 173.
Jerome C. Marquardt, Mill Mgr.
A.S. Suminski, Paper Mill Supt.
Raymond Henchel, Tech. Supt.
Richard G. Hansen, Mill Engr.
Roy Smith, Prod. Srvcs. Supv.
John A. Gaspen, Cnvtg. Supt.
Charles Brenner, Plant Acct
Dennis Novicki, Ind. Rel. Supv.
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim

MHI-00150

THE PAPER TIGERS
Howard Zuker Associates / Chicago 60611 / Phone: 312 / 664-5700

Yankee Fourdrinier 136" Width 128" Trim
Coaters. On-Machine Trailing Blade. 1 Rice Barton on food board machine
Finishing Plant Supercalenders: 2 Rewinders. 2
Steam/Power. Power Boilers: Fuel Coal.
Electricity Purchased. 1,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators. 2.
Water Treatment. Primary Treatment: Yes
Products. Food board, waxing tissue, 300 tons daily Waxed paper in rolls and sheets

Scott Paper Co. 26th St 49859
Tel: 906-863-2004
RR. C & NW, CM StP & P. Hwys. US Rte # 41.
Woodhandling and Preparation Roundwood Storage Capacity: 6,000 cds. Avg. Daily Use of Peeled Pulpwood. 24 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 22 tons Grinders 4 three-pocket.
Pulp Processing: Rejects Refiners: 1 disc. Screens: 4.
Pulp Drying: Wet Machines: 4
Pulp Mill Is Idle.
Products. Groundwood pulp, 22 tons daily for own consumption.

MONROE

Consolidated Packaging Corp. 921 E. Elm Av. (P O Box 724) 48161
Tel: 313-241-9000
RR: sidings Hwys: US Rte # 175. State Rte # 56,24A.
George C. Baron, Mgr. Corr Med. & Liner Mill
William Hohns, Gen Mgr Boxboard Mill
George Lockwood, Chief Engr.
Louis Jones, Pur. Mgr., Raw Matls.
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers (liner), 7 Hydrapulpers (bxbd), 8 Dynapulpers (bxbd). Beaters 2 Dilts (liner), 4 Dilts breaker (bxbd). Refiners: 4 (liner), 2 (Corr), 4 (bxbd). Jordans: 8 (liner), 4 (Corr), 20 (bxbd). Other Eqt.: 2 200 tpd asphalt dispersion sys
Paper Machines. Liner Seven-Cylinder 140" Width 118" Trim 600 fpm
Bxbd Eight-Cylinder 102" Trim
Bxbd Seven-Cylinder 112" Trim
Bxbd Seven-Cylinder 112" Trim
Corr Fourdrinier 132" Width 115" Trim 1000 fpm
Corr Fourdrinier 96" Width 84" Trim 700 fpm
Dryers. Drums 754. Size Presses: 2 on Bxbd machines. Calenders. 9 stacks..
Coaters, off Machine. Air Knife, 1-72" on bxbd. 450 t.p.d capacity.
Finishing Plant. Rewinders: 5. Trimmers: 4-64", 72", 84", 84"
Steam/Power. Power Boilers: 4. Fuel: Coal. Steam, lbs hr.. 200,000. Press.. 250.
Electricity: Freq, phase: 220/440v, 60, 3 Purchased: 200 mkw Generated. 100 mkw. Turbogenerators. 2-1500, 2500 kw/kva.
Water Treatment. Daily Usage, 2,500. M.g.p.d.
Effluent Treatment. Primary Treatment: Clarifiers
Products. Test liner, 160 tons daily; corrugating medium, 200 tons daily; folding boxboard, clay coated boxboard, automobile panel board, resin forming board, pasted boards, 425 tons daily.

Time Container Corp. Monroe Div. Sub. of Time Industries, Inc. 1151 W Elm Av. 48161
Tel. 313-241-3220
RR C&O siding. Hwys: US Rte # 24,175.
James V. LaMarre, Vice Pres, Res Mgr
Robert Richey, Corrugated Prod. Mgr.
Edward D O'Brien, Paper Mill Supt
Robert Bert, Asst Mill Supt
Brad Sorter, Chief Chemist
Robert Bedell, Chief Engr
Charles Robertson, Paster Supt.
Delbert Broughton, Plant Contr.
William A. Finn, Pur Agt.
Irving Kuklo, Sales Mgr.
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Refiners 1 Emerson. Jordans 10 Shartle
Paper Machines Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers Drums 110. Calenders: 2 stacks. Winders 1..
Finishing Plant Rewinders: 1 Trimmers: 2.
Steam/Power. Power Boilers. Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased. 100%
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River
Products. Test linerboard, pasted chip, plain chip, single and double lined and solid boxboard, lightweight chip, panel board, 110 tons daily.

Union Camp Corp. 1109 E. Elm St (PO Box 588) 48161
Tel. 313-241-7700
RR: PC, Detroit Toledo Shore Line. Hwys: Near US Rte # 175 Approx Mi 1. State Rte # 56.
T.C. Owen, Mill Gen. Mgr.
J. Fuko, Mill Mgr.
J.R. VanSlambrouck, Gen. Supt.
E.J. McCue, Tech. Supt.
A.L. Gordon, Mill Engr.
C.E. Davis, Pur Agt.
E.L. Kelley, Mill Sales Mgr.
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners: 6-32" Bauer 442 disc. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators. 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm Trim
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 2 Pope, 1 Upright. Winders: 3 two-Drum..
Steam/Power. Power Boilers: 1. Fuel: Coal. Steam, lbs hr.: 200,000. Press.: 600.
2. Fuel: Gas/Oil. Steam, lbs hr.: 140,000. Press. 175 psi.
Electricity: Freq, phase: 60, 3. Generated: 9850 kwh/day. Turbogenerators: 2-7500 kw, 1000 kw, 1-1000 kw and 1-350 kw diesel generators.
Water Treatment. Daily Usage, 4,000. M.g.p.d Source: Lake Erie Primary Treatment: None.
Effluent Treatment. Primary Treatment. 2 50' Clarifiers. Secondary Treatment: Municipal Sys
Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp. 49862
Tel 906-387-2700
RR: LS&I Hwys. State Rte # 28,94
R.H. Boehm, Mill Mgr
Paper Mill Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 3, 5 saturators.
Finishing Plant. Supercalenders: 1-94". Rewinders. 5 Sheeters: 3, cap: 60 tpd Other Eqt.. 1 Embosser, 1 Laminator.
Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, envelope, index bristol, saturating, coated and saturated specialties, 78 tons daily.

MUSKEGON

Tekmold Inc 2850 Lincoln Ave 49441
Tel 616-755-1662
RR: GTW siding. Hwys: US Rte # 1196. State Rte # 16,31.
Richard Straus, Pres
R. Berry, Vice Pres Mfg
P Vanderwerf, Vice Pres Sales
Robert Hopper, Contr
Frank Gregory, Sec
Paper Mill Stock Preparation: Pulpers 6
Paper Machines. 4 moulding machines
Products. Molded pulp interior protective packaging. 8 tons daily

S.D. Warren Co. Div of Scott Paper Co 2400 Lakeshore Dr 49443
Tel. 616-755-3761 Telex. 510-394-4300
RR C&O siding Hwys US Rte # 16,31,196 State Rte # 46
W.H Marra, Res Mgr
C.W Van Orman, Prod Mgr
P.J Hinkley, Pulp Mill Supt.
J.W. Decker, Asst. Pulp Mill Supt.
P.S. Hanson, Asst. Pulp Mill Supt.
M.E. Gunn, Paper Mill Supt.
D.R. Burling, Asst. Paper Mill Supt
W.L. Pennell, Spec. Paper Mgr.
John S. Moran, Tech. Dir.
W.A. Wrase, Chief Engr.
T. Boorsma, Mgr. of Maint.
P.S. Leighton, Qual. Control Dir.
W. Sterritt, Coating Supt.
R.H. Roehner, Fnshg/Shppg Supt.
E. Johnson, Steam/Power Supt.
William Holtzclaw, Pur. Agt.
D. DeGlopper, Traffic Mgr.
P. Schuiteman, Ind Rels Mgr
J.N Fields, Wood Procurement Mgr.
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Pettibone crane. Flume: 1. Log Handling: Drag & belt conveyors. Chip Handling. Rader pneumatic sys. Sawdust Handling: Rader pneumatic sys. Chip Unloaders: Hydraulic truck dumper. Barkers: 1-30 cd./hr. Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood: 182 cds swd, 270 cds hwd.
Pulp Mill Kraft. Avg Daily Prod.: Bl. Swd., 84 tons Bl. Hwd., 156 tons of which 100 tons is Market Pulp. Continuous Digesters: 1 Kamyr.
Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquid Oxidation System: Champion sys. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners 1 three-stage Bauer sys. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.
Paper Mill Stock Preparation: Pulpers: 7 Vokes rotor Hydrapulper Screens: 5 Selectifiers. Refiners: 5 Claflin. Jordans: 7 Shartle. Cleaners: 5 Bauer Centricleaner sys, three-stage with vacuum rejects. Consistency Regulators: 14 DeZunk, 5 Foxboro. Size Cookers: 1 continuous, 8 batch.
Paper Machines. Horne Fourdrinier 135" Width 122" Trim 500 fpm
Horne Fourdrinier 110" Width 98" Trim 750 fpm
Rice Barton Fourdrinier 110" Width 98" Trim 750 fpm
Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40,27,27, and 55-48", 69-60" dia. Hi-Velocity. 2 Size Presses: 5. Calenders: 6. Reels: 5 Pope Winders: 5 two-drum..
Coaters, On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
off Machine. Air Knife, 1-105". off Machine. Roll, 1-100", 1-62", 1-92". off Machine. 3 Lusterkoter Cast. off Machine. Cap. Coated Paper, 160 tons off Machine. Cap. Coated Board, 30 tons
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.: D.J. Murray sys. Rewinders: 2 Cameron, 2 Langston. Sheeters: 11-100" to 112". Trimmers: 5-100". Ream Wrapping & Cartoning: Southworth sys. Strapping Eqt.: Signode sys.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated. 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage. 25,000. M.g.p.d.

MHI-00151

Brown & Root, Inc.
Engineers / Constructors / Post Office Box 3
Houston, Texas 77001 / Phone (713) 672-3011
Worldwide consulting, engineering and/or construction services to the Pulp & Paper Industry

Source: Lake Primary Treatment: Eimco
Effluent Treatment. Primary Treatment 1-190', Walker clarifier
Products. Machine and cast coated book, litho, text, cover, specialty, papers, 320 tons daily.

NILES

French Paper Co. 100 French St. (P. O. Box 729) 49120
Tel: 616-683-1100
RR: Penn Central siding Hwys: US Rte # 31,12 State Rte # 60,51.
J.E. French, Pres, Treas
B.R. Bigford, Exec. Vice Pres, Sales
T.R. Friedrich, Vice Pres, Mfg
R.D. Clark, Vice Pres., Sec.
C.A. Clyde, Tech Dir
E.T. Lingnowski, Chief Chem.
R.A. Engberg, Chief Engr.
R. Etzcorn, Pur. Agt.
R.W. Meyers, Traffic Mgr.
Paper Mill Stock Preparation: Pulpers: 4 Dynapulpers. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders. 3..
Finishing Plant. Sheeters: 3. Trimmers. 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal. Press. 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 1600 electric, 1600 water.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 60 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49120
Tel: 616-683-4100
RR: Penn Central. Hwys: US Rte # 12,31. State Rte # 60,40.
George T. Lund, Vice Pres Plant Dir
James M Harcus, Asst Plant Dir
Lon Blauvelt, Chief Engr.
George Halliwell, Mgr of Maint
A.O. Morningstar, Plant Contr.
Earl Stevens, Pur Mgr.
A Seaman, Traffic Mgr
M.D. Hogerheide, Pers. Mgr.
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5 Consistency Regulators: 2.
Paper Machines. Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers. 1-162" wide, 150" trim, 1000 fpm
Dryers. Drums 8 and 14 - 48" dia. Calenders. 1 7-roll, 1-2 roll. Reels: 1 stock, 1 Pope. Winders: 2 Shear-Cut..
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil Steam, lbs hr.: 31,000. Press.: 80.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased 32,000 kwh/day
Water Treatment. Daily Usage, 260 M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily

ONTONAGON

Hoerner Waldorf Corp. 115 Lakehore Rd 49953
Tel: 906-884-4121
RR: Milw., siding. Hwys: US Rte # 45. State Rte # 64.
John E. Hoeft, Vice Pres., Gen. Mgr
K.E. Pickering, Pulp Mill Supt.
E.G. Barradas, Paper Mill Supt.
A. Szaroletta, Steam/Power Supt.
R.L. Fitze, Admin Asst
R.L. Cross, Woodlands Mgr.
Woodhandling and Preparation Roundwood Storage Capacity. 20,000 cds Chip Storage Capacity: 50,000 cds. Mobile Equipment. 1 Pettibone carry lift, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling Rader pneumatic. Barkers 1-30" Beloit mechanical Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens 2-Tyler. Avg. Daily Use of Peeled Pulpwood Hwd. 250 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl Hwd., 220 tons Continuous Digesters. 2 Pandia
Chemical Recovery Plant. Evaporators: 4-Conkey. Recovery Boilers. 1 C-E, 15,000 lbs steam/hr. @ 175 psi.
Pulp Processing Hot Stock Refiners: 2 American Defibrator. Stock Refiners. 4-36" Sprout Waldron double disc. Washers 2 Swenson.
Paper Mill Stock Preparation: Pulpers: 1-100 ton. Refiners. 3 Bauer 440, 2 Sprout-Waldron pump-through. Jordans: 3 Jones Majestic. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines P&J Fourdrinier 177" Width 162" Trim 1200 fpm
Dryers. Drums: 52. Calenders: 1 stack. Winders: 1..
Steam/Power. Power Boilers: Fuel: Coal/Oil/Gas. Steam, lbs hr.: 250,000. Press.: 1500.
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Generated. 240,000 kwh/day. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall.
Products. Corrugating medium, 275 tons daily.

OTSEGO

Mead Corp, Paperboard Products Div P. O. Box 187 49078
Tel: 616-692-6211 Telex: 810-277-7240
RR: PC siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
Robert J Quinlan, Mill Mgr.
Fritz G Schmid, Gen Supt
Ray W Peters, Mill Engr
Ronald Clawson, Maint Supv.
Ira E Johnson, Shipping Foreman
Howard J Klein, Cnvtg. Supt.
Linwood H Jennings, Plant Contr.
Charles E Cushman, Pur. Agt.
H.H Kindig, Pers Mgr
Ted A Olsen, Sales Mgr.
Paper Mill Stock Preparation: Pulpers. 1-3000 lb Morden Slushmaker, 2 Hydrapulpers. Beaters: 2-1500 lb. Screens: 8. Refiners. 1 Bauer double disc. Jordans: 9. Cleaners 1 200 tpd. sys. with asphalt dispersion unit
Paper Machines. Eight-Cylinder 142" Width 129" Trim
Dryers. Drums: 164. Calenders. 2..
Coaters, On-Machine Air Knife, 1. On-Machine. Roll, 1
Steam/Power. Power Boilers 2. Fuel Gas/Oil. Steam, lbs hr.. 225,000. Press.: 875/300 psi.
Electricity Freq, phase: 60,3. Installed H.P. 8000. Purchased 1000 kwh/day. Generated: 3500 kwh/day Turbogenerators. 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage, 2,000 M.g.p.d. Source: Wells. Primary Treatment: Chlorination. Secondary Treatment, Iron stabilization.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: lagoon.
Products. Plain and bending chip, vat-lined, filled and solid news, white vat lined, single manila lined, jute lined, mist gray, pasted, machine clay coated and white patent coated boxboards, 170 tons daily.

Menasha Corp. N Farmer St 49078
Tel. 616-692-6141
RR. PC siding. Hwys: US Rte # 131. State Rte # 89.
Joseph Cutro, Gen. Mgr
Clifford Sage, Jr., Prod Supt
Lester Philips, Asst Supt
Kenneth Lowe, Tech Mgr
A Bickel, Chief Engr
Bernard Budzinski, Maint. Supt
David Seiler, Proj Engr
Walter Boettcher, Power Supt
Lovell Van Fleet, Wood Room Foreman
G.A. McConney, Admin Supt
R.C Bevendge Pur Agt
John Hanson Wood Dept Mgr
Woodhandling and Preparation Barkers 1 Chippers 1 10 knife, 88" Chip Screens 1. Avg Daily Use of Peeled Pulpwood Hwd, 200 cds
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Proc Unbl Hwd, 225 tons Continuous Digesters 1 vertical Asplund Defibrator
Pulp Processing: Stock Refiners: 7 Sprout-Waldron
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Other Eqt.: 1 Impco disc filter.
Paper Machines. 1 Fourdrinier 176" Width 160" Trim 1200
1 Fourdrinier 92" Width 80" Trim 700 fpm
Dryers Drums 56..
Steam/Power. Power Boilers: 4. Fuel: Gas. Steam, lbs hr.: 270,000.
Electricity: Purchased: 4000 kw. Generated 4000 kw. Turbogenerators: 1-4000 kw/kva.
Water Treatment. Daily Usage, 1,500. M.g.p.d Source: Wells.
Effluent Treatment. Primary Treatment. Submerged combustion. Secondary Treatment: Aeration ponds.
Products. NSSC corrugating medium, 325 tons daily

PALMYRA

Simplex Industries, Inc. 49268
Tel: 313-265-5174
RR: PC siding. Hwys: US Rte # 223.
Charles R. Ehinger, Mill Mgr.
Leon Maloney, Supt.
R.W. Rehm, Chief Engr.
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc. Jordans: 3 Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim
2-60", 130" trim wet machines..
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150
Electricity. Freq, phase: 60, 3. Purchased: 100%.
Products. Binders board, 15 tons daily. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily.

PLAINWELL

Nicolet Paper Co. Plainwell Div. (Plainwell Paper Co., Inc.) 200 Allegan St. 49080
Tel: 616-685-5851 Telex: TWX: 810-277-4990
RR: PC siding. Hwys: US Rte # 131,194. State Rte # 89
James M Cole, Mill Mgr
J.M. Hayes, Mgr Pdct Devl
Robert Beckstrom, Ind Rels Mgr
C Sue Wolfe, Mill Buyer
Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters. 2 blending. Refiners: 3 double disc. Jordans: 6. Stock Mixers. 2 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 500 fpm
1 Fourdrinier 135" Width 120" Trim 750 fpm
1 Fourdrinier 135" Width 120" Trim 1000 fpm
Dryers. Size Presses: 3..
Coaters, On-Machine. Trailing Blade, 1-117". On-Machine. Cap. Coated Paper, 70 tons
Finishing Plant. Supercalenders: 3-65", 2-77'. Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 5. Trimmers: 4. Other Eqt.: 1-60" dual roll embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.. 150,000. Press.: 265.
Electricity: Freq, phase: 60, 3. Purchased: 80,000 kwh/day. Generated: 40,000 kwh/day. Turbogenerators 2
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond.
Products. Reprographic and photo copy base, direct process, chart, carbonizing, index, bristol, release base, sandpaper backing, release coated, coated

MHI-00152

GOTTESMAN & CO., Inc. • EXPORT WOOD PULP
100 PARK AVENUE NEW YORK, N. Y. 10017

and uncoated web and offset, coated and uncoated book, 200 tons daily.

PORT HURON

Dunn Paper Co. Div. of Dennison Mfg. Co. 218 Riverview St. 48060

Tel 313-984-5521 Telex: TWX: 8102317053
RR GTW siding Hwys. US Rte # I-94 Approx Mi ½ mile
J.B Gray, Chmn
Nathaniel G. McLean, Pres.
C.E. Josselyn, Treas
Thomas E. Gallagher, Gen Sales Mgr
A.C. Crawford, Prod Mgr.
James Ishmael, Tech Dir
C.L. Burdell, Chief Engineer
D.L. Huyser, Carbonizing Sales Mgr.
D.J. Haines, Asst. Sec. & Treas.
Neil F. Plouff, Pur Agent
R.J. Radtke, Contr

Paper Mill Stock Preparation: Pulpers: 7. Refiners: 17. Jordans: 3
Paper Machines Beloit-Yankee Fourdrinier 137" Width 124" Trim
Beloit-Yankee Fourdrinier 134" Width 122" Trim
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim
Dryers. Yankee: 3 12', one 18' dia. units. Size Presses: 4 Calenders: 4. Winders: 4..
Finishing Plant Rewinders: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr. 76,000. Press.: 600/200.
Electricity: Freq, phase: 60 3. Purchased. 11,000 kwh./day

Products. Papers for Fine Creping, Diaper Lining, Impregnating Tissue; Foil Mounting, Twisting, Waxing, Absorbent Tissue, One-Time Carbonizing and Other M G. Bleached, Semi-Bleached and Unbleached Specialties in Jumbo Rolls only. 105 tons daily

Port Huron Paper Co. Foot of Washington Ave. (PO Box 289) 48060

Tel 313-982-0191
RR. GTW siding Hwys: Near US Rte # I-94 Approx Mi 1
Gordon Morseth, Pres. & C.E.O
C.R. Roglitz, Sr. Vice Pres.
E.G. Donovan, Vice Pres Mktg
L.M. Sturdevant, Sec
R.S. Smeltzer, Treas., Chief Fin. Ofcr
R Andrews, Asst Sec
R W Durand, Mgr Mfg
T.R. Kroll, Paper Mill Supt.
G Thompson, Asst. Paper Mill Supt.
H Radigan, Asst. Paper Mill Supt.
J.R. Arthur, Tech. Dir.
Thomas C. Noetzel, Chief Engr.
Richard W. Lambrecht, Plant Engr.
W K. Gilbert, Fin. & Cnvtg Supt.
G.L Genaw, Devl Mgr
A R. Rusee, Contr.
F W Phare, Pers. Dir
Junior Koglin, Traffic Mgr.
R.G Payne, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 6. Screens. 10. Refiners: 8. Jordans: 8. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1600 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 3. Size Presses: 5. Calenders: 8 stacks. Winders: 5..
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 14,000. M.g.p.d.

Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, wet strength papers, 140 tons daily

ROCHESTER

★**Rochester Paper Co.** Sub. of King-Seeley Thermos Co. Mill St. (PO Box 185) 48063

Tel: 313-651-8121
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
William M Kirkland, Plant Mgr
James Phillips, Plant Supt
Dewey Coffelt, Tech. Dir.
A Alachta, Plant Engr
Burton Baily, Mktg Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters, On-Machine.1-62", 20 tons daily cap.
off Machine. 1-36", 12 tons daily cap.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.

Steam/Power. Power Boilers. Fuel: Oil. Press.: 100.
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, graph, grinding wheel, impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 70 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd. 49341

Tel: 616-866-1523
RR: PC siding Hwys US Rte # 131.
Edward W Gave, Mill Supt.
Ronald Van Dyke, Chief Engr.

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 8 Refiners: 3, 3 Escher Wyss deflakers. Jordans 7. Cleaners: Escher-Wyss. Consistency Regulators. Escher Wyss. Other Eqt.: allied clay mixing eqt
Paper Machines Eight-Cylinder 76" Width 67" Trim 315 fpm
Dryers. Drums: 87-36" and 20-42" dia. Calenders 3 stacks.
Coaters, On-Machine Air Knife, 1 Waldron Microjet with 1 Metering Bar precoater.
Finishing Plant. Sheeters: 1-67". Trimmers: 2.

Steam/Power. Power Boilers: 2. Fuel Coal. Steam, lbs hr 50,000 Press.. 135
Electricity: Freq, phase. 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva

Water Treatment. Daily Usage, 900. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.

Products. Boxboard white patent coated, clay coated, chip, news, vat lined, suit, bleached manila, mist gray, lined and solid kraft, food grade, colored specialty, 80 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.** 707 S. Evans St. (PO Box 427) 49286

Headquarters Location. See Executive Offices section for more details

VICKSBURG

Simpson Lee Paper Co Washington St 49097

Tel: 616-649-0510
RR. PC siding. Hwys: Near US Rte # 131.1194 Approx Mi 6
Robert G Millard, Vice Pres. Gen Mgr
Charles Gardner, Mfg. Supt
Raymond Wagner, Tech Dir
Stanley Pavlick, Chief Engr
John Irwin, Plant Acct
John Stroud, Pur Mgr
Lloyd Campbell, Pers. Mgr

Pulp Mill Rags: Batch Digesters 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters. 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 121" Fourdrinier Width 107" Trim 300 fpm
132" Fourdrinier Width 119" Trim 500 fpm
134" Fourdrinier Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4 Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1-52". off Machine Cap. Coated Paper, 20 tons
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin.

Products. Blanking, blueprint, rag and sulphite bond, solid and pasted bristol, carbonless copy, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator guide stock, coated and uncoated label, ledger, mimeo, lamp shade, linen finish, playing card, papetene, safety, photo mount, photographic base, poster, rag translucent, tracing, reproduction, sugar packet, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co. Div of Hammermill Paper Co. 279 Paw Paw Av 49098

Tel: 616-463-3141 Telex. TWX. 810-270-3200
RR. C & O siding Hwys. US Rte # 194. State Rte # 140
W. Craig McClelland, Gen Mgr
E. Dale Meahl, Mgr. Mfg.
Sven Tullberg, Mfg Supt
F Cretors, Mgr Qual Control
Lee M Shadduck, Plant Engr.
M.F. Stibal, Mgr Tech Devl
R A. Young, Fnshg. Supt.
John M. Matthews, Matls Mgr
F.G. Johnson, Div. Contr.
D.D McKinney, Pers Mgr
D.L McFall, Sales Mgr
R C. Melvin, Mgr Tech Sales
R Strasburg, Mgr Mktg Srvcs

Paper Mill Stock Preparation. Pulpers: 3. Refiners: 1 Hydradisc. Jordans. 3 Jones
Paper Machines. 1 Fourdrinier 124" Width 11[illegible] Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: [illegible] Winders: 2..
Coaters, off Machine. Air Knife, 4. 92", 88", [illegible] 66"
Finishing Plant. Supercalenders: 4-66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 2 Embossers 62" and 53".

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam lbs hr.: 90,000 Press.: 235
Electricity. Installed H.P. 450 water. Purchased 100%.

Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

MHI-00153

TOGA PAPER STOCK CO., INC.

75 Chestnut Ridge Rd., Montvale, N. J. 07645 Phone 212-594-5015

WAXED LAMINATED — FOIL LAMINATED

WHITE PIGEON

Weyerhaeuser Co. Paperboard Div PO Box 277 49099

Tel: 616-483-7601 Telex: 616-483-7800
RR: PC siding. Hwys: US Rte # 12.
Arne H. Anderson, Mfg Mgr
R.L. Morgan, Supt.
G.K. Timmer, Tech. Dir.
T.J. Ewald, Plant Engr.
Kenneth A Shane, Plant Contr.
K.B. Martens, Pur. Agt.
R.A. Schaffer, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 6 Hydrapulper. Refiners: 2 Bauer, 1 S-W. Jordans: 6 Shartle.
Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer, 112" trim..
Dryers. Drums: 156. Calenders: 6..
Coaters, On-Machine. Air Knife, 1-92", 1-110".
off Machine. 1-78".
Finishing Plant. Supercalenders: 1-78". Rewinders: 1. Sheeters: 3-72". Trimmers: 1-85".
Steam/Power. Power Boilers: 2. Fuel: Oil. Steam, lbs hr.: 150,000. Press.. 500.
Electricity: Freq, phase: 60, 3. Generated: 6000 kw. Turbogenerators: 2.
Water Treatment. Daily Usage, 4,500. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 1 Settling basin.
Products. Single and double patent coated news, clay-coated, single and double manila lined, bending chip, metallic coated boxboards, 200 tons daily

YPSILANTI

Peninsular Paper Co. 1000 N. Huron St. 48197

Tel: 313-482-2600 Telex: 810-223-7004
RR: PC siding. Hwys: US Rte # 194.
Harrison P. Quirk, Pres.
Thomas F. Sullivan, Vice Pres. Mfg.
Frank L Wright, Vice Pres., Sales
Leona Alt, Sec.
K. Aungst, Paper Making Supt.
Glenn F. Touse, Chief Chemist
James Bittinger, Chief Engr.
Robert C. Huston, Fnshg & Shppg Supt.
Dirk Greep, Pur. Agt.
James R. Elliott, Traffic Mgr.

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners: 1 Morden. Jordans: 2 Jones standard, 1 Jones Impenal. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightning agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 57" Trim 265 fpm
Dryers. Drums: 52-36" dia. Size Presses. 2. Calenders: 2 stacks. Winders. 2..
Finishing Plant. Roll Wrapping Eqt. 1 line. Rewinders: 1-78" Langston. Sheeters: 2-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit.
Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 3000. Purchased: 2500 kwh/day. Generated: 1000 kwh/day. Hydroelectric Generators: 1000 kwh/day.
Water Treatment. Daily Usage, 2,000. M.g.p.d Source: Wells, River. Primary Treatment: yes
Effluent Treatment. Primary Treatment: City sewer sys.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 150 tons daily

MINNESOTA

BEMIDJI

Superwood Corp Nu-Ply Div Midway Dr. (P. O. Box 518) 56601

Tel: 218-751-5140,1,2
RR: NP siding. Hwys: US Rte # 2,71,371.
Robert W Riley, Vice Pres, Gen Mgr
Archie Gulsvig, Supt.
Richard C. Brown, Plant Engr.
Donovan Gould, Master Mech.
Paul Barthelemy, Sales, Traffic Mgr.

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen.

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.

Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..

Steam/Power. Power Boilers: Fuel: Gas (oil standby). Steam, lbs hr.: 14,000. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.

Water Treatment. Source: City.

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, 85 tons daily.

BRAINERD

The Northwest Paper Co. Sub. of Potlatch Forests, Inc. 56401

Tel. 218-829-4741
RR: NP siding. Hwys: US Rte # 210.
Spencer H. Cone, Mill Mgr.
Robert V. Hershey, Mgr. Paper Mfg. & Coating
Burdell L. Lower, Mgr., Tech. Srvc
William J. Shepeck, Mgr., Mech. Srvc
Harold N. Pitt, Mgr., Ind. Srvc.
Robert R. Watkins, Mgr., Fnshg/Shppg

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Refiners: 1 Hydrafiner. Jordans: 3 Emerson, 4 Black Clawson.
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 99. Size Presses: 2. Calenders: 3..
Coaters, off Machine. 1-112" two-station blade.
Finishing Plant. Supercalenders: 2-121". Rewinders 2. Sheeters: 7 Trimmers: 4.

Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.. 129,000.
Electricity: Purchased. 100,000 kwh/day. Generated: 50,000 kwh/day.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.

Products. Bond, duplicator, ledger, MICR, Xerographic, map, book (coated and uncoated) coated and uncoated label, offset, poster, writing, bristol, postcard, index, cover, text, envelope, adding machine, coating base, drawing, gumming lining, papetene, register, tablet, translucent, greeting card, opaque, mimeoset, C1S book jacket, end leaf, tripurpose, mimeo, litho papers, 225 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720

Tel: 218-879-6771 Telex: 910-561-2110
RR: NP siding. Hwys: Near US Rte # 61 Approx Mi 3. State Rte # 33,45.
J.S. Bope, Dir Mfg
J.J. Kozacik, Dir Mfg Tech & Engrg Sup
J.W. King, Dir. Mfg., Blanket Products
E.W. Juntti, Mgr Pdct Devl Opers
L.E. Carlson, Supt., Board Mill
R.W. Bohren, Supt., Tufflex Mill B
R.R. Olson, Supt., Tufflex Mill C
R.G. Eklund, Supt., Fabric Mill
A.M Crewson, Mgr Proc & IE&QC
R.E Sorenson, Mgr Distr Srvcs
W.E. Walsh, Mgr Pur & Traffic
B.M Hayden, Plant Contr
R.J. Ludwig, Mgr Ind Rels

Woodhandling and Preparation Chippers 2

Pulp Mill Ground Wood, Refiner Refiners 6 Defibrators: 4-#410, 1-#185, and 1-#442 Bauer disc 3-36" Sprout Waldron disc, 1 2-stage stone roll beater
Defibrated Wood Pulp Continuous Digesters 1
Pulp Processing: Stock Refiners: 1-26" and 1-34" Sprout-Waldron pump through.

Paper Mill Paper Machines 2 Board Fourdrinier 113" Width 102" Trim
Board Fourdrinier 169" Width 159" Trim
1-114" former and dryer, 110" trim (Balsam Wool Mill). 1-72" and 1-114" formers, 64", 100" trim (Tufflex Mill) 1-80" trim Curlator-Rando feeder and Webber, impregnator, and dryer (Fabrics Mill)
Coaters, On-Machine. Roll, 2 in board mill
off Machine. 6 spray & curtain in board mill

Steam/Power. Power Boilers: Fuel. Coal/Gas/Oil Press.: 275.
Electricity: Freq, phase. 13,800v, 60, 3. Installed H.P. 34,000. Purchased. 100%.

Water Treatment. Primary Treatment: Yes

Products. Board mill: insulation and decorative board, tile, plank, sheathing, roof. Balsam Wool Mill Sealed house insulation. Tufflex Mill: Homogenous wood fiber cushioning and protective padding Fabrics Mill: Non-woven fabrics

★**The Northwest Paper Co.** Sub of Potlatch Forests, Inc. 55720

Tel: 218-879-6784
Headquarters Location. See Executive Offices section for more details
Hwys: State Rte # 33,45.
Edwin F. Erickson, Mill Mgr.
William H. Erickson, Mgr., Pulp Mfg
James W Kovala, Mgr Paper Mfg & Coating
Louis N. Flanders, Mgr., Mfg. Srvc
Robert L. McPhail, Mgr., Prod Plnng.
John D Morrison, Mgr., Info Sys.
Earl J DeRocher, Mgr., Tech. Srvc.
Gerald D. Cran, Mgr., Mech Srvc.
Dwight M. Brower, Mgr., Ind. Srvc.
Charles R. Williams, Mgr., Fnshg/Shppg

Woodhandling and Preparation Roundwood Storage Capacity: 120,000 cds. Barkers: 2 drum. Chippers 1-64", 10 knife; 1-84", 12 knife; 1-96", 15 knife Chip Screens: 3. Avg. Daily Use of Peeled Pulpwood 300 cds swd, 500 cds hwd.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl. Hwd., 125 tons Batch Digesters: 8.
Sulphite, Calcium Base. Avg. Daily Prod.: Bl Swd., 120 tons Batch Digesters 3.
Chemical Recovery Plant. Evaporators: 1 Six-effect Swenson. Recovery Boilers: 1 B&W. Recausticizing System: 1
Acid System (Sulphite). Sulphur Burners: 1. Absorption Towers: 4. Accumulators: 3.
Bleach Plant. Sequence: Pine Kraft: 5 stage. Sulphite & Hwd Kraft: 3 stage.
Pulp Drying: Wet Machines: 4 felted, 1 Impco feltless

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners 8 Jordans: 6.
Paper Machines. 101" Fourdrinier Width 87" Trim 860 fpm
123" Fourdrinier Width 108" Trim 950 fpm
124" Fourdrinier Width 109" Trim 950 fpm
216" Fourdrinier Width 195" Trim 1300 fpm
Dryers. Size Presses: 4..
Coaters, off Machine. Trailing Blade, 1-130"
Finishing Plant Supercalenders. 2-90", 130" Rewinders: 3. Sheeters: 8. Trimmers: 11

Steam/Power. Power Boilers: 7. Fuel: Coal/Gas/Oil Steam, lbs hr.. 350,000
Electricity. Purchased: 257,500 kwh/day. Generated: 168,500 kwh/day

Water Treatment. Daily Usage, 21,000. M.g.p.d Source: River, Lake Superior.

Products. Bond, duplicator, ledger, mimeograph, map, coated and uncoated book, label, poster, writing, bristol, postcard, index, cover, text, opaque, envelope, adding machine, coating base, drawing, gumming, lining, papetenes, register, tablet, translucent, greeting card, MICR, mimeoset, C1S book jacket, end leaf, tripurpose, embossed cover, text, coated, and uncoated offset, litho, web coated and uncoated xerographic papers, 330 tons daily

MHI-00154

PERRY H. KOPLIK & SONS, INC.
654 MADISON AVE. • N.Y.10021 • (212)PL 2-2288
TWX: (710) 581-5392
PAPERSTOCK
Bleached Pulp
Substitutes

patent office board, gravure, blueprint, direct process and negative, specialty industrial synthetic papers. 120 tons daily total of Turners Falls, Woronoco and West Springfield mills

WHEELWRIGHT

Romar Tissue Mills Div. U.S. Industries Inc. (sale of mill pending) 01094

Tel 413-477-8811

RR: B & M Hwys: State Rte # 32. Near US Rte # I-90 (Mass Tnpk. Exit 8) Approx Mi 20 north.

Everett A Nicholson, Res Mgr

Paper Mill Stock Preparation: Pulpers: 3-Hydrapulpers. Screens. 2-Finckh, 2-Selectifier, 1 Trimbey. Refiners: 1 Morden, 2 Claflin, 3 Lascopener. Jordans: 4 Consistency Regulators: 4 Foxboro, 4 Poirier. Deckers: 5-Bird.

Paper Machines. Yankee Fourdrinier 102" Width 96" Trim 1500 fpm

Yankee Fourdrinier 86" Width 80" Trim 1500 fpm

Yankee Fourdrinier 114" Width 108" Trim 1500 fpm

Yankee Fourdrinier 102" Width 96" Trim 1500 fpm

Dryers Hi-Velocity: 4 Yankee. 4-8' dia. Reels: 4 automatic Winders: 4 Cameron..

Finishing Plant. Rewinders. 3.

Steam/Power. Power Boilers: 2. Fuel: Oil. Steam, lbs hr: 110,000 Press.: 250/160.

Electricity: Freq, phase: 440/220v.60, 3. Installed H P 4000. Purchased: 100%

Water Treatment. Daily Usage, 600 M.g p.d Source: River, Well

Products. Facial and toilet tissue, cellulose wadding, interleaving, twisting, creping, surgical wadding, tissue specialties (silver, cleansing, colored), 85 tons daily

Paper Mill is idle.

WORONOCO

Strathmore Paper Co. 01097

Tel 413-568-9111

RR: B&M Hwys US Rte # 20.

Donald W Bush, Supt No. 2 Mill

Bernard J. Czanowski, Supt No 1 Mill

Thomas E Veratti, Chem

Merlin J Smith, Maint Engr

Paper Mill Paper Machines. Equipment listed under West Springfield Mill..

Products. Mill No 1 writing, text, cover, papeterie papers. Mill No. 2: Rag specialty, reproduction and bond papers

MICHIGAN

ADRIAN

★**Simplex Industries, Inc.** Treat Rd 49221

Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi Corp. Building Products Div 416 Ford Ave 49707

Tel 517-354-2121

RR: Detroit & Mackinac Siding Hwys: US Rte # 23 State Rte # 32

W G. Coggan, Mill Mgr

P.K. De Bruhl, Mfg Mgr

R.R. Stepanski, Hardboard Supt.

R.J Tyler, Mgr Srvcs

O.B. Eustis, Control Mgr

A.R. Schultz, Power Plant Supt

C.W. Baldwin, Master Mech

L. Keller, Mgr, Fnshg & Shppg

J.L. Schrader, Pers Mgr

R.C Keith, Office Mgr.

W.C Lake, Pur Agt

J.C Lamy, Woods Mgr

Woodhandling and Preparation Barkers. 2 26" mechanical Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood. 400 cds

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod. 430 tons Batch Digesters: 4 Bauer Rapid-Cycle. Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation: Pulpers: 1 Jones. Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru

Paper Machines. 1 Fourdrinier 160" Width 156" Trim

1 Fourdrinier 50" Width 48" Trim

Finishing Plant. Other Eqt.: 2 20-deck presses, 1 22-deck press.

Steam/Power. Power Boilers. 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.

Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons.

Products. S1S and S2S hardboard, 380 MMsf annually. (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707

Tel: 517-354-2131

RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.

Allen M Fletcher, Pres, Treas

John T Fletcher, Vice Pres.

R. Werner, Sec., Pur. Agt.

Charles S. White, Gen. Mgr.

A.J. Steber, Gen. Supt.

D. Gouin, Paper Mill Supt.

William S. Grimes, Mgr, Tech Pprs

E.J. Grys, Tech Dir

R.J. Bowes, Chief Engr.

Orville Fleming, Fnshg Supt.

John Stretchko, Traffic Mgr.

H.S. Granstrom, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Screens: 2 Selectifier. Refiners: 3 conical, 2 disc. Jordans: 3 Jones.

Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm

1 Fourdrinier 112" Width 100" Trim 1400 fpm

Dryers. Drums: 62. Size Presses: 2. Calenders: 2 stacks. Winders. 2.

Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity.

Finishing Plant Supercalenders. 1-55" Sheeters. 1-72", 1-100". Trimmers: 3-65", 72", 85"

Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 60,000. Press.: 450.

Electricity: Freq, phase: 60, 3. Generated. 72,000 kwh/day

Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment. 1 Clarifier Secondary Treatment: Settling pond.

Products. Register bond, airmail and cotton fibre bond, absorbent, bible, offset, coated box cover, carbonizing, chart, coating base, duplicator, filter, label, manifold, map, MICR, mimeo, music, onionskin, opaque bond, release, saturating, sensitizing, electrofax, technical, wet strength and writing papers, 65 tons daily.

BATTLE CREEK

Michigan Carton Co. 79 E Fountain St. 49016

Tel. 616-963-5511

RR: PC, GTW siding. Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.

L.G. Fell, Chmn

Dan Int-Hout, Jr., Pres.

Carlton H Cameron, Sr. Vice Pres., Mfg

R.A Armstrong, Vice Pres., Paperboard Mfg.

Robert G. Pender, Vice Pres., Natl Accts

L.J. Philipps, Vice Pres., Engrg.

J.L. Barclay, Vice Pres., Plnng & Procurement

N.W. Schmitzer, Vice Pres., Treas.

R.W. Ryan, Vice Pres., Ctn Sales

T A Tiffany, Supt, Fountain St Mill

L A Carlson, Supt Angell St Mill

Edwin H Cole, Research Mgr

C.G Eckhart, Tech Dir

T.W Daly, Coating Supt

Earl J Breen, Carton Div Supt

J.G McCarthy, Sec., Contr

Virginia O Leonard, Asst Sec

Verne K Livingston, Asst Treas

D P Van Dyk, Pur Dir

W D Chichester, Traffic Mgr

D Keith Steffee, Ind Rel Mgr

Paper Mill Stock Preparation Pulpers 3-4000 and 3-3000 lb Morden Slushmaker 1-14 . 3 . and 1-20' Hydrapulpers, 1-3000 lb Beaters 2000 lb broke. Refiners 4 Hydrafiners, 1 Jo DD, 3 Disco, 2 Bauer. Jordans 15

Paper Machines Beloit Eight-Cylinder 130" T 1000 fpm

Stevens Formers. 1 seven unit, 120" trim, 7 fpm

1 six-unit Ultraformer, 98" wide, 96" trim, 4 fpm.

Dryers. Drums: 283-60" Calenders. 7 stacks breaker stack. Hi-Velocity. 2 gas infrared.

Coaters, On-Machine. Air Knife, 1-130", 1-98" 122" On-Machine. Trailing Blade, 1-130", 1-9 1-122" On-Machine.Rod. 2-130"

Steam/Power. Power Boilers: 3 Fuel Oil/G Steam, lbs hr.: 240,000.

Electricity: Purchased. 2,500 kwh/day Generat 7,500 kwh/day. Turbogenerators. 2-85 kw/kva

Water Treatment. Daily Usage, 5,000. M.g.p Source: River

Products. White clay coated, white lined news, sc kraft, kraft lined chip, plain and bending ch bleached manila lined, manila lined, vat lined b boards, 450 tons daily

BIRMINGHAM

★**Abitibi Corp, Bldg Products Div.** 1400 N Wo ward Av 48011

Headquarters Location See Executive Offices sect for more details.

CHEBOYGAN

Charmin Paper Products Co. Sub of Procter & Ga ble Co. S. Main St. 49721

Tel: 616-627-5664

RR: D&M siding. Hwys. US Rte # 27.

H.A. Bullard, Plant Manager

E.G. Bruner, Paper Mill Supt.

P.B. Leege, Plant Engineer

Paper Mill Paper Machines. Yankee Fourdrin 136" Width 130" Trim

Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue, 100 tons daily.

CONSTANTINE

Simplex Industries, Inc. Centreville Rd. 49042

Tel: 616-435-2425 Telex: 510-398-5730

RR: PC siding. Hwys: US Rte # 131.

Dick Runyan, Paper Mill Mgr.

William Maxon, Plant Engr.

Paper Mill Stock Preparation: Pulpers. 2. Screens Jordans: 6 Other Eqt. 1 disc filter

Paper Machines. Six-Cylinder 108" Width 98" Tr

Steam/Power. Power Boilers: Fuel. Gas/Oil Pres 150.

Electricity: Freq, phase. 440 v. 60, 3 Purchase 100%

Products. Chipboard, 50 tons daily

DETROIT

Scott Paper Co. Packaged Products Div. 9125 W. J ferson Ave 48209

Tel: 313-842-0042

RR. Penn Cntrl siding, Rouge Yard. Hwys: US Rte I-75.

Martin F Schnauler, Gen. Mgr.

James S Brown, Prod. Mgr

Kenneth S Sexton, Paper Mill Mgr

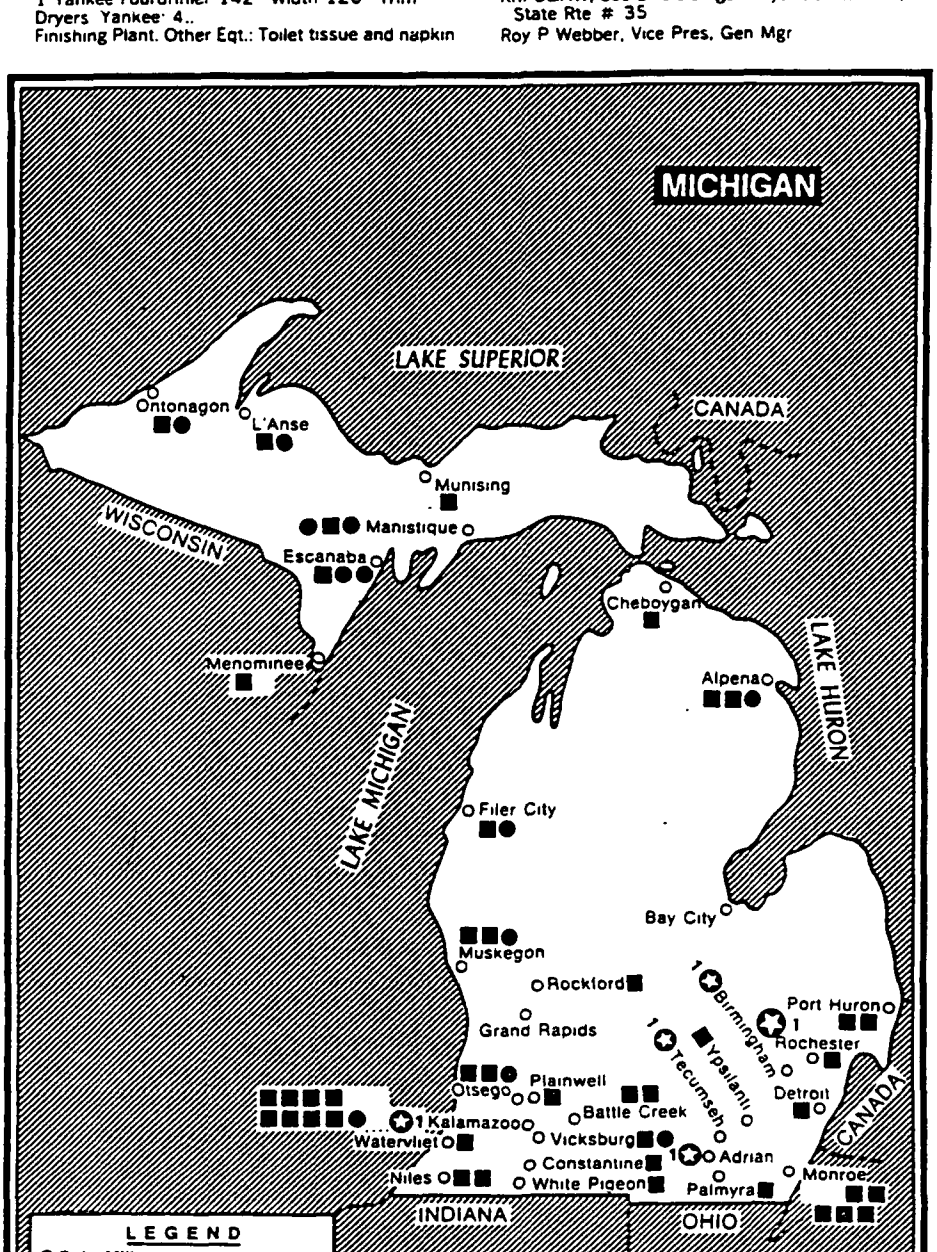
MHI-00155

Charles L Jennings, Paper Mill Mgr
Thomas W Cosgrove, Tech Dir.
Donald Grace, Plant Engr
Earl S Reese, Chief Consumer Rep
R.P McConkie, Fnshg Supt.
R G Lake, Power Supt
Charles G Allen, Safety & Srvcs Mgr
T.J Krause, Acctg Mgr
Harold B Randolph, Pur Agt
John R Hulbert, Plant Traffic Mgr
William H Cope, Pers. Mgr
Lloyd H Jewell, Sales Mgr, Warren Grades

Paper Mill Stock Preparation: Pulpers: 3 Liebeck, 1 Pulpmaster, 1 Dualator, 2 Slushmaker, 2 Jones, 1 Hymac Refiners: 5 double disc, 1 Morden. Jordans. 5
Paper Machines. 2 Yankee MG Fourdrinier 132" Width 124" Trim
1 Yankee Fourdrinier 136" Width 124" Trim
1 Yankee Fourdrinier 142" Width 120" Trim
Dryers Yankee: 4..
Finishing Plant. Other Eqt.: Toilet tissue and napkin converting machinery
Steam/Power. Power Boilers 3 Fuel Gas/Oil.
Electricity: Generated 100%
Water Treatment. Daily Usage N A M.g.p.d. Primary Treatment Yes
Effluent Treatment. Primary Treatment. City System
Products. Toilet, napkin, wiper waxing, toweling, MG, carbonizing twisting, bleached and colored tissue papers. 190 tons daily. Packaged products: roll toilet tissue, napkins, wipes

ESCANABA

Escanaba Paper Co. (Sub of Mead Corp. Paper Group) 49829
Tel: 906-786-1660
RR. C&NW, Soo Line sidings. Hwys US Rte # 2,41 State Rte # 35
Roy P Webber, Vice Pres, Gen Mgr



Dudley Grantham, Pulp Mill Mgr
D Shillinglaw, Kraft Mill Supt
Gary Butryn, Gwd Supt
J.M Owens, Paper Mill Mgr
O.C. Christiansen, Tech Dir
R Moore, Tech Supt, Kraft Mill
G Eastin, Mgr, Srvc Opers
H.D. Hamilton, Mgr, Plant Engrg
J.L Parr, Enviro Control Supv
W.J. Mulvaney, Mgr, Prod Control
J.C. Husky, Mgr Acctg
R.E. Nelson, Pur Agt
H.J. Vanlerberghe, Traffic Mgr.
E.S. Beck, Dir Ind Rels
R Tompkins, Pub Rels Mgr
Lynn S Sandberg, Gen Mgr, Woodlands
R.E. Schmeling, Lands Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks. Chip Handling: Rader pneumatic system Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 150-300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each.
Ground Wood, Refiner. Avg. Daily Prod.: Bl. Hwd., 150 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-1B disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: Gwd: 1 stage. Kraft: C-E-D-E-D. Chlorine Dioxide System: Hooker SVP system.
Pulp Processing: Knotters: Gwd: 2 A-C vibrating. Kraft: SW Hooper centrifugal Drainers: Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners: Gwd. 2-26" S-W Twin-Flo. Rejects Refiners: Gwd: 1 Bauer. Screens. Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter. Kraft: Bird Centrisorters. Cleaners: Gwd. 69-body, 3-stage Bauer 606 Centricleaner. Washers: Gwd: 1-8'x16' Impco bleach. Kraft. 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach. Washers Gwd. 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke. Screens: 6 Selectifiers, 2 Centriscreens. Refiners. 7 Claflins, 6 S-W disc, 3 Deflakers (broke). Jordans: 4. Cleaners: 4-stage Bauer Centricleaner-Deculator system.
Paper Machines. P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers. Size Presses: 2 Calenders: 2 stacks. Reels: 2 Re-reelers..
Coaters, off Machine. Trailing Blade, 2-286", 2-172" double blade for C2S. off Machine. Cap. Coated Paper, 500 tons
Finishing Plant. Supercalenders: 2-278", 9-roll Appleton. Roll Wrapping Eqt.: Lamb-Grays Harbor automatic. Rewinders. 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters. 3 - Hamblet. Trimmers: 4 Seybold

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark Steam, lbs hr.: 650,000. Press.: 400/1500
Electricity: Freq, phase: 60, 3. Installed H.P. 75,000 Generated. 50,000 kwh/day. Hydroelectric: 2,000 kwh/day. Turbogenerators: 48,000 kwh/day.

Water Treatment. Daily Usage, 35,000. M.g.p.d. Source: Lake Michigan Primary Treatment: Sand filters.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment. Aeration lagoon. Tertiary Treatment: Clarifier.

Products. Coated book and publication papers, 600 tons daily

MHT-00156

GOTTESMAN & CO., Inc. • UNBLEACHED SULPHITE PULP
100 PARK AVENUE NEW YORK, N. Y. 10017

FILER CITY

Packaging Corp. of America 49634

Tel 616-723-9951
RR C&O siding Hwys US Rte # 31
C W Tasker, Vice Pres & Mgr
Woodhandling and Preparation Roundwood Storage Capacity 26,000 Cords Barkers 5 drum Chippers 1-90", 10-knife, 1-96", 15-knife Chip Screens 4
Pulp Mill Semi-Chemical, NSSC Avg Daily Prod 400 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant Evaporators 1 multiple-effect Recovery Boilers 1 B&W
Pulp Processing Stock Refiners 2 American Defibrator Rejects Refiners 5 Sprout Waldron Screens 2 centrifugal Washers 2 vacuum
Paper Mill Stock Preparation Pulpers 3, Refiners 2 Jones disc, 4 Sutherland Jordans 9 Miami
Paper Machines 1 Fourdrinier 174" Width 158" Trim 1000 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers Drums 130-60" dia.
Finishing Plant Rewinders 1 Sheeters 3 Trimmers 3
Steam/Power. Power Boilers 4 Fuel Coal/Oil/Gas Steam, lbs hr 600,000 Press 610
Electricity Purchased 1500 kw Generated 17,500 kw Turbogenerators 3-21,875 kva total
Effluent Treatment. Primary Treatment Yes Secondary Treatment Yes
Products. Corrugating medium, 400 tons daily

GRAND RAPIDS

Packaging Corp. of America 415 Fulton St E 49502

Hwys US Rte # 131 State Rte # 50,21
Paper Mill Is Dismantled

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div (Sub of SCM Corp) 1608 Lake St 49003

Tel 616-345-7131
Headquarters Location See Executive Offices section for more details
RR Penn Cntrl sidings Hwys US Rte # IS 94 131 State Rte # 43,96
Steam/Power. Power Boilers Fuel Oil/Gas
Water Treatment. Source River Wells
Effluent Treatment. Primary Treatment 2 clarifiers
Products. Adding machine, bible bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf, box cover, carbonizing, cover, direct process, drawing duplicator, envelope foil mounting, gift wrapping, greeting card, gumming, label, ledger, map, mimeo, offset, opaque, papeterie, place mat, post card, poster, register, sensitizing, tablet, text, vellum xerographic, antitarnish, bank note, blotting, litho chart, music, pattern, watermark, 450 tons daily Coated electrostatic base master and specialites 75 tons daily Coated two sides matte finish book, 100 tons daily

Allied Paper Inc Bryant Mill 49003

Kenneth Sweet, Gen Supt
C J Bos Mgr, Coating
Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters off Machine C2S Fountain Blade, 126" trim C2S Reverse Roll, 74" trim Air Knife, 72" trim
Finishing Plant Supercalenders Rewinders Sheeters Lenox cut-size Trimmers Ream Wrapping & Cartoning Other Eqt automatic counters

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, General Supt
Paper Mill Paper Machines 1 Fourdrinier 126" Width 108" Trim
1 Fourdrinier 133" Width 112" Trim

Brown Co. Specialty Papers Div. 243 E Paterson St 49007

Tel 616-383-5000
RR Penn-Cntrl, CK & S, siding Hwys US Rte # 12, 131, I-94 State Rte # 43
A T Muha, Mgr, Paper Mfg
William Fredericks, Paper Mill Supt
James K Butler, Paper Mill Supt
K Matveia, Mgr Tech Srvc
Charles C Brown, Mgr, Proc Control
William L James, Mgr, Qual Control
D Feldmann, Mgr, Util, Maint & Power
Lyle Alrick, Shipping Supt.
Kenneth P Kearcher, Mgr Mfg, Cnvtg
John P Delanty, Mgr Sales & Mktg
T.G Scott, Ind Rels Mgr
Paper Mill Stock Preparation Pulpers 1-2000 lb and 2-4000 lb Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb Hydrapulpers Beaters 4-2500 lb vortex, 3-2500 lb. Horne, 2-2000 lb Bertram, 4-2000 lb and 1-2500 lb. Jones. Refiners. 1-20" Sprout-Waldron disc, 1-400 hp Jones disc. Jordans. 14 Majestic, 11 Fibremaster
Paper Machines Horne Harper Fourdrinier 117" Width 104" Trim
P&J Fourdrinier 163" Width 148" Trim
B&S Fourdrinier 165" Width 148" Trim
Beloit Fourdrinier 167" Width 148" Trim
2 Yankee Fourdrinier 139" Width 126" Trim
Dryers Calenders 10 stacks
Coaters, off Machine Air Knife 1 Roll 1. Blade 2 Solvent 1
Finishing Plant. Supercalenders 3 Rewinders 6 Sheeters. 8 Trimmers 3 Other Eqt 5 parchmentizing machines, 80" and 100" trim
Products. Waterleaf, vegetable parchment, bond, manifold, offset, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorchemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers Mill No 1 100 tons daily Mill No 2 250 tons daily

Brown Co. Combination Paperboard Div 243 E Paterson St. 49007

Tel 616-383-5000
RR PC, CK & S siding Hwys US Rte # 12, 13, I-94 State Rte # 43
William Aloisi, Board Mfg Mgr
Edward Redmond Mgr, Plt Engrg, Power & Maint
Harold M Hoogsteen Tech Dir
Bruce D Wagner, Pur Agt
A C Dubert, Maint Engr
Robert LeGault, Proc Control Engr
Walter Redmond, Mgr, Paper Stock
Frank Bowers, Div Contr
Paper Mill Stock Preparation Pulpers 9 Hydrapulpers, 1 Morden Slushmaker Beaters 1 continuous broke Refiners 8 Hydrafiners, 2 Morden stockmakers Jordans 10
Paper Machines Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine Air Knife, 2
Extrusion Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant Other Eqt 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators
Products. Folding boxboards machine clay coated, white patent coated news bleached and single manila lined chip, white and news vat lined chip, solid and news lined chip, plain and bending chip sulphite lined manila, foil laminating, grease and moisture resistant laminated, polyethylene coated, hot waxed and cold water waxed boards, 300 tons daily

Georgia-Pacific Corp. Printing Paper Div 2425 King Hwy (PO Box 2738) 49003

Tel 616 382 2890
RR PC GTW siding Hwys US Rte # 194
William R Walsh Res Mgr
G Robinson Supt # 3 Mill
Fred Cooper Mgr Paper Mchne Oper
W R Willis Paper Mchne Supt
Walter Bailey Paper Mchne Supt
Roderick A Perkins, Tech Dir
Fred J Shelton Plant Engr
W Bongers Power Supt
Philip S McKensie, Fnshg Supt
T Ellsworth Plant Contr
John P Gideon Pur Agt
James H Cox Traffic Mgr
Wilson Sawyer Ind Rels Mgr
Pulp Mill Deinked Pulp Avg Daily Prod 80 tons
Paper Mill Stock Preparation Pulpers 6, Beaters 4 1500 lb, 6-2500 lb, 2-3500 lb Jordans 14
Paper Machines 1 Fourdrinier 142" Width 130 Trim 750 fpm
1 Fourdrinier 167" Width 156" Trim 800 fpm
1 Fourdrinier 180" Width 167" Trim 1500 fpm
1 Fourdrinier 170" Width 156" Trim 2000 fpm
Dryers Size Presses 1 plus 3 tub
Finishing Plant Supercalenders 6-62", 62" 90" 90", 90", 100" Rewinders 4 Sheeters 4 Trimmers 4
Steam/Power. Power Boilers Fuel Gas/Oil Steam lbs hr 350,000 Press 450/275
Electricity Freq, phase 440v, 60, 3 Installed H P 18,500 electric Purchased 4,000 kw Generated 12,000 kw Turbogenerators 4
Water Treatment. Daily Usage 8,000 Mgpd Source River
Effluent Treatment. Primary Treatment Clarifiers joint municipal system
Products Bible, bond, book (antique, bulking egg shell, EF, MF supercalendered offset, coated) braille, text cover, box cover check, duplicator text, drawing, litho, mimeo, manifold, embossing envelope, greeting card, gumming, label, ledger MICR music, papeterie, playing card, postcard poster, register, bond, salesbook, straw, tablet, tea bag, vellum watermarked, writing, 400 tons daily

Hawthorne Paper Co. Div of Gould Paper Corp King Hwy (PO Box 2858) 49003

Tel 616-345-1163 Telex 810-227-2503
RR Penn Central siding Hwys State Rte # 96
J W Winn Pres
Wayne E Kendrick Vice Pres
D Hughes Gen Supt
E M Betz, Traffic Mgr
J Bergman Contr
Paper Mill Stock Preparation Pulpers 4 Apmew Beaters 2 Noble & Wood Screens 2 Bird Refiners 4 Morden 2 Claflin Jordans 3 Jones Imperial Cleaners Bird Dirtecs Consistency Regulators 2 Poirier Deckers 2 Bird
Paper Machines Beloit Fourdrinier 105" Width 92" Trim 600 fpm
Beloit Fourdrinier 92" Width 82" Trim 600 fpm
Dryers Drums 28 28-42' dia, 1-96" air dryer Size Presses 2 on each machine Calenders 2 stacks Reels 2 vertical Winders 1 4-drum and 1 2-drum
Finishing Plant Rewinders 1-Cameron 52" 1 Langston 108' Sheeters 1-Clark-Aiken 100" duplex Trimmers 1-Lawson 110", 2 Seybold 95" 65" Ream Wrapping & Cartoning Hayssen
Steam/Power Power Boilers 2 Fuel Coal Steam lbs hr 50,000 Press 150
Electricity Freq, phase 60, 3 Purchased 100%
Water Treatment. Source Wells Primary Treatment Filtration
Effluent Treatment Primary Treatment Joint Industry - City Treatment Plant
Products. Machine and air dried rag and sulphite bond, ledger index offset manifold embossed translucent master, mimeo duplicator, vellum sulphite text and cover, technical wet strength map and chart, rag book weddings, papeterie, 50 tons daily

Minnesota Mining & Mfg. Co. Paper Products Div 49003

RR PC siding Hwys State Rte # 96
Paper Mill Stock Preparation Pulpers 2 Refiners 2 Jordans 2

MHI-00157

GOTTESMAN & CO., Inc. • SEMI-BLEACHED KRAFT PULP
00 PARK AVENUE NEW YORK, N. Y. 10017

Paper Machines 1 Fourdrinier 103" Trim
Steam/Power. Power Boilers Fuel Coal. Press. 200.
Electricity: Freq, phase. 440v, 60, 3. Purchased: 100%.
Products. Laboratory and industrial filter, saturating and absorbent papers, 18 tons daily.
Paper Mill Is Idle.

National Gypsum Co. 2305 E. King Hwy 49001
Tel: 616-343-1579
RR: Penn Cntrl siding. Hwys: US Rte # 12.
William Bechtel, Plant Mgr.
J. Waber, Mill Supt.
Lee Webster, Maint. Supv.
F.B. Mack, Steam Supv.
D.R. Thompson, Office Mgr.
Carl Groesbeck, Plant Buyer
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron. Jordans: 2 Shartle.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers. Drums: 110 Infrared: 30. Calenders: 2 stacks..
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Gypsum board liner, 155 tons daily.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. PO Box 86 49946
Tel: 906-524-6101
L.W. Swanson, Plant Mgr
R. J. Slattery, Gen Supt
R.A. Soli, Plant Contr
B. C. Penokie, Plant Engr
G. O. Ash, Tech Srvc Mgr
Woodhandling and Preparation Chip Handling: Chain, belt conveyors. Chippers: 1 85" Charthage. Chip Screens: 1 three-deck Dillon.
Pulp Mill Defibrated Wood Pulp. Continuous Digesters: 3 Defibrators.
Pulp Processing: Stock Refiners: 3 Asplund disc.
Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers: 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater.
Steam/Power. Power Boilers: Steam, lbs hr.. 93,000.
Electricity: Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.
Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. P. O. Box 111 49854
Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2.
Edward W Petrich, Exec Vice Pres, Res Mgr
Leif Christensen, Vice Pres, Asst Res Mgr
Maurice Reid, Gen. Supt.
Harry Hastings, Paper Mchne Supt
Gilbert Kelley, Chief Engr.
George Bouscher, Maint Supt
Lois Ott, Asst Sec Treas
Francis J Kasun, Pur. Mgr
John H Orr, Sales Mgr.
Woodhandling and Preparation Roundwood Storage Capacity 15,000 cds.. Mobile Equipment 2-cranes. Slashers: 1. Barkers. 1 drum. Bark Presses 1 Hogs: 1. Avg. Daily Use of Peeled Pulpwood. 65 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg. Daily Prod.: 75 tons
Pulp Processing. Stock Refiners: 1. Screens. 2 Finckh, 2 Cowan
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums: 40-60" dia. Size Presses: 1. Calenders: 1. Reels: 1. Winders. 1 Cameron..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 75,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond.
Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily.

MENOMINEE

American Can Co. (Sale of facility pending) 144 First St 49858
Tel 906-863-5595
Hwys: US Rte # 41. State Rte # 173.
Jerome C. Marquardt, Mill Mgr.
E Michalkiewicz, Paper Mill Supt.
J.W. Ehrhardt, Tech. Supt.
Richard G. Hansen, Mill Engr.
Roy Smith, Prod. Srvcs. Supv.
John A. Gaspen, Cnvtg. Supt.
B Verstegen, Plant Acct.
Dennis Novicki, Ind Rels Supv
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans 5.
Paper Machines Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Coaters, On-Machine. Trailing Blade, 1 Rice Barton on food board machine.
Finishing Plant. Supercalenders 2. Rewinders: 2. Other Eqt.: Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 1,000 kwh/day. Generated. 4,000 kwh/day. Turbogenerators: 2
Water Treatment. Primary Treatment: Yes.
Products. Food board, waxing tissue, 300 tons daily. Waxed paper in rolls and sheets

Scott Paper Co. 26th St 49859
Tel 906-863-2004
RR C & NW, CM StP & P. Hwys: US Rte # 41.
Woodhandling and Preparation Roundwood Storage Capacity: 6,000 cds. Avg. Daily Use of Peeled Pulpwood 24 cds.
Pulp Mill Ground Wood, Stone Avg. Daily Prod.: Unbl. Swd., 22 tons Grinders: 4 three-pocket.
Pulp Processing: Rejects Refiners: 1 disc. Screens: 4
Pulp Drying: Wet Machines 4
Pulp Mill Is Idle.
Products. Groundwood pulp, 22 tons daily for own consumption

MONROE

Consolidated Packaging Corp. 921 E Elm Av (PO Box 724) 48161
Tel. 313-241-9000
RR: Penn Cntrl sidings. Hwys US Rte # I-75. State Rte # 56,24A
George C Baron, Gen Mgr, Corr Med & Liner Mill
William Lunsford, Gen Mgr, Boxboard Mill
Al Duvall, Chief Engr
Louis Jones, Prchsg Mgr Raw Matls
Charles Raymond, Prchsg Mgr
Paper Mill Stock Preparation Pulpers 4 Hydrapulpers (liner), 7 Hydrapulpers (bxbd), 8 Dynapulpers (bxbd) Beaters 2 Dilts (liner), 4 Dilts breaker (bxbd) Refiners 4 (liner), 2 (Corr), 4 (bxbd) Jordans 8 (liner), 4 (Corr), 20 (bxbd) Other Eqt 2 200 tpd asphalt dispersion sys
Paper Machines Linerbd Seven-Cylinder 140" Width 118" Trim 600 fpm
Bxbd Eight-Cylinder 102" Trim
Bxbd Seven-Cylinder 112" Trim
Bxbd Seven-Cylinder 112" Trim
CorrMed Fourdrinier 132" Width 115" Trim 1000 fpm
CorrMed Fourdrinier 96" Width 84" Trim 700 fpm
Dryers. Drums. 754 Size Presses 2 on Bxbd machines. Calenders: 9 stacks.
Coaters, off Machine. Air Knife, 1-72" on bxbd 450 t.p.d. capacity
Finishing Plant. Rewinders: 5 Trimmers. 4-64", 72", 84", 84"
Steam/Power. Power Boilers: 4. Fuel. Coal. Steam, lbs hr.: 200,000 Press.. 250.
Electricity: Freq, phase. 220/440v, 60, 3. Purchased: 200 Mkw. Generated. 100 Mkw. Turbogenerators: 2-1500, 2500 kw/kva
Water Treatment. Daily Usage, 2,500. M.g.p.d Source: Wells, Lake.
Effluent Treatment. Primary Treatment: Clarifiers Secondary Treatment: Lagoons.
Products. Test liner, 160 tons daily; corrugating medium, 230 tons daily; folding boxboard, clay coated boxboard, automobile panel board, resin forming board, pasted boards, 425 tons daily.

Time Container Corp. Monroe Div. 1151 W. Elm Av 48161
Tel: 313-241-3220
RR: C&O siding Hwys. US Rte # 24, I-75.
James V. LaMarre, Vice Pres. Res Mgr
Robert Richey, Corrugated Prod. Mgr.
Edward D O'Brien, Paper Mill Supt
Robert Bert, Asst Mill Supt
Brad Sorter, Chief Chemist
Robert Bedell, Chief Engr.
Charles Robertson, Paster Supt.
Delbert Broughton, Plant Contr
William A. Finn, Pur Agt.
Irving Kukio, Sales Mgr.
Paper Mill Stock Preparation. Pulpers: 2 Hydrapulper. Refiners 1 Emerson Jordans: 10 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders. 2 stacks. Winders: 1.
Finishing Plant. Rewinders 1. Trimmers. 2.
Steam/Power. Power Boilers. Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system.
Products. Test linerboard, pasted chip, plain chip, single and double lined and solid boxboard, lightweight chip, panel board, 110 tons daily.

Union Camp Corp. Unbleached Paper & Board Div. 1109 E. Elm St (PO Box 588) 48161
Tel 313-241-7700
RR: PC, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
T.C. Owen, Res Gen Mgr
J. Fuko, Mill Mgr.
J.R. VanSlambrouck, Gen. Supt
E.J. McCue, Tech. Supt
A.L. Gordon, Mill Engr.
H.C. Brothers, Dir. Prchsg
E.L. Kelley, Mill Sales Mgr.
J.T. Landwehr, Ind Rels Mgr
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners. 6-32" Bauer 442 disc. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm

MHI-00158

THE PAPER TIGERS
Howard Zuker Associates / Chicago 60611 / Phone: 312/664-5700

B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers Drums. 127, 103, and 137-42" dia Reels 2 Pope, 1 upright. Winders: 3 two-drum..
Steam/Power. Power Boilers: 1. Fuel. Coal. Steam, lbs hr.. 200,000. Press.: 600 psi
2. Fuel. Gas/Oil. Steam, lbs hr.. 140,000. Press. 175 psi.
Electricity: Freq, phase: 60, 3. Generated. 9850 kwh/day. Turbogenerators: 2-7500 kw; 1000 kw, 1-1000 kw and 1-350 kw diesel generators.
Water Treatment. Daily Usage. 4,000. M.g.p.d Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Sys.
Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp. 49862
Tel: 906-387-2700
RR: LS&I. Hwys: State Rte # 28,94.
E Masak Jr, Mill Mgr.
Paper Mill Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 3. Saturators: 5
Finishing Plant. Supercalenders: 1-94". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.
Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, saturating, coated and saturated specialties, 78 tons daily.

MUSKEGON

Tekmold Inc 2850 Lincoln Ave 49441
Tel: 616-755-1662
RR: GTW siding. Hwys: US Rte # I-196. State Rte # 16,31
Richard Straus, Pres
R. Berry, Vice Pres Mfg
Paul Vanderwerf, Vice Pres Sales
Robert Hasper, Contr
Frank Gregory, Sec
Paper Mill Stock Preparation: Pulpers: 6
Paper Machines. 2 moulding machines..
Products. Molded pulp interior protective packaging, 8 tons daily.

S.D. Warren Co. Div. of Scott Paper Co 2400 Lakeshore Dr. 49443
Tel. 616-755-3761 Telex. 510-394-4300
RR: C&O siding. Hwys: US Rte # 16,31,196. State Rte # 46.
C.W Van Orman, Res. Mgr.
H.J. Roehner, Prod. Mgr
John S Moran, Pulp Mill Supt.
J.W. Decker, Asst. Pulp Mill Supt.
P.S Hanson, Asst. Pulp Mill Supt.
M.E. Gunn, Paper Mill Supt.
M.B. Henderson, Asst. Paper Mill Supt.
J.R. Johnston, Spclty Paper Mgr.
Carl E Kilpatrick, Tech. Dir.
W.A. Wrase, Chief Engr.
T. Boorsma, Mgr of Maint.
H.W. Sternitt, Qual. Control Dir.
D.L. Tyler, Coating Supt.
D.R. Burling, Fnshg/Shppg Supt.
E. Johnson, Steam/Power Supt
William Holtzclaw, Pur. Agt.
D. DeGlopper, Traffic Mgr.
P. Schuiteman, Ind Rels Mgr
J.N. Fields, Wood Procurement Mgr.
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Pettibone crane. Flume: 1. Log Handling: Drag and belt conveyors Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system. Chip Unloaders. Hydraulic truck dumper. Barkers. 1-30 cds/hr Manitowoc drum Hogs 1 Montgomery. Chippers. 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg Daily Use of Peeled Pulpwood: 182 cds swd, 270 cds hwd
Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 84 tons Bl Hwd., 156 tons of which 60 tons is Market Pulp. Continuous Digesters: 1 Kamyr.
Chemical Recovery Plant. Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.
Paper Mill Stock Preparation: Pulpers: 7 Vokes rotor Hydrapulper. Screens: 4 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 7 Shartle. Cleaners. 4 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZunk, 5 Foxboro. Size Cookers: 1 continuous, 8 batch.
Paper Machines. Horne Fourdrinier 135" Width 122" Trim 500 fpm
Horne Fourdrinier 110" Width 98" Trim 750 fpm
Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia Hi-Velocity: 2. Size Presses: 4. Calenders: 5. Reels: 4 Pope. Winders 4 two-drum..
Coaters, On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
off Machine. Air Knife: 1-105". Roll: 1-100", 1-62", 1-92". Capacity coated paper, 160 tons daily.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 11-100" to 112" Trimmers: 5-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day Generated. 19,000 kwh/day. Turbogenerators. 3-25,500 kw.
Water Treatment. Daily Usage, 25,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, text, cover, specialty papers, 350 tons daily.

NILES

French Paper Co. 100 French St (PO Box 729) 49120
Tel: 616-683-1100
RR. Penn Central siding Hwys: US Rte # 31,12. State Rte # 60,51
J.E. French, Pres, Treas
B.R. Bigford, Exec. Vice Pres, Sales
T.R. Friedrich, Vice Pres, Mfg
R.D. Clark, Vice Pres, Sec
J.S. Taylor, Tech Dir
R.A. Engberg, Chief Engr.
R. Etzcorn, Pur. Agt.
R.W Meyers, Traffic Mgr.
Paper Mill Stock Preparation: Pulpers: 4 Dynapulpers. Refiners: 2 Claflin. Jordans 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders. 3..
Finishing Plant. Sheeters: 3. Trimmers: 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal. Press.: 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water
Products. White and colored offset opaque cover embossing, greeting card, text and specialty papers, 60 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St 49120
Tel 616-683-4100 Telex. 258459
RR Penn Central Hwys: US Rte # 12,31 State Rte # 60,40
James M Harcus, Vice Pres Plant Dir
Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Chief Engr
George Halliwell, Mgr. of Maint
A.O. Morningstar, Plant Contr
Earl Stevens, Pur. Mgr
A Seaman, Traffic Mgr.
Robert S Wolff, Ind Rels Dir
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners 5 Consistency Regulators: 2.
Paper Machines. Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers: 1-162" wide, 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1 stock, 1 Pope Winders 2 Shear-Cut..
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil Steam, lbs hr.. 35000. Press.. 100 psi
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264 Purchased: 32,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d Source: Wells.
Effluent Treatment. Primary Treatment: Yes
Products. Pattern tissue, 33 tons daily

ONTONAGON

Hoerner Waldorf Corp. Mill Div. 115 Lakeshore Rd 49953
Tel: 906-884-4121
RR: Milw Rd.-siding. Hwys: US Rte # 45. State Rte # 64.
John E. Hoeft, Vice Pres, Res Mgr
K.E. Pickering, Pulp Mill Supt.
E.G. Barradas, Paper Mill Supt.
A. Szaroletta, Steam/Power Supt.
R.L. Fitze, Chief Engr
R.L. Cross, Woodlands Mgr
Woodhandling and Preparation Roundwood Storage Capacity: 20,000 cds.. Chip Storage Capacity: 50,000 cds.. Mobile Equipment: 1 Pettibone carry lift, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Barkers 1-30" Beloit mechanical. Hogs: 1 Jacksonville Blow Hog Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd, 250 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod. Unbl. Hwd., 220 tons Continuous Digesters 2 Pandia.
Chemical Recovery Plant. Evaporators: 4-Conkey Recovery Boilers: 1 C-E, 15,000 lbs steam/hr @ 175 psi.
Pulp Processing: Hot Stock Refiners: 2 American Defibrator. Stock Refiners: 4-36" Sprout Waldron double disc. Washers: 2 Swenson
Paper Mill Stock Preparation: Pulpers: 1-100 ton Refiners: 3 Bauer 440, 2 Sprout-Waldron pump-through Jordans: 3 Jones Majestic. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZunk
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1200 fpm
Black Clawson Fourdrinier 180" Width being installed, scheduled for operation in late 1974, will have 300 ton daily capacity
Dryers. Drums: 52. Calenders: 1 stack. Winders: 1..
Steam/Power. Power Boilers: Fuel: Coal/Oil/Gas Steam, lbs hr.. 250,000. Press.: 1500.
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Generated. 240,000 kwh/day. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall.
Products. Corrugating medium, 275 tons daily.

MHI-00159

SERVING THE PAPER INDUSTRY SINCE 1929
ALVIN H. JOHNSON & CO., INC.
441 LEXINGTON AVE. — NEW YORK, N. Y. 10017 — 212-687-8764
CONSULTING & DESIGNING ENGINEERS
PULP MILLS • PAPER MILLS • DEINKING • WATER & EFFLUENT TREATMENT

OTSEGO

Mead Corp. Paperboard Products Div P. O. Box 187 49078

Tel: 616-692-6211 Telex: 810-277-7240

RR: PC siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89

Richard L Trueb, Mill Mgr
Robert J Quinlan, Mill Supt
Fritz G Schmid, Gen Supt
Ray W Peters, Mill Engr.
Ronald Clawson, Maint. Supv.
Ira E Johnson, Shipping Foreman
Howard J. Klein, Cnvtg Supt.
Linwood H Jennings, Plant Contr.
Charles E Cushman, Pur. Agt.
H.H. Kindig, Pers. Mgr.
Ted A Olsen, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 2 Hydrapulpers. Beaters: 2-1500 lb. Screens: 8. Refiners: 1 Bauer double disc. Jordans: 9. Cleaners: 1 200 tpd. sys. with asphalt dispersion unit.

Paper Machines. Eight-Cylinder 142" Width 129" Trim

Dryers. Drums: 164. Calenders: 2..

Coaters, On-Machine.Air Knife: 1. Roll: 1.

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 225,000. Press.: 875/300 psi. Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 1000 kwh/day Generated: 3500 kwh/day Turbogenerators: 4000 kw Westinghouse. 3000 kw Stal Laval.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source. Wells *Primary Treatment: Chlorination.* Secondary Treatment: Iron stabilization.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: lagoon.

Products. Plain and bending chip, vat-lined, filled and solid news, white vat lined, single manila lined, jute lined, mist gray, pasted, machine clay coated and white patent coated boxboards, 170 tons daily.

Menasha Corp. Paperboard Div N. Farmer St. 49078

Tel: 616-692-6141

RR. PC siding Hwys. US Rte # 131. State Rte # 89.

Richard Thorne, Gen. Mgr.
Clifford Sage, Jr., Prod Supt
Lester Philips, Asst Supt
Norman Johnstone, Tech Mgr
A. Bickel, Chief Engr.
Bernard Budzinski, Maint. Supt
David Seiler, Proj. Engr
Ron Thaxton, Proj Engr
Norbert Zuendell, Proj Engr
Walter Boettcher, Power Supt.
Lovell Van Fleet, Wood Room Foreman
G A. McConney, Admin. Supt.
R.C. Beveridge, Pur. Agt.
John Hanson, Wood Dept Mgr

Woodhandling and Preparation Barkers: 1. Chippers: 1 10 knife, 88". Chip Screens: 1. Avg. Daily Use of Peeled Pulpwood: Hwd, 200 cds.

Pulp Mill Semi-Chemical, NSSC. Avg Daily Prod. Unbl Hwd., 225 tons Continuous Digesters. 1 vertical Asplund Defibrator

Pulp Processing: Stock Refiners: 7 Sprout Waldron, 3 Bauer primary, 2 S-W, 3 Bauer Secondary, 2 disc presses

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Other Eqt.: 1 Impco disc filter.

Paper Machines. 1 Fourdrinier 176" Width 160" Trim 1200

1 Fourdrinier 92" Width 80" Trim 700 fpm

Dryers Drums. 56..

Steam/Power. Power Boilers: 4. Fuel: Gas. Steam, lbs hr.. 270,000.

Electricity: Purchased: 4000 kw. Generated: 4000 kw. Turbogenerators: 1-4000 kw/kva

Water Treatment. Daily Usage, 1,500 M.g.p.d Source Wells.

Effluent Treatment. Primary Treatment: Submerged combustion. Secondary Treatment: Aeration ponds.

Products. NSSC corrugating medium, 331 tons daily

PALMYRA

Simplex Industries, Inc. 49268

Tel. 313-265-5174

RR: PC siding. Hwys: US Rte # 223.

Leon Maloney, Mill Mgr

Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.

Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim

2 Wet Machines, 60", 130" trim..

Steam/Power. Power Boilers: Fuel: Gas. Press.: 150.

Electricity: Freq, phase: 60, 3. Purchased: 100%.

Products. Binders board, 15 tons daily. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily.

PLAINWELL

Plainwell Paper Co Inc. Div. of Nicolet Paper Co. 200 Allegan St. 49080

Tel: 616-685-5851 Telex: TWX: 810-277-4990

RR. PC siding. Hwys: US Rte # 131, I-94. State Rte # 89.

L.R. Busche, Mill Mgr
Emil A Warnez, Prod Mgr, Pprmkg
Lou R Burd, Prod Mgr, Fnshg
Alan K Macnair, Tech Dir
Richard L Saddler, Mgr Engrg
William C Anderson, Dir Mktg
Paul L Acosta, Mgr, Field Tech Srvc
Robert C Beckstrom, Mgr Ind Rels
C Sue Wolfe, Pur Agt
Morris L Scott, Supt of Traffic
Thomas B Pitcher, Mgr Mill Acctg

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters: 2 blending. Refiners: 3 double disc. Jordans: 6. Stock Mixers: 2 blend chests.

Paper Machines. 1 Fourdrinier 112" Width 98" Trim 500 fpm

1 Fourdrinier 135" Width 120" Trim 750 fpm

1 Fourdrinier 135" Width 120" Trim 1000 fpm

Dryers. Size Presses: 3.

Coaters, On-Machine. Trailing Blade, 1-117" Cap. coated paper: 70 ton daily.

Finishing Plant. Supercalenders: 3-65", 2-77'. Roll Wrapping Eqt.: 1 automated line. Rewinders: 2 Sheeters: 5 Trimmers: 4. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.. 150,000. Press.: 265.

Electricity: Freq, phase: 60, 3. Purchased: 80,000 kwh/day. Generated: 40,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond.

Products. Reprographic and photo copy base, direct process, chart, carbonizing, index, bristol, release base, sandpaper backing, release coated, coated and uncoated web and offset, coated and uncoated book, 200 tons daily

PORT HURON

Dunn Paper Co. Div of Dennison Mfg. Co. 218 Riverview St 48060

Tel. 313-984-5521 Telex. TWX: 810-231-7053

RR. GTW siding. Hwys: US Rte # I-94.

J.B Gray, Chmn
Nathaniel G. McLean, Pres.
Calvin E Josselyn, Treas.
Thomas E. Gallagher, Vice Pres, Mktg
Allan C Crawford, Tech Mgr
J.E. Streb, Plant Mgr
Carl L Burdell, Chief Engr
Donald J Haines, Asst. Sec. & Treas.
Neil F. Plouff, Pur Agent
R.J Radtke, Contr

Paper Mill Stock Preparation Pulpers 7 Refiners 17. Jordans. 3.

Paper Machines Beloit-Yankee Fourdrinier 137" Width 124" Trim

Beloit-Yankee Fourdrinier 134" Width 122" Trim

Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm

Yankee Fourdrinier 137" Width 124" Trim

Dryers Yankee 3 12', one 18' dia units. Size Presses 4 Calenders 4 Winders: 4.

Coaters, On-Machine Roll, 1

Finishing Plant. Rewinders 2

Steam/Power. Power Boilers. 3 Fuel Oil/Gas Steam, lbs hr 76,000 Press.: 600/200.

Electricity: Freq, phase. 60 3 Purchased 11,000 kwh./day.

Products. Lightweight coated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only. 105 tons daily

Port Huron Paper Co. Foot of Washington Ave. (PO Box 289) 48060

Tel: 313-982-0191

RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21.

Gordon Morseth, Pres & CEO
C.R. Roglitz, Sr. Vice Pres
E.G. Donovan, Vice Pres Mktg
R.W. Durand, Vice Pres. Mfg
L.M. Sturdevant, Sec
R.S. Smeltzer, Treas., Chief Fin Offcr
R Andrews, Asst Sec
T.R. Kroll, Paper Mill Supt
G Thompson, Asst. Paper Mill Supt.
H Radigan, Asst. Paper Mill Supt
L.E. Rymers, Tech. Dir.
Thomas C. Noetzel, Chief Engr.
G.L. Genaw, Devl Mgr
A.R. Rusee, Contr
F.W. Phare, Pers. Dir
Junior Koglin, Traffic Mgr

Paper Mill Stock Preparation Pulpers: 6 Screens: 10. Refiners: 8. Jordans 8 Cleaners 6

Paper Machines Yankee Fourdrinier 132" Width 123" Trim 700 fpm

Yankee Fourdrinier 143" Width 127" Trim 1200 fpm

1 Fourdrinier 132" Width 120" Trim 1200 fpm

1 Fourdrinier 184" Width 160" Trim 1600 fpm

Yankee Fourdrinier 210" Width 186" Trim 2000 fpm

Dryers. Drums: 83. Yankee. 3. Size Presses: 5. Calenders: 8 stacks Winders 5.

Finishing Plant Rewinders 2

Steam/Power. Power Boilers Steam, lbs hr.: purchased

Electricity. Purchased 100%

Water Treatment. Daily Usage, 14,000 M.g.p.d. Source: River

Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, 175 tons daily.

ROCHESTER

★**Rochester Paper Co.** Sub of King-Seeley Thermos Co. 340 Mill St (PO Box 185) 48063

Tel: 313-651-8121

Headquarters Location See Executive Offices section for more details

RR: GTW siding. Hwys. US Rte # 10. State Rte # 150.

William M Kirkland, Plant Mgr
James M Phillips, Plant Supt
Dewey E Coffelt, Tech Dir
Anthony Piachta, Plant Engr
Burton P Bailey, Mktg Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster

Paper Machines 1 Fourdrinier 66" Width 62" Trim

Dryers. Size Presses: 1. Calenders: 1 stack..

Coaters, On-Machine. 1-62" Roll, 20 tons daily cap. off Machine. 1-36" Roll, 12 tons daily cap

Finishing Plant. Rewinders 2 Sheeters: 2. Trimmers: 2.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100.

MHI-00160

PERRY H. KOPLIK & SONS, INC.
654 MADISON AVE. • N.Y.10021 • (212)PL 2-2288
TWX: (710) 581-5392
BLEACHED KRAFT PULP
Softwood • Hardwood

Electricity Freq, phase. 60, 3. Purchased: 100%.
Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, graph, grinding wheel, impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 70 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd. 49341
Tel 616-866-1523
RR. PC siding. Hwys US Rte # 131
Fred R Gave, Vice Pres. Res Mgr
Edward W Gave, Mill Supt.
Russell V Gave, Tech Dir
Ronald Van Dyke, Chief Engr.
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 8. Refiners: 3, 3 Escher Wyss deflakers. Jordans. 7. Cleaners: Escher-Wyss. Consistency Regulators: Escher Wyss. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 67" Trim 315 fpm
Dryers. Drums: 87-36" and 57-42" dia. Calenders. 3 stacks.
Coaters, On-Machine. Air Knife, 1 Waldron Microjet with 1 Metering Bar precoater.
Finishing Plant. Sheeters: 1-67". Trimmers: 2.
Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr · 50,000. Press.. 135.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water Purchased: 1500 kva.
Water Treatment. Daily Usage, 325. M.g.p.d. Source River
Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.
Products. Boxboard white patent coated, clay coated, chip, news, vat lined, suit, bleached manila, lined and solid kraft, food grade, colored specialty, 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.** 707 S. Evans St. (PO Box 427) 49286
Headquarters Location. See Executive Offices section for more details

VICKSBURG

Simpson Lee Paper Co. Washington St. 49097
Tel. 616-649-0510
RR· PC siding Hwys Near US Rte # 131, I-194 Approx Mi 6
Robert G Millard, Vice Pres. Gen Mgr
Charles Gardner, Mfg Supt
Raymond Wagner, Tech. Dir.
Stanley Pavlick, Chief Engr.
John Irwin, Plant Acct.
John Stroud, Pur Mgr
Lloyd Campbell, Pers. Mgr.
Pulp Mill Rags· Batch Digesters· 4 10,000 lb Rotary Pulp Processing: Washers: 8-1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster Beaters 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6 Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums. 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1-52". off Machine. Cap. Coated Paper, 20 tons
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers· 3-66", 75", 110".
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 3,000 M.g.p.d Source· River, Wells
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration basin
Products. Blanking, blueprint, rag and sulphite bond, solid and pasted bristol, carbonless copy, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator guide stock, coated and uncoated label, ledger, mimeo, lamp shade, linen finish, playing card, papetene, safety, photo mount, photographic base, poster, rag translucent, tracing, reproduction, sugar packet, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co. Div. of Hammermill Paper Co. 279 Paw Paw Av. 49098
Tel: 616-463-3141 Telex: TWX: 810-270-3200
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140.
W. Craig McClelland, Pres
E. Dale Meahl, Mgr. Oper Srvcs
Donald A Russell, Mgr. Mill Opers
Fred Cretors, Mgr Qual Control
Lee M Shadduck, Plant Engr.
Milton F Stibal, Mgr Tech Devl
Niels Jensen, Supt. Coating Mill
Robert A Young, Fnshg. Supt.
John M. Matthews, Matls. Mgr.
F.G. Johnson, Div Contr.
D.D. McKinney, Pers. Mgr.
D.L. McFall, Sales Mgr.
Richard C Melvin, Mgr Tech Sales
R Strasburg, Mgr Mktg Srvcs
Paper Mill Stock Preparation: Pulpers: 3. Refiners 4 Hydradisc. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders. 2 Winders. 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66".
Finishing Plant. Supercalenders· 4-66", 80", 86", 96". Rewinders. 2. Sheeters· 4-76" to 101" Trimmers· 4-85" and 100". Other Eqt.: 2 Embossers, 62" and 53".
Steam/Power. Power Boilers. 3 Fuel: Coal. Steam, lbs hr.: 90,000 Press.: 235.
Electricity: Installed H.P 450 water. Purchased 100%.
Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

Weyerhaeuser Co, Paperboard Div. PO Box 277 49099
Tel. 616-483-7601 Telex 616-483-7800
RR· PC siding. Hwys: US Rte # 12.
Arne H. Anderson, Mill Mgr
R.L. Morgan, Supt.
G.K. Timmer, Tech. Dir.
T.J. Ewald, Plant Engr
Kenneth A Shane, Plant Contr.
K.B. Martens, Pur. Agt.
J.E. Drew, Sales Srvc Mgr
Paper Mill Stock Preparation Pulpers: 6 Hydrapulper. Screens: 8. Refiners. 2 Bauer, 1 S-W. Jordans: 6 Shartle.
Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer, 112" trim..
Dryers. Drums: 156. Calenders· 6..
Coaters, On-Machine. Air Knife, 1-92", 1-110". off Machine. 2-78".
Finishing Plant. Supercalenders: 1-78". Rewinders: 1 Sheeters 1-112" on-machine Jagenberg 3 72" Trimmers 1-85"
Steam/Power. Power Boilers 2 Fuel Oil Steam lbs hr 150,000 Press 500
Electricity Freq, phase 60, 3 Generated 6000 kw Turbogenerators 2
Water Treatment. Daily Usage, 4,500 M g p d Source River
Effluent Treatment. Primary Treatment 2 Clarifiers. Secondary Treatment 1 Settling basin
Products. Single and double patent coated news clay-coated, single and double manila lined bending chip, metallic coated boxboards, 200 tons daily

YPSILANTI

Peninsular Paper Co. 1000 N Huron St. 48197
Tel: 313-482-2600 Telex: 810-223-7004
RR: PC siding Hwys· US Rte # I-94
Harrison P Quirk, Pres.
Frank L Wright, Vice Pres., Sales
Norman B Davey, Contr
Edward G Gremban, Paper Making Supt
Glenn F. Touse, Chief Chemist
David Seidler, Chief Engr.
Robert C. Huston, Fnshg & Shpng Supt.
Russell Lawton, Pur. Agt
James R. Elliott, Traffic Mgr.
Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners: 1 Morden. Jordans 2 Jones standard, 1 Jones Imperial. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 57" Trim 265 fpm
Dryers. Drums: 52-36" dia. Size Presses 2 Calenders: 2 stacks. Winders: 2..
Finishing Plant. Roll Wrapping Eqt.. 1 line Rewinders: 1-78" Langston. Sheeters. 2-85", 65" Hamblet. Trimmers. 1-110" Lawson, 1-85" Seybold Ream Wrapping & Cartoning: Hayssen banding unit.
Steam/Power. Power Boilers· Fuel· Gas/Oil. Steam, lbs hr. 40,000. Press.: 130
Electricity: Freq, phase. 60, 3. Installed H.P. 3000. Purchased. 2500 kwh/day. Generated: 1000 kwh/day hydroelectric.
Water Treatment. Daily Usage, 2,000. M.g.p d Source: Wells, River. Primary Treatment: yes
Effluent Treatment. Primary Treatment· City sewer System
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div. Midway Dr (PO Box 518) 56601
Tel: 218-751-5140,1,2
RR NP siding. Hwys: US Rte # 2,71,371.
Robert W Riley, Vice Pres, Gen Mgr
Richard C. Brown, Plant Supt
Donovan Gould, Master Mech.
Paul Barthelemy, Sales, Traffic Mgr.
Woodhandling and Preparation Barkers 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg Daily Use of Peeled Pulpwood· Hwd, 90 cds aspen.
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.· Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.
Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..
Steam/Power. Power Boilers: 1. Fuel: Gas (oil standby). Steam, lbs hr.: 14,000. Press.: 200. Electricity: Freq, phase: 440v, 60, 3. Installed H.P 2350 electric. Purchased: 30,000 kwh/day.
Water Treatment. Source: City.
Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, 85 tons daily.

MHI-00161

THE PAPER TIGERS
Howard Zuker Associates / Chicago 60611 / Phone. 312/664-5700

Board Co RFD 1. Southbridge 01550
Tel: 617-764-8356
RR: PC sidings Hwys: Near US Rte # 15 Approx Mi 7. State Rte # 131.
Franklin Pierce Emerson, Gen Mgr.
Leander W Gardner, Gen. Supt.
George E. Beaudette, Chief Engr.
Henry Cyganiewitz, Master Mech
H.W. Martin, Traffic Mgr
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 5. Refiners: 2 Claflin. Jordans: 4 Noble & Wood Mammoth Jr
Paper Machines. S&W Five-Cylinder 103" Width 93" Trim 200 fpm
Dryers. Drums: 57. Calenders: 1 stack, 1 breaker stack..
Finishing Plant. Rewinders: 1 Moore & White
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 34,000. Press.: 200
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 1,000 M.g.p.d. Source: River. Primary Treatment: Settling Pond. Secondary Treatment: Sand filters.
Effluent Treatment. Primary Treatment: 2 clarifiers.
Products. Cup, tag, photo mount, pressboard, tube, file folder, anti-tarnish, black, laminated, manila, patch stock, mill blanks, embossing, poster, bristol, card, cover, boxboards (manila-lined, news, patent-coated, coated, kraft, sulphite, pulp, vat-lined) 50 tons daily

WESTFIELD

★**Stevens Paper Mills, Inc.** 77 Mill St. 01085
Tel: 413-562-2315
Headquarters Location. See Executive Offices section for more details.
RR: PC. Hwys. US Rte # 202.
Robert Allen, Upper Mill Supt
John E Long, Prod Supt, Lower Mill
John Tarnauskas, Qual Control Engr
Paper Mill Stock Preparation: Beaters: 5 Bertram, 8 other Jordans 10
Paper Machines. 4 Fourdrinier 94" Width 86" Trim
Products. Condenser and coil winding tissue, electrical insulating paper, 10 tons daily

WEST GROTON

Groton Leatherboard Co. 01472
Tel. 617-448-6334
RR. B&M Hwys: Near US Rte # 495 Approx Mi 10
Eugene R. Gray, Pres., Treas
William A Lawrence II, Vice Pres.
John C McGrail, Asst Treas
Virgil L. Powell, Prod. Mgr
Raymond J LeBeau, Asst Prod Mgr
Paper Mill Paper Machines 16 Wet Machines.
Effluent Treatment. Primary Treatment: and. Secondary Treatment.
Products. Stereotype dry mats

Hollingsworth & Vose Co. 01472
Tel 617-448-3311
RR B&M siding Hwys US Rte # 40 State Rte # 2A
Derry Akeroyd, Mill Mgr
John Fawcett, Gen Supt
Richard Guimond, Tech Supt
Alfred E Irelan, Proj Engr
Pulp Mill Specialty (rope, jute, etc.) Batch Digesters: 10 Rotary
Paper Mill Stock Preparation Pulpers 1 Beaters 4-1500 lb, 11-1600 lb Screens 4 Jordans 4 Cleaners Bauer Centricleaners
Paper Machines 1 Fourdrinier 66" Width 60" Trim
Rotoformers 1 65 width, 58" trim
Rotoformers 1 120" width, 110" trim
Dryers Drums 150. Size Presses 2. Calenders 5 stacks.
Finishing Plant Rewinders 2 Sheeters 2 Trimmers 2
Steam/Power. Power Boilers: 3 Fuel Oil Press 150.
Electricity: Freq, phase 60, 3
Water Treatment. Daily Usage, 5,000. M.g.p.d Source. River
Effluent Treatment. Primary Treatment: 4 settling basins.
Products. Rope, wood fiber, and other industrial specialty, electrical insulating, saturating, absorbent, filter, tympan, gasket, wet strength and black papers, 35 tons daily

WEST SPRINGFIELD

★**Preco Corp.** Front St 01089
Headquarters Location See Executive Offices section for more details.

Premoid Corp. (Sub. of Preco Corp.) Front St. 01089
Tel: 413-736-4554
RR: PC siding. Hwys: US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4.
Charles S Sweitzer, Pres, Res Mgr
F.B. Comery, Vice Pres, Sales
J.A Cancelliere, Vice Pres, Coating Div
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A J Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Paper Machines. 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt., 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St. 01089
Tel 413-732-5141 Telex 955-484
RR PC siding. Hwys. US Rte # 91.20
John H Southworth, Pres., Treas.
Kent Tarrant, Vice Pres., Sec.
E Randall Baker, Supt
Elio Viecelli, Asst Supt
Paper Mill Stock Preparation Pulpers. 2 Beaters. 1-1200 lb. 4-850 lb Refiners 1 disc. Jordans. 2.
Paper Machines 1 Fourdrinier 85" Width 70" Trim
Dryers Size Presses tub.
Finishing Plant. Supercalenders 1. Sheeters: 3 Trimmers 4.
Water Treatment. Source River
Effluent Treatment. Primary Treatment. Effluent to municipal system
Products. Rag content bond, ledger, linen, typewriter, onionskin manuscript cover, writing, watermarked deluxe bond, 15 tons daily

★**Strathmore Paper Co** Front St 01089
Tel 413-568-9111
Headquarters Location See Executive Offices section for more details
RR B&M Hwys US Rte # 20
Gary F Regan Plant Supt
John Deschenes, Chem
David Heller Maint Engr
Pulp Mill Rags Batch Digesters 3 Rotary
Pulp Processing Washers 12 rag
Paper Mill Stock Preparation Pulpers 4 Beaters 10 Hollander 2 Bertrams Refiners 21 Cleaners 65 Dirtec, Bauer
Paper Machines 1 Cylinder 52" Trim
1 Cylinder 89" Trim
1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
Finishing Plant Supercalenders 2 Norwood. Sheeters 12 Trimmers 12 Other Eqt Air Dryers. 2
Products. Bond, writing vellum, bristol, wedding, typewriter, onionskin, airmail bond, manuscript cover, text, box cover, drawing, jeweler's bristol, lampshade, tag parchment, papeterie, steel plate, patent office board, gravure, blueprint, direct process and negative, specialty industrial synthetic papers, 120 tons daily total of Turners Falls, Woronoco and West Springfield mills

WHEELWRIGHT

Romar Tissue Mills Div. U S Industries Inc. 01094

Paper Mill Is Dismantled

WORONOCO

Strathmore Paper Co. 01097
Tel. 413-568-9111
RR: B&M. Hwys: US Rte # 20.
Donald W. Bush, Supt. No. 2 Mill
Bernard J. Czanowski, Supt. No 1 Mill
Bruce Raymond, Chem
Alfred Letourneau, Maint Engr
Paper Mill Paper Machines Equipment listed under West Springfield Mill..
Products. Mill No. 1: writing, text, cover, papeterie papers. Mill No. 2: Rag specialty, reproduction and bond papers.

MICHIGAN

ADRIAN

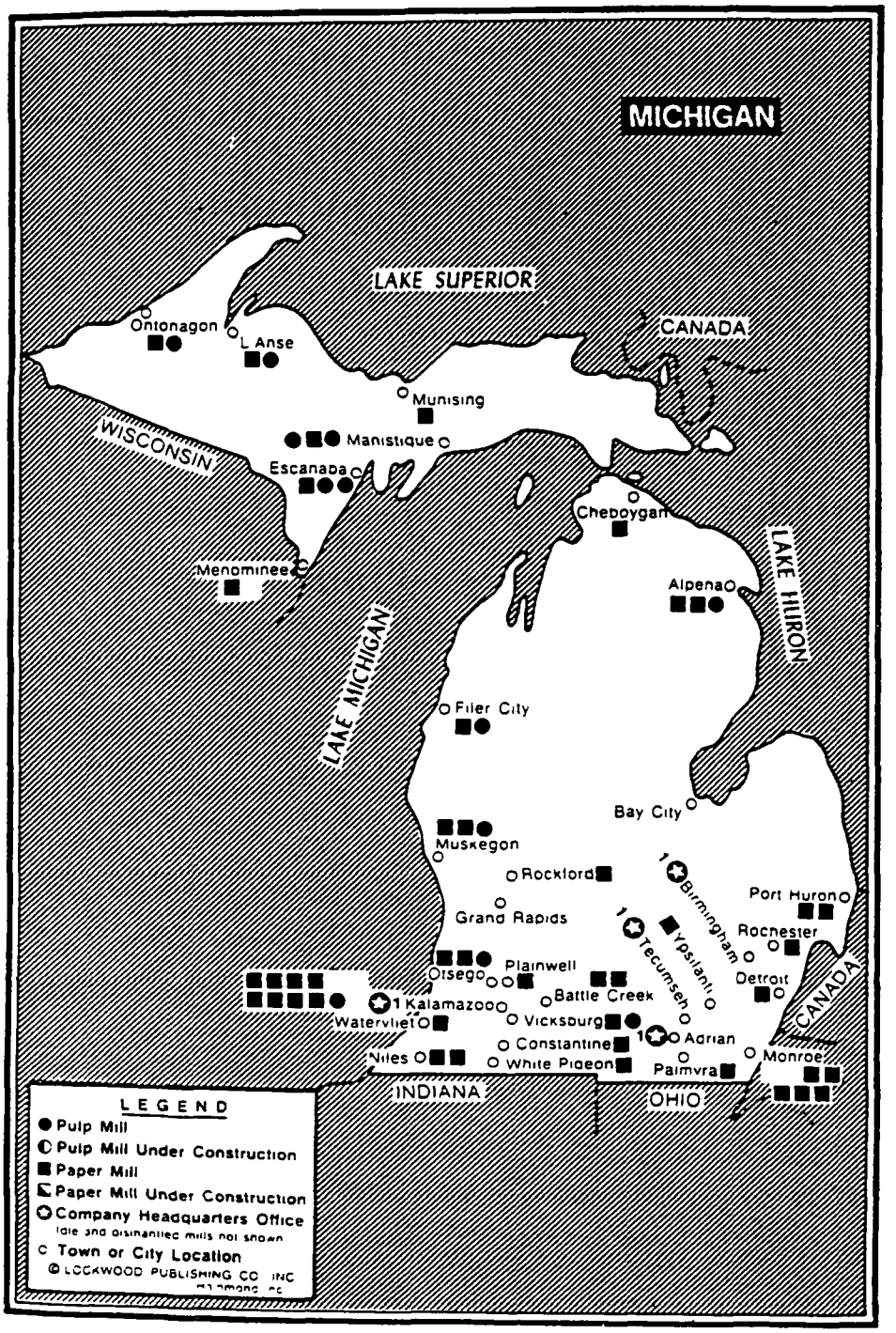
★**Simplex Industries, Inc.** 3000 W Beecher St 49221
Headquarters Location. See Executive Offices section for more details

ALPENA

Abitibi Corp. Building Products Div 416 Ford Ave. 49707
Tel: 517-354-2121
RR Detroit & Mackinac Siding Hwys: US Rte # 23. State Rte # 32
W.G. Coggan, Plant Mgr
P.K. De Bruhl, Asst Plant Mgr
R.R. Stepanski, Mgr Mfg
J L. Rizzardi, Mgr Maint
R.R. Tarr, Plant Engr
O.B. Eustis, Control Mgr
A.R. Schultz, Power Plant Supt
C.W Baldwin, Sr Engr
L Keller, Mgr., Fnshg & Shpng
T.J. Kelly, Pers. Mgr
R C Keith, Office Mgr
W.C. Lake, Pur Agt
J.C Lamy, Woods Mgr
Woodhandling and Preparation Barkers. 2 26" mechanical. Chippers 1-96" 12-knife Avg Daily Use of Peeled Pulpwood 400 cds
Pulp Mill Defibrated Wood Pulp Avg Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle. Pulp Processing Stock Refiners 9 Bauer disc.
Paper Mill Stock Preparation Pulpers 1 Jones Refiners 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines 1 Fourdrinier 160" Width 156" Trim
1 Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt 2 20-deck presses, 1 22-deck press
Steam/Power. Power Boilers 3 Fuel Coal/Wood Waste. Steam, lbs hr 240,000 Press., 900/300 psi.
Electricity Purchased 100,000 kwh/day Generated: 200,000 Turbogenerators: 1 GE 7500 kva
Water Treatment. Daily Usage, 2,000 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons
Products. S1S and S2S hardboard, 380 MMsf annually (400 tons daily)

MHI-00162

Fletcher Paper Co 318 W Fletcher St 49707
Tel 517 354 2131
RR D&M siding Hwys US Rte # 23 State Rte # 32
Allan M Fletcher Pres Treas
John T Fletcher Vice Pres
R Werner Sec Pur Agt
Charles S White Gen Mgr
A J Steper Gen Supt
D Gouin Paper Mill Supt
William S Grimes Mgr Tech Pprs
E J Grys Tech Dir
R J Bowes Chief Engr
Orville Fleming Fnshg Supt
John Stretchko Traffic Mgr
H S Granstrom Sales Mgr
Paper Mill Stock Preparation Pulpers 3 Hydrapulpers Screens 2 Selectifier Refiners 3 conical 2 disc Jordans 3 Jones
Paper Machines 1 Fourdrinier 112 Width 100 Trim 750 fpm
1 Fourdrinier 112" Width 100 Trim 1400 fpm
Dryers Drums 62 Size Presses 2 Calenders 2 stacks Winders 2
Coaters, off Machine 1-60" Roll-Blade-Gravure 10 tpd capacity
Finishing Plant Sheeters 1 72 1-100 Trimmers 3-65 72' 85
Steam/Power Power Boilers 1 Fuel Gas/Oil Steam lbs hr 60,000 Press 450
Electricity Freq, phase 60 3 Generated 72 000 kwh/day
Water Treatment. Daily Usage 700 M g p d Source River
Effluent Treatment. Primary Treatment 1 Clarifier Secondary Treatment Settling pond
Products. Airmail and cotton fibre bond absorbent, bible offset carbonizing, chart coating base filter, label manifold map, music onionskin opaque bond release, saturating, sensitizing, technical wet strength and writing papers 65 tons daily



BATTLE CREEK

Michigan Carton Co (Div of St Regis Paper Co) 79 E Fountain St 49016
Tel 616-963-5511
RR PC, GTW siding Hwys US Rte # I-94 I-69 State Rte # 66,37,89
L.G. Fell, Chmn
Dan Int-Hout, Jr, Pres
Carlton H. Cameron Sr Vice Pres, Mfg
R.A. Armstrong, Vice Pres, Paperboard Mfg
Robert G Pender Vice Pres., Natl Accts
L.J Philipps, Vice Pres., Engrg
J.L. Barclay, Vice Pres, Plnng & Procurement
N W Schmitzer Vice Pres, Treas
R W Ryan, Vice Pres., Ctn Sales
T.A. Tiffany, Supt., Fountain St. Mill
L.A. Carlson, Supt., Angell St. Mill
Edwin H Cole, Research Mgr
C.G Eckhart, Tech Dir
Earl J Breen, Carton Div Supt.
J G McCarthy, Sec., Contr
Virginia O Leonard, Asst Sec
Verne K Livingston Asst Treas
D P Van Dyk, Pur Dir
W D Chichester, Traffic Mgr
D Keith Steffee, Ind Rel Mgr
Paper Mill Stock Preparation Pulpers 3-4000 lb and 3-3000 lb Morden Slushmaker 1-14', 3-16, and 1-20 Hydrapulpers 1-3000 lb Beaters 1-2000 lb broke Refiners, 4 Hydrafiners, 1 Jones DD 3 Disco, 2 Bauer Jordans 15
Paper Machines Beloit Eight-Cylinder 130" Trim 1000 fpm
Stevens Formers 1 seven unit, 120" trim, 750 fpm
1 six-unit Ultraformer 98" wide, 96" trim 450 fpm
Dryers Drums 283-60" Calenders 7 stacks, 1 breaker stack Hi-Velocity 2 gas infrared.
Coaters, On-Machine Air Knife, 1-130' 1-98" 1-122" On-Machine Trailing Blade, 1-130', 1-98', 1-122" On-Machine Rod 2-130"
Steam/Power Power Boilers 3 Fuel Oil/Gas Steam, lbs hr 240 000
Electricity Purchased 2,500 kwh/day Generated 7,500 kwh/day Turbogenerators 2-8500 kw/kva
Water Treatment. Daily Usage 5,000 M g p.d Source River
Effluent Treatment. Primary Treatment. Effluent to municipal plant
Products. White clay coated white lined news, solid kraft kraft lined chip plain and bending chip bleached manila lined manila lined vat lined boxboards, 450 tons daily

BIRMINGHAM

★**Abitibi Corp, Bldg Products Div** 1400 N Woodward Av 48011
Headquarters Location See Executive Offices section for more details

CHEBOYGAN

Charmin Paper Products Co S Main St 49721
Tel 616 627 5664
RR D&M siding Hwys US Rte # 27
H A Bullard Plant Mgr
Paper Mill Paper Machines Yankee Fourdrinier 136 Width 130 Trim
Yankee Fourdrinier 136 Width 130 Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Industries, Inc Centreville Rd 49042
Tel 616-435 2425 Telex 510-398 5730
RR PC siding Hwys US Rte # 131
Dick Runyan Paper Mill Mgr

MHI-00163

GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP

100 PARK AVENUE NEW YORK, N. Y. 10017

William Maxon Plant Engr

Paper Mill Stock Preparation Pulpers 2 Screens 6 Jordans 6 Other Eqt. 1 disc filter
Paper Machines Six-Cylinder 108" Width 98" Trim

Steam/Power. Power Boilers Fuel Gas/Oil Press 150
Electricity Freq. phase 440 v. 60. 3 Purchased 100%

Water Treatment. Daily Usage. 200 M.g p d Source River

Effluent Treatment. *Primary Treatment: Effluent to municipal plant*

Products. Chipboard. 50 tons daily

DETROIT

Scott Paper Co. Packaged Products Div 9125 W Jefferson Ave 48209

Tel 313-842-0042

RR Penn Cntrl siding, Rouge Yard Hwys. US Rte # I-75

Martin F Schnaufer, Gen Mgr
James S Brown Prod Mgr
Kenneth S Sexton, Paper Mill Mgr
Charles L Jennings, Paper Mill Mgr
Thomas W Cosgrove, Tech. Dir
Donald Grace, Plant Engr
Linda DiNaro Chief Consumer Rep
R P McConkie Fnshg Supt
Charles G Allen Safety & Srvcs Mgr
T T Feliks Acctg Mgr
Harold B Randolph Pur Agt
John R Hulbert Plant Traffic Mgr
William H Cope Pers Mgr
Lloyd H Jewell Sales Mgr Warren Grades

Paper Mill Stock Preparation Pulpers 3 Liebeck, 1 Pulpmaster I Dualator 2 Slushmaker, 2 Jones, 1 Hymac Refiners 5 double disc, 1 Morden Jordans 5
Paper Machines 2 Yankee MG Fourdrinier 132' Width 124 Trim
1 Yankee Fourdrinier 136' Width 124" Trim
1 Yankee Fourdrinier 142" Width 120" Trim
Dryers Yankee 4
Finishing Plant Other Eqt Toilet tissue and napkin converting machinery

Steam/Power Power Boilers 3 Fuel Gas/Oil
Electricity Generated 100%

Water Treatment. Daily Usage. N A M g p d Primary Treatment Yes

Effluent Treatment. Primary Treatment. City System

Products. Toilet napkin wiper waxing, toweling, MG carbonizing, twisting bleached and colored tissue papers 190 tons daily Packaged products roll *toilet tissue napkins, wipes*

ESCANABA

Escanaba Paper Co (Sub of Mead Corp, Paper Group) 49829

Tel 906 786 1660

RR C&NW Soo Line sidings Hwys US Rte # 2 4 1 State Rte # 35

J M Owens Gen Mgr
Dudley Grantham Prod Mgr
O C Christiansen Tech Dir
R Moore Tech Supt Kraft Mill
G Eastin Mgr Srvc Opers
H D Hamilton Mgr Plant Engrg
J L Parr Enviro Control Supv
W J Mulvaney Mgr Prod Control
J C Husky Mgr Acctg
H J Vanterbergne Traffic Mgr
E S Beck Dir Ind Rels
R Tompkins Pub Rels Mgr
Lynn S Sandberg Gen Mgr Woodlands

Woodhandling and Preparation Log Handling Live decks Chip Handling Rader pneumatic system Barkers 2 12 x 80 drum, 1 22" Nicholson hydraulic Hogs 1 Gruendler bark Chippers 2 15 knife 1 12 disc 1 84 Nicholson Chip Screens 1 KMW

Pulp Mill Kraft Avg Daily Prod Bl Swd 200 tons Bl Hwd 400 tons of which 150-300 tons is Market Pulp Batch Digesters 6-6,500 cu ft. each
Ground Wood Refiner Avg Daily Prod Bl Hwd. 150 tons Refiners 4 primary, 2 secondary Sprout Waldron 42-18 disc
Chemical Recovery Plant Evaporators. 1 6-effect Swenson Recovery Boilers 1 B&W, 2 400,000 lbs solids/day 300,000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators 1 Western Precipitation Lime Kilns. 1 Allis-Chalmers. Gas Scrubbers. 1 Ducon on recovery boiler 1 ventun on kiln. Lime Mud Washers 1 8 x 12' D-O Recausticizing System Dorr-Oliver
Bleach Plant Sequence Gwd 1 stage Kraft. C-E-D-E-D Chlorine Dioxide System. Hooker SVP system
Pulp Processing: Knotters Gwd 2 A-C vibrating Kraft SW Hooper centrifugal Drainers Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners Gwd. 2-26' S-W Twin-Flo Rejects Refiners Gwd. 1 Bauer Screens Gwd 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft: Bird Centrisorters Cleaners Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd 1-8'x16' Impco bleach Kraft: 3-13½ x24 Impco brown stock, 5-13½ x24' Impco bleach Washers Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft. 1-13½ x24 Impco.
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying. 166" width, 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys: 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers 2 Hydrapulpers, 2 continuous Morden 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300 Width 274' Trim 3000 fpm
Dryers Size Presses 2 Calenders 2 stacks Reels 2 Re-reelers
Coaters, off Machine Trailing Blade, 2-286", 2-172' double blade for C2S off Machine Cap Coated Paper 500 tons
Finishing Plant Supercalenders 2 278' 9-roll Appleton Roll Wrapping Eqt Lamb-Grays Harbor automatic Rewinders 3-2 drum 156 Cameron, 2-MIR 278' Cameron Sheeters 3 Hamblet Trimmers 4 Seybold

Steam/Power Power Boilers 3 Fuel Oil/Gas/Bark Steam lbs hr 1 000 000 Press 400/1500
Electricity Freq phase 60 3 Installed H P 75 - 000 Generated 50 000 kwh/day Hydroelectric 2 000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment Daily Usage 28 000 M g.p d *Source Lake Michigan Primary Treatment Sand* filters

Effluent Treatment Primary Treatment Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier

Products. Coated book and publication papers 600 tons daily

FILER CITY

Packaging Corp of America 49634

Tel 616 723 9951

RR C&O siding Hwys US Rte # 31

J L Ham Vice Pres & Mgr

Woodhandling and Preparation Roundwood Storage Capacity 26 000 Cords Barkers 5 drum Chippers 1 90 10-knife 1 96 15-knife Chip Screens 4

Pulp Mill Semi Chemical NSSC Avg Daily Proc 400 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant Evaporators 1 multiple effect Recovery Boilers 1 B&W
Pulp Processing Stock Refiners 2 American Defibrator Rejects Refiners 5 Sprout Waldron Screens 2 centrifugal Washers 2 vacuum

Paper Mill Stock Preparation Pulpers 3 Refiners 2 Jones disc 4 Sutherland Jordans 9 Miami
Paper Machines 1 Fourdrinier 174' Width 158 Trim 1000 fpm
1 Fourdrinier 160' Width 148' Trim 750 fpm
Dryers Drums 130 60 dia
Finishing Plant Rewinders 1 Sheeters 3 Trimmers 3

Steam/Power Power Boilers 4 Fuel Coal/Oil/Gas Steam, lbs hr 600,000 Press 610
Electricity Purchased 1500 kw Generated 17, 500 kw Turbogenerators 3-21,875 kva total

Effluent Treatment. *Primary Treatment: Yes. Secondary Treatment Yes*

Products. Corrugating medium 400 tons daily

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div (Sub of SCM Corp) 1608 Lake St. 49003

Tel. 616-345-7131

Headquarters Location See Executive Offices section for more details

RR Penn Cntrl sidings Hwys US Rte # IS 94, 131 State Rte # 43,96

Steam/Power. Power Boilers Fuel Oil/Gas

Water Treatment. Source River Wells.

Effluent Treatment. Primary Treatment. 2 clarifiers

Products. Adding machine bible, bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf, box cover carbonizing cover, direct process drawing duplicator envelope foil mounting, gift wrapping, greeting card gumming, label, ledger map, mimeo offset opaque, papetene, place mat, post card, poster, register sensitizing, tablet, text vellum xerographic antitarnish, bank note blotting, litho chart, music pattern watermark. 450 tons daily Coated electrostatic base master and *specialites, 75 tons daily Coated two sides matte* finish book, 100 tons daily

Allied Paper Inc. Bryant Mill 49003

Kenneth Sweet Gen Supt Book Paper Mill
C.J Bos, Mgr Coating Mill

Paper Mill Paper Machines 1 Fourdrinier 137" Width 124 Trim
1 Fourdrinier 139" Width 126' Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142' Trim
1 Fourdrinier 164" Width 152' Trim
Coaters off Machine C2S Fountain Blade, 126" trim C2S Reverse Roll 74 trim Air Knife, 72" trim
Finishing Plant Supercalenders Rewinders Sheeters Lenox cut-size Trimmers Ream Wrapping & Cartoning Other Eqt automatic counters

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, Gen Supt

Paper Mill Paper Machines 1 Fourdrinier 126" Width 108' Trim
1 Fourdrinier 133" Width 112" Trim

Brown Co. Specialty Papers Div 243 E Paterson St 49007

Tel 616 383 5000

RR Penn Cntrl CK & S siding Hwys US Rte # 12 131 I-94 State Rte # 43

William Fredericks Paper Mill Gen Supt
Charles C Brown Mgr Proc Control
Harry Pratley Mgr Qual Control
D Feldmann Mgr Util Maint & Power
Lyle Alrick Shipping Supt
K Matveia Mgr Mfg. Cnvtg

J. E. SIRRINE COMPANY

ENGINEERS SINCE 1902 AN EMPLOYEE OWNED COMPANY

216 S Pleasantburg Drive Greenville S C 29606 • (803) 271 9350
1900 Yorktown San Felipe Green Houston Tex 77027 • (713) 626 /960
2610 Wycliff Road Raleigh N C 27607 • (919) 782 8900

MHI-00164

MULTI-METAL WIRE CLOTH Inc.
501K ROUTE 303
TAPPAN, N. Y. 10983

FOR BROWN STOCK, BLEACH AND SLIDE HILL WASHERS • DECKERS • "SAVE-ALLS" • LIME MUD FILTERS

John P Delanty, Mgr Sales & Mktg
B Long, Ind Rels Mgr

Paper Mill Stock Preparation Pulpers 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Jordans: 8 Majestic '7 Fibremaster

Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim
P&J Fourdrinier 163" Width 148" Trim
B&S Fourdrinier 165" Width 148" Trim
Beloit Fourdrinier 167" Width 148" Trim
2 Yankee Fourdrinier 139" Width 126" Trim
Dryers Calenders. 10 stacks..
Coaters, off Machine. Air Knife. 1. Blade. 2. Solvent: 1.
Finishing Plant. Supercalenders: 3 Rewinders: 6. Sheeters: 8. Trimmers. 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Water Treatment. Daily Usage, 7,000. M.g.p.d. Source: River, well

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorchemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers Mill No 1: 120 tons daily. Mill No 2 280 Tons daily

Brown Co. Combination Paperboard Div. 243 E. Paterson St. 49007

Tel 616-383-5000
RR PC, CK & S siding Hwys. US Rte # 12, 13, I-94 State Rte # 43
Dick Bennett, Board Mfg Mgr
Harold M Hoogsteen, Tech Dir
Bruce D Wagner, Pur Agt
Robert Nitz, Proc Control Engr
Gordon Hinga, Mgr, Paper Stock
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers 9 Hydrapulpers, 1 Morden Slushmaker Beaters, 1 continuous broke Refiners 8 Hydrafiners, 2 Morden stockmakers Jordans 10

Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine Air Knife, 2
Extrusion, Trim Width, 1-76" Beloit, 1-55" Egan PE coaters.
Finishing Plant Other Eqt 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators

Water Treatment. Daily Usage, 4,000 M.g.p.d Source. Deep well

Effluent Treatment. Primary Treatment City syst.

Products. Folding boxboards, machine clay coated, white patent coated news, bleached and single manila lined chip white and news vat lined chip, solid and news lined chip, plain and bending chip, sulphite lined manila, foil laminating, grease and moisture resistant laminated, polyethylene coated, hot waxed and cold water waxed boards, 300 tons daily

Georgia-Pacific Corp. Printing Paper Div 2425 King Hwy (PO Box 2738) 49003

Tel 616-382-2890
RR PC, GTW, siding Hwys US Rte # I-94
William R Walsh, Res Mgr
G Robinson Prod Mgr
Fred Cooper Mgr Paper Mchne Oper
D Van Brugger, Paper Mchne Supt
E Vinning, Paper Mchne Supt
Al MacNair, Tech Mgr
Fred J Shelton Plant Engr
W Bongers, Power Supt
Philip S McKensie Fnshg Supt
T Ellsworth, Plant Contr
John P Gideon, Pur Agt.
James H Cox, Traffic Mgr
David Boring, Ind Rels Mgr

Pulp Mill Deinked Pulp Avg Daily Prod. 80 tons

Paper Mill Stock Preparation Pulpers 6 Beaters 4-1500 lb, 6-2500 lb, 2-3500 lb Jordans. 14

Paper Machines 1 Fourdrinier 142" Width 130" Trim 750 fpm
1 Fourdrinier 167" Width 156" Trim 800 fpm
1 Fourdrinier 180" Width 167" Trim 1500 fpm
1 Fourdrinier 170" Width 156" Trim 2000 fpm
Dryers. Size Presses: 1 plus 3 tub.
Finishing Plant. Supercalenders: 6-62", 62", 90", 90", 90", 100". Rewinders: 4. Sheeters: 4. Trimmers: 4.

Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.. 350,000. Press.: 450/275
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.

Water Treatment. Daily Usage, 8,000 M.g.p.d Source: River.

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.

Products. Bible, bond, book (antique, bulking, eggshell, EF, MF, supercalendered, offset, coated), braille, text, cover, box cover, check, duplicator, text, drawing, litho, mimeo, manifold, embossing, envelope, greeting card, gumming, label, ledger, MICR, music, papetene, playing card, postcard, poster, register, bond, salesbook, straw, tablet, tea bag, vellum, watermarked, writing, 425 tons daily.

Hawthorne Paper Co Inc. Sub. of Gould Paper Corp. King Hwy. (PO Box 2858) 49003

Tel 616-345-1163 Telex: TWX: 810-227-2503
RR: Penn Central siding. Hwys: State Rte # 96.
J.W. Winn, Pres.
Wayne E. Kendrick, Vice Pres
J Bergman, Vice Pres Fin
T.F. Sullivan, Vice Pres Mfg
D Hughes, Gen Supt
E.M Betz, Traffic Mgr.
D Ulsh, Mgr Mktg Srvcs

Paper Mill Stock Preparation Pulpers: 4 Apmew. Refiners 4 Morden, 2 Claflin Jordans 3 Jones Imperial.

Paper Machines. Beloit Fourdrinier 105" Width 90" Trim 600 fpm
Beloit Fourdrinier 92" Width 80" Trim 600 fpm
Dryers. Drums. 28, 28-42" dia. Size Presses: 2 on each machine Calenders: 2 stacks Reels. 2 vertical Winders: 2 2-drum..
Finishing Plant Rewinders 1-Cameron 52". Sheeters: 1-Clark-Aiken 100" duplex Trimmers: 1-Lawson 110", 1 Seybold 95"

Steam/Power. Power Boilers. 2. Fuel Coal. Steam, lbs hr. 50,000 Press. 150
Electricity Freq, phase. 60, 3 Purchased 100%

Water Treatment. Source. Wells Primary Treatment. Filtration

Effluent Treatment. Primary Treatment Joint Industry - City Treatment Plant

Products. Sulphite and cotton-content bond, ledger, index, offset, text, cover, wet strength map, chart, poster and other specialties, 60 tons daily

Minnesota Mining & Mfg. Co. Paper Products Div 49003

Paper Mill Is Dismantled

National Gypsum Co. 2305 E King Hwy 49001

Tel 616-343-1579
RR Penn Cntrl siding Hwys. US Rte # 12
William Bechtel, Plant Mgr
J Waber, Mill Supt
Lee Webster, Maint Supv
F B Mack, Steam Supv
D R Thompson, Office Mgr
Carl Groesbeck, Plant Buyer

Paper Mill Stock Preparation. Pulpers 2 Hydrapulper Refiners 3 Sprout Waldron Jordans: 2 Shartle

Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers. Drums. 110 Infrared: 30 Calenders. 2 stacks
Finishing Plant Rewinders 1.

Steam/Power. Power Boilers 2 Fuel Gas/Oil Steam lbs hr 70,000
Electricity Purchased 48,000 kwh/day

Water Treatment. Daily Usage, 580 M.g.p.d Source Wells, City

Effluent Treatment. Primary Treatment 1 Clarifier

Products. Gypsum board liner, 155 tons daily

L'ANSE

Celotex Corp. Sub of Jim Walter Corp PO Box 86 49946

Tel 906-524-6101
L.W. Swanson, Plant Mgr
R. J. Slattery, Gen Supt
R.A Soli, Plant Contr
B. C. Penokie, Plant Engr
T Barthell, Tech Srvc Mgr

Woodhandling and Preparation Chip Handling: Chain, belt conveyors. Chippers: 1 85" Charthage. Chip Screens. 1 three-deck Dillon.

Pulp Mill Defibrated Wood Pulp. Continuous Digesters: 3 Defibrators.
Pulp Processing: Stock Refiners: 3 Asplund disc.

Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers. 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.

Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater.

Steam/Power. Power Boilers: Steam, lbs hr.: 93,000
Electricity Purchased. 100,000 kwh/day

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source Bay

Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily

MANISTIQUE

Manistique Pulp & Paper Co. Div of Field Enterprises, Inc. P. O Box 111 49854

Tel: 906-341-2175
RR: Soo Line sidings. Hwys US Rte # 2.
Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Harry Hastings, Paper Mchne Supt
George Bouscher, Plant Engr
Lois Ott, Asst Sec Treas
Francis J Kasun, Pur Mgr
John H Orr, Sales Mgr.

Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds. Mobile Equipment: 2-cranes. Slashers. 1. Barkers 1 drum. Bark Presses: 1. Hogs 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.

Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg Daily Prod.: 75 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan

Paper Mill Stock Preparation. Pulpers: 2 Jones. Refiners 1 Claflin

Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers Drums. 40-60" dia Size Presses: 1. Calenders 1 Reels. 1. Winders 1 Cameron.

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr 75,000 Press.. 350
Electricity Purchased: 5000 kwh/day

Water Treatment. Daily Usage, 2,500 M.g.p.d. Source River Primary Treatment: Yes

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Settling pond.

Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily

MENOMINEE

Menominee Paper Co Inc. 144 First St (PO Box 300) (Sub of Bell Fibre Products Corp.) 144 First St. 49858

Tel 906-863-5595

MHI-00165

GOTTESMAN & CO., Inc. • FLUFF DRIED GROUNDWOOD

100 PARK AVENUE NEW YORK, N. Y. 10017

Hwys US Rte # 41. State Rte # 173.
Ernest Graham, Gen Mgr
J W Ehrhardt, Paper Mill Supt
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
John A. Gasperi, Cnvtg. Supt
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans 5
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Coaters, On-Machine. Trailing Blade, 1 Rice Barton on food board machine
Finishing Plant. Supercalenders: 2. Rewinders. 2. Other Eqt.. Waxers: 5

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 140,000
Electricity: Purchased: 1,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators 2.

Water Treatment. Primary Treatment: Yes.

Products. Linerboard, waxing tissue, 350 tons daily Waxed paper in rolls and sheets

Scott Paper Co. 26th St. 49859

Tel: 906-863-2004
RR: C & NW, CM StP & P Hwys. US Rte # 41.

Woodhandling and Preparation Roundwood Storage Capacity: 6,000 cds. Avg. Daily Use of Peeled Pulpwood. 24 cds

Pulp Mill Ground Wood, Stone Avg Daily Prod.: Unbl. Swd., 22 tons Grinders: 4 three-pocket.
Pulp Processing. Rejects Refiners. 1 disc. Screens 4
Pulp Drying Wet Machines: 4
Pulp Mill Is Idle.

Products. Groundwood pulp, 22 tons daily for own consumption

MONROE

Consolidated Packaging Corp. 921 E Elm Av (PO Box 724) 48161

Tel 313-241-9000
RR Penn Cntrl sidings. Hwys. US Rte # I-75 State Rte # 56,24A.
George C Baron, Gen Mgr, Corr Med. & Liner Mill
Robert Lajness, Mill Mgr, Boxboard
Al Duvall, Chief Engr
Elliott Rose, Paper Stock Buyer

Paper Mill Stock Preparation Pulpers 4 Hydrapulpers (liner), 7 Hydrapulpers (bxbd), 8 Dynapulpers (bxbd) Beaters 2 Dilts (liner), 4 Dilts breaker (bxbd) Refiners: 4 (liner), 2 (Corr), 4 (bxbd). Jordans 8 (liner), 4 (Corr), 20 (bxbd). Other Eqt.. 2 200 tpd. asphalt dispersion sys
Paper Machines Linerbd Seven-Cylinder 140" Width 118" Trim 600 fpm
Bxbd Eight-Cylinder 102" Trim
Bxbd Seven-Cylinder 112" Trim
Bxbd Seven-Cylinder 112" Trim
CorrMed Fourdrinier 132" Width 115" Trim 1000 fpm
CorrMed Fourdrinier 96" Width 84' Trim 700 fpm
Dryers Drums 754 Size Presses 2 on Bxbd machines Calenders 9 stacks
Coaters off Machine Air Knife 1-72" on bxbd 450 t.p.d capacity
Finishing Plant. Rewinders 5 Trimmers 4-64", 72" 84' 84'

Steam/Power Power Boilers 4 Fuel Coal Steam lbs hr 200,000 Press. 250
Electricity Freq, phase 220/440v 60, 3. Purchased 200 Mkw Generated 100 Mkw Turbogenerators 2-1500, 2500 kw/kva

Water Treatment. Daily Usage. 2,500 M.g.p.d. Source Wells, Lake

Effluent Treatment. Primary Treatment. Clarifiers. Secondary Treatment Lagoons.

Products. Test liner, 160 tons daily, corrugating medium, 230 tons daily; folding boxboard, clay coated boxboard, automobile panel board, resin forming board pasted boards, 425 tons daily

Time Container Corp. Monroe Div. 1151 W. Elm Av. 48161

Tel: 313-241-3220
RR: C&O siding. Hwys: US Rte # 24, I-75.
James V. LaMarre, Pres, Gen Mgr
Daniel Staelgraeve, Crrgtd Gen Mgr.
Edward D O'Brien, Paper Mill Supt
Robert Bert, Asst Mill Supt
Brad Sorter, Chief Chemist
George K Whitaker, Chief Engr.
Charles Robertson, Paster Supt.
Delbert Broughton, Plant Contr.
William A Finn, Pur Agt.
Irving Kuklo, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 1 Emerson. Jordans: 10 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders: 2 stacks. Winders: 1..
Finishing Plant. Rewinders: 1. Trimmers: 2.

Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Joint municipal-industrial system.

Products. Test linerboard, pasted chip, plain chip, single and double lined and solid boxboard, lightweight chip, panel board. 110 tons daily

Union Camp Corp. Unbleached Paper & Board Div. 1109 E. Elm St (PO Box 588) 48161

Tel. 313-241-7700
RR: PC, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
T.C. Owen, Res Gen Mgr
J. Fuko, Mill Mgr
J.R. VanSlambrouck, Gen. Supt.
E.J. McCue, Tech. Supt.
A.L. Gordon, Mill Engr.
H.C. Brothers, Dir. Prchsg
E.L. Kelley, Mill Sales Mgr
J.T. Landwehr, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers: 1-15' Apimew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier Refiners: 6-32" Bauer 442 disc Jordans: 6 Miami 2A, 2 Emerson 2-OD Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators: 4 Bird.
Paper Machines B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums. 127, 103, and 137-42" dia Reels. 2 Pope, 1 upright Winders 3 two-drum.

Steam/Power. Power Boilers 1. Fuel Coal Steam, lbs hr. 200,000 Press 600 psi.
2. Fuel Gas/Oil Steam, lbs hr.. 140,000 Press.. 175 psi
Electricity Freq, phase 60, 3 Generated. 9850 kwh/day Turbogenerators. 2-7500 kw, 1000 kw, 1-1000 kw and 1-350 kw diesel generators

Water Treatment. Daily Usage. 4,000 M.g.p.d. Source: Lake Erie. Primary Treatment: None

Effluent Treatment. Primary Treatment: 2 50' Clarifiers Secondary Treatment Municipal Sys

Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WF chip filler and partition boards. 300 tons daily

MUNISING

Kimberly-Clark Corp. PO Box 10 49862

Tel 906-387-2700
RR: LS&I Hwys State Rte # 28,94
E Masak Jr, Mill Mgr

Paper Mill Paper Machines 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 3 Saturators 5
Finishing Plant Supercalenders 1-94" Rewinders 5, Sheeters. 3, cap. 60 tpd Other Eqt.. 1 Embosser 1 Laminator

Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, saturating, coated and saturated specialties, 78 tons daily

MUSKEGON

Tekmold Inc 2850 Lincoln St 49441

Tel: 616-755-1662
RR. GTW siding Hwys: US Rte # I-196. State Rte # 16,31.
Richard Straus, Pres
R. Berry, Vice Pres Mfg
Paul Vanderwerf, Vice Pres Sales
Robert Hasper, Contr
Frank Gregory, Sec

Paper Mill Stock Preparation. Pulpers: 6.
Paper Machines. 2 moulding machines..

Water Treatment. Daily Usage, 30. M.g.p.d. Source: Well.

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Molded pulp interior protective packaging, 8 tons daily.

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443

Tel: 616-755-3761 Telex: 510-394-4300
RR: C&O siding. Hwys. US Rte # 16,31,196. State Rte # 46
C.W. Van Orman, Res. Mgr.
H.J. Roehner, Prod. Mgr
John S Moran, Pulp Mill Supt.
J.W. Decker, Asst Pulp Mill Supt.
M.E. Gunn, Paper Mill Supt.
M.B. Henderson, Asst. Paper Mill Supt.
J.R. Johnston, Spclty Paper Mgr.
Carl E Kilpatrick, Tech Dir.
W.A. Wrase, Chief Engr
T. Boorsma, Mgr of Maint.
P.T. Kirk, Qual Control Dir
D.L. Tyler, Coating Supt
D.R. Burling, Fnshg/Shppg Supt.
E.G. Soule, Steam/Power Supt.
William Holtzclaw, Pur. Agt.
D. DeGlopper, Traffic Mgr
P. Schuiteman, Ind Rels Mgr
J.N. Fields, Wood Procurement Mgr.

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Avg Daily Use of Peeled Pulpwood: opto RR crane, Poclain crane. Flume: 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system Chip Unloaders: Hydraulic truck dumper. Barkers. 1-30 cds/hr Manitowoc drum. Hogs. 1 Montgomery Chippers: 1 15 knife Carthage Norman Chip Screens 3 Link Belt. Avg. Daily Use of Peeled Pulpwood: 182 cds swd, 270 cds hwd

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 84 tons Bl. Hwd., 156 tons of which 60 tons is Market Pulp.
Continuous Digesters: 1 Kamyr.
Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquor Oxidation System: Champion system Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers. 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant Sequence: C-E-H-D. Towers: 4. Mixers 4 Thick Stock Pumps: 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters. 3 Impco. Screens: 3 Cowan Cleaners 1 three-stage Bauer system Washers 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt. 6 pre-refiners (bleached stock).
Pulp Drying Wet Machines 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales. 1

Paper Mill Stock Preparation Pulpers. 7 Vokes rotor Hydrapulper Screens 4 Selectifiers. Refiners. 5 Claflin, 1 double disc Jordans. 7 Shartle. Cleaners. 4 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators. 14 DeZurik, 5 Foxboro Size Cookers 1 continuous, 8 batch.
Paper Machines Horne Fourdrinier 135" Width 122" Trim (idle)
Horne Fourdrinier 110" Width 98" Trim (idle)
Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm

MHI-00166

THE PAPER TIGERS
Howard Zuker Associates / Chicago 60611 / Phone. 312 / 664-5700

Dryers. Drums: 40 and 27 48", 55 and 69 60" dia Hi-Velocity. 2. Size Presses: 4. Calenders: 5. Reels: 4 Pope. Winders 4 two-drum..
Coaters. On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
off Machine. Air Knife: 1-105". Roll: 1-100", 1-62" Capacity coated paper, 160 tons daily.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 11-100" to 112". Trimmers: 5-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.. 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 25,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, text, cover, specialty papers, 350 tons daily.

NILES

French Paper Co. 100 French St. (PO Box 729) 49120
Tel: 616-683-1100
RR: Penn Central siding. Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Pres, Treas
B.R. Bigford, Exec Vice Pres
T.R. Friedrich, Vice Pres, Mfg
R.D Clark, Vice Pres., Sec.
J.S. Taylor, Mill Supt
R.A. Engberg, Chief Engr
R. Etzcorn, Pur Agt.
R.W. Meyers, Traffic Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker Refiners: 2 Claflin. Jordans: 4
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders 3..
Finishing Plant Sheeters: 3 Trimmers. 2. Other Eqt.. 2 Embossers
Steam/Power. Power Boilers: Fuel: Coal Press 150
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 1600 electric. 1600 water
Water Treatment. Daily Usage, 800. M.g.p.d Source: Deep wells
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Under construction
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 65 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49120
Tel 616-683-4100 Telex: 258459
RR. Penn Central Hwys US Rte # 12,31. State Rte # 60,40
James M Harcus, Vice Pres Plant Dir
Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Chief Engr
George Halliwell, Mgr of Maint
A.O Morningstar Plant Contr
Earl Stevens, Pur Mgr
A Seaman Traffic Mgr
Robert S Wolff Ind Rels Dir
Paper Mill Stock Preparation Pulpers 3 Dynapulpers. Screens 1 Refiners 4 Jordans 1 Cleaners. 5 Consistency Regulators. 2
Paper Machines Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers 1-162" wide. 150" trim. 1000 fpm.
Dryers Drums 8 and 12 - 48" dia Calenders: 1 7-roll, 1-2 roll Reels. 1 stock, 1 Pope. Winders 2 Shear-Cut
Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam lbs hr 35000 Press. 100 psi
Electricity Freq, phase: 60, 3. Installed H.P. 3,264 Purchased 32,000 kwh/day
Water Treatment. Daily Usage, 1,000 M.g.p.d Source Wells.
Effluent Treatment. Primary Treatment: Yes
Products. Pattern tissue, 33 tons daily

ONTONAGON

Hoerner Waldorf Corp. Mill Div 115 Lakeshore Rd. 49953
Tel: 906-884-4121
RR: Milw Rd, siding. Hwys: US Rte # 45. State Rte # 64
John E. Hoeft, Vice Pres, Res Mgr
K.E. Pickering, Opers Mgr
E.G. Barradas, Paper Mill Supt.
A. Szarofetta, Pulp/Power Supt
R.L. Fitze, Chief Engr
R.L Cross, Woodlands Mgr
Woodhandling and Preparation Roundwood Storage Capacity. 20,000 cds.. Chip Storage Capacity: 50,000 cds.. Mobile Equipment. 1 Pettibone carry lift, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Barkers: 1-30" Beloit mechanical. Hogs. 1 Jacksonville Blow Hog. Chippers: Beloit 114". 14-knife. Rechippers: 1 Murray Chip Screens. 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd. 250 cds.
Pulp Mill Semi-Chemical, NSSC. Avg Daily Prod. Unbl. Hwd., 220 tons Continuous Digesters. 2 Pandia.
Chemical Recovery Plant Evaporators. 4-Conkey Recovery Boilers. 1 C-E, 15,000 lbs steam/hr. @ 175 psi.
Pulp Processing: Hot Stock Refiners. 2 American Defibrator. Stock Refiners 4-36" Sprout Waldron double disc Washers. 2 Swenson.
Paper Mill Stock Preparation Pulpers 1-100 ton Refiners. 3 Bauer 440, 2 Sprout-Waldron pump-through Jordans 3 Jones Majestic. Cleaners Bauer Centricleaners. Consistency Regulators. DeZurik
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1200 fpm
Black Clawson Fourdrinier 180" Width being installed, scheduled for operation in late 1974 will have 300 ton daily capacity
Dryers. Drums: 52. Calenders 1 stack. Winders: 1.
Steam/Power. Power Boilers Fuel. Coal/Oil/Gas Steam, lbs hr 250,000 Press 1500
Electricity Freq, phase 60 3 Installed H P 13500 Generated 240,000 kwh/day Turbogenerators. 1 GE. 15,000 kw
Water Treatment. Daily Usage, 5,000. M.g.p.d Source Lake Superior Primary Treatment: None
Effluent Treatment. Primary Treatment. Saveall
Products. Corrugating medium 275 tons daily

OTSEGO

Mead Corp. Paperboard Products Div P O Box 187 49078
Tel 616-692-6211 Telex 810-277-7240
RR PC siding Hwys Near US Rte # 131 Approx Mi 2 State Rte # 89.
Richard L Trueb Mill Mgr
Robert J Quinlan Opers Mgr
Ray W Peters Plant Engr
Howard J Klein, Cnvtg Supt
Linwood H Jennings, Mill Contr
Charles E Cushman Pur Agt
H H Kindig, Pers Mgr
Ted A Olsen Sales Mgr
Paper Mill Stock Preparation Pulpers 1-3000 lb Morden Slushmaker 2 Hydrapulpers Beaters 2-1500 lb Screens 8 Refiners 1 Bauer double disc Jordans 9 Cleaners 1 200 tpd sys with asphalt dispersion unit
Paper Machines Eight-Cylinder 142" Width 129 Trim
Dryers Drums 164 Calenders 2.
Coaters. On-Machine Air Knife 1 Roll 1
Steam/Power. Power Boilers 2 Fuel Gas/Oil Steam lbs hr 134,000 Press 875/300 psi
Electricity Freq, phase 60,3 Installed H.P 8000 Purchased 30,300 kwh/day Generated 85,200 kwh/day Turbogenerators 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage, 284 M.g.p.d Source. Wells Primary Treatment Chlorination Secondary Treatment: Iron stabilization
Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment: Aeration lagoon, 5 aerators
Products. Plain and bending chip, vat-lined, filled and solid news white vat lined, single manila lined, jute lined, mist gray, pasted, machine clay coated and white patent coated boxboards, 170 tons daily

Menasha Corp. Paperboard Div. N Farmer St. 49078
Tel: 616-692-6141
RR: PC siding Hwys: US Rte # 131. State Rte # 89
Richard Thorne, Gen Mgr
John Scott, Prod Supt
Paul Vestal, Asst Supt
Norman Johnstone, Tech Mgr
Norbert Zuendel, Plant Engr
James Sauer, Maint. Supt.
David Seiler, Proj Engr
Ron Thaxton, Proj Engr
Robert Gulbranson, Proj Engr
Walter Boettcher, Power Supt.
Lovell Van Fleet, Wood Room Foreman
G.A. McConney, Admin. Supt.
Lester Phillips, Pur Agt
John Hanson, Wood Dept Mgr
Woodhandling and Preparation Barkers: 1. Chippers: 1 10 knife, 88". Chip Screens 1. Avg Daily Use of Peeled Pulpwood: Hwd, 200 cds.
Pulp Mill Semi-Chemical, NSSC Avg Daily Prod.: Unbl Hwd., 225 tons Continuous Digesters: 1 vertical Asplund Defibrator
Chemical Recovery Plant Evaporators. Zimpro recovery system
Pulp Processing: Stock Refiners. 7 Sprout Waldron, 3 Bauer primary, 2 S-W, 3 Bauer Secondary, 2 disc presses
Paper Mill Stock Preparation Pulpers: 2 Hydrapulper Other Eqt 1 Impco disc filter.
Paper Machines 1 Fourdrinier 176" Width 160" Trim 1200
1 Fourdrinier 92" Width 80" Trim 700 fpm
Dryers Drums 56.
Steam/Power. Power Boilers. 4 Fuel Gas. Steam, lbs hr 270,000
Electricity Purchased: 4000 kw Generated: 4000 kw Turbogenerators 1-4000 kw/kva.
Water Treatment. Daily Usage, 1,500 M.g.p.d. Source Wells
Effluent Treatment. Primary Treatment: Submerged combustion Secondary Treatment: Aeration ponds
Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Industries, Inc. 49268
Tel. 313-265-5174
RR. PC siding Hwys US Rte # 223
Leon Maloney Mill Mgr
Paper Mill Stock Preparation Pulpers 1-10', 1-12', 1-16 Hydrapulpers Refiners. 2 Bauer disc Jordans 3 Other Eqt 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six-Cylinder 80" Width 78" Trim
2 Wet Machines 60" 130" trim
Steam/Power Power Boilers. Fuel Gas Press 150
Electricity Freq, phase 60, 3 Purchased 100%.
Water Treatment. Daily Usage, 185 M.g.p.d. Source River
Effluent Treatment. Primary Treatment Yes
Products. Chipboard, reinforced and saturated building board waterproof paper and boxboard, 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. Div of Nicolet Paper Co. 200 Allegan St 49080
Tel 616-685 5851 Telex TWX. 810-277-4990
RR PC siding Hwys US Rte # 131 State Rte # 89
Richard L Ract Exec Vice Pres, Gen Mgr
William C Anderson Vice Pres, Mktg

MHI-00167

PERRY H. KOPLIK & SONS, INC.
654 MADISON AVE. • N.Y.10021 • (212)PL 2-2288
TWX: (710) 581-5392
PAPERSTOCK
ALL GRADES

L.R. Busche, Mgr Mfg
Emil A Warnez, Prod Mgr, Pprmkg
Lou R Burd, Prod Mgr, Frshg
James C Farrand, Dir, R&D
Richard L Saddler, Mgr Engrg
Richard K Michel, Mgr, Sales Srvcs
Paul L Acosta, Mgr, Qual Control
Robert C Beckstrom, Mgr Ind Rels
William W Crouch, Mgr, Mfg Srvcs
C Sue Wolfe, Pur Agt
Morris L Scott, Supt of Traffic
Thomas B Pitcher, Mgr Mill Acctg
Richard W Detrick, Sales Mgr, Tech
William M Ryan, Sales Mgr, Prntg Pprs

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters: 2 blending. Refiners: 3 double disc. Jordans: 6. Stock Mixers: 2 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 500 fpm
1 Fourdrinier 135" Width 118" Trim 750 fpm
1 Fourdrinier 135" Width 118" Trim 1000 fpm
Dryers. Size Presses: 3..
Coaters. On-Machine. Trailing Blade, 1-117" Cap. coated paper: 80 tons daily.
Finishing Plant. Supercalenders: 2-65", 1-77". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 4. Trimmers: 4. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas, Oil. Steam, lbs hr.: 150,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 80,000 kwh/day. Generated: 40,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond.

Products. Reprographic base, carbonizing base, index, bristol, release backing base, dry gumming base, PVdC base, coated and uncoated web offset, coated and uncoated book, coated cover, sterilizable kraft, technical specialty papers, 200 tons daily

PORT HURON

Dunn Paper Co. Div. of Dennison Mfg. Co. 218 Riverview St. 48060

Tel: 313-984-5521 Telex: TWX: 810-231-7053
RR: GTW siding. Hwys: US Rte # I-94.
J.B. Gray, Chmn
Nathaniel G. McLean, Pres.
Calvin E Josselyn, Treas.
Thomas E. Gallagher, Vice Pres, Mktg
Allan C Crawford, Tech Mgr
J.E. Streb, Plant Mgr
Carl L Burdell, Chief Engr
Donald J Haines, Asst. Sec. & Treas.
Neil F. Plouff, Pur Agent
R.J. Radtke, Contr

Paper Mill Stock Preparation: Pulpers: 7. Refiners: 17. Jordans: 3.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim
Beloit-Yankee Fourdrinier 134" Width 122" Trim
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim
Dryers. Yankee: 3 12', one 18' dia. units. Size Presses: 4. Calenders: 4. Winders: 4..
Coaters. On-Machine. Roll, 1.
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.: 76,000. Press.: 600/200.
Electricity: Freq, phase: 60 3. Purchased: 11,000 kwh./day.

Products. Lightweight coated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only. 105 tons daily

Port Huron Paper Co. Washington Av (PO Box 289) 48060

Tel: 313-982-0191
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21
Gordon Morseth, Pres. & CEO
C.R. Roglitz, Sr. Vice Pres.
E.G. Donovan, Vice Pres Mktg
R.W. Durand, Vice Pres, Mfg
L.M. Sturdevant, Vice Pres
R.S. Smeltzer, Vice Pres, Fin
R Andrews, Sec
T.R. Kroll, Paper Mill Supt.
L.E. Rymers, Tech. Dir.
Thomas C. Noetzel, Chief Engr.
G.L. Genaw, Pdct Mgr, Prtg Pprs
A.R. Rusee, Contr.
F.W. Phare, Pers. Dir.

Paper Mill Stock Preparation: Pulpers: 6. Screens: 10. Refiners: 8. Jordans: 8. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1600 fpm
Yankee Fourdrinier 210" Width 186" Trim 2000 fpm
Dryers. Drums: 83. Yankee: 3. Size Presses: 5. Calenders: 8 stacks. Winders: 5..
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 14,000. M.g.p.d. Source: River.

Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, 175 tons daily.

ROCHESTER

★**Rochester Paper** Div. of King-Seeley Thermos Co. 340 Mill St. (PO Box 185) 48063

Tel: 313-651-8121
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
William M Kirkland, Plant Mgr
James M Phillips, Plant Supt
Dewey E Coffelt, Tech. Dir.
Anthony Placnta, Plant Engr
Burton P Bailey, Mktg Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters. On-Machine. 1-62" Roll, 20 tons daily cap. off Machine. 1-36" Roll, 12 tons daily cap.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100. Electricity: Freq, phase: 60, 3. Purchased: 100%.

Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, graph, grinding wheel, impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 70 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd. 49341

Tel: 616-866-1523
RR: PC siding. Hwys: US Rte # 131.
Fred R Gave, Vice Pres, Res Mgr
Edward W. Gave, Mill Supt.
Russell V Gave, Mill Mgr
Ronald Van Dyke, Chief Engr.

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 8. Refiners: 3, 3 Escher Wyss deflakers. Jordans: 7. Cleaners: Escher-Wyss. Consistency Regulators: Escher Wyss. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 67" Trim 315 fpm
Dryers. Drums: 87-36" and 57-42" dia. Calenders: 3 stacks..
Coaters. On-Machine. Air Knife, 1 Waldron Microjet with 1 Metering Bar precoater.
Finishing Plant. Sheeters: 1-67". Trimmers: 2.

Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva.

Water Treatment. Daily Usage, 325. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.

Products. Boxboard: white patent coated, clay coated, chip, news, vat lined, suit, bleached manila, lined and solid kraft, food grade, colored specialty, 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.** 707 S. Evans St. (PO Box 427) 49286

Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Lee Paper Co. Washington St. 49097

Tel: 616-649-0510 Telex: 810-277-1710
RR: PC siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Kenneth A Perkins, Vice Pres, Gen Mgr
Wilbur R Noel, Opers Mgr
Charles Gardner, Mfg. Supt.
Raymond Wagner, Tech. Dir.
Roger Huckendubler, Chief Engr.
Rodger Watson, Plant Acct.
Robert Haiduk, Pur Mgr
Ronald G Markan, Pers. Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1-52". off Machine. Cap. Coated Paper, 20 tons
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin.

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, lamp shade, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av. 49098

Tel: 616-463-3141
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140.
C.C. Landegger, Pres
Milton F Stibal, Vice Pres, Tech Dir
Donald A Russell, Vice Pres, Mfg
D.L. McFall, Vice Pres, Sales
F.G. Johnson, Sec
George J Renner, Mgr, Paper Making
Fred Cretors, Mgr Qual Control

MHI-00168

GOTTESMAN & CO., Inc. • UNBLEACHED KRAFT PULP
100 PARK AVENUE NEW YORK, N. Y. 10017

Lee M Shadduck, Plant Engr
Niels Jensen, Supt. Coating Mill
Robert A Young, Fnshg. Supt.
John M. Matthews, Matls. Mgr.
D.D. McKinney, Pers. Mgr
Richard C Melvin, Mgr Tech Sales
R Strasburg, Mgr Mktg Srvcs

Paper Mill Stock Preparation: Pulpers: 3. Refiners: 4 Hydradisc. Jordans. 3 Jones.
Paper Machines 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums. 85 Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
Finishing Plant Supercalenders: 4-66", 80", 86", 96". Rewinders. 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.. 2 Embossers, 62" and 53"

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000 Press.. 235.
Electricity: Installed H.P 450 water. Purchased: 100%.

Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

Weyerhaeuser Co, Paperboard Div. PO Box 277 49099

Tel: 616-483-7601 Telex. 616-483-7800
RR: PC siding. Hwys. US Rte # 12.
Arne H. Anderson, Mill Mgr
W.J. Redmond, Supt.
G.K. Timmer, Tech. Dir
M Heckelman, Plant Engr
Kenneth A Shane, Plant Contr
K.B. Martens, Pur. Agt.
J.E. Drew, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers. 6 Hydrapulper Screens 8. Refiners. 2 Bauer, 1 S-W Jordans. 6 Shartle
Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer. 112" trim..
Dryers. Drums 156 Calenders: 6..
Coaters, On-Machine Air Knife, 1-92", 1-110" off Machine. 2-78"
Finishing Plant Supercalenders. 1-78". Rewinders: 1. Sheeters 1-112" on-machine Jagenberg, 3-72". Trimmers 1-85"

Steam/Power. Power Boilers. 2. Fuel: Oil. Steam, lbs hr. 150,000 Press 500
Electricity Freq. phase: 60, 3. Generated: 6000 kw. Turbogenerators: 2

Water Treatment. Daily Usage, 250 M.g.p.d. Source River

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment 1 Settling basin

Products. Single and double patent coated news, clay-coated, single and double manila lined, bending chip, metallic coated boxboards, 200 tons daily

YPSILANTI

Peninsular Paper Co. (Sub of James River Corp.) 1000 N Huron St 48197

Tel. 313-482-2600 Telex. 810-223-7004
RR PC siding Hwys. US Rte # I-94
Daniel G Quirk, Chmn Bd, Pres
Frank L Wright, Vice Pres., Sales
Norman B Davey, Contr
Edward G Gremban, Mgr Mfg
Karroll Aungst, Paper Mill Supt
Glenn F Touse, Chief Chemist
David Seidler, Chief Engr
Robert C Huston, Fnshg & Shppg Supt
Gerald W Linzmeyer, Qual Control Mgr
James R Elliott, Traffic Mgr.

Paper Mill Stock Preparation Pulpers: 2-2000 lb Hydrapulper. Refiners. 1 Morden Jordans: 2 Jones standard, 1 Jones Imperial. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 57" Trim 265 fpm
Rotoformers: 1.
Dryers. Drums: 52-36" dia. Size Presses: 2. Calenders: 2 stacks. Winders: 2.
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 2-85", 65" Hamblet., Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit.

Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.

Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River. Primary Treatment: yes.

Effluent Treatment. Primary Treatment: City sewer system.

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601

Tel. 218-751-5140,1,2
RR. NP siding. Hwys: US Rte # 2,71,371.
Robert W Riley, Vice Pres. Gen Mgr
Richard C. Brown, Plant Supt
Donovan Gould, Master Mech
Paul Barthelemy, Sales, Traffic Mgr.

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen.

Pulp Mill Defibrated Wood Pulp. Avg Daily Prod.: Unbl Hwd., 90 tons Continuous Digesters. 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.

Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..

Steam/Power. Power Boilers: 1. Fuel: Gas (oil standby). Steam, lbs hr. 14,000 Press.: 200
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 2350 electric. Purchased: 30,000 kwh/day

Water Treatment. Source: City.

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, 85 tons daily

BRAINERD

Potlatch Corp. Northwest Paper Div 56401

Tel. 218-829-4741 Telex 910-561-3508
RR. NP siding. Hwys: US Rte # 210
Spencer H Cone, Mill Mgr
Robert V Hershey, Asst Mill Mgr & Mgr, Paper Mfg & Coating
Burdell L. Lower, Mgr, Tech Srvc
Gerald D Cran, Mgr, Mech. Srvc
Harold N. Pitt, Mgr, Ind. Srvc
Robert R Watkins, Mgr., Fnshg/Shppg

Paper Mill Stock Preparation Pulpers. 1 Morden, 3 Hydrapulpers. Jordans. 3 Emerson, 4 Black Clawson
Paper Machines 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 99 Size Presses. 2. Calenders: 3..
Coaters, off Machine. 1-112" two-station blade.
Finishing Plant. Supercalenders: 2-121", 1-80". Rewinders: 2. Sheeters. 7 Trimmers: 4

Steam/Power. Power Boilers 3. Fuel. Gas/Coal. Steam, lbs hr.. 132,000.
Electricity Purchased 126,000 kwh/day Generated 54,000 kwh/day

Water Treatment. Daily Usage. 2,300 M.g.p.d. Source: River Primary Treatment: Infilco accelerator.

Effluent Treatment. Primary Treatment. 1-90' Beloit-Passavant clarifier. Secondary Treatment 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.

Products. Bond, duplicator, ledger, MICR, Xerographic, map, book (coated and uncoated) offset, coated offset text and cover (gloss, matte, dull, velvet), greeting card, opaque, mimeoset, 275 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720

Tel: 218-879-6771 Telex: 910-561-2110
RR: Duluth & Nrthwstrn, BN, Milw, siding. Hwys: Near US Rte # 61, IS-35 Approx Mi 3. State Rte # 33,45
J.W. King, Plant Mgr
E.C. Erickson, Mgr. Engrg Srvcs
L.E. Carlson, Prod Mgr, Bd Mill
S.A. Holloway, Prod Mgr, Bd Fnshg
R.W. Bohren, Supt., Tufflex Mill B
R.G. Eklund, Supt., Fabric Mill
R.R. Olson, Prod Mgr, Blanket Prdts
T.J. Jurgens, Mgr Distr
W.E. Walsh, Mgr Pur
O Barnes, Asst Contr
R.J. Ludwig, Mgr Ind Rels
J.A. Manisto, Mgr Qual Control

Woodhandling and Preparation Chippers: 2.

Pulp Mill Ground Wood. Refiner. Refiners: 5 Defibrator: 4-#410 and 1-#442 Bauer disc: 3-36" and 1-#36-1CP Sprout Waldron.
Pulp Processing: Stock Refiners: 2-26" and 1-34" Sprout-Waldron pump through.

Paper Mill Paper Machines. 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Balsam Wool Mill: 1 Former and dryer, 114" width, 110" trim..
Tufflex Mill: 1 Former and dryer, 114" width, 100" trim..
Fabrics Mill: 1 Curlator-Rando feeder and webber, impregnator and dryer, 80" trim..
Coaters, On-Machine. Roll, 3 in board mill.
off Machine. 9 Spray and 3 curtain in board mill.

Steam/Power. Power Boilers: Fuel: Coal/Gas/Oil. Press.. 275.
Electricity: Freq, phase: 13,800v, 60, 3. Installed H.P. 34,000. Purchased: 100%.

Water Treatment. Daily Usage, 2,600 M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: System scheduled for completion, Nov. 1976.

Products. Board mill: mineral and wood fiber insulation and decorative tile. Tufflex Mill: Homogenous wood fiber cushioning and protective padding. Fabrics Mill Non-woven fabrics.

★**Potlatch Corp.** Northwest Paper Div. 55720

Tel: 218-879-6784 Telex: 910-561-2111
Headquarters Location. See Executive Offices section for more details.
RR. Burl Nthrn, Duluth & Nrthestrn RR. Hwys: State Rte # 33,45
Edwin F Erickson, Mill Mgr.
William H Erickson, Mgr., Pulp Mfg
James W Kovala, Mgr Paper Mfg & Coating
Robert L McPhail, Mgr., Mfg Srvcs
Paul O Clark, Mgr, Info Sys.
Earl J DeRocher, Mgr., Tech Srvc.
William J Shepeck, Mgr., Mech Srvc.
Dwight M. Brower, Mgr., Ind. Srvc
Charles R. Williams, Mgr., Fnshg/Shppg

Woodhandling and Preparation Roundwood Storage Capacity. 120,000 cds. Barkers: 2 drum. Chippers. 1-64", 10 knife; 1-84", 12 knife; 1-96", 15 knife. Chip Screens 3. Avg. Daily Use of Peeled Pulpwood: 300 cds swd, 500 cds hwd

Pulp Mill Kraft Avg. Daily Prod.: Bl. Swd., 220 tons Bl Hwd., 180 tons Batch Digesters: 8.
Sulphite, Calcium Base. Avg. Daily Prod.. Bl. Hwd., 120 tons Batch Digesters: 3.
Chemical Recovery Plant. Evaporators: 1 six-effect Unitech with concentrators, 1 Six-effect Swenson. Recovery Boilers: 1 B&W. Recausticizing System: 1. Acid System (Sulphite). Sulphur Burners: 1. Absorption Towers: 4 Accumulators: 3
Bleach Plant. Sequence: Pine Kraft: 5 stage. Sulph-

MHI-00169

MULTI-METAL WIRE CLOTH Inc.
501K Route 303
TAPPAN, N. Y. 10983
face wires

Strathmore Paper Co. Front St 01089

Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20.
Gary F Regan, Plant Supt
Richard Matulenicz, Chem.
Robert Finney, Maint. Engr.

Pulp Mill Rags: Batch Digesters: 3 Rotary.
Pulp Processing: Washers: 12 rag.
Paper Mill Stock Preparation: Pulpers: 4. Beaters: 10 Hollander, 2 Bertrams. Refiners: 21. Cleaners: 65 Dirtec, Bauer.
Paper Machines. 1 Cylinder: 52" Trim
1 Cylinder 89" Trim
1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
Finishing Plant. Supercalenders: 2 Norwood. Sheeters: 12. Trimmers: 12. Other Eqt.: Air Dryers: 2.
Products. Bond, writing, vellum, bristol, wedding, typewriter, onionskin, airmail bond, manuscript cover, text, box cover, drawing, jeweler's bristol, lampshade, tag parchment, papetene, steel plate, patent office board, gravure, blueprint, direct process and negative, specialty industrial synthetic papers. 120 tons daily total of Turners Falls, Woronoco and West Springfield mills.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20
Donald W. Bush, Supt. No. 2 Mill
Bernard J Czanowski, Supt. No. 1 Mill
Henry Dominguez, Chem.
Alfred Letourneau, Maint Engr
Paper Mill Paper Machines. Equipment listed under West Springfield Mill..
Products. Mill No. 1: writing, text, cover, papetene papers. Mill No. 2. Rag specialty, reproduction and bond papers

MICHIGAN

ADRIAN

★**Simplex Industries, Inc.** 3000 W Beecher St 49221

Headquarters Location. See Executive Offices section for more details.

ALPENA

Abitibi Corp. Building Products Div. 416 Ford Ave. 49707

Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.
W G. Coggan, Plant Mgr
P K De Bruhl, Asst Plant Mgr
R.R. Stepanski, Mgr Mfg
J.L Rizzardi, Mgr Maint
R.R Tarr, Plant Engr
O.B. Eustis, Control Mgr
A R Schultz Power Plant Supt
T J Kelly, Pers. Mgr
R.C Keith, Office Mgr
W C. Lake, Pur Agt
J.C. Lamy, Woods Mgr
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers. 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 400 cds (rough basis).
Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle
Pulp Processing Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers. 1 Jones Refiners. 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Fourdrinier 160" Width 156" Trim
1 Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses. 1 22-deck press
Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River. Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons.
Products. S1S and S2S hardboard, 380 MMsf annually. (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St 49707

Tel: 517-354-2131
RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.
Allan M Fletcher, Pres, Treas
John T Fletcher, Vice Pres.
R. Werner, Sec., Pur. Agt.
Charles S. White, Gen. Mgr.
A.J. Steber, Gen. Supt.
D. Gouin, Paper Mill Supt.
William S. Grimes, Mgr, Tech Pprs
E.J. Grys, Tech Dir
R.J. Bowes, Chief Engr.
Orville Fleming, Fnshg Supt.
John Stretchko, Traffic Mgr.
H.S. Granstrom, Sales Mgr.
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Screens: 2 Selectifier. Refiners: 5 Jones DD. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums: 62. Size Presses: 2. Calenders: 2 stacks. Winders: 2..
Coaters, off Machine. 1-60" Roll-Blade-Gravure. 10 tpd capacity.
Finishing Plant. Sheeters: 1-72", 1-100". Trimmers: 3-65", 72", 85".
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 60,000 Press.. 450.
Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day
Water Treatment. Daily Usage, 700. M.g.p.d. Source: Thunder Bay River. Primary Treatment: Yes
Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment. City syst.
Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 65 tons daily.

BATTLE CREEK[1]

St. Regis Paper Co. Battle Creek Paperboard Mills 79 E Fountain St 49016

Tel. 616-963-5511
RR: PC, GTW siding Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.
Robert A Armstrong, Res Mgr
Terry A Tiffany Mfg Supt, Fountain Mill
Leonard A Carlson, Mfg Supt, Angell Mill
Jon Hamelink, Supt. Fountain Mill
Thomas W Smith, Supt, Angell Mill
Clyde G Eckhart, Tech Dir
Louis J Philipps, Plant Engr
Harold E Criswell, Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
Eugene C Holcombe Jr, Bxbd Sales Mgr
Paper Mill Stock Preparation: Pulpers: 3-4000 lb. and 3-3000 lb Morden Slushmaker 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb. Beaters: 1-2000 lb broke Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer. Jordans. 15.
Paper Machines Beloit Eight-Cylinder 130" Trim 1000 fpm
Stevens Formers: 1 seven unit, 120" trim, 750 fpm
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 283-60" Calenders 7 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared.
Coaters, On-Machine. Air Knife, 1-130" 1-98", 1-122". On-Machine. Trailing Blade, 1-130", 1-98", 1-122". On-Machine.Rod: 2-130".
Steam/Power. Power Boilers: 3. Fuel: Oil/Gas Steam, lbs hr.: 240,000.
Electricity: Purchased: 2,500 kwh/day. Generated 7,500 kwh/day. Turbogenerators: 2-8500 kw/kva.
Water Treatment. Daily Usage, 5,000 M.g.p.d Source: River.
Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, solid kraft, kraft lined chip, plain and bending chip, bleached manila lined, manila lined, vat lined boxboards, 450 tons daily.

CHEBOYGAN

Charmin Paper Products Co. S. Main St. 49721

Tel: 616-627-5664
RR: D&M siding. Hwys: US Rte # 27.
H.A. Bullard, Plant Mgr
Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Industries, Inc. Centreville Rd 49042

Tel: 616-435-2425 Telex: 510-398-5730
RR: PC siding. Hwys: US Rte # 131
Dick Runyan, Paper Mill Mgr.
William Maxon, Plant Engr.
Paper Mill Stock Preparation: Pulpers. 2. Screens: 6. Jordans: 6. Other Eqt.: 1 disc filter.
Paper Machines. Six-Cylinder 108" Width 98" Trim
Steam/Power. Power Boilers: Fuel: Gas/Oil. Press.: 150.
Electricity: Freq, phase: 440 v, 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 200 M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Chipboard, 50 tons daily

DETROIT

Scott Paper Co. Packaged Products Div. 9125 W. Jefferson Ave. 48209

Tel: 313-842-0042
RR: Penn Cntrl siding, Rouge Yard. Hwys: US Rte # I-75.
Martin F Schnaufer, Gen. Mgr.
James S Brown, Prod. Mgr.
Kenneth S Sexton, Paper Mill Mgr
Charles L Jennings, Paper Mill Mgr
Thomas W Cosgrove, Tech. Dir.
Donald Grace, Plant Engr.
Linda DiNaro, Chief Consumer Rep.
R.P McConkie, Fnshg. Supt.
Charles G Allen, Safety & Srvcs Mgr
T.T. Feliks, Acctg. Mgr.
Harold B Randolph, Pur. Agt.
John R Hulbert, Plant Traffic Mgr
William H Cope, Pers Mgr
Lloyd H Jewell, Sales Mgr, Warren Grades
Paper Mill Stock Preparation: Pulpers. 3 Liebeck, 1 Pulpmaster, 1 Dualator, 2 Slushmaker, 2 Jones, 1 Hymac. Refiners. 5 double disc, 1 Morden. Jordans: 5.
Paper Machines 2 Yankee MG. Fourdrinier 132" Width 124" Trim
1 Yankee Fourdrinier 136" Width 124" Trim
1 Yankee Fourdrinier 142" Width 120" Trim
Dryers Yankee: 4..
Finishing Plant. Other Eqt. Toilet tissue and napkin converting machinery.
Steam/Power. Power Boilers. 3. Fuel: Gas/Oil.
Electricity: Generated 100%.
Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes
Effluent Treatment. Primary Treatment: City System.

MHI-00170

Products Toilet napkin wiper waxing toweling MG carbonizing twisting bleached and colored tissue papers 190 tons daily Packaged products ro toilet tissue napkins wipes

ESCANABA

Escanaba Paper Co (Sub of Mead Corp Paper Div) 49829

Tel 906 786 1660

RR C&NW Soo Line sidings Hwys US Rte = 2 4; State Rte = 35

J M Owens Gen Mgr
Dudley Grantham Prod Mgr
O C Christiansen Tech Dir
R R Moore Supt = 1 Mchne Syst
G Eastin Mgr Srvc Opers
H D Hamilton Mgr Plant Engrg
J L Parr Enviro Control Tech Dir
W J Mulvaney Mgr Prod Control
J C Husky Mgr Acctg
H J Vanlerbergne Traffic Mgr
T J Gregoire Dir Ind Rels
R Tompkins Pub Rels Mgr
Lynn S Sandberg Gen Mgr Woodlands

Woodhandling and Preparation Log Handling Live decks Chip Handling Rader pneumatic system Barkers 2-12 x 80 drum 1-22 Nicholson hydraulic Hogs 1 Gruendler bark Chippers 2 15 knife 112 disc, 1 84 Nicholson Chip Screens 1 KMW

Pulp Mill Kraft Avg Daily Prod Bl Swd 200 tons Bl Hwd, 400 tons of which 150-300 tons is Market Pulp Batch Digesters 6-6 500 cu ft each Ground Wood Refiner Avg Daily Prod Bl Hwd, 150 tons Refiners 4 primary 2 secondary Sprout Waldron 42-1B disc

Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W, 2 400 000 lbs solids/day 300,000 lbs steam/hr at 1500 psi 950° Electrostatic Precipitators 1 Western Precipitation Lime Kilns 1 Allis-Chalmers Gas Scrubbers 1 Ducon on recovery boiler, 1 venturi on kiln Lime Mud Washers 1 8 x12' D-O Recausticizing System Dorr-Oliver

Bleach Plant Sequence Gwd 1 stage Kraft C-E D-E-D Chlorine Dioxide System Hooker SVP system

Pulp Processing Knotters Gwd 2 A-C vibrating Kraft SW Hooper centrifugal Drainers Gwd 1 Morden, 1 Bauer Hellpress. Stock Refiners Gwd 2-26" S-W Twin-Flo Rejects Refiners Gwd 1 Bauer Screens Gwd 4 primary 1 secondary Cowan, 2 Bird Centrisorter Kraft Bird Centrisorters Cleaners Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd 1-8'x16 Impco bleach Kraft 3-13½ x24' Impco brown stock, 5-13½'x24 Impco bleach Washers Gwd 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac Kraft 1-13½ x24' Impco

Pulp Drying Dryers. Former No 2 P&J paper machine modified for pulp drying 166" width 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans, 4 Cleaners 4-stage Bauer Centricleaner-Deculator system

Paper Machines P&J Fourdrinier 166" Width 155" Trim 1300 fpm

Beloit Fourdrinier 300' Width 274" Trim 3000 fpm

Dryers Size Presses 2 Calenders 2 stacks Reels 2 Re-reelers

Coaters, off Machine Trailing Blade 2 286", 2-172' double blade for C2S off Machine Cap Coated Paper, 500 tons

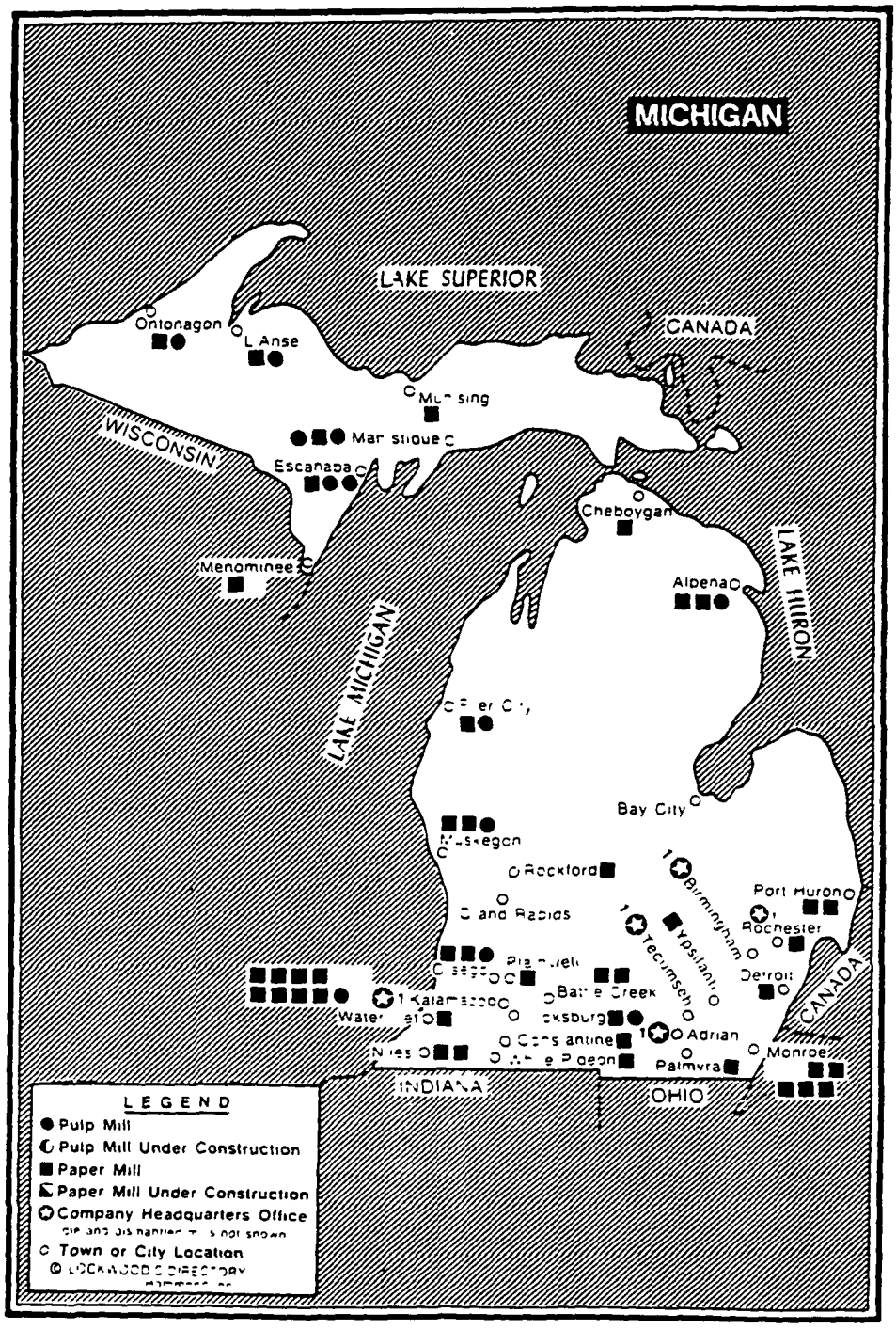
Finishing Plant Supercalenders 2-278", 9-roll Appleton Roll Wrapping Eqt Lamb-Grays Harbor automatic Rewinders 3-2 drum 156" Cameron, 2-MIR - 278" Cameron Sheeters 3 - Hamblet Trimmers 4 Seybold

Steam/Power Power Boilers 3 Fuel Oil/Gas/Bark Steam, lbs hr 1,000 000 Press 400/1500 Electricity Freq phase 60 3 Installed H P 75 - 000 Generated 50 000 kwh/day Hydroelectric 2 000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage 28 000 M g p d Source Lake Michigan Primary Treatment Sand filters

Effluent Treatment. Primary Treatment Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier

Products Coated book and publication papers, 600 tons daily



FILER CITY

Packaging Corp of America 49634

Tel 616 723-9951

RR C&O siding Hwys US Rte = 31

J L Ham Vice Pres & Mgr

Woodhandling and Preparation Roundwood Storage Capacity 26 000 Cords Barkers 6 abrader Chippers 1 90 10-knife 1-96 15-knife Chip Screens 5

Pulp Mill Semi-Chemical NSSC Avg Daily Prod 600 tons Continuous Digesters 3 Pandia

Chemical Recovery Plant Evaporators 2 multiple-effect Recovery Boilers 1 B&W

Pulp Processing Stock Refiners 3 American Defibrator Washers 4 Vacuum 5 screw press

Paper Mill Stock Preparation Pulpers 3 Refiners 5 Jones disc 4 Sutherland Jordans 7 Miami

Paper Machines 1 Fourdrinier 174" Width 158" Trim 1000 fpm

1 Fourdrinier 172' Width 157' Trim 1000 fpm

1 Fourdrinier 160 Width 148" Trim 750 fpm

Dryers Drums 148-60 dia

Finishing Plant Rewinders 1 Sheeters 3 Trimmers 3

Steam/Power Power Boilers 4 Fuel Oil/Gas Steam lbs hr 600 000 Press 610 Electricity Purchased 25 000 kwh/day Generated 475 000 kwh/day Turbogenerators 3 21, 875 kva total

MHI-00171

THE PAPER TIGERS • PHONE: 312/664-5700

HANCOCK CENTER • 875 NORTH MICHIGAN • CHICAGO 60611

PHONE: 312/664-5700 HOWARD ZUKER ASSOCIATES

Water Treatment. Daily Usage. 20,000 M.g.p.d Source: River, Lake
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment. Yes
Products. Corrugating medium. 625 tons daily

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div (Sub. of SCM Corp.) 2030 Portage St 49001

Tel: 616-345-7131
Headquarters Location See Executive Offices section for more details.
RR: Penn Cntrl sidings Hwys: US Rte # IS 94, 131. State Rte # 43,96.
Steam/Power. Power Boilers: Fuel Oil/Gas.
Water Treatment. Source: River, Wells.
Effluent Treatment. Primary Treatment: 2 clarifiers
Products. Adding machine, bible, bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf, box cover, carbonizing, cover, direct process, drawing, duplicator, envelope, foil mounting, gift wrapping, greeting card, gumming, label, ledger, map, mimeo, offset, opaque, papeterie, place mat, post card, poster, register, sensitizing, tablet, text, vellum, xerographic, antitarnish, bank note, blotting, litho, chart, music, pattern, watermark, 450 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Coated two sides matte finish book, 100 tons daily

Allied Paper Inc. Bryant Mill 49003

Kenneth Sweet, Gen Supt, Book Paper Mill
C.J. Bos, Mgr, Coating Mill
Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine C2S Fountain Blade, 126" trim C2S Reverse Roll, 74" trim Air Knife, 72" trim
Finishing Plant. Supercalenders Rewinders. Sheeters Lenox cut-size Trimmers. Ream Wrapping & Cartoning Other Eqt automatic counters

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, Gen Supt
Paper Mill Paper Machines 1 Fourdrinier 126" Width 108" Trim
1 Fourdrinier 133" Width 112" Trim

Brown Co. Specialty Papers Div 243 E Paterson St 49007

Tel 616-383-5000
RR: Penn-Cntrl, CK & S siding Hwys US Rte # 12 131, I-94 State Rte # 43
William Fredericks, Mgr Mfg
Charles C Brown Mgr Proc Control
Harry Pratley, Mgr, Qual Control
D Feldmann, Mgr, Util Maint & Power
Lyle Alrick Shipping Supt
K Matveia, Mgr Mfg Cnvtg
John P Delanty, Mgr Sales & Mktg
C W Russell, Ind Rels Mgr
Paper Mill Stock Preparation Pulpers 1-6000 lb, 1-2000 lb. and 2-4000 lb Morden Slushmakers 1-2500 lb Pulpmaster 1 Barracuda, 2-6000 lb and 1-1000 lb Hydrapulpers Beaters 2 2500 lb Vortex, 3 2500 lb Horne, 2 2000 lb Jones Refiners 5 34' disc (1 800 hp, 4 700 hp) Jordans 8 Majestic 17 Fibremaster
Paper Machines Horne Harper Fourdrinier 117" Width 104" Trim
P&J Fourdrinier 163" Width 148" Trim
B&S Fourdrinier 165" Width 148" Trim
Beloit Fourdrinier 167" Width 148" Trim
2 Yankee Fourdrinier 139" Width 126" Trim
Dryers Calenders 10 stacks
Coaters, off Machine Air Knife 1 Blade, 2 Solvent 1
Finishing Plant Supercalenders 3 Rewinders: 6. Sheeters 8 Trimmers: 3 Other Eqt. 5 parchmentizing machines, 80" and 100" trim
Water Treatment. Daily Usage. 7,000 M.g.p.d Source. River, well
Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1. 120 tons daily. Mill No 2: 280 Tons daily.

Brown Co. Recycled Paperboard Div 243 E. Paterson St. 49007

Tel: 616-383-5000
RR. PC, CK & S siding Hwys. US Rte # 12, 13, I-94 State Rte # 43.
Norman K Ryan, Dir Opers
Dick Bennett, Prod Mgr
Robert A Nitz, Tech. Dir
Bruce D Wagner, Pur Agt
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr
Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker Beaters: 1 continuous broke Refiners: 8 Hydrafiners, 2 Morden stockmakers. Jordans: 10
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters.
Finishing Plant. Other Eqt. 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.
Water Treatment. Daily Usage. 4,000 M.g.p.d Source. Deep well
Effluent Treatment. Primary Treatment: City syst
Products. Folding boxboards, machine clay coated, white patent coated news, bleached and single manila lined chip, white and news vat lined chip, solid and news lined chip, plain and bending chip, sulphite lined manila foil laminating, grease and moisture resistant laminated, polyethylene coated, hot waxed and cold water waxed boards. 300 tons daily

Georgia-Pacific Corp. Printing Paper Div 2425 King Hwy (PO Box 2738) 49003

Tel 616-382-2890
RR PC, GTW siding Hwys. US Rte # I-94
William R Walsh, Res. Mgr
J Robinson, Prod Mgr
Fred Cooper Mgr Paper Mchne Oper
D Van Brugger, Paper Mchne Supt
E Vinning, Paper Mchne Supt
David DeKam Tech Mgr
Fred J Shelton, Plant Engr
W Bongers, Power Supt
George Grenon Fnshg Supt
Richard H Jones Sales Mgr
T Ellsworth Plant Contr
John P Gideon Pur Agt
James H Cox, Traffic Mgr
David Boring Ind Rels Mgr
Pulp Mill Deinked Pulp Avg Daily Prod 80 tons
Paper Mill Stock Preparation Pulpers: 6 Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb Jordans 14
Paper Machines 1 Fourdrinier 142" Width 130" Trim 750 fpm
1 Fourdrinier 167" Width 156' Trim 800 fpm
1 Fourdrinier 180" Width 167" Trim 1500 fpm
1 Fourdrinier 170" Width 156" Trim 2000 fpm
Dryers Size Presses 1 plus 3 tub.
Finishing Plant Supercalenders 6-62" 62", 90" 90", 90", 100" Rewinders 4 Sheeters 4 Trimmers 4
Steam/Power. Power Boilers Fuel Gas/Oil Steam, lbs hr 350,000 Press 450/275
Electricity Freq, phase 440v, 60, 3 Installed H P 18 500 electric Purchased: 4,000 kw Generated: 12,000 kw Turbogenerators 4
Water Treatment. Daily Usage. 8,000 M.g p.d Source River
Effluent Treatment. Primary Treatment Clarifiers joint municipal system
Products. Bible, bond, book (antique bulking, egg-shell, EF, MF supercalendered offset coated) braille, text, cover, box cover, check, duplicator text, drawing, litho mimeo, manifold, embossing envelope, greeting card, gumming, label, ledger MICR, music, papeterie, playing card, postcard poster, register bond salesbook, straw, tablet, tea bag, vellum, watermarked, writing, 425 tons daily

Hawthorne Paper Co Inc. Sub. of Gould Paper Corp King Hwy. (PO Box 2858) 49003

Tel 616-345-1163 Telex: TWX: 810-227-2503
RR. Penn Central siding Hwys: State Rte # 96
J.W. Winn, Pres
Wayne E. Kendrick, Vice Pres Tech
J Bergman, Vice Pres Fin
T.F. Sullivan, Vice Pres Mfg
Paul Vestal, Gen. Supt
E M. Betz, Traffic Mgr
D Ulsh, Sales Mgr
Paper Mill Stock Preparation: Pulpers: 4 Apmew Refiners 4 Morden, 2 Claflin, Jordans: 3 Jones Imperial
Paper Machines. Beloit Fourdrinier 105" Width 90" Trim 600 fpm
Beloit Fourdrinier 92" Width 80" Trim 600 fpm
Dryers. Drums. 28, 28-42" dia. Size Presses: 2 on each machine Calenders: 2 stacks. Reels: 2 vertical Winders. 2 2-drum..
Finishing Plant. Rewinders: 1-Cameron 52". Sheeters: 1-Clark-Aiken 100" duplex. Trimmers: 1-Lawson 110", 1 Seybold 95".
Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 50,000 Press.. 150.
Electricity: Freq, phase. 60, 3. Purchased: 100%
Water Treatment. Source Wells. Primary Treatment: Filtration
Effluent Treatment. Primary Treatment: Joint Industry - City Treatment Plant.
Products. Sulphite and cotton-content bond, ledger, index, offset, text, cover, wet strength map, chart, poster, No. 1 hanging, strippable hanging, latex saturated, and other specialties, 60 tons daily

National Gypsum Co. 2305 E. King Hwy 49001

Tel 616-343-1579
RR: Penn Cntrl siding Hwys: US Rte # 12.
William Bechtel, Plant Mgr
J. Waber, Mill Supt
Lee Webster, Maint Supv
F B. Mack, Steam Supv
D R Thompson, Office Mgr
Carl Groesbeck, Plant Buyer
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Refiners 3 Sprout Waldron, Jordans, 2 Shartle.
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers Drums 110 Infrared 30 Calenders: 2 stacks.
Finishing Plant. Rewinders, 1.
Steam/Power. Power Boilers 2 Fuel. Gas/Oil. Steam, lbs hr . 70,000
Electricity Purchased: 48,000 kwh/day
Water Treatment. Daily Usage. 580 M.g.p.d. Source Wells, City
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Gypsum board liner, 155 tons daily

L'ANSE

Celotex Corp. Sub of Jim Walter Corp PO Box 86 49946

Tel 906-524-6101
L.W Swanson, Plant Mgr
R. J Slattery, Gen Supt
R A Soli, Plant Contr
B C Penokie, Plant Engr
T Barthell, Tech Srvc Mgr
Woodhandling and Preparation Chip Handling. Chain, belt conveyors Chippers: 1 85" Charthage Chip Screens 1 three-deck Dillon
Pulp Mill Defibrated Wood Pulp Continuous Digesters 3 Defibrators
Pulp Processing Stock Refiners. 3 Asplund disc.
Paper Mill Stock Preparation Pulpers 1 Black Clawson continuous Hydrapulper Refiners 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators Brammer type Deckers: 1

MHI-00172

GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP
100 PARK AVENUE NEW YORK, N. Y. 10017

Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm Dryer 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.
Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. P. O. Box 111 49854
Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2.
Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Harry Hastings, Paper Mchne Supt
George Bouscher, Plant Engr
Audun Grimnes, Prod Control Mgr
Francis J Kasun, Pur. Mgr.
Albert Vail, Sales Mgr.
Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds.. Mobile Equipment: 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs: 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg. Daily Prod.: 75 tons
Pulp Processing. Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan.
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums: 40-60" dia. Size Presses: 1. Calenders: 1. Reels: 1. Winders: 1 Cameron..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr. 75,000. Press.. 350.
Electricity. Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500 M.g.p.d. Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond.
Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Fibre Products Corp.) 144 First St. 49858
Tel: 906-863-5595
RR: C&NW, CMStP&P Hwys: US Rte # 41. State Rte # 173
Ernest Graham, Gen Mgr
J.W Ehrhardt, Paper Mill Supt
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
John A Gasperi, Crvtg Supt
Robert Pomrenke, Mgr Matls Control
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr
Paper Mill Stock Preparation Pulpers: 4 Hydrapulpers. Refiners. 2 Claflin. Jordans: 5.
Paper Machines Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders 2. Rewinders: 4. Other Eqt Waxers: 5
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr: 140,000
Electricity Purchased 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.
Water Treatment. Primary Treatment: Yes
Products. Linerboard, waxing tissue, 350 tons daily.
Waxed paper in rolls and sheets

Scott Paper Co. 26th St. 49859
Tel: 906-863-2004
RR: C & NW, CM StP & P. Hwys: US Rte # 41.
Woodhandling and Preparation Roundwood Storage Capacity: 6,000 cds. Avg. Daily Use of Peeled Pulpwood: 24 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 22 tons Grinders: 4 three-pocket.
Pulp Processing: Rejects Refiners: 1 disc. Screens: 4.
Pulp Drying: Wet Machines: 4.
Pulp Mill Is Idle.
Products. Groundwood pulp, 22 tons daily for own consumption.

MONROE

Consolidated Packaging Corp. 921 E Elm Av (PO Box 724) 48161
Tel: 313-241-9000
RR: Penn Cntrl sidings. Hwys: US Rte # I-75. State Rte # 56,24A.
George C. Baron, Prod Mgr, Corr Med. & Liner Mill
Robert Lajiness, Prod Mgr, Boxboard
Al Duvall, Chief Engr.
Elliott Rose, Paper Stock Buyer
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers (liner), 7 Hydrapulpers (bxbd), 8 Dynapulpers (bxbd). Beaters: 2 Dilts (liner), 4 Dilts breaker (bxbd). Refiners: 4 (liner), 2 (Corr), 4 (bxbd). Jordans: 8 (liner), 4 (Corr), 20 (bxbd). Other Eqt.: 2 200 tpd. asphalt dispersion sys.
Paper Machines. Linerbd Seven-Cylinder 140" Width 118" Trim 600 fpm
Bxbd Eight-Cylinder 102" Trim
Bxbd Seven-Cylinder 112" Trim
Bxbd Seven-Cylinder 112" Trim
CorrMed Fourdrinier 132" Width 115" Trim 1000 fpm
CorrMed Fourdrinier 96" Width 84" Trim 700 fpm
Dryers. Drums: 754. Size Presses: 2 on Bxbd machines. Calenders: 9 stacks..
Coaters, off Machine. Air Knife, 1-72" on bxbd. 450 t.p.d. capacity.
Finishing Plant. Rewinders 5 Trimmers: 4-64", 72", 84", 84"
Steam/Power. Power Boilers: 4. Fuel: Coal. Steam, lbs hr.: 200,000. Press.: 250.
Electricity: Freq, phase: 220/440v, 60, 3. Purchased: 200 Mkw Generated: 100 Mkw. Turbogenerators: 2-1500, 2500 kw/kva
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: Wells, Lake.
Effluent Treatment. Primary Treatment: Clarifiers. Secondary Treatment: Lagoons.
Products. Test liner, 160 tons daily; corrugating medium, 230 tons daily; folding boxboard, clay coated boxboard, automobile panel board, resin forming board, pasted boards, 425 tons daily.

Time Container Corp. Monroe Div. 1151 W. Elm Av 48161
Tel: 313-241-3220
RR: C&O siding Hwys: US Rte # 24, I-75
James V. LaMarre, Pres, Gen Mgr
Daniel Staelgraeve, Crrgtd Gen Mgr
Edward D O'Brien, Paper Mill Supt
Robert Bert, Asst Mill Supt
Brad Sorter, Chief Chemist
George K Whitaker, Chief Engr
Charles Robertson, Paster Supt
Delbert Broughton, Plant Contr
William A. Finn, Pur Agt.
Irving Kuklo, Sales Mgr
Paper Mill Stock Preparation Pulpers. 2 Hydrapulper. Refiners: 1 Emerson Jordans: 10 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders 2 stacks. Winders. 1..
Finishing Plant. Rewinders. 1. Trimmers. 2
Steam/Power. Power Boilers Fuel Gas. Steam, lbs hr.. 70,000
Electricity: Purchased: 100%
Water Treatment. Daily Usage, 2,000 M.g.p.d Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system.
Products. Test linerboard, pasted chip, plain chip, single and double lined and solid boxboard, lightweight chip, panel board, 110 tons daily

Union Camp Corp. Unbleached Paper & Board Div. 1109 E. Elm St (PO Box 588) 48161
Tel: 313-241-7700
RR: PC, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
R.A. Thorne, Res Gen Mgr
J. Fuko, Mill Mgr.
J.R. VanSlambrouck, Gen. Supt.
E.J. McCue, Tech. Supt.
A.L. Gordon, Mill Engr.
H.C. Brothers, Dir. Prchsg
E.L. Kelley, Mill Sales Mgr.
J.T. Landwehr, Ind Rels Mgr
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners: 6-32" Bauer 442 disc. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 2 Pope, 1 upright. Winders: 3 two-drum..
Steam/Power. Power Boilers: 1. Fuel: Coal. Steam, lbs hr.: 200,000. Press.: 600 psi.
2. Fuel: Gas/Oil. Steam, lbs hr.: 140,000. Press.: 175 psi.
Electricity: Freq, phase: 60, 3. Generated: 9850 kwh/day. Turbogenerators: 2-7500 kw, 1000 kw, 1-1000 kw and 1-350 kw diesel generators.
Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Sys.
Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Paper Div PO Box 10 49862
Tel: 906-387-2700
RR: LS&I Hwys State Rte # 28,94
Richard H Boehm, Vice Pres, Gen Mgr (Neenah)
J Richard Grau, Gen Mgr, Sales & Mktg (Neenah)
Norman G Bull, Mktg Mgr (Neenah)
Elbert M Heath, Mktg Srvcs Mgr (Neenah)
E Masak Jr, Mill Mgr
Harold E Knekard, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
John E Carter, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt
Paper Mill Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 3 Saturators: 5
Finishing Plant. Supercalenders: 1-94" Rewinders: 5. Sheeters. 3. cap 60 tpd Other Eqt.. 1 Embosser, 1 Laminator
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior
Effluent Treatment. Primary Treatment: Yes.
Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, saturating, coated and saturated specialties, 78 tons daily.

MUSKEGON

Tekmold Inc 2850 Lincoln St 49441
Tel: 616-755-1662
RR: GTW siding. Hwys: US Rte # I-196. State Rte # 16,31.
Richard Straus, Pres

MHI-00173

GREAT EASTERN
PACKING & PAPER STOCK CORP.
250 Park Avenue, NYC 10017 212-986-7840
615 E. First Ave., Roselle, N. J. 07203 201-245-6511
Station & Halleck Sts., Roxbury, Boston, Mass. 02120 617-427-5720
WASTE PAPER and RAGS of all Descriptions

R. Berry, Vice Pres Mfg
Paul Vanderwerf, Vice Pres Sales
Robert Hasper, Contr
Frank Gregory, Sec

Paper Mill Stock Preparation: Pulpers: 6.
Paper Machines. 2 moulding machines..
Water Treatment. Daily Usage, 30. M.g.p.d. Source: Well.
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Molded pulp interior protective packaging. 8 tons daily.

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443

Tel: 616-755-3761 Telex: 510-394-4300
RR: C&O siding. Hwys: US Rte # 16,31,196. State Rte # 46.
H.J. Roehner, Res. Mgr.
P.T. Kirk, Prod. Mgr.
John S Moran, Pulp Mill Supt.
John E Carlson, Mgr, Cust Srvc
J.W. Decker, Asst. Pulp Mill Supt.
M.E. Gunn, Paper Mill Supt.
M.B. Henderson, Asst. Paper Mill Supt.
J.R. Johnston, Spclty Paper Mgr.
Carl E Kilpatrick, Tech. Dir.
W.A. Wrase, Chief Engr
J.R. Thornton, Mgr. of Maint.
C.H. Baker, Qual. Control Dir.
D.L. Tyler, Coating Supt.
D.R. Burling, Fnshg/Shppg Supt.
E.G. Soule, Steam/Power Supt.
William Holtzclaw, Pur. Agt.
D. DeGlopper, Traffic Mgr.
P. Schuiteman, Ind Rels Mgr
J.N Fields, Wood Procurement Mgr.

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Avg. Daily Use of Peeled Pulpwood: opto RR crane, Poclain crane. Flume. 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system. Chip Unloaders. Hydraulic truck dumper. Barkers 1-30 cds/hr Manitowoc drum Hogs. 1 Montgomery Chippers: 1 15 knife Carthage Norman Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood. 250 cds swd, 200 cds hwd

Pulp Mill Kraft. Avg Daily Prod.: Bl. Swd., 100 tons Bl. Hwd., 130 tons Continuous Digesters 1 Kamyr. Chemical Recovery Plant Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system Recovery Boilers. 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver Recausticizing System: Dorr-Oliver
Bleach Plant. Sequence C-E-H-D. Towers: 4 Mixers: 4 Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing. Knotters: 3 Impco Screens 3 Cowan Cleaners. 1 three-stage Bauer system. Washers 3-9' x 16' Impco vacuum Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt. 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines. 1-100 tpd Kamyr. Cutter-Laypoys: Hamblet. Scales: 1.

Paper Mill Stock Preparation: Pulpers: 7 Vokes rotor Hydrapulper Screens. 4 Selectifiers. Refiners. 5 Claflin, 1 double disc. Jordans. 7 Shartle Cleaners: 4 Centricleaner three-stage systems with vacuum rejects Consistency Regulators: 14 DeZurik, 5 Foxboro Size Cookers 1 continuous, 8 batch
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers, Drums: 40 and 27 48", 55 and 69 60" dia Hi-Velocity 2. Size Presses. 4 Calenders 5 Reels: 4 Pope. Winders. 4 two-drum
Coaters, On-Machine Trailing Blade, 1-163" puddle, 1-222" Invertablade.
off Machine. Air Knife 1-105" Roll 1-100" Capacity coated paper. 160 tons daily.
Finishing Plant. Supercalenders 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt. D.J. Murray system Rewinders 3 Langston Sheeters: 11-100" to 112" Trimmers. 5-100" Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.

Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000 Press.: 500.
Electricity: Freq. phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 25,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, text, cover, specialty papers, 350 tons daily.

NILES

French Paper Co. 100 French St. (PO Box 729) 49120

Tel: 616-683-1100
RR: Penn Central siding. Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Pres, Treas.
B.R. Bigford, Exec. Vice Pres, Sales Mgr
T.R. Friedrich, Vice Pres, Mfg
R.D. Clark, Vice Pres., Sec.
R.A. Engberg, Chief Engr.
R. Etzcorn, Pur. Agt.
R.W. Meyers, Traffic Mgr.

Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders: 3..
Finishing Plant. Sheeters: 3. Trimmers: 2. Other Eqt.. 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal. Press.: 150
Electricity: Freq. phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 65 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St. 49120

Tel: 616-683-4100 Telex 258459
RR: Penn Central Hwys: US Rte # 12,31. State Rte # 60,40.
Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Dir Engrg & Pprmkg
George Halliwell, Plant Engr
A.O Morningstar, Plant Contr
Earl Stevens, Pur Mgr
A Seaman, Distrib Mgr
Robert Drobel, Ind Rels Dir

Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1 Refiners: 4 Jordans. 1. Cleaners: 5 Consistency Regulators. 2
Paper Machines. Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers. 1-162" wide, 150" trim, 1000 fpm
Dryers Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll Reels: 1 stock, 1 Pope. Winders: 2 Shear-Cut
Steam/Power. Power Boilers: 1 Fuel Gas/Oil. Steam, lbs hr., 35000. Press 100 psi.
Electricity: Freq. phase: 60, 3. Installed H P. 3,264. Purchased 32,000 kwh/day
Water Treatment. Daily Usage, 1,000 M.g.p.d. Source Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily.

ONTONAGON

Hoerner Waldorf Corp. Mill Div 115 Lakeshore Rd 49953

Tel: 906-884-4121
RR: Milw Rd, siding. Hwys: US Rte # 45 State Rte # 64.
John E. Hoeft, Vice Pres, Res Mgr
Peyton Grymes, Gen Sales Mgr
K.E. Pickering, Opers Mgr
J.M. Nies, Enviro & Tech Control Supv
E.G. Barradas, Paper Mill Supt
A. Szaroletta, Pulp/Power Supt.
R.L. Fitze, Chief Engr
R.L. Cross, Woodlands Mgr.

Woodhandling and Preparation Roundwood Storage Capacity. 20,000 cds.. Chip Storage Capacity: 50,000 cds.. Mobile Equipment: 1 Pettibone carry lift. 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Barkers: 1-30" Beloit mechanical. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd. 250 cds.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 220 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: Zimpro wet-oxidation system.
Pulp Processing: Hot Stock Refiners: 2 American Defibrator. Stock Refiners: 4-36" Sprout Waldron double disc. Washers. 2 Swenson.

Paper Mill Stock Preparation: Pulpers: 1-100 ton. Refiners: 3 Bauer 440, 2 Sprout-Waldron pump-through. Jordans: 3 Jones Majestic. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZunk.
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1200 fpm
Black Clawson Fourdrinier 180" Width 168" Trim
Dryers. Drums: 52. Calenders: 1 stack. Winders: 1..

Steam/Power. Power Boilers: Fuel: Coal/Oil/Gas. Steam, lbs hr.: 250,000 Press.: 1500.
Electricity: Freq. phase: 60, 3. Installed H.P. 13500. Generated: 240,000 kwh/day. Turbogenerators: 1 GE, 15,000 kw

Water Treatment. Daily Usage, 7,500. M.g.p.d. Source: Lake Superior Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall. Secondary Treatment: Activated sludge.
Products. Corrugating medium, 500 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div P. O. Box 187 49078

Tel: 616-692-6211 Telex: 810-277-7240
RR: PC siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89
Richard L Trueb, Mill Mgr
Robert J Quinlan, Opers Mgr
Donald B Moore, Mgr, Board Mill
Robert A Davis Jr, Mgr, Srvcs
Jerry E Stoltz, Tech Dir
Ray W Peters, Mgr, Power
Howard J. Klein, Mgr, Supply & Distr
Ira E Johnson Jr, Mgr, Cnvtg Opers
Linwood H Jennings, Mill Contr.
Charles R Cushman, Pur Agt.
H.H. Kindig, Human Resources Cnslt
Ted A Olsen, Mill Mktg Mgr

Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 2 Hydrapulpers. Beaters: 2-1500 lb Screens: 8 Refiners. 1-34" Jones DD, 1 Bauer double disc. Jordans: 9. Cleaners: 1 200 tpd. sys with asphalt dispersion unit.
Paper Machines. Eight-Cylinder 142" Width 129" Trim
Dryers. Drums. 164 Calenders: 2..

Steam/Power. Power Boilers. 3. Fuel: Coal/Gas/Oil. Steam, lbs hr., 134,000 Press., 875/300 psi
Electricity Freq. phase: 60,3. Installed H P. 8000. Purchased: 25,000 kwh/day. Generated: 80,000 kwh/day Turbogenerators 4000 kw Westinghouse, 3000 kw Stal Laval.

Water Treatment. Daily Usage, 284. M.g.p.d. Source Wells Primary Treatment: Chlorination. Secondary Treatment. Iron stabilization.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon, 5 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, automotive boards, 210 tons daily.

Menasha Corp. Paperboard Div N. Farmer St. 49078

Tel: 616-692-6141
RR PC siding. Hwys: US Rte # 131. State Rte # 89.
W Allan Schenck, Gen Mgr

MHI-00174

No other organization in the world can supply or buy in volume as many grades and types of fiber for paper making.

Richard Thorne, Prod Mgr
John Scott, Prod Supt
Paul Vestal, Asst Supt
Bruce Buchanan, Tech Mgr
James Sauer, Maint. Supt.
David Seiler, Proj. Engr.
Ron Thaxton, Proj Engr
Robert Gulbranson, Proj Engr
Pieter Decker, Power Supt.
G.A. McConney, Admin. Supt.
Lester Phillips, Pur. Agt.
John Hanson, Wood Dept Mgr

Woodhandling and Preparation Barkers: 1. Chippers: 1 10 knife, 88". Chip Screens: 1. Avg. Daily Use of Peeled Pulpwood: Hwd, 200 cds.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 225 tons Continuous Digesters: 1 vertical Asplund Defibrator.

Chemical Recovery Plant. Evaporators: Zimpro recovery system.

Pulp Processing: Stock Refiners: 7 Sprout Waldron, 3 Bauer primary, 2 S-W, 3 Bauer Secondary, 2 disc presses.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Other Eqt.: 1 Impco disc filter.

Paper Machines. 1 Fourdrinier 176" Width 163" Trim 1200

1 Fourdrinier 92" Width 80" Trim 700 fpm

Dryers. Drums: 56..

Steam/Power. Power Boilers: 4. Fuel: Gas. Steam, lbs hr.: 270,000

Electricity: Purchased: 4000 kw. Generated: 4000 kw Turbogenerators: 1-4000 kw/kva.

Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Submerged combustion. Secondary Treatment: Aeration ponds

Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Industries, Inc. 49268

Tel: 313-265-5174

RR: PC siding. Hwys: US Rte # 223.

Leon Maloney, Mill Mgr

Paper Mill Stock Preparation. Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc. Jordans. 3 Other Eqt.. 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.

Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim

2 Wet Machines, 60", 130" trim

Steam/Power. Power Boilers Fuel: Gas. Press.. 150

Electricity: Freq, phase: 60, 3. Purchased: 100%

Water Treatment. Daily Usage, 120. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes.

Products. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. (Affl. of Philip Morris Inc) 200 Allegan St 49080

Tel 616-685-5851 Telex: TWX. 810-277-4990

RR: PC siding Hwys. US Rte # 131 State Rte # 89

Richard L Radt, Exec Vice Pres, Gen Mgr
L.R Busche, Mgr Mfg
Emil A Warnez Prod Mgr Pprmkg
Lou R Burd, Prod Mgr, Fnshg
James C Farrand, Dir R&D
Paul L Acosta, Mgr, Qual Control
William W Crouch Mgr, Mfg Srvcs
Morris L Scott, Supt of Traffic
Thomas B Pitcher Sec, Mgr Mill Acctg
George R Lewis, Treas

Paper Mill Stock Preparation Pulpers 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters. 2 blending. Refiners: 3 double disc Jordans: 6 Stock Mixers 2 blend chests

Paper Machines. 1 Fourdrinier 112" Width 98" Trim 500 fpm

1 Fourdrinier 135" Width 118" Trim 750 fpm

1 Fourdrinier 135" Width 118" Trim 1000 fpm

Dryers. Size Presses: 3..

Coaters, On-Machine. Trailing Blade, 1-117" Cap. coated paper: 80 tons daily.

Finishing Plant. Supercalenders: 2-65", 1-77". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 4. Trimmers: 4. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 150,000 Press.: 265 psi.

Electricity: Freq, phase: 60, 3. Purchased: 80,000 kwh/day. Generated: 40,000 kwh/day.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond.

Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 180 tons daily

PORT HURON

Dunn Paper Co. Div. of Dennison Mfg. Co. 218 Riverview St. 48060

Tel: 313-984-5521 Telex. TWX: 810-231-7053

RR: GTW siding. Hwys: US Rte # I-94

J.B Gray, Chmn
Nathaniel G McLean, Pres
Calvin E Josselyn, Treas.
Thomas E Gallagher, Vice Pres, Mktg
James R Schoy, Tech Mgr
James R Ishmael, Prod Mgr
Carl L Burdell, Chief Engr
Donald J Haines, Asst. Sec-Treas
Neil F. Plouff, Pur Agt
R.J. Radtke, Contr

Paper Mill Stock Preparation. Pulpers. 7. Refiners: 17. Jordans. 3

Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim

Beloit-Yankee Fourdrinier 134" Width 122" Trim

Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm

Yankee Fourdrinier 137" Width 124" Trim

Dryers Yankee: 3 12', one 18' dia. units Size Presses. 4 Calenders: 4 Winders. 4..

Coaters, On-Machine. Roll, 1

Finishing Plant. Rewinders 2

Steam/Power. Power Boilers 3 Fuel Oil/Gas. Steam, lbs hr 76,000 Press 600/200

Electricity: Freq, phase. 60 3 Purchased 11,000 kwh./day.

Products. Lightweight coated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only 105 tons daily

Port Huron Paper Co. Washington Av (PO Box 289) 48060

Tel 313-982-0191

RR: GTW siding Hwys Near US Rte # I-94 Approx Mi 1. State Rte # 21

Gordon Morseth Pres & CEO
E.G Donovan, Vice Pres Mktg
R.W Durand, Vice Pres, Mfg
L.M. Sturdevant, Vice Pres
R.S Smeltzer Vice Pres, Fin
R Andrews, Sec
T.R Kroll, Paper Mill Supt
L.E Rymers Tecn Dir
Thomas C Noetzel, Chief Engr
G.L Genaw, Pdct Mgr, Prtg Pprs
A.R. Rusee, Contr
F.W. Phare, Pers Dir

Paper Mill Stock Preparation Pulpers: 6 Screens 10 Refiners 8 Jordans: 8 Cleaners. 6

Paper Machines Yankee Fourdrinier 132" Width 123" Trim 700 fpm

Yankee Fourdrinier 143" Width 127" Trim 1200 fpm

1 Fourdrinier 132" Width 120" Trim 1200 fpm

1 Fourdrinier 184" Width 160" Trim 1600 fpm

Yankee Fourdrinier 210" Width 186" Trim 2000 fpm

Dryers Drums: 83 Yankee 3 Size Presses: 5 Calenders: 8 stacks Winders 5

Finishing Plant. Rewinders: 2

Steam/Power. Power Boilers. Steam, lbs hr., purchased.

Electricity Purchased: 100%

Water Treatment. Daily Usage, 14,000 M.g.p.d Source River.

Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, 175 tons daily

ROCHESTER

★**Rochester Paper** Div. of King-Seeley Thermos Co. 340 Mill St. (PO Box 185) 48063

Tel: 313-651-8121

Headquarters Location. See Executive Offices section for more details

RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.

William M Kirkland, Plant Mgr
James M Phillips, Plant Supt
Dewey E Coffelt, Tech. Dir.
Anthony Plachta, Plant Engr
Burton P Bailey, Mktg Mgr

Paper Mill Stock Preparation: Pulpers 1 Jones Hi-Lo. Beaters. 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster

Paper Machines. 1 Fourdrinier 66" Width 62" Trim

Dryers. Size Presses: 1. Calenders: 1 stack..

Coaters, On-Machine. 1-62" Roll, 20 tons daily cap. off Machine. 1-36" Roll, 12 tons daily cap.

Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.

Steam/Power. Power Boilers: Fuel. Oil Press.: 100. Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage. 250. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, graph, grinding wheel, impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 20 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd. 49091

Tel: 616-866-1523

RR: PC siding Hwys. US Rte # 131

J Hart, Mill Mgr
Ronald Van Dyke, Chief Engr.

Paper Mill Stock Preparation Pulpers: 4 Hydrapulper Screens: 8 Refiners. 3. 3 Escher Wyss deflakers Refiners: 3 S-W Jordans 1 Cleaners: Escher-Wyss Consistency Regulators: Escher Wyss. Other Eqt.. allied clay mixing eqt.

Paper Machines Eight-Cylinder 76" Width 70" Trim 315 fpm

Dryers Drums. 115-42" dia Calenders 3 stacks..

Coaters, On-Machine Air Knife, 1 Waldron Microjet with 1 Metering Bar precoater

Finishing Plant Sheeters: 1-67" Trimmers. 2.

Steam/Power. Power Boilers: 2 Fuel Coal. Steam, lbs hr 50,000 Press 135

Electricity: Freq, phase 60, 3. Installed H P 2100 electric, 300 water Purchased 1500 kva

Water Treatment. Daily Usage, 325 M.g.p.d Source. River

Effluent Treatment. Primary Treatment 1 Clarifier with irrigation disposal

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.** 707 S. Evans St. (PO Box 427) 49286

Headquarters Location See Executive Offices section

MHI-00175

THE PAPER TIGERS • PHONE: 312/664-5700

HANCOCK CENTER • 875 NORTH MICHIGAN • CHICAGO 60611

PHONE: 312/664-5700 **HOWARD ZUKER ASSOCIATES**

more details

TROY

★**Abitibi Corp. Bldg Products Div.** 3250 W Big Beaver Rd 48084

Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Lee Paper Co. Washington St 49097

Tel: 616-649-0510 Telex: 810-277-1710

RR: PC siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.

Kenneth A Perkins, Vice Pres, Gen Mgr, Estrn Opers

Wilbur R Noel, Opers Mgr

Charles Gardner, Mfg. Supt.

Raymond Wagner, Tech. Dir.

Roger Huckendubler, Chief Engr.

Rodger Watson, Plant Acct.

Robert Haiduk, Pur Mgr

Ronald G Markan, Pers. Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation. Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Imperial.

Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm

1 Fourdrinier 132" Width 119" Trim 500 fpm

1 Fourdrinier 134" Width 121" Trim 600 fpm

Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..

Coaters, off Machine. Air Knife. 1-52". off Machine. Cap. Coated Paper, 20 tons

Finishing Plant. Supercalenders: 2-56", 48" Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110"

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil Steam, lbs hr.. 80,000

Electricity Purchased: 100%

Water Treatment. Daily Usage. 3,000 M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, lamp shade, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av 49098

Tel 616-463-3141

RR C & O siding Hwys: US Rte # I-94 State Rte # 140

C.C Landegger, Pres

Milton F Stibal, Vice Pres, Mfg

D.L. McFall, Vice Pres, Sales

F G Johnson, Sec

George J Renner, Mgr Paper Making

Fred Cretors, Mgr Qual Control

Lee M Shadduck, Plant Engr

Niels Jensen, Supt, Coating Mill

Robert A Young, Fnshg. Supt

John M Matthews, Matls. Mgr.

D.D McKinney, Pers Mgr

Richard C Melvin, Mgr Tech Sales

R Strasburg, Mgr Mktg Srvcs

Paper Mill Stock Preparation Pulpers. 3. Refiners: 4 Hydradisc. Jordans: 3 Jones

Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm

1 Fourdrinier 138" Width 126" Trim 1000 fpm

Dryers. Drums. 85 Size Presses. 2. Calenders: 2. Winders. 2..

Coaters, off Machine. Air Knife. 4: 92", 88", 70" 66"

Finishing Plant. Supercalenders: 4-66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 2 Embossers, 62" and 53".

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000. Press.: 235.

Electricity: Installed H.P. 450 water. Purchased: 100%.

Water Treatment. Daily Usage. 1,200. M.g.p.d. Source: wells

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. Div. of Artistic Carton Co. (formerly, Weyerhaeuser Co.) PO Box 277 49099

Tel: 616-483-7601 Telex: 616-483-7800

RR: PC siding. Hwys: US Rte # 12.

Arne H. Anderson, Mill Mgr

W.J. Redmond, Supt.

D.E. Redmond, Plant Engr.

Kenneth A Shane, Plant Contr

K.B. Martens, Prchsg Mgr

J.E. Drew, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 6 Hydrapulper Screens: 8. Refiners: 2 Bauer, 1 S-W. Jordans: 6 Shartle.

Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm

1 seven-unit Ultraformer, 112" trim..

Dryers. Drums: 156. Calenders. 6..

Coaters, On-Machine. Air Knife, 1-92", 1-110". off Machine. 2-78".

Finishing Plant. Supercalenders: 1-78". Rewinders: 1. Sheeters: 1-112" on-machine Jagenberg, 3-72". Trimmers: 1-85".

Steam/Power. Power Boilers: 2. Fuel: Oil. Steam, lbs hr.: 150,000. Press.: 500

Electricity: Freq, phase: 60, 3. Generated: 6000 kw. Turbogenerators: 2.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 1 Settling basin.

Products. Single and double patent coated news, clay-coated, single and double manila lined, bending chip, metallic coated boxboards, 200 tons daily

YPSILANTI

Peninsular Paper Co. (Sub of James River Corp.) 1000 N Huron St 48197

Tel 313-482-2600 Telex: 810-223-7004

RR: PC siding. Hwys: US Rte # I-94

Daniel G Quirk, Pres

Frank L Wright, Vice Pres., Sales

Norman B Davey, Contr

Edward G Gremban, Mgr Mfg

Karroll Aungst, Paper Mill Supt

Glenn F Touse, Chief Chemist

David Seidler, Chief Engr.

Robert C Huston, Fnshg & Shppg Supt

James R Elliott, Traffic Mgr

Paper Mill Stock Preparation Pulpers. 2-2000 lb Hydrapulper Refiners 1 Morden Jordans 2 Jones standard, 1 Jones Imperial Cleaners: Bauer Centricleaners Consistency Regulators Fischer Porter Stock Mixers. Lightin' agitators

Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm

Black Clawson Fourdrinier 66" Width 57" Trim 265 fpm

Rotoformers: 1 66" Width

Dryers. Drums. 52-36" dia. Size Presses. 2 Calenders: 2 stacks Winders: 2.

Finishing Plant. Roll Wrapping Eqt.. 1 line. Rewinders: 1-78" Langston. Sheeters: 2-85", 65" Hamblet. Trimmers 1-110" Lawson. 1-85" Seybold Ream Wrapping & Cartoning: Hayssen banding unit.

Steam/Power. Power Boilers: Fuel Gas/Oil Steam lbs hr.: 40,000 Press.. 130

Electricity: Freq, phase: 60, 3. Installed H.P 1200 Purchased. 25000 kwh/day

Water Treatment. Daily Usage. 500 M.g.p.d Source: Wells, River Primary Treatment yes

Effluent Treatment. Primary Treatment: City sewer system.

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div. Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2

RR: NP siding. Hwys: US Rte # 2,71,371.

Robert W Riley, Vice Pres, Gen Mgr

Richard C. Brown, Plant Supt

Donovan Gould, Master Mech.

Myron Haiby, Sales, Traffic Mgr.

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen

Pulp Mill Defibrated Wood Pulp. Avg Daily Prod.: Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.

Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.

Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..

Steam/Power. Power Boilers: 1 Fuel: Gas (oil standby). Steam, lbs hr.: 14,000 Press.. 200.

Electricity: Freq, phase 440v, 60, 3. Installed H.P 2350 electric. Purchased: 30,000 kwh/day.

Water Treatment. Source: City

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, 90 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div 56401

Tel. 218-829-4741 Telex: 910-561-3508

RR: NP siding Hwys: US Rte # 210

Spencer H. Cone, Mill Mgr

Robert V Hershey, Asst Mill Mgr & Mgr, Paper Mfg & Coating

Burdell L. Lower, Mgr., Tech. Srvc

Gerald D Cran, Mgr., Mech. Srvc

Harold N Pitt, Mgr., Ind. Srvc.

Robert R Watkins, Mgr., Fnshg/Shppg

David W Dinham, Pur Agt

Paper Mill Stock Preparation: Pulpers 1 Morden, 3 Hydrapulpers. Jordans: 3 Emerson, 4 Black Clawson.

Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm

1 Fourdrinier 200" Width 180" Trim 2000 fpm

Dryers Drums. 101. Size Presses. 2 Calenders: 3..

Coaters, off Machine. 1-112" two-station blade.

Finishing Plant Supercalenders 2-121", 1-80". Rewinders: 5 Sheeters: 7. Trimmers: 4

Steam/Power. Power Boilers 3 Fuel Gas/Coal. Steam, lbs hr. 132,000.

Electricity. Purchased. 126,000 kwh/day. Generated: 54,000 kwh/day.

Water Treatment. Daily Usage. 2,300. M.g.p.d. Source River Primary Treatment: Infilco accelerator

Effluent Treatment. Primary Treatment. 1-90' Beloit-Passavant clarifier Secondary Treatment: 9 12'x26' Bio-Surf units. 1-85' Eimco clarifier

Products. Bond, duplicator, ledger, MICR, Xerographic, map, book (coated and uncoated) offset, coated offset text and cover (gloss, matte, dull, velvet), greeting card, opaque, mimeoset, 275 tons daily

CLOQUET

Conwed Corp. Arch and C Sts 55720

Tel. 218-879-6771 Telex 910-561-2110

MHI-00176

THE PAPER TIGERS • PHONE: 312/664-5700

HANCOCK CENTER • 875 NORTH MICHIGAN • CHICAGO 60611

PHONE: 312/664-5700 HOWARD ZUKER ASSOCIATES

1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
Finishing Plant. Supercalenders: 2 Norwood. Sheeters. 12 Trimmers: 12. Other Eqt.: Air Dryers: 2.

Products. Bond, writing, vellum, bristol, wedding, typewriter, onionskin, airmail bond, manuscript cover, text, box cover, drawing, jeweler's bristol, lampshade, tag parchment, papeterie, steel plate, patent office board, gravure, blueprint, direct process and negative, 100 tons daily, total of Turner's Falls and Woronoco mills.

WEST GROTON

Groton Leatherboard Co. 01472

Tel: 617-448-6334
RR: B&M. Hwys: Near US Rte # 495 Approx Mi 10.
Eugene R. Gray, Pres., Treas.
William A. Lawrence II, Vice Pres.
John C McGrail, Asst Treas.
Virgil L. Powell, Prod Mgr
Raymond J LeBeau, Asst. Prod. Mgr.

Paper Mill Paper Machines. 16 Wet Machines..

Effluent Treatment. Primary Treatment: and. Secondary Treatment:

Products. Stereotype dry mats

Hollingsworth & Vose Co. 01472

Tel. 617-448-3311
RR: B&M siding Hwys: US Rte = 40. State Rte # 2A.
John J Fawcett, Mill Mgr
Richard H Guimond, Gen Supt
Douglas Klauber, Tech. Supt.

Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners. Bauer Centricleaners
Paper Machines. 1 Fourdrinier 66" Width 60" Trim
Rotoformers. 1 65" width, 58" trim.
Rotoformers 1 120" width, 110" trim.
Finishing Plant Rewinders. 2 Sheeters: 2 Trimmers 2

Steam/Power. Power Boilers 3. Fuel. Oil. Press.. 150
Electricity: Freq, phase: 60, 3

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment Yes

Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily.

WEST SPRINGFIELD

★**Preco Corp.** Front St 01089

Headquarters Location See Executive Offices section for more details

Premoid Corp. (Sub. of Preco Corp) Front St. 01089

Tel 413-736-4554
RR PC siding Hwys US Rte = 20 Near State Rte = Mass Tnpke Approx Mi 4
Charles S Sweitzer Pres. Res Mgr
F B Comery Vice Pres Sales
J A Cancelliere, Vice Pres. Coating Div
Robert J DeGeorge Gen Supt
Ludwig A Wax Tech Dir
A J Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr

Paper Mill Stock Preparation Pulpers. 1 Screens. 2 Refiners: 1 Jordans 1
Paper Machines 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant. Rewinders. 1 Sheeters 1 Other Eqt.. 1-60" two-station roto-gravure printer, 3-60" roll embossers

Water Treatment. Daily Usage, 400 M.g.p.d Source: River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.

Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily.

Southworth Co. Front St. 01089

Tel: 413-732-5141 Telex: 955-484
RR: PC siding. Hwys: US Rte # 91,20.
John H Southworth, Pres., Treas.
Kent Tarrant, Vice Pres., Sec.
E. Randall Baker, Supt.
Elio Viecelli, Asst. Supt.

Paper Mill Stock Preparation: Pulpers: 2. Beaters: 1-1200 lb, 4-850 lb. Refiners: 1 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers. Size Presses: tub..
Finishing Plant. Supercalenders: 1. Sheeters: 3. Trimmers: 4.

Steam/Power. Power Boilers: 2. Fuel: Oil.

Water Treatment. Source: River.

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Rag content bond, ledger, linen, typewriter, onionskin, manuscript cover, writing, watermarked deluxe bond, 15 tons daily.

Strathmore Paper Co. Front St 01089

RR: B&M. Hwys: US Rte # 20.

Paper Mill Stock Preparation: Beaters: 4
Paper Machines. 1 Cylinder 52" Trim
1 Cylinder: 89" Trim

Products. Fine and technical specialty papers, 20 tons daily
Paper Mill Is Idle.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111
RR: B&M Hwys: US Rte # 20.
Donald W Bush, Supt. No. 2 Mill
Bernard J. Czanowski, Supt. No. 1 Mill
Henry Dominguez, Chem
Alfred Letourneau, Maint Engr

Paper Mill Paper Machines. Equipment listed under Westfield, MA listing..

Products. Mill No. 1: writing, text, cover, papeterie papers. Mill No. 2: Rag specialty, reproduction and bond papers.

MICHIGAN

ADRIAN

★**Simplex Products Group** 3000 W Beecher St 49221

Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi Corp. Building Products Div 416 Ford Ave 49707

Tel 517-354-2121
RR Detroit & Mackinac Siding. Hwys US Rte # 23 State Rte = 32
W G Coggan, Plant Mgr
P K De Bruhl, Mgr Opers
R.R Stepanski, Mgr Mfg
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
O.B Eustis, Control Mgr
A R Schultz, Power Plant Supt
T.J Kelly, Pers Mgr
R.C. Keith, Plant Contr
W.C. Lake, Pur Agt
J.C. Lamy, Woods Mgr.

Woodhandling and Preparation Barkers 2 26" mechanical. Chippers. 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood 400 cds (rough basis)

Pulp Mill Defibrated Wood Pulp Avg Daily Prod 430 tons Batch Digesters 4 Bauer Rapid-Cycle Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation: Pulpers. 1 Jones Refiners. 3 Bauer, 2 Sprout-Waldron pump-thru
Paper Machines. 1 Fourdrinier 160" Width 156" Trim
1 Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt.: 2 20-deck presses, 1 22-deck press

Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.. 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators. 1 GE 7500 kva

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River. Primary Treatment: Screening.

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration Lagoons.

Products. S1S and S2S hardboard, 410 MMsf annually (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707

Tel: 517-354-2131
RR: D&M siding Hwys: US Rte # 23. State Rte # 32.
Allan M Fletcher, Pres, Treas
John T Fletcher, Vice Pres.
R. Werner, Sec., Pur. Agt.
Charles S. White, Gen Mgr
A.J. Steber, Gen Supt
David Dreisbeck, Prod Mgr
D. Gouin, Paper Mill Supt
William S. Grimes, Mgr. Tech Pprs
E.J. Grys, Tech Dir
R.J. Bowes, Chief Engr
Clifford Crevier, Fnshg Supt.
John Stretchko, Traffic Mgr.
H.S. Granstrom, Sales Mgr

Paper Mill Stock Preparation: Pulpers. 3 Hydrapulpers. Screens. 2 Selectifier Refiners: 5 Jones DD. Jordans. 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums: 62. Size Presses: 2. Calenders. 2 stacks. Winders: 2.
Coaters, off Machine 1-60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant Sheeters. 1-72", 1-100" Trimmers: 3-65", 72", 85"

Steam/Power. Power Boilers. 1. Fuel: Gas/Oil. Steam, lbs hr.. 60,000. Press.: 450
Electricity Freq, phase: 60, 3. Generated: 72,000 kwh/day

Water Treatment. Daily Usage, 700. M.g.p.d. Source: Thunder Bay River Primary Treatment: Yes

Effluent Treatment. Primary Treatment. 1 Clarifier. Secondary Treatment. City syst.

Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 65 tons daily.

BATTLE CREEK

St. Regis Paper Co. Folding Carton Div, Battle Creek Pprbd Mills 79 E Fountain St. 49016

Tel 616-963-5511
RR. ConRail GTW siding Hwys: US Rte # I-94, I-69 State Rte # 66,37,89
Robert A Armstrong, Res Mgr
Terry A Tiffany, Mfg Supt, Fountain Mill
Leonard A Carlson, Mfg Supt, Angell Mill
Jon Hamelink, Supt, Fountain Mill
Thomas W Smith, Supt Angell Mill
Clyde G Eckhart, Tech Dir
Louis J Philipps, Plant Engr
Harold E Criswell Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
A W Miller Jr, Bxbd Sales Mgr

Paper Mill Stock Preparation Pulpers: 3-4000 lb. and 3-3000 lb Morden Slushmaker 1-14', 3-16', and 1-20' Hydrapulpers. 1-3000 lb Beaters: 1-2000 lb broke Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer Jordans. 15.

MHI-00177

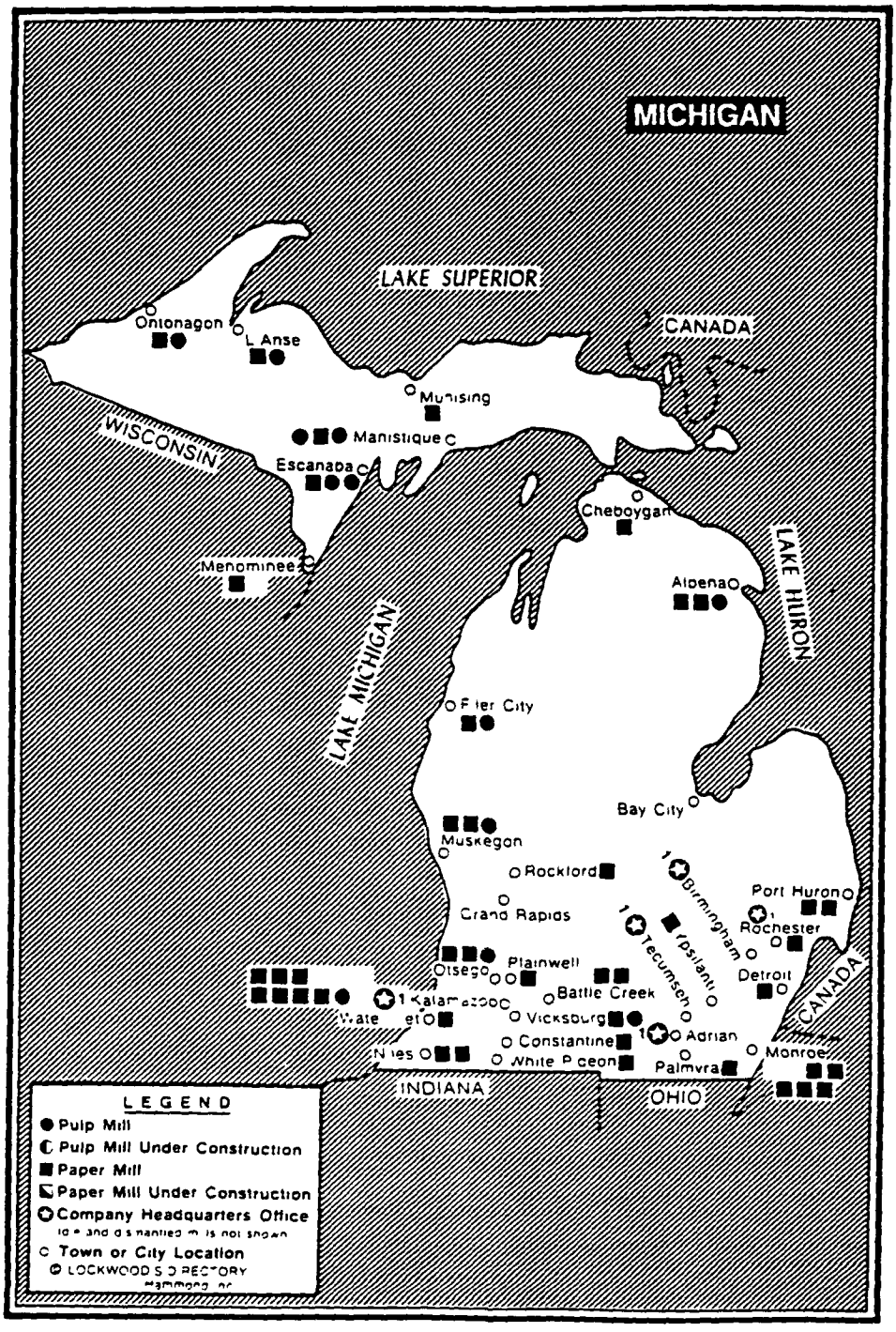
Paper Machines Beloit Eight Cylinder 130 Trim 1000 fpm
Stevens Formers 1 seven unit 120 trim 750 fpm
1 six unit Ultraformer 98 wide 96 trim 450 fpm
Dryers Drums 283 60 Calenders 7 stacks 1 breaker stack Hi Velocity 2 gas infrared
Coaters On Machine Air Knife 1 130 1 98 1 122 On Machine Trailing Blade 1 130 1 98 1 122 On Machine Rod 2 130
Steam/Power Power Boilers 3 Fuel Oil/Gas Steam lbs hr 240 000
Electricity Purchased 2 500 kwh/day Generated 7 500 kwh/day Turbogenerators 2 8500 kw/kva
Water Treatment Daily Usage 5 000 M g p d Source River
Effluent Treatment. Primary Treatment Yes Effluent to joint industrial/municipal plant
Products. White clay coated white lined news solid kraft kraft lined chip plain and bending chip bleached manila lined manila lined vat lined box boards 480 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co S Main St 49721
Tel 616-627 5664
RR D&M siding Hwys US Rte # 27
H A Bullard Plant Mgr
Paper Mill Paper Machines Yankee Fourdrinier 136 Width 130 Trim
Yankee Fourdrinier 136 Width 130 Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Products Group Centreville Rd 49042
Tel 616-435-2425 Telex 510 398 5730
RR PC siding Hwys US Rte # 131
Joe Hart Plant Mgr
Dick Runyan Prod Mgr
William Maxam Plant Engr
Paper Mill Stock Preparation Pulpers 2 Screens 6 Jordans 6 Other Eqt 1 disc filter
Paper Machines Six Cylinder 108' Width 98 Trim
Steam/Power Power Boilers Fuel Gas/Oil Press 150
Electricity Freq phase 440 v 60 3 Purchased 100%
Water Treatment. Daily Usage 200 M g p d Source River
Effluent Treatment. Primary Treatment None Effluent to municipal plant
Products. Chipboard 50 tons daily



DETROIT

Scott Paper Co Packaged Products Div 9125 W Jefferson Ave 48209
Tel 313-842-0042
RR ConRail siding Rouge Yard Hwys US Rte # I-75
Martin F Schnaufer Gen Mgr
James S Brown Prod Mgr
Kenneth S Sexton Paper Mill Mgr
Charles L Jennings Paper Mill Mgr
James W Woodson Tech Dir
Donald Grace Plant Engr
Linda DiNaro Chief Consumer Rep
R P McConkie Fnshg Supt
Charles G Allen Safety & Srvcs Mgr
T T Feliks Acctg Mgr
Harold B Randolph Pur Agt
John R Hulbert Plant Traffic Mgr
William H Cope Pers Mgr
Lloyd H Jewell Sales Mgr Warren Grades
Paper Mill Stock Preparation Pulpers 3 Liebeck 1 Pulpmaster 1 Dualator 2 Slushmaker 2 Jones 1 Hymac Refiners 5 double disc 1 Morden Jordans 5
Paper Machines 2 Yankee MG Fourdrinier 132 Width 124 Trim
1 Yankee Fourdrinier 136 Width 124' Trim
1 Yankee Fourdrinier 142 Width 120' Trim
Dryers Yankee 4
Finishing Plant Other Eqt Toilet tissue and napkin converting machinery
Steam/Power Power Boilers 3 Fuel Gas/Oil
Electricity Generated 100%
Water Treatment Daily Usage (n a) M g p d Primary Treatment Yes
Effluent Treatment Primary Treatment City System
Products Toilet napkin wiper waxing toweling MG carbonizing twisting bleached and colored tissue papers 190 tons daily Packaged products roll toilet tissue napkins wipes

ESCANABA

Escanaba Paper Co (Sub of Mead Corp Publishing Paper Div) 49829
Tel 906 786 1660
RR C&NW Soo Line sidings Hwys US Rte # 2 41 State Rte # 35
S S Benedict Pres Gen Mgr
James M Owens Vice Pres Mfg
Gerald R Gould Vice Pres Admin
Dudley Grantham Kraft Mill Mgr
O C Christiansen Tech Dir
D A Russell Mgr Pprmkg & Ctg
G Eastin Qual Mgr
H D Hamilton Mgr Plant Engrg
J L Parr Enviro Control Tech Dir
J F Schneider Sales Srvc Mgr
J C Huskey Contr
W Dixon Indstry Mgr
T J Gregoire Dir Ind Rels
R Tompkins Pub Rels Mgr
M L Lappa Mgr Mkt Rsrch Adv & Sls Prom
Lynn S Sandberg Gen Mgr Woodlands
Woodhandling and Preparation Log Handling Live

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100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

decks. Chip Handling Rader pneumatic system. Barkers: 2-12' x 80' drum. 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark Chippers 2 15 knife 112" disc. 1 84" Nicholson. Chip Screens. 1 KMW

Pulp Mill Kraft. Avg. Daily Prod Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 150-300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each Ground Wood. Refiner. Avg. Daily Prod. Bl. Hwd., 150 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-18 disc

Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers. 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers 1 8'x12' D-O. Recausticizing System: Dorr-Oliver

Bleach Plant. Sequence: Gwd: 1 stage Kraft: C-E-D-E-D. Chlorine Dioxide System. Hooker SVP system

Pulp Processing. Knotters: Gwd. 2 A-C vibrating. Kraft: SW Hooper centrifugal. Drainers Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners: Gwd. 2-26" S-W Twin-Flo Rejects Refiners. Gwd: 1 Bauer. Screens. Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft: Bird Centrisorters. Cleaners: Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd: 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach Washers. Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft. 1-13½ x24' Impco

Pulp Drying: Dryers Former No 2 P&J paper machine modified for pulp drying 166" width, 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys: 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers. 2 Hydrapulpers, 2 continuous Morden 2 Dynapulpers, 3 Morden broke. Screens: 6 Selectifiers, 2 Centriscreens. Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans: 4 Cleaners 4-stage Bauer Centricleaner-Deculator system

Paper Machines P&J Fourdrinier 166" Width 155" Trim 1300 fpm

Beloit Fourdrinier 300" Width 274" Trim 3000 fpm

Dryers. Size Presses. 2. Calenders. 2 stacks. Reels 2 Re-reelers.

Coaters, off Machine Trailing Blade. 2-286", 2-172" double blade for C2S off Machine Cap Coated Paper. 500 tons

Finishing Plant Supercalenders. 2-278" 9-roll Appleton Roll Wrapping Eqt. Lamb-Grays Harbor automatic Rewinders 3-2 drum 156" Cameron 2-MIR - 278" Cameron Sheeters 3 - Hamblet Trimmers 4 Seybold

Steam/Power. Power Boilers 3 Fuel: Oil/Gas/Bark Steam, lbs hr 1,000,000 Press. 400/1500 Electricity: Freq, phase 60, 3 Installed H.P 75,000 Generated 50 000 kwh/day Hydroelectric. 2,000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage, 28,000 M.g.p.d Source Lake Michigan Primary Treatment. Sand filters

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment Aeration-lagoon Tertiary Treatment Clarifier

Products. Coated book and publication papers. 600 tons daily

FILER CITY

Packaging Corp of America 49634

Tel 616-723-9951

RR C&O siding Hwys US Rte # 31

J.L. Ham Vice Pres & Mgr

Woodhandling and Preparation Roundwood Storage Capacity 26,000 Cords Barkers 1 12'x80' FMP Chippers 1 112", 12-knife Chip Screens. 2 HiCap

Pulp Mill Semi-Chemical, NSSC Avg Daily Prod. 600 tons Continuous Digesters 3 Pandia

Chemical Recovery Plant Evaporators. 2 multiple-effect. Recovery Boilers. 1 B&W

Pulp Processing Stock Refiners 3 American Defibrator Washers 4 Vacuum, 5 screw press

Paper Mill Stock Preparation: Pulpers. 3 Refiners: 5 Jones disc 4 Sutherland. Jordans. 7 Miami

Paper Machines 1 Fourdrinier 174" Width 158" Trim 1000 fpm

1 Fourdrinier 172" Width 157" Trim 1000 fpm

1 Fourdrinier 160" Width 148" Trim 750 fpm

Dryers Drums. 148-60" dia..

Steam/Power. Power Boilers 4 Fuel. Oil/Gas. Steam, lbs hr.: 600,000 Press.: 610.

Electricity Purchased: 25,000 kwh/day. Generated: 475,000 kwh/day. Turbogenerators: 3-21,875 kva total.

Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: River, Lake.

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.

Products. Corrugating medium, 625 tons daily.

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. (Sub. of SCM Corp.) 2030 Portage St 49001

Tel: 616-345-7131

Headquarters Location. See Executive Offices section for more details.

RR: Penn Cntrl sidings Hwys: US Rte # IS 94, 131. State Rte # 43,96

E.J. Gilman, Vice Pres, Mfg

J.D Nisbet, Vice Pres, Sales

A.E. Vickery, Engrg Mgr

D.A Falvey, Asst Engrg Mgr

W.J. Haselow, Dir Qual Control

H.D Peeters, Dir Prod Sched

U.G. Stoeffler, Mgr Proc Devl

G.F Mahoney, Natl Sales Mgr

J.L. Curtis, Sales Mgr, Kalamazoo

B.C. Rasmusson, Dir Prchsg

J R. Bowen, Traf Dir

Steam/Power. Power Boilers. Fuel: Oil/Gas.

Water Treatment. Source River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf box cover, carbonizing, cover, direct process, drawing, duplicator, envelope, foil mounting, gift wrapping, greeting card, gumming, label, ledger, map, mimeo, offset, opaque, papeterie, place mat, post card, poster, register, sensitizing, tablet, text, vellum, xerographic, antitarnish, bank note, blotting, litho, chart, music, pattern, watermark, 450 tons daily Coated electrostatic base, master and specialites 75 tons daily Coated two sides matte finish book, 100 tons daily

Allied Paper Inc. Bryant Mill 49003

Kenneth Sweet, Gen Supt

Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim

1 Fourdrinier 139" Width 126" Trim

1 Fourdrinier 141" Width 127" Trim

1 Fourdrinier 154" Width 142" Trim

1 Fourdrinier 164" Width 152" Trim

Coaters, off Machine C2S Fountain Blade, 126" trim C2S Reverse Roll, 74" trim Air Knife, 72" trim

Finishing Plant Supercalenders Rewinders Sheeters Trimmers Other Eqt automatic counters

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, Gen Supt

Paper Mill Paper Machines 1 Fourdrinier 126" Width 108' Trim

1 Fourdrinier 133" Width 112" Trim

Brown Co. Specialty Papers Div 243 E Paterson St. 49007

Tel 616-383-5000

RR ConRail, CK & S. siding. Hwys: US Rte # 12, 131, I-94 State Rte # 43.

William Fredericks Mfg Mgr Fiber & Paper

Ron Fleckenstein, Mfg Mgr, Cnvtg

Harry Pratley, Mgr, Qual Control

D Feldmann, Mgr, Engrg Maint & Util

Lyle Alrick, Shipping Supt.

K. Matveia, Mgr Mfg, Parchment & Tech Srvcs

John P Delanty, Dir Sales & Mktg

Burnell Long, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers. 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Jordans: 8 Majestic, 17 Fibremaster.

Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.

Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim

P&J Fourdrinier 163" Width 148" Trim

B&S Fourdrinier 165" Width 148" Trim

Beloit Fourdrinier 167" Width 148" Trim

2 Yankee Fourdrinier 139" Width 126" Trim

Dryers. Calenders: 10 stacks..

Coaters, off Machine. Air Knife: 1. Blade: 2. Solvent: 1.

Finishing Plant. Supercalenders: 3. Rewinders: 6. Sheeters: 8. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Water Treatment. Daily Usage, 7,000. M.g.p.d. Source: River, well.

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily. Mill No 2: 280 Tons daily.

Brown Co. Recycled Paperboard Div. 243 E. Paterson St. 49007

Tel: 616-383-5000

RR: PC, CK & S siding. Hwys: US Rte # 12, 13, I-94. State Rte # 43.

Norman K Ryan, Dir Opers

Dick Bennett, Prod Mgr

Bruce Lurvey, Supt, Plt 4

John Harrison, Supt, Plt 7

Gene Ackermann, Supt, Plt 14

Robert A Nitz, Tech. Dir.

Bruce D Wagner, Pur Agt.

Wayne VanWeelden, Admn Mgr

Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker Beaters: 1 continuous broke Refiners: 8 Hydrafiners, 2 Morden stockmakers. Jordans: 10

Paper Machines. Seven-Cylinder 132" Width 120" Trim

Eight-Cylinder 154" Width 138" Trim

Coaters, On-Machine. Air Knife, 2.

Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters

Finishing Plant. Other Eqt.. 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.

Water Treatment. Daily Usage, 4,000. M.g.p.d. Source. Deep well.

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (PO Box 2738) 49003

Tel: 616-382-2890

RR. PC, GTW, siding Hwys: US Rte # I-94.

William R Walsh, Res Mgr

Jerry Robinson, Prod Mgr

Del Van Bruggen, Paper Mchne Supt

Earl Vining, Paper Mchne Supt

David DeKam, Tech Mgr

Fred J Shelton, Plant Engr

Mike Knaff, Power Supt

George Grenon, Fnshg. Supt.

Ronald Bush, Plant Contr

John P Gideon, Pur Agt

James H Cox, Traffic Mgr

David Boring, Ind Rels. Mgr

Pulp Mill Deinked Pulp. Avg. Daily Prod.: 200 tons

Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb. 6-2500 lb. 2-3500 lb. Jordans: 5.

Paper Machines 1 Fourdrinier 142" Width 130" Trim 750 fpm

MHI-00179

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP

100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 156" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Supercalenders. 2 90". Rewinders: 2 95" Other Eqt. Embossers. 1 65".

Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 350,000. Press.. 450/275
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.

Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.

Products. Bible, bond, book (antique, bulking, eggshell, EF, MF, supercalendered, offset, coated), text, cover, box cover, check, duplicator, drawing, litho, mimeo, manifold, embossing, envelope, greeting card, gumming, label, ledger, MICR, music, papeterie, postcard, poster, register, bond, salesbook, straw, tablet, tea bag, vellum, watermarked, writing, 425 tons daily.

Hawthorne Paper Co Inc. Sub. of Gould Paper Corp. King Hwy 49003

Tel: 616-345-1163
RR: ConRail siding. Hwys: State Rte # 96.
P.J. Gould, Exec Vice Pres

Paper Mill Stock Preparation Pulpers: 4 Apmew. Screens. 2 Centriscreen Refiners: 4 Morden, 2 Claflin. Jordans: 3 Jones Imperial, 2 Jones Pony.
Paper Machines. Beloit Fourdrinier 105" Width 92" Trim 600 fpm
Beloit Fourdrinier 92" Width 80" Trim 600 fpm
Dryers. Drums 28, 28-42" dia. Size Presses. 2 on each machine. Calenders. 2 stacks. Reels: 2 vertical. Winders. 2 2-drum
Coaters, off Machine. 2 Air Knife.
Finishing Plant. Roll Wrapping Eqt. 1 100" with 50" roll header Sheeters: 1 100" Clark Aiken duplex, 1 108" Moore & White. Trimmers: 1 110" Lawson, 1 95" Seybold Ream Wrapping & Cartoning 1 Southworth carton sealing line. Strapping Eqt.. 1 Signode compression strapping machine, 3 Signode banders, 2 Acme stitchers. Other Eqt.: 1 Embosser

Steam/Power. Power Boilers. 2 Fuel: Coal. Steam, lbs hr 50,000 Press. 150
Electricity Freq, phase. 60, 3. Purchased: 100%

Water Treatment. Daily Usage. 65 M.g.p.d. Source. Wells Primary Treatment: Filtration.

Effluent Treatment. Primary Treatment. Joint industrial/municipal Treatment Plant

Products. Sulphite and cotton-content bond, ledger, index, offset, text, cover, wet strength map, chart, poster, No 1 hanging, strippable hanging, latex saturated, and other specialties. 79 tons daily Paper Mill is idle

National Gypsum Co. 2305 E King Hwy 49003

Tel: 616-343-1579
RR: Penn Cntrl siding Hwys: US Rte # 12
Arnold F Nelson Plant Mgr
J. Waber, Proc Supt
Lee Webster, Maint Supv
F.B Mack, Steam Engr
J P Schiebergen, Qual Supv
D.R Thompson Office Mgr
Carl Groesbeck Plant Buyer

Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners. 3 Sprout Waldron Jordans 2 Shartle
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers Drums 110 Infrared 30 Calenders. 2 stacks
Finishing Plant: Rewinders 1

Steam/Power. Power Boilers: 2 Fuel Gas/Oil Steam, lbs hr 70,000
Electricity Purchased 48,000 kwh/day

Water Treatment. Daily Usage, 580 M.g.p.d Source Wells City

Effluent Treatment. Primary Treatment 1 Clarifier

Products. Gypsum board liner, 155 tons daily

L'ANSE

Celotex Corp. Sub of Jim Walter Corp. PO Box 86 49946

Tel. 906-524-6101
RR: Soo Line. Hwys: US Rte # 41.
L.W. Swanson, Plant Mgr
R. J. Slattery, Gen Supt
R.A. Soli, Plant Contr
B. C. Penokie, Plant Engr
T. Barthell, Tech Srvc Mgr

Woodhandling and Preparation Chip Handling: Chain, belt conveyors. Chippers: 1 85" Charthage. Chip Screens: 1 three-deck Dillon.

Pulp Mill Defibrated Wood Pulp. Continuous Digesters: 3 Defibrators.
Pulp Processing: Stock Refiners: 3 Asplund disc.

Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers: 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater.

Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day.

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.

Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products. 270 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. PO Box 111 49854

Tel: 906-341-2175
RR: Soo Line sidings. Hwys US Rte # 2.
Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Harry Hastings, Paper Mchne Supt
George Bouscher, Plant Engr
Audun Grimnes, Prod Control Mgr
Francis J Kasun, Pur Mgr
Al Schuster, Sales Mgr
Walter Alexander, Office Mgr

Woodhandling and Preparation Roundwood Storage Capacity 15,000 cds Mobile Equipment: 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs. 1. Avg Daily Use of Peeled Pulpwood: 65 cds

Pulp Mill Ground Wood. Stone. Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg Daily Prod. 75 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan

Paper Mill Stock Preparation Pulpers: 2 Jones. Refiners. 1 Claflin
Paper Machines 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers Drums. 40-60" dia Size Presses. 1. Calenders 1. Reels 1 Winders 1 Cameron.

Steam/Power. Power Boilers Fuel Coal Steam, lbs hr 75 000 Press.. 350
Electricity Purchased 5000 kwh/day

Water Treatment. Daily Usage, 2,500 M.g.p.d. Source River Primary Treatment: Yes

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment Settling pond

Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers. 150 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St 49858

Tel 906-863-5595
RR. C&NW, CMStP&P Hwys. US Rte # 41 State R # 173
Ernest Graham, Gen Mgr
William Walker Paper Mill Supt
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
John A. Gaspen, Cnvtg. Supt
Gene Jasper, Sales Mgr
Robert Pomrenke, Mgr Matls Control
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5
Paper Machines. Black Clawson Fourdrinier 164 Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders. 4 Other Eqt.: Waxers: 5.

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 140,000
Electricity: Purchased: 7,000 kwh/day. Generated 4,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 5,000. M.g.p.d Source: River.

Effluent Treatment. Primary Treatment: Yes.

Products. Linerboard, waxing tissue, 350 tons daily Waxed paper in rolls and sheets

Scott Paper Co. 26th St.

Tel: 906-863-2004
RR: C & NW, CM StP & P Hwys. US Rte # 41.

Woodhandling and Preparation Roundwood Storage Capacity: 6,000 cds. Avg. Daily Use of Peeled Pulpwood: 24 cds.

Pulp Mill Ground Wood. Stone. Avg. Daily Prod.: Unbl. Swd., 22 tons Grinders: 4 three-pocket.
Pulp Processing: Rejects Refiners: 1 disc. Screens 4.
Pulp Drying: Wet Machines 4
Pulp Mill is idle.

Products. Groundwood pulp, 22 tons daily for own consumption

MONROE

Consolidated Packaging Corp. 921 E Elm Av (PO Box 724) 48161

Tel: 313-241-9000
RR: Penn Cntrl sidings. Hwys: US Rte # I-75. State Rte # 56,24A.
Robert Lajiness, Prod Mgr, Boxboard
Carlson Robideau, Paper Stock Buyer

Paper Mill Stock Preparation Pulpers: 4 Hydrapulpers (liner). 7 Hydrapulpers (bxbd), 8 Dynapulpers (bxbd) Beaters. 2 Dilts (liner), 4 Dilts breaker (bxbd) Refiners: 4 (liner), 2 (Corr), 4 (bxbd). Jordans: 8 (liner), 4 (Corr), 20 (bxbd) Other Eqt.. 2 200 tpd asphalt dispersion sys.
Paper Machines. Linerbd Seven-Cylinder 140" Width 118" Trim 600 fpm
Bxbd Eight-Cylinder 102" Trim
Bxbd Seven-Cylinder 112" Trim
Bxbd Seven-Cylinder 112" Trim
CorrMed Fourdrinier 132" Width 115" Trim 1000 fpm
CorrMed Fourdrinier 96" Width 84" Trim 700 fpm
Dryers. Drums: 754 Size Presses 2 on Bxbd machines. Calenders. 9 stacks..
Coaters, off Machine. Air Knife. 1-72" on bxbd 450 t.p.d capacity
Finishing Plant Rewinders: 5 Trimmers. 4-64", 72" 84" 84"

Steam/Power. Power Boilers 4. Fuel Coal. Steam, lbs hr 200,000 Press. 250
Electricity Freq, phase. 220/440v, 60, 3 Purchased 200 Mkw Generated 100 Mkw. Turbogenerators. 2-1500, 2500 kw/kva

Water Treatment. Daily Usage. 2,500 M.g.p.d Source Wells, Lake

Effluent Treatment. Primary Treatment. Clarifiers Secondary Treatment: Lagoons

Products. Test liner 160 tons daily, corrugating medium, 230 tons daily, folding boxboard, clay coated boxboard, automobile panel board, resin forming board, pasted boards. 425 tons daily.

Time Container Corp. Monroe Div 1151 W Elm Av 48161

Tel: 313-241-3220
RR. C&O siding Hwys. US Rte # 24, I-75
James V LaMarre, Pres, Gen Mgr

MHI-00180

GREAT EASTERN
PACKING & PAPER STOCK CORP.
250 Park Avenue, NYC 10017 212-986-7840
615 E. First Ave., Roselle, N. J. 07203 201-245-6511
Station & Halleck Sts., Roxbury, Boston, Mass. 02120 617-427-5720
WASTE PAPER

Daniel Staelgraeve, Crrgtd Gen Mgr
Edward D O'Brien, Mill Prod. Mgr
Robert Bert, Mill Supt
Eric Flotow, Chief Chemist
George K Whitaker, Chief Engr
Charles Robertson, Paster Supt.
Delbert Broughton, Plant Contr.
William A. Finn, Pur Agt.
Irving Kukio, Sales Mgr.

Paper Mill Stock Preparation. Pulpers: 2 Hydrapulper. Refiners: 1 Emerson Jordans: 10 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders: 2 stacks. Winders: 1.
Finishing Plant. Rewinders. 1. Trimmers: 2.

Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Joint municipal-industrial system

Products. Test linerboard, pasted chip, plain chip, tube board, lightweight chip, panel board, 110 tons daily.

Union Camp Corp. Unbleached Paper & Board Div 1109 E. Elm St (PO Box 588) 48161

Tel: 313-241-7700

RR: ConRail Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1 State Rte = 56

R.A. Thorne, Res Gen Mgr
J. Fuko, Mill Mgr.
J.R. VanSlambrouck, Gen. Supt.
E.J. McCue, Tech Supt.
A.L. Gordon, Mill Engr.
H.C. Brothers, Dir, Prchsg
T.L. Kelley, Mill Sales Mgr
J.C. Foxworthy, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier Refiners: 6-32" Bauer 442 disc. Jordans: 6 Miami 2A, 2 Emerson 2-OD Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators: 4 Bird
Paper Machines B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums. 127, 103, and 137-42" dia Reels 2 Pope, 1 upright Winders. 3 two-drum.

Steam/Power. Power Boilers 1. Fuel: Coal Steam, lbs hr: 200,000 Press. 600 psi.
2. Fuel: Gas/Oil. Steam, lbs hr. 140,000. Press., 175 psi
Electricity Freq, phase: 60, 3. Generated 9850 kwh/day Turbogenerators 2-7500 kw, 1000 kw, 1-1000 kw and 1-350 kw diesel generators

Water Treatment. Daily Usage, 3,000 M.g.p.d. Source. Lake Erie Primary Treatment: None.

Effluent Treatment. Primary Treatment 2 50' Clarifiers Secondary Treatment: Municipal Sys

Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards 300 tons daily

MUNISING

Kimberly-Clark Corp. Munising Paper Div PO Box 10 49862

Tel: 906-387-2700

RR: LS&I Hwys State Rte = 28.94

Richard H Boehm, Div Vice Pres (Neenah)
J Richard Grau, Gen Mgr Sales & Mktg (Neenah)
Norman G Bull, Mktg Mgr (Neenah)
Elbert M Heath, Mktg Srvcs Mgr (Neenah)
Harold E Kriekard, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
John E Carter, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt

Paper Mill Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 3 Saturators: 5.
Finishing Plant. Supercalenders: 1-94". Rewinders. 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser. 1 Laminator.

Water Treatment. Daily Usage. 5,000. M.g.p.d Source: Lake Superior.

Effluent Treatment. Primary Treatment: Yes.

Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, saturating, coated and saturated specialties, 78 tons daily.

MUSKEGON

Tekmold Inc 2850 Lincoln St 49441

Tel: 616-755-1662

RR: GTW siding. Hwys: US Rte # I-196. State Rte = 16,31.

Richard Straus, Pres
R. Berry, Vice Pres Mfg
Paul Vanderwerf, Vice Pres Sales
Robert Hasper, Contr
Frank Gregory, Sec

Paper Mill Stock Preparation: Pulpers: 6.
Paper Machines. 2 moulding machines..

Water Treatment. Daily Usage, 30. M.g.p.d. Source: Well.

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Molded pulp interior protective packaging, 8 tons daily.

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443

Tel: 616-755-3761 Telex: 510-394-4300

RR C&O siding. Hwys: US Rte = 16,31,196. State Rte # 46.

H J Roehner, Res. Mgr
P T Kirk, Prod. Mgr
C.S. Russell, Mgr Srvcs
John S Moran, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
J.W Decker, Asst. Pulp Mill Supt
M.E. Gunn, Paper Mill Supt.
W.A Watermam, Asst. Paper Mill Supt.
J.R. Johnston, Spclty Paper Mgr
Carl E Kilpatrick, Tech. Dir.
W A Wrase, Chief Engr
J R Thornton, Mgr. of Maint
C.H. Baker, Qual Control Dir
D.L. Tyler, Coating Supt.
D R Burling, Fnshg/Shpng Supt.
R.W Bickowski, Steam/Power Supt.
William Holtzclaw, Pur. Agt.
D. DeGlopper, Traffic Mgr
P Schuiteman, Ind Rels Mgr
W B Ryde, Wood Procurement Mgr

Woodhandling and Preparation Roundwood Storage Capacity. 5,000 cds. Chip Storage Capacity: 120,000 tons Mobile Equipment: Hopto RR crane, Poclain crane Flume. 1 Log Handling. Drag and belt conveyors. Chip Handling Rader pneumatic system Sawdust Handling: Rader pneumatic system Chip Unloaders: Hydraulic truck dumper. Barkers, 1-30 cds/hr Manitowoc drum Hogs: 1 Montgomery Chippers 1 15 knife Carthage Norman Chip Screens 3 Link Belt Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd.

Pulp Mill Kraft Avg Daily Prod 81. Swd., 125 tons 81 Hwd., 125 tons Continuous Digesters: 1 Kamyr Chemical Recovery Plant Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system. Recovery Boilers 1 C-E, 750,000 lbs solids/day. Lime Kilns 1 Dorr Oliver Fluo-Solids, 70 tpd Gas Scrubbers. 1. Lime Mud Washers. 1 Dorr-Oliver Recausticizing System. Dorr-Oliver
Bleach Plant Sequence: C-E-H-D Towers: 4 Mixers 4 Thick Stock Pumps. 1. Chlorine Dioxide System. Solvay process.
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan Cleaners. 1 three-stage Bauer system. Washers 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8 x 8' Impco Other Eqt.. 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines. 1-100 tpd Kamyr. Cutter-Layboys: Hamblet Scales: 1

Paper Mill Stock Preparation Pulpers: 6 Vokes rotor Hydrapulper Screens. 2 Selectifiers Refiners 5 Claflin, 1 double disc. Jordans: 4 Shartle Cleaners. 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators. 14 DeZunk, 5 Foxboro. Size Cookers: 1 continuous. 3batch
Paper Machines. Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums 40 and 27 48", 55 and 69 60" dia. Hi-Velocity 2 Size Presses. 2. Calenders. 4. Reels: 2 Pope. Winders 2 two-drum.
Coaters. On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
off Machine. Air Knife. 1-105" Roll. 1-100". Capacity coated paper. 160 tons daily
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 11-100" to 112". Trimmers: 5-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system

Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.

Water Treatment. Daily Usage. 16,000. M.g.p.d. Source: Lake Primary Treatment: Eimco.

Effluent Treatment. Primary Treatment: County spray irrigation system.

Products. Machine coated book, litho, text, cover, specialty papers, 365 tons daily

NILES

French Paper Co. 100 French St. (PO Box 729) 49120

Tel: 616-683-1100

RR: Penn Central siding. Hwys US Rte # 31,12. State Rte = 60,51.

J.E. French, Pres, Treas
B.R. Bigford, Exec. Vice Pres, Sales Mgr
T.R. Friedrich, Vice Pres, Mfg
R.D. Clark, Vice Pres., Sec.
R.A. Engberg, Chief Engr
R. Etzcorn, Pur Agt.

Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker Refiners. 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers Winders: 3.
Finishing Plant. Sheeters. 3. Trimmers. 2. Other Eqt.: 2 Embossers

Steam/Power. Power Boilers Fuel: Coal. Press.: 150
Electricity Freq, phase 440v 60, 3. Installed H.P 1600 electric. 1600 water

Water Treatment. Daily Usage, 800 M.g.p.d. Source. Deep wells.

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.

Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 65 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St 49120

Tel 616-683-4100 Telex 258459

RR ConRail Hwys US Rte = 12,31 State Rte # 60 40

Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Dir Engrg
George Halliwell, Plant Engr
A.O Morningstar, Plant Contr
Earl Stevens Pur Agt
A Seaman Distrib Mgr
Ken James Ind Rels Dir
Robert Drobel, Ind Rels Mgr
Richard Ward, Traf Mgr

Paper Mill Stock Preparation Pulpers 3 Dynapulpers Screens. 1 Refiners 4 Jordans. 1. Cleaners: 5 Consistency Regulators 2
Paper Machines Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers 1-162" wide, 150" trim, 1000 fpm
Dryers Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll 1-2 roll Reels. 1 stock, 1 Pope Winders: 2

MHI-00181

No other organization in the world can supply or buy in volume as many grades and types of fiber for paper making.

Shear-Cut.
Steam/Power Power Boilers. 1 Fuel Gas/Oil Steam, lbs hr 35000 Press 100 psi Electricity Freq phase 60 3 Installed H P 3 264 Purchased 32 000 kwh/day
Water Treatment. Daily Usage. 1,000 M g p d Source Wells
Effluent Treatment. Primary Treatment Yes
Products. Pattern tissue, 33 tons daily

ONTONAGON

Hoerner Waldorf Corp. Mill Div 115 Lakeshore Rd 49953

Tel 906-884-4121
RR Milw Rd siding Hwys US Rte # 45 State Rte # 64
John E Hoeft Vice Pres Res Mgr
Peyton Grymes Gen Sales Mgr
K E Pickering, Opers Mgr
J M Nies, Enviro & Tech Control Supv
E G Barradas, Paper Mill Supt
A Szaroletta Pulp/Power Supt
R L Fitze Chief Engr
R M Reid, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity 20,000 cds Chip Storage Capacity 50 000 cds Mobile Equipment 1 Pettibone carry lift, 1 Orton rail crane Chip Handling Rader pneumatic Sawdust Handling Rader pneumatic. Barkers 1-30" Beloit mechanical Hogs 1 Jacksonville Blow Hog Chippers Beloit 114' 14-knife Rechippers 1 Murray Chip Screens 2-Tyler Avg Daily Use of Peeled Pulpwood Hwd 250 cds
Pulp Mill Semi-Chemical, NSSC Avg Daily Prod Unbl Hwd 220 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant Evaporators Zimpro wet oxidation system
Pulp Processing Hot Stock Refiners 2 American Defibrator Stock Refiners 4-36 Sprout Waldron double disc Washers 2 Swenson
Paper Mill Stock Preparation Pulpers 2 Refiners 3 Bauer 440 2 Sprout-Waldron pump-through Jordans 3 Jones Majestic Cleaners Bauer Centri cleaners Consistency Regulators DeZurik
Paper Machines P&J Fourdrinier 177" Width 162' Trim 1500 fpm
Black Clawson Fourdrinier 180' Width 168' Trim 1800 fpm
Dryers Drums 120 Calenders 2 Winders 2
Steam/Power Power Boilers 1 Fuel Coal/Oil/Gas Steam lbs hr 250 000 Press 1500 Electricity Freq phase 60 3 Installed H P 13500 Generated 240 000 kwh/day Turbogenerators 1 GE 15 000 kw
Water Treatment Daily Usage 7,500 M g p d Source Lake Superior Primary Treatment None
Effluent Treatment Primary Treatment Saveall Secondary Treatment Activated sludge
Products Corrugating medium 500 tons daily

OTSEGO

Mead Corp Paperboard Products Div P O Box 187 49078

Tel 616-692 6211 Telex 810-277 7240
RR PC siding Hwys Near US Rte # 131 Approx Mi 2 State Rte # 89
Robert A Davis Jr Mill Mgr
Donald B Moore Mgr Board Mill
R F Kutscher Mgr Srvcs
Jerry E Stoltz Tech Dir
Ray W Peters Mgr Power
Howard J Klein Mgr Supply & Distr
Ira E Johnson Jr Mgr Cnvtg Opers
Linwood H Jennings Mill Contr
Charles R Cushman Pur Agt
H H Kindig Human Rsrcs Cnslt
Ted A Olsen Mill Mktg Mgr
Paper Mill Stock Preparation Pulpers 1-3000 lb Morden Slushmaker 3 Hydrapulpers Screens 8 Refiners 2 34 Jones DD 1 Bauer double disc Jordans 4 Cleaners Black Clawson Bird filler 1 asphalt dispersion unit
Paper Machines Eight-Cylinder 140" Width 126" Trim
Dryers Drums 163 Calenders 2
Steam/Power Power Boilers 3 Fuel Coal/Gas/Oil Steam lbs hr 105 000 Press 875/300 psi Electricity Freq, phase 60,3 Installed H P 8000 Purchased 41,000 kwh/day Generated 64,000 kwh/day Turbogenerators 4000 kw Westinghouse 3000 kw Stal Laval
Water Treatment. Daily Usage. 450 M g.p.d Source 4 Wells Primary Treatment Chlorination Secondary Treatment. Iron stabilization
Effluent Treatment. Primary Treatment 2 clarifiers Secondary Treatment. 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain laminated specialties, building, automotive boards, 210 tons daily.

Menasha Corp. Paperboard Mill N Farmer St. 49078

Tel 616-692-6141
RR PC siding Hwys US Rte # 131 State Rte # 89
James Adams, Gen Mgr
John Scott, Prod Supt
Clancy Clegg, Plant Engr
Bruce Buchanan, Tech Mgr
James Sauer, Maint Supt
David Seiler Proj Engr
Ron Thaxton, Proj Engr
Robert Gulbranson, Proj Engr
G A McConney Admin Supt
Lester Phillips, Pur Agt
John Hanson Wood Dept Mgr
Woodhandling and Preparation Barkers 1. Chippers 1 10 knife, 88" Chip Screens 1 Avg Daily Use of Peeled Pulpwood Hwd, 200 cds
Pulp Mill Semi-Chemical NSSC Avg Daily Prod. Unbl Hwd 225 tons Continuous Digesters 1 vertical Asplund Defibrator
Chemical Recovery Plant Evaporators Zimpro recovery system
Pulp Processing Stock Refiners 7 Sprout Waldron 3 Bauer primary 2 S-W 3 Bauer Secondary, 2 disc presses
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Other Eqt 1 Impco disc filter
Paper Machines 1 Fourdrinier 176' Width 163" Trim 1200
1 Fourdrinier 92' Width 80' Trim 700 fpm
Dryers Drums 56
Steam/Power Power Boilers 4 Fuel Gas Steam lbs hr 270 000
Electricity Purchased 4000 kw Generated 4000 kw Turbogenerators 1-4000 kw/kva
Water Treatment. Daily Usage 2,200 M g.p d Source Wells
Effluent Treatment Primary Treatment Submerged combustion Secondary Treatment. Aeration ponds
Products NSSC corrugating medium 360 tons daily

PALMYRA

Simplex Products Group 49268

Tel 517 263 5160
RR ConRail siding Hwys US Rte # 223
Leon Maloney Mill Mgr
Paper Mill Stock Preparation Pulpers 1 10 1 12' 1-16 Hydrapulpers Refiners 2 Bauer disc Jordans 3 Other Eqt 1 1000 gpm and 1-1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six-Cylinder 80 Width 78" Trim
2 Wet Machines 60 130 trim
Steam/Power Power Boilers Fuel Gas Press 150 psi
Electricity Freq phase 60 3 Purchased 100%
Water Treatment Daily Usage 120 M g p d Source River
Effluent Treatment Primary Treatment Yes
Products. Chipboard reinforced and saturated building board waterproof paper and boxboard 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. (Affl of Philip Morris Inc) 2 Allegan St 49080

Tel 616-685 5851 Telex TWX 810-277-499
RR PC siding Hwys US Rte # 131 State Rte # 3
Richard L Detrick, Gen Mgr
Donald V Martin Mgr Mfg
Emil A Warnez Prod Mgr Pprmkg
Lou R Burd Mgr Prchsg
James C Farrand, Dir R&D
Paul L Acosta Mgr Qual Control
William W Crouch Mgr Mfg Srvcs
Morris L Scott, Supt of Traffic
Rick D Schau Mgr Acctg
Paper Mill Stock Preparation Pulpers 1-6000 l and 1-4000 lb Hydrapulper, 1-2000 lb Solvo Beaters 2 blending Refiners 3 double disc Jordans 6 Stock Mixers 2 blend chests
Paper Machines 1 Fourdrinier 112" Width 98 Trim 500 fpm
1 Fourdrinier 135" Width 118" Trim 750 fpm
1 Fourdrinier 135" Width 118" Trim 1000 fpm
Dryers Size Presses 3
Coaters, On-Machine Trailing Blade, 1-117" Cap coated paper 80 tons daily
Finishing Plant Supercalenders 2-65", 1-77" Roll Wrapping Eqt. 1 automated line Rewinders 2 Sheeters 4 Trimmers 4 Other Eqt., 1-60" dual roll embosser
Steam/Power Power Boilers. 3 Fuel Coal, Gas/Oil Steam, lbs hr 150,000 Press. 265 psi Electricity Freq, phase. 60, 3 Purchased 80,000 kwh/day Generated 40,000 kwh/day
Water Treatment. Daily Usage. 2,000 M.g.p d Source wells
Effluent Treatment. Primary Treatment 1-Clarifier Secondary Treatment 1-aeration pond.
Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated coated and uncoated web offset, coated and uncoated book, stencil backing, 180 tons daily

PORT HURON

Dunn Paper Co Sub of Dennison Mfg Co 218 Riverview St 48060

Tel 313-984-5521 Telex TWX 810-231-7053
RR GTW siding Hwys US Rte # I-94
R.E Hubbard Chmn & CEO
Nathaniel G McLean Pres
Alden R Grove Treas
Thomas E Gallagher Vice Pres Mktg
James R Schoy Tech Mgr
James R Ishmael Prod Mgr
Richard J Foster Mill Engr
Donald J Haines Asst Sec-Treas
Neil F Plouff Pur Agt
James E Ramsey Pers Dir
R.J Radtke, Contr
Paper Mill Stock Preparation Pulpers 7 Refiners 17 Jordans 3
Paper Machines Beloit-Yankee Fourdrinier 137" Width 124' Trim
Beloit-Yankee Fourdrinier 134" Width 122" Trim
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim
Dryers Yankee 3 12 one 18' dia units Size Presses 4 Calenders 4 Winders 4
Coaters On-Machine Roll 1
Finishing Plant Rewinders 2
Steam/Power Power Boilers 3 Fuel Oil/Gas Steam lbs hr 76 000 Press 600/200 Electricity Freq phase 60 3 Purchased 11,000 kwh /day
Products Lightweight coated foil mounting, twisting one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only 105 tons daily

Port Huron Paper Co 1660 Thomas St 48060

Tel 313-982 0191
RR GTW siding Hwys Near US Rte # I-94 Approx Mi 1 State Rte # 21 25
Gordon Morseth Pres & CEO
E G Donovan Vice Pres Mktg
R W Durand Vice Pres Mfg
L M Sturdevant Vice Pres
R S Smeltzer Vice Pres Fin
R Andrews Sec
T R Kroll Prod Mgr

MHI-00182

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PHONE: 312/664-5700 **HOWARD ZUKER ASSOCIATES**

S.S. Luczycki, Paper Mill Supt
E Rymers, Tech. Dir
Thomas C Noetzel, Mgr, Maint & Engrg
G.L. Genaw, Pdct Mgr, Prtg Pprs
J Munro, Contr.
F.W Phare, Pers. Dir

Paper Mill Stock Preparation. Pulpers: 6. Screens: 7. Refiners: 42. Jordans: 8. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 8 stacks. Winders: 6..
Finishing Plant. Rewinders: 2.
Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 10,000. M.g.p.d. Source River.
Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, 200 tons daily

ROCHESTER

★**Rochester Paper** Div. of King-Seeley Thermos Co. 340 Mill St. (PO Box 185) 48063

Tel: 313-651-8121
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding Hwys: US Rte # 10. State Rte # 150
William M Kirkland, Plant Mgr
James M Phillips, Plant Supt
Dewey E Coffelt, Tech Dir
Anthony Plachta, Plant Engr
Burton P Bailey, Mktg Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb Screens 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses. 1. Calenders. 1 stack.
Coaters. On-Machine. 1-62" Roll. 20 tons daily cap off Machine. 1-36" Roll. 12 tons daily cap
Finishing Plant Rewinders. 2 Sheeters: 2. Trimmers: 2.
Steam/Power. Power Boilers Fuel: Oil. Press.. 100 psi
Electricity Freq. phase: 60. 3. Purchased: 100%
Water Treatment. Daily Usage. 250 M g.p.d Source Wells
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant
Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, industrial coffee and vacuum filter, graph, grinding wheel, impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 20 tons daily

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49091

Tel. 616-866-1523
RR PC siding Hwys: US Rte = 131
Marc Milgram, Mill Mgr
Ronald Van Dyke, Chief Engr

Paper Mill Stock Preparation Pulpers. 4 Hydrapulper Screens 8. Refiners. 3, 3 Escher Wyss deflakers Refiners. 3 S-W Jordans: 1 Cleaners: Escher-Wyss Consistency Regulators: Escher Wyss. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers. Drums: 115-42" dia. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1 Waldron Microjet with 1 Metering Bar precoater
Finishing Plant. Sheeters: 1-67". Trimmers: 2.
Steam/Power. Power Boilers. 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq, phase: 60. 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva.
Water Treatment. Daily Usage, 325. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.** 707 S. Evans St. (PO Box 427) 49286

Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi Corp.** Building Products Div. 3250 W Big Beaver Rd 48084

Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Lee Paper Co. Washington St. 49097

Tel: 616-649-0510 Telex: 810-277-1710
RR: PC siding Hwys: Near US Rte # 131, I-194 Approx Mi 6
Kenneth A Perkins, Vice Pres, Gen Mgr, Estrn Opers
Guy LaLouche, Opers Mgr
Charles Gardner, Mfg. Supt.
Raymond Wagner, Tech. Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct.
Vinnie Rawlinson, Pur Mgr
Ronald G Markan, Pers. Dir

Pulp Mill Rags Batch Digesters. 4 10,000 lb Rotary Pulp Processing: Washers. 8-1000 lb rag.
Paper Mill Stock Preparation. Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb. 3-1000 lb Bertrams. Screens: 6. Refiners. 6 Morden Jordans: 4 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers Drums. 122. Size Presses: 4. Calenders. 3 stacks. Winders. 3
Coaters, off Machine Air Knife. 1 52". 20 tpd
Finishing Plant Supercalenders 2-56" 48" Rewinders 2 Sheeters 3-57". 61". 61" Trimmers 3-66" 75". 110"
Steam/Power. Power Boilers 2 Fuel Gas/Oil Steam, lbs hr 80,000
Electricity Purchased 100%
Water Treatment. Daily Usage. 3,000 M.g.p.d Source River Wells
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration basin
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell EF MF, SC, coated, offset), collotype, cover chart diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av 49098

Tel: 616-463-3141
RR: C & O siding Hwys: US Rte # I-94. State Rte # 140
Richard G Osborne, Pres
Milton F Stibal, Vice Pres Opers
R. Charles Van Horn, Treas. Contr
Dean D McKinney, Sec
George J Renner, Mgr. Paper Making
Lemoin M Shadduck, Mgr Engrg & Maint
Niels K Jensen, Supt. Coating Mill
John E Klann, Fnshg Supt
John H Matthews, Dir Prchsg
Robert H Strasburg, Dir Mktg

Paper Mill Stock Preparation: Pulpers: 3. Refiners: 4 Hydradisc. Jordans. 3 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses. 2. Calenders: 2. Winders. 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66".
Finishing Plant. Supercalenders: 4-66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 2 Embossers, 62" and 53".
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.. 90,000 Press.. 235.
Electricity. Installed H.P. 450 water Purchased: 100%.
Water Treatment. Daily Usage. 1,200. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. Div of Artistic Carton Co. PO Box 277 49099

Tel 616-483-7601
RR: PC siding. Hwys. US Rte # 12
John A Oakes, Pres
W.J Redmond, Supt.
D.E. Redmond, Plant Engr
Kenneth A Shane, Plant Contr.
K.B. Martens, Prchsg Mgr
J.E. Drew, Sales Srvc Mgr

Paper Mill Stock Preparation Pulpers 6 Hydrapulper Screens. 8 Refiners. 2 Bauer, 1 S-W. Jordans 6 Shartle
Paper Machines Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer, 112" trim..
Dryers. Drums: 156 Calenders: 6..
Coaters. On-Machine Air Knife, 1-92", 1-110" off Machine 1-78"
Finishing Plant. Supercalenders. 1-78" Rewinders. 1 Sheeters 1-112" on-machine Jagenberg, 2-72" Trimmers 1-85"
Steam/Power. Power Boilers 2. Fuel: Oil Steam, lbs hr 180,000 Press.. 500
Electricity Freq. phase 60, 3 Generated. 5000 kw Turbogenerators 2
Water Treatment. Daily Usage. 250 M.g.p.d Source River
Effluent Treatment. Primary Treatment 2 Clarifiers Secondary Treatment 6 Settling Basins
Products. Clay-coated bending chipboard. 200 tons daily

YPSILANTI

Peninsular Paper Co (Sub of James River Corp. of VA) 1000 N Huron St 48197

Tel 313-482-2600 Telex. 810-223-7004
RR PC siding Hwys US Rte # I-94
Daniel G Quirk, Pres
Frank L Wright, Vice Pres., Sales
Norman B Davey Contr
Edward G Gremban, Mgr Mfg
Karroll Aungst, Paper Mill Supt
Glenn F Touse, Chief Chemist
David Seidler, Chief Engr
Robert C Huston Fnshg & Shppg Supt.
James R. Elliott, Traffic Mgr

Paper Mill Stock Preparation Pulpers: 2-2000 lb Hy-

MHI-00183

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PAPERSTOCK
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Substitutes

drapulper Refiners 1 Morden Jordans 2 Jones standard 1 Jones Imperial Cleaners Bauer Centri cleaners Consistency Regulators Fischer Porter Stock Mixers Lightin agitators
Paper Machines Manchester Fourdrinier 90' Width 80 Trim 500 fpm
Black Clawson Fourdrinier 66 Width 57' Trim 265 fpm
Rotoformers 1 66 Width
Dryers Drums 52 36 dia Size Presses 2 Calenders 2 stacks Winders 2
Finishing Plant. Roll Wrapping Eqt. 1 line Rewinders 1-78' Langston Sheeters 2-85' 65" Hamblet Trimmers 1-110 Lawson 1-85" Seybold Ream Wrapping & Cartoning Hayssen banding unit
Steam/Power Power Boilers Fuel Gas/Oil Steam lbs hr 40 000 Press 130
Electricity Freq phase 60 3 Installed H P 1200 Purchased 25000 kwh/day
Water Treatment. Daily Usage 500 M g.p d Source Wells River Primary Treatment: yes
Effluent Treatment. Primary Treatment: City sewer system
Products. Colored cover and text colored envelope colored and sulphite and bleached kraft specialties 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp Nu Ply Div Midway Dr (PO Box 518) 56601
Tel 218 751 5140 1 2
RR NP siding Hwys US Rte # 2 71 371
Robert W Riley Vice Pres Gen Mgr
Richard C Brown Plant Supt
Donovan Gould Master Mech
Myron Haiby Sales Traffic Mgr
Woodhandling and Preparation Barkers 1 21 Manitowoc Chippers 1 12 Hansel Avg Daily Use of Peeled Pulpwood Hwd 90 cds aspen
Pulp Mill Defibrated Wood Pulp Avg Daily Prod Unbl Hwd 90 tons Continuous Digesters 2 30 Grenco
Pulp Processing Stock Refiners 1 #185 and 3 #445 Bauer
Paper Mill Paper Machines Special machinery including 49 X 97½ dry forming and pressing equipment and 2 drying systems
Steam/Power Power Boilers 1 Fuel Gas (oil standby) Steam lbs hr 14 000 Press 200
Electricity Freq phase 440v 60 3 Installed H P 2350 electric Purchased 30 000 kwh/day
Water Treatment Source City
Products. Standard panel and tempered hardboard (⅛ to ⅜ thickness) and special types 90 tons daily

BRAINERD

Potlatch Corp Northwest Paper Div 56401
Tel 218 829 4741 Telex 910 561 3508
RR NP siding Hwys US Rte = 210
Spencer H Cone Mill Mgr
Robert V Hershey Asst Mill Mgr & Mgr Paper Mfg & Coating
Burdell L Lower Mgr Tech Srvc
Gerald D Cran Mgr Mech Srvc
Harold N Pitt Mgr Ind Srvc
Robert R Watkins Mgr Fnshg/Shppg
David W Dinham Pur Agt
Paper Mill Stock Preparation Pulpers 1 Morden 3 Hydrapulpers Jordans 3 Emerson 4 Black Clawson
Paper Machines 1 Fourdrinier 128 Width 112 Trim 1250 fpm
1 Fourdrinier 200 Width 180 Trim 2000 fpm
Dryers Drums 101 Size Presses 2 Calenders 3
Coaters off Machine 1 112 two-station blade
Finishing Plant Supercalenders 2 121 1 80
Rewinders 5 Sheeters 7 Trimmers 4
Steam/Power Power Boilers 3 Fuel Gas/Coal Steam lbs hr 132 000
Electricity Purchased 126 000 kwh/day Generated 54 000 kwh/day
Water Treatment. Daily Usage 2 300 M g p d Source River Primary Treatment Infilco accelerator
Effluent Treatment. Primary Treatment 1-90 Beloit Passavant clarifier Secondary Treatment 9 12 x26 Bio-Surf units 1 85 Eimco clarifier
Products. Bond duplicator ledger MICR Xerographic map book (coated and uncoated) offset, coated offset text and cover (gloss matte, dull, velvet), 275 tons daily

CLOQUET

Conwed Corp Arch and C Sts 55720
Tel 218-879 6771 Telex 910 561 2110
RR Duluth & Nrthwstrn BN Milw siding Hwys Near US Rte # 61 IS-35 Approx Mi 3 State Rte # 33 45
J W King Vice Pres Plant Mgr
E.C Erickson Mgr Engrg Srvcs
L.E Carlson Prod Mgr Bd Mill
S A Holloway Prod Mgr Bd Fnshg & Whsng
R W Bohren Supt Tufflex Mill B
R G Eklund Supt Fabric Mill
R R Olson Prod Mgr Blanket Pdcts
W E Walsh Mgr Pur
O Barnes Asst Contr
R.J Ludwig Mgr Ind Rels & Distrib
J.A Manisto Mgr Qual Control
Pulp Mill Ground Wood Refiner Refiners 5 Defibrator 4-#410 and 1 #442 Bauer disc 3-36 and 1-#36-1CP Sprout Waldron
Pulp Processing Stock Refiners 2 26 and 1-34" Sprout-Waldron pump through
Pulp Mill is idle
Paper Mill Paper Machines 1 Board Fourdrinier 113 Width 107 Trim
1 Board Fourdrinier 104 Width 101' Trim
1 Board Fourdrinier 169 Width 159 Trim
Tufflex Mill B 1 Former and dryer 114 width, 110 trim
Tufflex Mill C 1 Former and dryer 114' width 100 trim
Fabrics Mill 1 Curtator Rando feeder and webber impregnator and dryer 80 trim
Coaters On-Machine Roll 3 in board mill
off Machine 9 Spray and 3 curtain in board mill
Steam/Power Power Boilers Fuel Coal/Gas/Oil Press 275
Electricity Freq phase 13 800v 60 3 Installed H P 34 000 Purchased 100%
Water Treatment. Daily Usage 800 M g p d Source River
Effluent Treatment. Primary Treatment Yes
Products Board mill mineral ceiling panels and decorative tile Tufflex Mill Homogenous wood fiber cushioning and protective padding Fabrics Mill Non-woven fabrics

★**Potlatch Corp** Northwest Paper Div 55720
Tel 218 879 6784 Telex 910 561 2111
Headquarters Location See Executive Offices section for more details
RR Burl Nthrn Duluth & Nrthestrn RR Hwys State Rte # 33 45
Edwin F Erickson Mill Mgr
William H Erickson Mgr Pulp Mfg
James W Kovala Mgr Paper Mfg & Coating
Paul O Clark Mgr Info Sys
Earl J DeRocher Mgr Tech Srvc
D A Olsen Mgr Mech Srvc
Dwight M Brower Mgr Ind Srvc
Charles R Williams Mgr Fnshg/Shppg
Woodhandling and Preparation Roundwood Storage Capacity 120 000 cds Barkers 2 drum Chippers 1 64 10 knife 1 84 12 knife 1 96 15 knife
Chip Screens 3 Avg Daily Use of Peeled Pulpwood 300 cds swd 500 cds hwd
Pulp Mill Kraft Avg Daily Prod Bl Swd 220 tons Bl Hwd 180 tons Batch Digesters 9
Sulphite Calcium Base Avg Daily Prod Bl Hwd 120 tons Batch Digesters 3
Chemical Recovery Plant Evaporators 1 six-effect Unitech with concentrators 1 Six-effect Swenson
Recovery Boilers 1 B&W Recausticizing System
Acid System (Sulphite) Sulphur Burners 1 Absorption Towers 4 Accumulators 3
Bleach Plant Sequence Pine Kraft C E H E
Sulphite and Hwd Kraft C E/H D
Pulp Drying Wet Machines 4 felted 1 Impco e less
Paper Mill Stock Preparation Pulpers 4 Hydrapulpers Refiners 8 Jordans 6
Paper Machines 1 Fourdrinier 101 Width 86 Trim 860 fpm
1 Fourdrinier 123' Width 107 Trim 950 fpm
1 Fourdrinier 124 Width 107 Trim 950 fpm
1 Fourdrinier 216 Width 192 Trim 1300 fpm
Dryers Size Presses 4
Coaters off Machine Trailing Blade 1 130
Finishing Plant Supercalenders 2 90 130 Rewinders 3 Sheeters 8 Trimmers 11
Steam/Power Power Boilers 7 Fuel Coal/Gas/Oil Steam lbs hr 350 000
Electricity Purchased 190 000 kwh/day Generated 285 000 kwh/day
Water Treatment. Daily Usage 17 000 M g p d Source River Lake Superior
Effluent Treatment. Primary Treatment Yes
Products. Bond duplicator ledger mimeograph coated and uncoated book writing cover text opaque coating base MICR tripurpose embossed cover text coated and uncoated offset litho coated and uncoated web xerographic papers 330 tons

DULUTH

★**Superwood Corp** 14th Av W and Waterfront St 55802
Tel 218 727-6891
Headquarters Location See Executive Offices section for more details
RR NP siding Hwys US Rte # 2 53 61
D Swanum Prod Mgr
Yarley Johansen Steam Engr
Bruce Ellefson Traffic Mgr
Woodhandling and Preparation Chippers 1 10 knife Chip Screens 2 Avg Daily Use of Peeled Pulpwood 325 cds
Pulp Mill Defibrated Wood Pulp Avg Daily Prod 350 tons Continuous Digesters 1 Asplund Defibrator and 3 42 1CP Sprout Waldron refiners
Pulp Processing Stock Refiners 4 36-2 Sprout Waldron
Paper Mill Paper Machines 5 hardboard machines with 2-4 x8 1 5 x9 1-4 x16 and 1 5 x16 presses
Steam/Power Power Boilers 5 Fuel Gas/Oil Steam lbs hr 80 000 Press 200
Electricity Freq phase 60 3 Installed H P 6200 Purchased 100%
Water Treatment Daily Usage 900 M g p d Primary Treatment Chlorination Source Lake
Effluent Treatment Primary Treatment Effluent to joint industrial/municipal plant
Products Standard treated and tempered hard board 350 tons daily

GRAND RAPIDS

Blandin Paper Co 115 SW First St 55744
Tel 218 326 8531 Telex 910 561 2550
RR Burl Nrthrn siding Hwys US Rte # 2 169 State Rte # 38
Myles W Reif Pres
G W Goelz Vice Pres Engrg & Sec
T S McKeon Vice Pres Sales (New York)
Harold F Zigmund Vice Pres Mfg
James R Oppenheimer Vice Pres
James C Harris Vice Pres
H E Johnson Vice Pres Fin
A E Radecki Contr
Donald K Kaslow Treas Asst Sec
D Matteson Chief Acct
Alex F O Hare Gen Sls Mgr (NY)
Charles J Powers Reg Sls Mgr (Chicago)
Peter V Harris Prod Mgr
Clarence R Blaine Gen Supt Main Mill
Rex Snow Pulp Mill Supt
C A Richardson Tech Dir R&D
C Michael Lindquist Asst Tech Dir R&D
R Shuey Paper Mchns Supt Main Mill
R Baker Supt No 5 Paper Line
J D Ward Asst Supt No 5 Paper Line
W J Rew Supt Ctg & SC Main Mill
J Miller Wdrm & Yard Crew Frmn

MHT-0019

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Tel 413-736-4554
RR. ConRail siding. Hwys: US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4
Charles S Sweitzer, Pres, Res Mgr
F.B. Comery, Vice Pres, Sales
J A Cancelliere, Vice Pres, Coating Div
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J. Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers: 1. Screens: 2. Refiners: 1. Jordans: 1.
Paper Machines. 1 Fourdrinier 72" Width 60" Trim Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator.
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt.: 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Water Treatment. Daily Usage, 400. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily.

Southworth Co. Front St 01089
Tel: 413-732-5141 Telex: 955-484
RR. ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres, Treas
Kent Tarrant, Vice Pres, Sec
E Randall Baker, Supt
Elio Viecelli, Asst Supt
Paper Mill Stock Preparation: Pulpers: 2. Beaters: 1-1200 lb, 4-850 lb. Refiners: 1 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers Size Presses: tub.
Finishing Plant. Supercalenders: 1. Sheeters: 3. Trimmers: 4
Steam/Power. Power Boilers: 2. Fuel: Oil.
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Rag content bond, ledger, linen, typewriter, onionskin, manuscript cover, writing, watermarked deluxe bond, 15 tons daily.

Strathmore Paper Co. Front St
RR: B&M Hwys: US Rte # 20
Paper Mill Stock Preparation Beaters: 4.
Paper Machines. 1 Cylinder: 52" Trim
1 Cylinder: 89" Trim
Products. Fine and technical specialty papers, 20 tons daily
Paper Mill Is Idle.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR. B&M Hwys US Rte # 20
Donald W Bush, Supt. No 2 Mill
Bernard J Czanowski, Supt, No. 1 Mill
Henry Dominguez, Chem
Alfred Letourneau, Maint Engr
Paper Mill Paper Machines. Equipment listed under Westfield MA mill.
Products. Mill No 1 writing, text, cover, papeterie papers Mill No 2 Rag specialty, reproduction and bond papers

MICHIGAN

ADRIAN

★Simplex Products Group
Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi Corp. Building Products Div. 416 Ford Ave. 49707
Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.
P.K. De Bruhl, Plant Mgr
R.R. Stepanski, Mgr Mfg
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
O.B. Eustis, Control Mgr
A.R. Schultz, Power Plant Supt
T.J. Kelly, Pers. Mgr.
R.C. Keith, Opers Anlyst
W.C. Lake, Pur Agt
J.C. Lamy, Woods Mgr.
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 400 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones. Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Fourdrinier 160" Width 156" Trim
1 Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.. 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers. 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River. Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons.
Products. S1S and S2S hardboard, 410 MMsf annually (400 tons daily)

Fletcher Paper Co. 318 W Fletcher St. 49707
Tel: 517-354-2131
RR: D&M siding. Hwys. US Rte = 23. State Rte # 32.
Allan M Fletcher, Pres, Treas
John T Fletcher, Vice Pres
R. Werner, Sec., Pur Agt.
Charles S White, Gen Mgr
A.J. Steber, Gen Supt
David Dreisbach, Prod Mgr
T Prieur, Paper Mill Supt.
E.J. Grys, Tech Dir
R.J. Bowes, Chief Engr
Clifford Crevier, Fnshg Supt
John Stretchko, Traffic Mgr
H.S. Granstrom, Sales Mgr
Paper Mill Stock Preparation Pulpers: 3 Hydrapulpers. Screens 2 Selectifier Refiners: 5 Jones DD. Jordans. 3 Jones.
Paper Machines 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums 62 Size Presses 2. Calenders 2 stacks. Winders. 2
Coaters. off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant Sheeters 1-72", 1-100". Trimmers: 3-65", 72", 85"
Steam/Power. Power Boilers: 1 Fuel Gas/Oil Steam. lbs hr 60,000 Press 450 psi.
Electricity: Freq. phase 60, 3 Generated 72,000 kwh/day
Water Treatment. Daily Usage, 700 M.g.p.d Source Thunder Bay River Primary Treatment Yes
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment City syst
Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 65 tons daily

BATTLE CREEK

St. Regis Paper Co. Folding Carton Div, Battle Creek Pprbd Mills 79 E Fountain St 49016
Tel: 616-963-5511
RR. ConRail, GTW siding. Hwys US Rte # I-94, I-69 State Rte # 66,37,89
Robert A Armstrong, Res Mgr
Terry A Tiffany, Mfg Supt, Fountain Mill
Leonard A Carlson, Mfg Supt, Angell Mill
Jon Hamelink, Supt, Fountain Mill
Thomas W Smith, Supt, Angell Mill
Clyde G Eckhart, Tech Dir
Louis J Philipps, Plant Engr
Harold E Criswell, Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
A.W. Miller Jr, Bxbd Sales Mgr
Paper Mill Stock Preparation: Pulpers: 3-4000 lb. and 3-3000 lb Morden Slushmaker 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb. Beaters: 1-2000 lb broke. Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer. Jordans: 15.
Paper Machines. Beloit Eight-Cylinder 130" Trim 1000 fpm
Stevens Formers: 1 seven unit, 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 283-60". Calenders: 7 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared..
Coaters, On-Machine. Air Knife, 1-130", 1-98", 1-122". On-Machine. Trailing Blade, 1-130", 1-98", 1-122" On-Machine.Rod: 2-130"
Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.: 240,000
Electricity: Purchased: 2,500 kwh/day. Generated: 7,500 kwh/day. Turbogenerators: 2-8500 kw/kva
Water Treatment. Daily Usage, 5,000. M.g.p.d Source: River.
Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant
Products. White clay coated, white lined news, solid kraft, kraft lined chip, plain and bending chip, bleached manila lined, manila lined, vat lined boxboards, 480 tons daily.

CHEBOYGAN

Procter & Gamble Paper Products Co. S Main St. 49721
Tel: 616-627-5664
RR. D&M siding Hwys: US Rte # 27
H.A. Bullard, Plant Mgr
Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue

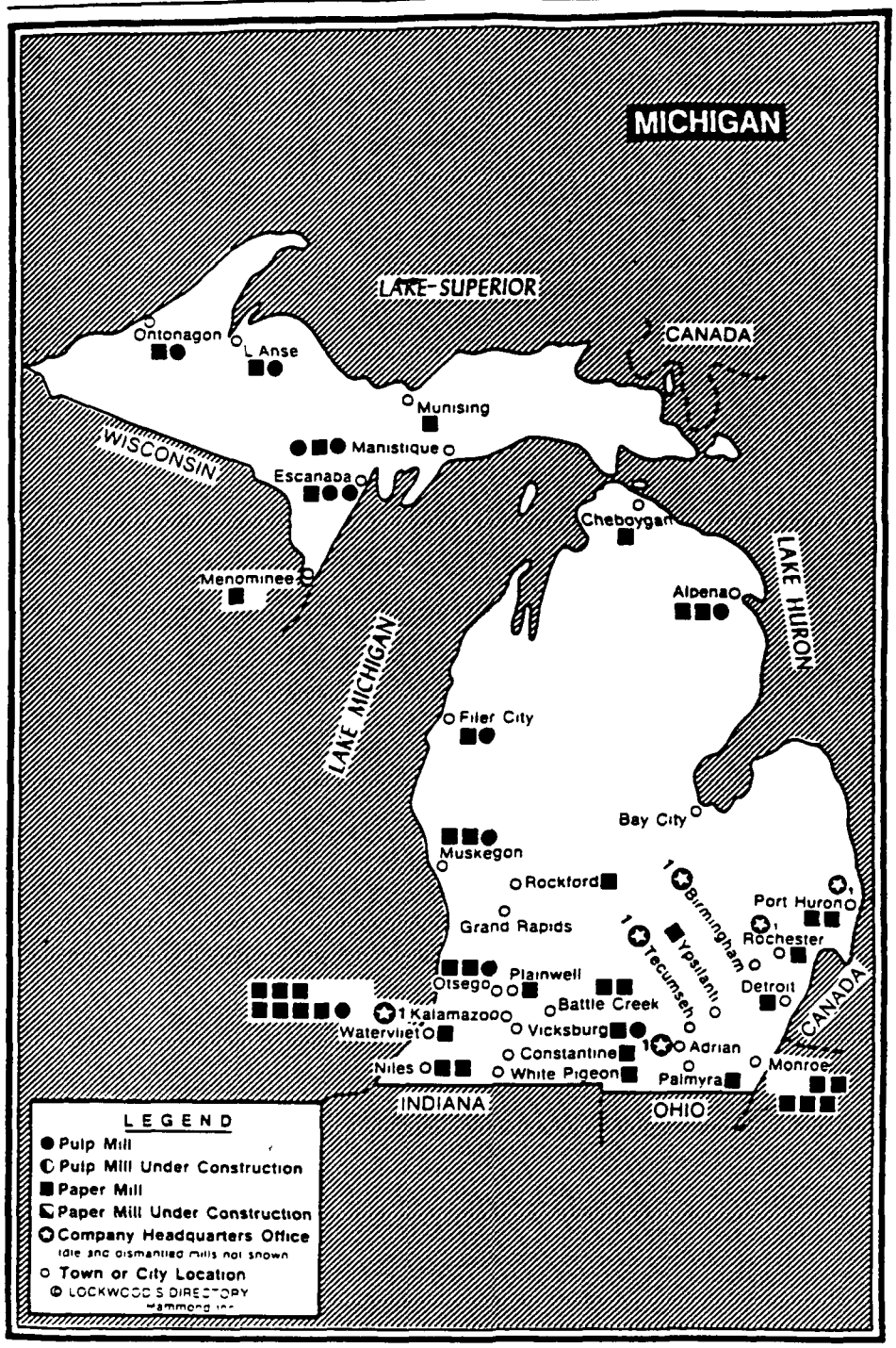
CONSTANTINE

Simplex Products Group Centreville Rd 49042
Tel: 616-435-2425 Telex. 510-398-5730
RR: ConRail siding. Hwys US Rte # 131
Desmond A Holt, Plant Mgr
Dick Runyan, Prod Mgr
William Maxam, Plant Engr
Paper Mill Stock Preparation: Pulpers: 2. Screens: 2. Refiners. 2 Jordans 2 Other Eqt 1 disc filter
Paper Machines Seven-Cylinder 112" Width 98" Trim
Steam/Power. Power Boilers. Fuel. Gas/Oil. Press.. 150
Electricity Freq. phase 440 v. 60, 3 Purchased: 100%
Water Treatment. Daily Usage, 200 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment None. Effluent to municipal plant
Products. Chipboard, 65 tons daily

DETROIT

Scott Paper Co. Packaged Products Div 9125 W Jefferson Ave 48209
Tel: 313-842-0042
RR: ConRail siding, Rouge Yard. Hwys: US Rte # I-75.
Richard N Furer Gen Mgr
Fred Christiansen, Paper Mill Supt

MHI-00185



James W Woodson Tecn Dir
Donald Grace Plant Engr
Linda DiNardo Chief Consumer Rec
R P McConkie Fnsng Supt
Charles G Allen Safety & Srvcs Mgr
Robert Kendau Acctg Mgr
Harold B Randolph Pur Agt
John R Hulbert Plant Traffic Mgr
William H Cope Pers Mgr
Lloyd H Jewell Sales Mgr Warren Grades

Paper Mill Stock Preparation Pulpers 3 Liebeck 1 Pulpmaster 1 Dualator 2 Slushmaker 2 Jones 1 Hymac Refiners 5 double disc 1 Morden Jordans 5

Paper Machines 2 Yankee MG Fourdrinier 132" Width 124" Trim
1 Yankee Fourdrinier 136 Width 124 Trim
1 Yankee Fourdrinier 142" Width 120 Trim
Dryers Yankee 4

Finishing Plant Other Eqt Toilet tissue and napkin converting machinery

Steam/Power. Power Boilers 3 Fuel Gas/Oil Electricity Generated 100%

Water Treatment. Daily Usage, (n a) M g p d Primary Treatment Yes

Effluent Treatment. Primary Treatment City System

Products. Toilet, napkin, wiper waxing toweling MG, carbonizing, twisting, bleached and colored tissue papers, 190 tons daily Packaged products roll toilet tissue, napkins, wipes

ESCANABA

Escanaba Paper Co. (Sub of Mead Corp Publishing Paper Div) 49829

Tel: 906-786-1660
RR. C&NW, Soo Line sidings Hwys US Rte # 2 41 State Rte # 35
S.S. Benedict, Pres, Gen Mgr
James M Owens, Vice Pres Mfg
Gerald R Gould, Vice Pres, Admin
Dudley Grantham, Kraft Mill Mgr
O.C. Christiansen, Tech Dir
D.A. Russell, Mgr, Pprmkg & Ctg
G Eastin, Qual Mgr
H.D Hamilton, Mgr, Plant Engrg
J.L. Parr, Enviro Control Tech Dir
J.F. Schneider, Sales Srvc Mgr
J.C. Huskey, Contr
W Dixon, Indstry Mgr
T.J. Gregoire, Dir Ind Rels
R Tompkins, Pub Rels Mgr
Lynn S Sandberg, Gen Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks. Chip Handling. Rader pneumatic system. Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 150-300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft each. Ground Wood, Refiner. Avg. Daily Prod., Bl. Hwd., 150 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-18 disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O. Recausticizing System: Dorr-Oliver
Bleach Plant. Sequence. Gwd: 1 stage. Kraft: C-E-D-E-D Chlorine Dioxide System: Hooker SVP system.
Pulp Processing: Knotters Gwd. 2 A-C vibrating Kraft: SW Hooper centrifugal. Drainers: Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners. Gwd: 2-26" S-W Twin-Flo. Rejects Refiners: Gwd: 1 Bauer. Screens: Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft: Bird Centrisorters. Cleaners: Gwd: 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd. 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach Washers: Gwd 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers. 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners: 7 Claflins, 6 S-W disc, 3 Deflakers (broke). Jordans: 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers. Size Presses 2. Calenders. 2 stacks. Reels 2 Re-reelers
Coaters, off Machine Trailing Blade. 2-286", 2-172" double blade for C2S. off Machine. Cap. Coated Paper, 500 tons
Finishing Plant. Supercalenders. 2-278", 9-roll Appleton Roll Wrapping Eqt.. Lamb-Grays Harbor automatic Rewinders 3-2 drum 156" Cameron, 2-MIR - 278" Cameron Sheeters 3 - Hamblet Trimmers 4 Seybold

Steam/Power. Power Boilers 3 Fuel Oil/Gas/Bark Steam, lbs hr 1,000,000 Press. 400/1500 Electricity Freq, phase 60, 3 Installed H.P 75,000 Generated 50 000 kwh/day Hydroelectric. 2,000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage, 28,000 M.g.p.d Source Lake Michigan Primary Treatment. Sand filters

Effluent Treatment. Primary Treatment Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier

Products. Coated book and publication papers, 600 tons daily

FILER CITY

Packaging Corp. of America 49634

MHI-00186

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • BLEACHED KRAFT PULP
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Tel: 616-723-9951
RR: C&O siding. Hwys: US Rte # 31.
J.L. Ham, Vice Pres. & Mgr.
L.L. Huffman, Prod Mgr
C.F. Mills, Tech Dir
D.J. Elliott, Engrg Mgr
T.A. Kirsch, Office Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers: 1 12'x80' FMP. Chippers: 1 112", 12-knife. Chip Screens: 2 HiCap.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: 600 tons Continuous Digesters: 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect. Recovery Boilers: 1 B&W.
Pulp Processing: Stock Refiners: 3 American Defibrator. Screens: 2. Washers: 4 Vacuum, 5 screw press.

Paper Mill Stock Preparation: Pulpers: 3. Screens: 3. Refiners: 5 Jones disc, 4 Sutherland. Jordans: 7 Miami.
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1000 fpm
1 Fourdrinier 172" Width 157" Trim 1000 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums: 148-60" dia..

Steam/Power. Power Boilers: 4. Fuel: Oil/Gas. Steam, lbs hr.: 600,000. Press.: 610.
Electricity: Purchased: 25,000 kwh/day. Generated: 475,000 kwh/day. Turbogenerators: 3-21,-875 kva total

Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: River, Lake.

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.

Products. Corrugating medium, 625 tons daily.

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. (Sub. of SCM Corp.) 2030 Portage St 49001

Tel: 616-345-7131
Headquarters Location. See Executive Offices section for more details.
RR: ConRail sidings Hwys: US Rte # IS 94, 131. State Rte # 43,96.
E.J. Gilman, Vice Pres, Mfg
F.W. Harrison, Vice Pres, R&D
J.D. Nisbet, Vice Pres, Sales
A.E. Vickery, Engrg Mgr
D.A. Falvey, Asst Engrg Mgr
D.C. Kirk Jr, Tech Dir
W.J. Haselow, Dir Qual Control
H.D. Peeters, Dir Prod Sched
U.G. Stoeffler, Mgr Proc Devl
G.F. Mahoney, Natl Sales Mgr
J.L. Curtis, Sales Mgr, Kalamazoo
B.L. Rasmusson, Dir Prchsg
J.R. Bowen, Traf Dir

Steam/Power. Power Boilers: Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf, box cover, carbonizing, cover, direct process, drawing, duplicator, envelope, foil mounting, gift wrapping, greeting card, gumming, label, ledger, map, mimeo, offset, opaque, papetene, place mat, post card, poster, register, sensitizing, tablet, text, vellum, xerographic, antitarnish, bank note, blotting, litho, chart, music, pattern, watermark, 450 tons daily Coated electrostatic base, master and specialites, 75 tons daily Coated two sides matte finish book, 100 tons daily

Allied Paper Inc. Bryant Mill 49003

Kenneth Sweet, Gen Supt

Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine C2S Fountain Blade, 126" trim. C2S Reverse Roll, 74" trim. Air Knife, 72" trim.
Finishing Plant. Supercalenders: . Rewinders: . Sheeters: . Trimmers: . Other Eqt.. automatic counters.

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, Gen Supt.

Paper Mill Paper Machines. 1 Fourdrinier 126" Width 108" Trim
1 Fourdrinier 133" Width 112" Trim

Brown Co. Specialty Papers Div. 243 E. Paterson St. 49007

Tel: 616-383-5000
RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94. State Rte # 43.
Frank A Somers, Vice Pres, Div Gen Mgr
Andrew T Muha, Vice Pres, Opers
Carl R Cooper, Vice Pres, Plnng & Devl
William Fredericks, Mgr, Fiber & Ppr Mfg & Matl Hndlg
Ron Fleckenstein, Mgr, Cnvtg Mfg & Ind Engrg
Harry Pratley, Mgr, Qual Control
D Feldmann, Mgr, Engrg, Maint & Util
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
K Alnck, Supt, Matl Hndlg & Shppg
K. Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Burnell Long, Ind Rels Mgr
Keith N Bartlam, Mgr, Sls & Mktg, Ind & Cnvtg Pprs
Stephen Parker, Mgr, Sls & Mktg, Fine Ppr
Thomas A Roy, Mgr, Sls & Mktg, Flex Pkg
Louis J McGuire, Mgr, Sls & Mktg, Inst Pdcts
R Gerry Wright, Mgr, Sls & Mktg, Consmr Pdcts
Louis Cortugene, Mgr, New Pdct Devl
Robert Russell, Mgr, Adm & Plnng

Paper Mill Stock Preparation. Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.. Secondary Fiber Mill, 150 tons daily capacity
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers. Calenders. 10 stacks. Size Presses. 4..
Coaters, off Machine. Air Knife. 1 Blade: 2. Solvent: 1.
Finishing Plant. Supercalenders. 2 Rewinders. 7 Sheeters: 2 Trimmers. 3 Other Eqt. 5 parchmentizing machines, 80" and 100" trim

Steam/Power. Power Boilers 3. Fuel Gas/Oil Steam, lbs hr. 400,000

Water Treatment. Daily Usage. 7,000. M.g.p.d Source: River, well

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers Mill No 1. 120 tons daily Mill No 2 280 Tons daily

Brown Co. Recycled Paperboard Div 243 E Paterson St. 49007

Tel: 616-383-5000
RR: ConRail, CK & S siding Hwys. US Rte # 12, 13, I-94 State Rte # 43
Norman K Ryan, Vice Pres Mfg
John Stevens, Vice Pres, Sls & Mktg
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
John Harrison, Supt, Plt 7
Gene Ackermann, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers. 1 Morden Slushmaker. Beaters: 1 continuous broke Refiners: 8 Hydrafiners, 2 Morden stockmakers. Screens: 21. Jordans. 10
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife. 2.
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant. Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.

Steam/Power. Power Boilers 4 Fuel: Gas/Oil. Steam, lbs hr.. 300,000

Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: Deep well.

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (PO Box 2738) 49003

Tel: 616-382-2890 Telex: 810-277-2618
RR: ConRail, GTW, siding. Hwys: US Rte # I-94.
William R Walsh, Res Mgr
Jerry Robinson, Prod Mgr
Del Van Bruggen, Paper Mchne Supt
Earl Vining, Paper Mchne Supt
David DeKam, Tech Dir
Fred J Shelton, Chief Engr
Mike Knaff, Power Supt
George Grenon, Fnshg Supt
Ronald Bush, Plant Contr
John P Gideon, Pur Agt
James H Cox, Traffic Mgr
David Boning, Pers Mgr

Pulp Mill Deinked Pulp: Avg. Daily Prod.. 200 tons Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd
Bleach Plant. Sequence. 1 Hypochlorite/Hydrosulphite stage. Towers. 1 downflow.

Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb. Jordans: 5.
Paper Machines. 1 Fourdrinier 142" Width 130" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 156" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Supercalenders: 2 90". Rewinders: 2 95" Other Eqt.. Embossers: 1 65".

Steam/Power. Power Boilers. Fuel: Gas/Oil. Steam, lbs hr.. 350,000. Press.. 450/275
Electricity Freq, phase 440v, 60, 3. Installed H.P 18,500 electric. Purchased 4,000 kw. Generated: 12,000 kw Turbogenerators: 4

Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.

Products. Bible, bond, book (antique, bulking, eggshell, EF, MF, supercalendered, offset, coated), text, cover, box cover, check, duplicator, drawing, litho, mimeo manifold, embossing, envelope, greeting card, gumming, label, ledger, MICR, music, papeterie, postcard, poster, register, bond, salesbook, straw, tablet, tea bag, vellum, watermarked, writing, 400 tons daily

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled

National Gypsum Co. 2305 E King Hwy 49003

Tel: 616-343-1579
RR ConRail siding Hwys US Rte # 12.
Arnold F Nelson Plant Mgr
J Waber, Prod Supt
Lee Webster Maint Supv
F.B. Mack Steam Engr
J.P Schiebergen, Qual Supv
D.R Thompson, Office Mgr

MHI-00187

THE PAPER TIGERS • PHONE: 312/664-5700
HANCOCK CENTER • 875 NORTH MICHIGAN • CHICAGO 60611
PHONE: 312/664-5700 HOWARD ZUKER ASSOCIATES

Carl Groesbeck, Plant Buyer

Paper Mill Stock Preparation Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron, Jordans: 2 Shartle.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 2 stacks..
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage. 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Gypsum board liner, 155 tons daily.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. PO Box 86 49946

Tel: 906-524-6101
RR: Soo Line. Hwys. US Rte # 41
L.W. Swanson, Plant Mgr
R. J. Slattery, Gen Supt
R.A. Soli, Plant Contr
B. C. Penokie, Plant Engr
T. Barthell, Tech Srvc Mgr
Woodhandling and Preparation Chip Handling. Chain, belt conveyors. Chippers: 1 85" Charthage. Chip Screens. 1 three-deck Dillon.
Pulp Mill Defibrated Wood Pulp. Continuous Digesters: 3 Defibrators.
Pulp Processing: Stock Refiners: 3 Asplund disc.
Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers: 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater
Steam/Power. Power Boilers. Steam, lbs hr.: 93,000.
Electricity Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source Bay
Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. PO Box 111 49854

Tel 906-341-2175
RR. Soo Line sidings Hwys. US Rte # 2.
Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Harry Hastings, Paper Mchne Supt
George Bouscher, Plant Engr
Audun Grimnes, Prod Control Mgr
Francis J Kasun, Pur Mgr
Al Schuster, Sales Mgr
Walter Alexander, Office Mgr
Woodhandling and Preparation Roundwood Storage Capacity 15,000 cds. Mobile Equipment. 2-cranes Slashers 1 Barkers 1 drum. Bark Presses 1 Hogs 1. Avg. Daily Use of Peeled Pulpwood. 65 cds.
Pulp Mill Ground Wood, Stone Avg. Daily Prod., Unbl Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp. Avg. Daily Prod., 75 tons
Pulp Processing Stock Refiners. 1 Screens 2 Finckh, 2 Cowan.
Paper Mill Stock Preparation. Pulpers. 2 Jones. Refiners: 1 Claflin
Paper Machines 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers Drums 40-60" dia. Size Presses. 1 Calenders. 1 Reels 1 Winders: 1 Cameron.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 75,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond.
Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858

Tel: 906-863-5595
RR: C&NW, CMStP&P. Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
John A Gaspen, Cnvtg Supt
Robert Sultan, Sales Mgr
Robert Pomrenke, Mgr Matls Control
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners. 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt. Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day Turbogenerators: 2.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Linerboard, waxing tissue, 350 tons daily. Waxed paper in rolls and sheets

Scott Paper Co. 26th St.

Pulp Mill Is Dismantled.

MONROE

Consolidated Packaging Corp. 1521 E First St (PO Box 723) 48161

Tel. 313-241-9000
RR ConRail sidings. Hwys: US Rte # I-75. State Rte # 56,24A
George Baron, Res Mgr
Robert Lajiness, Prod Mgr, Bxbd
Carlson Robideau, Paper Stock Buyer
Paper Mill Stock Preparation Pulpers: 8 Hydrapulper, 5 Dynapulper Refiners. 2 double disc, 3 Hydradisc Jordans: 14. Other Eqt., 2 asphalt dispersion systems.
Paper Machines Seven-Cylinder 124" Width 112" Trim 420 fpm
Seven-Cylinder 124" Width 112" Trim 420 fpm
1 Fourdrinier 132" Width 115" Trim (idle)
1 Fourdrinier 96" Width 84" Trim (idle)
Dryers. Drums 240. Size Presses: 2. Calenders: 6. Winders 2
Coaters, off Machine 1 72" Air Knife.
Finishing Plant Rewinders. 2 Sheeters. 2. Trimmers 3
Steam/Power. Power Boilers. 2 Fuel: Coal. Steam, lbs hr 175,000. Press., 250
Electricity Freq, phase. 220/440v, 60, 3. Purchased 90 Mkw. Generated: 35 Mkw. Turbogenerators 2
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: Wells, Lake.
Effluent Treatment. Primary Treatment: Clarifiers Secondary Treatment Lagoons
Products. Folding boxboards, clay coated boxboard, pasted boards, 300 tons daily. Cylindrical asphalt drums.

Time Container Div. of Smurfit Industries Inc. 1151 W Elm Av. 48161

Tel: 313-241-3220
RR: C&O siding Hwys. US Rte # 24, I-75
James V LaMarre, Pres, Gen Mgr
Daniel Staelgraeve, Crrgtd Gen Mgr
Edward D O'Brien, Mill Prod Mgr
Robert Bert, Mill Supt
Eric Flotow, Chief Chemist
George K Whitaker, Chief Engr
Charles Robertson, Paster Supt
Delbert Broughton, Plant Contr
William A. Finn, Pur Agt
Irving Kuklo, Sales Mgr
Paper Mill Stock Preparation: Pulpers 2 Hydrapulper. Refiners: 2 Emerson. Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders: 2 stacks. Winders: 1..
Finishing Plant. Rewinders: 1. Trimmers: 2.
Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system.
Products. Test linerboard, pasted chip, plain chip, tube board, lightweight chip, panel board, 110 tons daily.

Union Camp Corp. Unbleached Paper & Board Div. 1109 E Elm St (PO Box 588) 48161

Tel: 313-241-7700
RR: ConRail, Detroit Toledo Shore Line Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
R.A. Thorne, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
A.L. Gordon, Mill Engr
H.C. Brothers, Dir, Prchsg
E.L. Kelley, Mill Sales Mgr
J.C. Foxworthy, Ind Rels Mgr
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier Refiners: 6-32" Bauer 442 disc. Jordans: 6 Miami 2A. 2 Emerson 2-OD. Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums. 127, 103, and 137-42" dia. Reels: 2 Pope, 1 upright Winders: 3 two-drum..
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 340,000. Press.: 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 9850 kwh/day Turbogenerators: 2-7500 kw, 1000 kw, 1-1000 kw and 1-350 kw diesel generators.
Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: Lake Erie Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Paper Div Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR. LS&I Hwys. State Rte # 28,94
Richard H Boehm, Div Vice Pres (Neenah)
Donald R Kneepkens, Gen Mgr, Sales & Mktg (Neenah)
John E Carter, Mill Mgr
James R Ward, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
Rudy E Kelto, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt
Paper Mill Stock Preparation. Pulpers: 4. Screens: 2.

MHI-00188

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • BLEACHED KRAFT PULP
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 3. Saturators: 5.
Finishing Plant Supercalenders: 1-94". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior
Effluent Treatment. Primary Treatment: Yes.
Products. Bond, writing, mimeo, ledger, duplicator, map, impregnating, coating base, saturating, coated and saturated specialties, 85 tons daily.

MUSKEGON

Tekmold Inc 2850 Lincoln St 49441
Tel: 616-755-1662
RR: GTW siding. Hwys: US Rte # I-196. State Rte # 16,31.
Richard Straus, Pres
Richard Berry, Vice Pres Mfg
Paul Vanderwerf, Vice Pres Sales
Robert Hasper, Contr
Frank Gregory, Sec
Paper Mill Stock Preparation: Pulpers: 6.
Paper Machines. 2 moulding machines..
Water Treatment. Daily Usage, 30. M.g.p.d. Source: Well.
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Molded pulp interior protective packaging, 8 tons daily.

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443
Tel: 616-755-3761 Telex: 510-394-4300
RR. C&O siding. Hwys: US Rte # 16,31,196. State Rte # 46.
H.J. Roehner, Res Mgr
P.T. Kirk, Prod Mgr
C.S. Russell, Mgr Srvcs
John S Moran, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
J.W. Decker, Asst Pulp Mill Supt
M.E. Gunn, Paper Mill Supt
W.A. Watermam, Asst Paper Mill Supt
J.R. Johnston, Spclty Paper Mgr
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
C.H. Baker, Qual Contrl Dir
D.L Tyler, Coating Supt
D.R. Burling, Fnshg/Shpg Supt
R.W. Bickowski, Steam/Power Supt
William Holtzclaw, Pur Agt
D DeGlopper, Traffic Mgr
P Schuiteman, Ind Rels Mgr
W.B. Ryde, Wood Prcrmt Mgr
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane Flume. 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system. Chip Unloaders Hydraulic truck dumper. Barkers: 1-30 cds/hr Manitowoc drum. Hogs. 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd.
Pulp Mill Kraft Avg Daily Prod : Bl. Swd., 125 tons Bl. Hwd . 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system Recovery Boilers 1 C-E, 750,000 lbs solids/day. Lime Kilns. 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers 1 Lime Mud Washers. 1 Dorr-Oliver Recausticizing System Dorr-Oliver
Bleach Plant Sequence C-E-H-D Towers: 4 Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process
Pulp Processing: Knotters. 3 Impco. Screens: 3 Cowan. Cleaners 1 three-stage Bauer system. Washers. 3-9' x 16' Impco vacuum Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.. 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.
Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper. Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZunk, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines. Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum..
Coaters, On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
off Machine. Air Knife: 1-105". Roll: 1-100". Capacity coated paper, 160 tons daily.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 11-100" to 112". Trimmers: 5-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 16,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, text, cover, specialty papers, 365 tons daily.

NILES

French Paper Co. 100 French St. (PO Box 729) 49120
Tel: 616-683-1100
RR: ConRail siding. Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Pres, Treas.
B.R. Bigford, Exec. Vice Pres, Sales Mgr
T.R. Friedrich, Vice Pres, Mfg
R.D. Clark, Vice Pres., Sec.
R.A. Engberg, Chief Engr.
R. Etzcorn, Pur. Agt.
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders: 3..
Finishing Plant. Sheeters: 3. Trimmers: 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers. Fuel: Coal. Press.: 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 60 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49120
Tel: 616-683-4100 Telex: 258459
RR: ConRail. Hwys: US Rte # 12,31. State Rte # 60,40
Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Dir Engrg
George Halliwell, Plant Engr
A.O. Morningstar, Plant Contr
Earl Stevens, Pur Agt
A Seaman, Distrib Mgr
Ken James, Ind Rels Dir
Robert Drobel, Ind Rels Mgr
Richard Ward, Traf Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans. 1. Cleaners. 5 Consistency Regulators: 2. Other Eqt.. 2 Savealls.
Paper Machines. Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers: 1-162" wide, 150" trim, 1000 fpm
Dryers. Drums: 8 and 12 - 48" dia Calenders: 1 7-roll, 1-2 roll. Reels: 1 stock, 1 Pope. Winders: 2 Shear-Cut..
Steam/Power. Power Boilers. 1. Fuel. Gas/Oil Steam, lbs hr.: 35000. Press.: 100 psi
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264 Purchased: 32,000 kwh/day.
Water Treatment. Daily Usage, 1,000 M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily.

ONTONAGON

Hoerner Waldorf Div. Champion Intl Corp. 115 Lakeshore Rd. 49953
Tel: 906-884-4121
RR: Milw Rd. siding. Hwys: US Rte # 45. State Rte # 64.
Daniel T Potts, Res Mgr
Peyton Grymes, Gen Sales Mgr
Kenneth E Pickering, Opers Mgr
Joseph M Nies, Enviro & Tech Control Supv
Eugene G Barradas, Paper Mill Supt.
Alfred F Szaroletta, Pulp/Power Supt.
Robert L Fitze, Chief Engr
Robert M Reid, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity: 20,000 cds.. Chip Storage Capacity: 50,000 cds.. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Barkers: 1-30" Beloit mechanical. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd, 250 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 440 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: Zimpro wet-oxidation system.
Pulp Processing: Hot Stock Refiners: 2 American Defibrator. Stock Refiners: 4-36" Sprout Waldron double disc. Washers: 2 Swenson
Paper Mill Stock Preparation: Pulpers: 2. Refiners: 3 Bauer 440, 2 Sprout-Waldron pump-through. Jordans: 3 Jones Majestic. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZunk.
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120. Calenders: 2. Winders: 2..
Steam/Power. Power Boilers: 1. Fuel: Coal/Oil/Gas. Steam, lbs hr.: 250,000. Press.: 1500.
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Generated: 240,000 kwh/day. Turbogenerators: 1 GE, 15,000 kw
Water Treatment. Daily Usage, 7,500. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall. Secondary Treatment: Activated sludge.
Products. Corrugating medium, 500 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div. PO Box 187 49078
Tel: 616-692-6211 Telex. 810-277-7240
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89
Robert A Davis, Jr , Mill Mgr
Donald B Moore, Mgr, Board Mill
R.F Kutscher, Mgr, Srvcs
Jerry E Stoltz, Tech Dir
Ray W Peters, Mgr, Power
Howard J Klein, Mgr, Supply & Distr
Ira E Johnson Jr, Mgr, Cnvtg Opers
Linwood H Jennings, Mill Contr
Charles R Cushman, Pur Agt
H.H. Kindig, Human Rsrcs Cnslt
Ted A Olsen, Mill Mktg Mgr
Paper Mill Stock Preparation Pulpers. 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit

MHI-00189

MID-AMERICA ENGINEERS, INC.
One North Wacker Drive, Chicago, IL 60606
(312)346-0700
Consultants Engineers Architects
MAE
Pulp and Paper
Pollution Control
Chemical-Plastics

Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums: 163. Calenders: 2..
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press.: 875/300 psi. Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day Turbogenerators: 4000 kw Westinghouse. 3000 kw Stal Laval.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, automotive boards, 210 tons daily.

Menasha Corp. Paperboard Mill N. Farmer St. 49078
Tel: 616-692-6141
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89
James Adams, Gen Mgr
John Scott, Prod Supt
Edward Bennett, Plant Engr
Bruce Buchanan, Tech Mgr
D Pickering, Proj Engr
D Cross, Proj Engr
G Hultmark, Proj Engr
Ron Thaxton, Proj Engr
Robert Gulbranson, Maint Supt
G.A. McConney, Adm Supt
Lester Phillips, Pur Agt
John Hanson, Wood Dept Mgr
Woodhandling and Preparation Avg. Daily Use of Peeled Pulpwood: 500 green tons purchased chips.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 225 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 2 S-W secondary; 2 DKP dewatering, presses
Paper Mill Stock Preparation: Pulpers. 2 Hydrapulper Other Eqt.: 1 Impco disc filter.
Paper Machines 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers. Drums. 95..
Steam/Power. Power Boilers: 4. Fuel Gas. Steam, lbs hr 270,000 Press.. 600 psi.
Electricity: Purchased: 4000 kw Generated: 4000 kw Turbogenerators. 1-4000 kw/kva
Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment. Aeration ponds.
Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Products Group 49268
Tel 517-263-5160
RR ConRail siding Hwys. US Rte # 223
Leon Maloney, Mill Mgr
Paper Mill Stock Preparation Pulpers 1-10', 1-12', 1-16' Hydrapulpers. Refiners 2 Bauer disc. Jordans 3 Other Eqt.. 1-1000 gpm and 1-1500 gpm Sveen Pedersen saveall's
Paper Machines Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers Fuel. Gas. Press.: 150 psi
Electricity Freq, phase 60, 3. Purchased. 100%.
Water Treatment. Daily Usage. 120 M.g.p.d. Source River
Effluent Treatment. Primary Treatment. Yes.
Products. Chipboard, reinforced and saturated building board, waterproof paper and boxboard. 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. Div of Philip Morris Industrial Inc. 200 Allegan St. 49080
Tel: 616-685-5851 Telex. TWX: 810-277-4990
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.
Donald V Martin, Gen Mgr
Emil A Warnez, Prod Mgr, Pprmkg
Lou R Burd, Mgr Prchsg
James C Farrand, Dir, R&D
Gary N Longworth, Mgr Engrg & Maint
Paul L Acosta, Mgr, Qual Control
William W Crouch, Mgr, Mfg Srvcs
Morris L Scott, Supt of Traffic
Richard D Schau, Mgr Acctg
Michael W Howe, Mgr Ind Rels
Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters: 2 blending. Refiners: 3 double disc. Jordans: 6. Stock Mixers: 2 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 500 fpm
1 Fourdrinier 135" Width 118" Trim 750 fpm
1 Fourdrinier 135" Width 118" Trim 1000 fpm
Dryers. Size Presses: 3..
Coaters, On-Machine. Trailing Blade, 1-117" Cap. coated paper: 80 tons daily.
Finishing Plant. Supercalenders: 2-65", 1-77". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 4. Trimmers: 4. Other Eqt.. 1-60" dual roll embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 150,000. Press.. 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 80,000 kwh/day. Generated: 40,000 kwh/day
Water Treatment. Daily Usage. 2,000 M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond
Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 180 tons daily

PORT HURON

★**Dunn Paper Co.** Sub of Dennison Mfg. Co 218 Riverview St. 48060
Tel: 313-984-5521 Telex: TWX: 810-231-7053
Headquarters Location. See Executive Offices section for more details
RR GTW siding Hwys. US Rte # I-94
James R Schoy, Tech Mgr
James R Ishmael, Prod Mgr
Richard J Foster, Mill Engr
R.C. Green, Machine Supt
Neil F Plouff, Pur Agt
James E Ramsey, Pers Dir
Paper Mill Stock Preparation Pulpers 7 Refiners. 17 Jordans 4
Paper Machines Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1600 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers Yankee 3 12', 1 18' dia. units Size Presses 4 Calenders 4 Winders 4
Coaters, On-Machine Roll 1
Finishing Plant Rewinders 2
Steam/Power. Power Boilers 3 Fuel Oil/Gas. Steam, lbs hr 76,000 Press 600/200
Electricity Freq, phase 60 3 Purchased 11,000 kwh /day
Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 125 tons daily

Port Huron Paper Co. 1660 Thomas St 48060
Tel 313-982-0191
RR. GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25
Gordon Morseth, Pres & CEO
R W. Durand, Sr Vice Pres
E.G. Donovan, Vice Pres Mktg
L.M. Sturdevant, Vice Pres
R.S. Smeltzer, Vice Pres Fin
R Andrews, Sec
T.R. Kroll, Prod Mgr
S.S. Luczycki, Paper Mill Supt
L.E. Rymers, Tech Dir
Thomas C Noetzel, Mgr, Maint & Engrg
G.L. Genaw, Pdct Mgr, Prtg Ppr
J Munro, Contr
F.W. Phare, Pers Dir
Paper Mill Stock Preparation. Pulpers: 6. Screens: 7 Refiners: 42. Jordans: 8. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 8 stacks. Winders: 6..
Finishing Plant. Rewinders: 2
Steam/Power. Power Boilers. Steam, lbs hr.: purchased.
Electricity: Purchased: 100%
Water Treatment. Daily Usage, 10,000 M.g.p.d. Source: River.
Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, 200 tons daily.

ROCHESTER

★**James River-Rochester Inc.** Rochester Div. (Subs of James River Corp. of Virginia) 340 Mill St 48063
Tel: 313-651-8121
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
William M Kirkland, Res Mgr
James M Phillips, Plant Supt
Dewey E Coffelt, Tech Dir
Anthony Plachta, Plant Engr
Peter J Lutz, Sales Mgr, Saturtg Filter
Robert L Blome, Sales Mgr, Ind Filter
Paper Mill Stock Preparation: Pulpers. 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens. 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses. 1 Calenders. 1 stack..
Coaters, On-Machine. 1-62" Roll, 20 tons daily cap. off Machine 1-36" Roll, 12 tons daily cap
Finishing Plant. Rewinders. 2 Sheeters: 2. Trimmers: 2
Steam/Power. Power Boilers: Fuel: Oil. Press.. 100 psi
Electricity Freq, phase 60, 3 Purchased. 100%.
Water Treatment. Daily Usage, 250 M.g.p.d Source: Wells
Effluent Treatment. Primary Treatment: Yes Effluent to municipal plant
Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, industrial, coffee and vacuum filter, graph, grinding wheel impregnated specialty, saturated, saturating, speaker cone, embossed, photo mount, matrix papers, 20 tons daily

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341
Tel: 616-866-1523
RR: Mich Nthrn Hwys US Rte # 131
Robert Alspaugh, Mill Mgr
Marc Milgram, Asst Mill Mgr
Ronald Van Dyke, Maint Supt
Paper Mill Stock Preparation Pulpers 4 Hydrapulper Screens 8 Refiners 3 S-W Jordans. 1.

MHI-00190

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Cleaners: 8-C Liquid Cyclone. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers. Drums: 15-42", 12-36" dia. Calenders: 3 stacks..
Coaters. On-Machine. Air Knife. 1 Waldron Microjet.
Finishing Plant. Trimmers: 2.
Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva.
Water Treatment. Daily Usage, 200. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**

Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi Corp.** Building Products Div.

Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St. 49097

Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6
Guy LaLouche, Opers Mgr
Charles Gardner, Mfg Supt
Raymond Wagner, Tech Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct
Vinnie Rawlinson, Pur Mgr
Ronald G Markan, Pers Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6 Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders 3..
Coaters, off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110"
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr 80,000
Electricity Purchased. 100%.
Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration basin.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av. 49098

Tel: 616-463-3141
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140.
Richard G Osborne, Pres
Milton F Stibal, Vice Pres, Opers
Robert Strasburg, Vice Pres, Mktg
R Charles Van Horn, Treas, Contr
Dean D McKinney, Sec
Niels K Jensen, Gen Supt
John E Klann, Fnshg Supt
John H Matthews, Dir Prchsg

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 4 Hydradisc. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66".
Finishing Plant. Supercalenders: 4: 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 2 Embossers, 62" and 53".
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000. Press.: 235.
Electricity: Installed H.P. 450 water. Purchased: 100%.
Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. Div. of Artistic Carton Co. PO Box 277 49099

Tel: 616-483-7601
RR: ConRail siding. Hwys: US Rte # 12.
John A Oakes, Pres
W.J. Redmond, Supt
D.E. Redmond, Plant Engr
Kenneth A Shane, Plant Contr
W.A. DeLano, Prchsg Mgr
D Stump, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 6 Hydrapulper Screens: 8. Refiners: 2 Bauer, 1 S-W. Jordans: 6 Shartle
Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer, 112" trim.
Dryers. Drums: 156. Calenders: 6.
Coaters, On-Machine. Air Knife, 1-92", 1-110". off Machine. 1-78"
Finishing Plant. Supercalenders: 1-78". Rewinders: 1. Sheeters: 1-112" on-machine Jagenberg, 2-72". Trimmers: 1-85"
Steam/Power. Power Boilers: 2. Fuel: Oil. Steam, lbs hr.: 180,000. Press.. 500.
Electricity: Freq, phase: 60, 3. Generated: 5000 kw. Turbogenerators. 2
Water Treatment. Daily Usage, 250 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated bending chipboard. 200 tons daily

YPSILANTI

Peninsular Paper Co. (Sub of James River Corp. of VA) 1000 N Huron St. 48197

Tel. 313-482-2600 Telex. 810-223-7004
RR: ConRail siding. Hwys: US Rte # I-94
Edward G Gremban, Vice Pres
Frank L Wright, Vice Pres Sales
Norman B Davey, Contr
Gerald Linzmeyer, Mgr Qual Control
David Seidler, Chief Engr
Robert C Huston, Fnsng & Shpg Supt
James R Elliott, Traffic Mgr

Paper Mill Stock Preparation Pulpers. 2-2000 lb Hydrapulper Refiners: 1 Morden Jordans: 2 Jones standard, 1 Jones Imperial. Cleaners. Bauer Centricleaners. Consistency Regulators: Fischer Porter Stock Mixers. Lightin' agitators
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 57" Trim 265 fpm
Rotoformers. 1 66" Width
Dryers. Drums: 52-36" dia Size Presses. 2. Calenders: 2 stacks. Winders: 2..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters. 2-85", 65" Hamblet. Trimmers 1-110" Lawson. 1-85" Seybold Ream Wrapping & Cartoning: Hayssen banding unit.
Steam/Power. Power Boilers. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.
Water Treatment. Daily Usage. 500. M.g.p.d. Source: Wells. River. Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div. Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2
RR: NP siding. Hwys: US Rte # 2,71,371.
Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech.
Myron Haiby, Sales, Traffic Mgr

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen.
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.
Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..
Steam/Power. Power Boilers: 1. Fuel: Gas (oil standby). Steam, lbs hr.: 14,000 Press.. 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.
Water Treatment. Source: City.
Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 90 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401

Tel: 218-829-4741 Telex: 910-561-3508
RR: Burl Nthrn. Hwys: US Rte # 210,371
Robert V Hershey, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Edward J Daleski, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Donald G Eschenbacher, Mgr Ind Srvc
Elmer W Walls, Mgr Fnshg & Shpg
Leonard W Bade, Mgr Ctg
David E Dinham, Pur Agt

Paper Mill Stock Preparation: Pulpers: 1 Morden, 3 Hydrapulpers. Jordans: 3 Emerson, 4 Black Clawson
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums. 101. Size Presses: 2 Calenders: 3..
Coaters, off Machine. 1-112" two-station blade.
Finishing Plant. Supercalenders. 2-121", 1-80" Rewinders: 5. Sheeters. 7 Trimmers 4
Steam/Power. Power Boilers: 3 Fuel. Gas/Coal. Steam, lbs hr 132,000
Electricity. Purchased. 126,000 kwh/day. Generated: 54,000 kwh/day
Water Treatment. Daily Usage, 2,300 M.g.p.d. Source: River. Primary Treatment: Infilco accelerator.
Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier Secondary Treatment: 9

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100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

for more details.

WEST DUDLEY

Boise Cascade Corp. Specialty Paperboard Div, Pressboard Pdcts. RFD 1, Southbridge 01550

Tel: 617-765-5929
RR: ConRail sidings. Hwys: Near US Rte # 15 Approx Mi 7. State Rte # 131.
F Eugene Rood, Plant Mgr
John Martinovich, Plant Supt
Henry Cyganiewicz, Master Mech
David L Emerson, Traffic Mgr
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 5. Refiners: 2 Claflin. Jordans: 4 Noble & Wood Mammoth Jr.
Paper Machines. S&W Five-Cylinder 103" Width 93" Trim 200 fpm
Dryers. Drums: 57. Calenders: 1 stack, 1 breaker stack..
Finishing Plant. Rewinders: 1 Moore & White. Sheeters: 1 Hamblet.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 34,000. Press.: 200.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 600. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: 2 clarifiers
Products. Cup, tag, photo mount, pressboard, tube, file folder, anti-tarnish, black, laminated, manila, patch stock, mill blanks, embossing, poster, bristol, card, cover, boxboards (manila-lined, news, patent-coated, coated, kraft, sulphite, pulp, vat-lined) 50 tons daily

WESTFIELD

★**Stevens Paper Mills, Inc.** 77 Mill St. 01085

Tel: 413-562-2315
Headquarters Location. See Executive Offices section for more details.
RR: ConRail. Hwys. US Rte # 202
John E Long, Prod Supt
Paper Mill Stock Preparation: Beaters: 5 Bertram, 8 other Jordans: 10.
Paper Machines. 4 Fourdrinier 94" Width 86" Trim
Products. Condenser and coil winding tissue, electrical insulating paper, 10 tons daily

★**Strathmore Paper Co.** S Broad St 01085

Tel: 413-568-9111 Telex: 95-5442 TWX. 710-350-1384
Headquarters Location. See Executive Offices section for more details.
Paper Mill Stock Preparation: Pulpers 4. Beaters: 6 Hollander, 2 Bertrams. Refiners. 21 Cleaners: 65 Dirtec, Bauer
Paper Machines 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
Finishing Plant Supercalenders. 2 Norwood. Sheeters 12 Trimmers. 12. Other Eqt. Air Dryers. 2
Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papetene, steel plate, patent office board, gravure direct process and negative. 100 tons daily, total of Turner's Falls and Woronoco mills

WEST GROTON

Groton Leatherboard Co. 01472

Tel: 617-448-6334
RR. ConRail Hwys: Near US Rte # 495 Approx Mi 10
Eugene R Gray, Pres., Treas
William A. Lawrence II, Vice Pres.
John C McGrail, Asst. Treas.
Virgil L Powell, Prod. Mgr
Paper Mill Paper Machines. 16 Wet Machines.
Effluent Treatment. Primary Treatment: and. Secondary Treatment: .
Products. Stereotype dry mats.

Hollingsworth & Vose Co. 01472

Tel: 617-448-3311 Telex: 928459
RR: ConRail siding. Hwys: US Rte # 40. State Rte # 2A.
John J Fawcett, Mill Mgr
Richard H Guimond, Gen Supt
Douglas Klauber, Tech Supt
Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 66" Width 60" Trim
Rotoformers: 1 65" width, 58" trim.
Rotoformers: 1 120" width, 110" trim.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.
Steam/Power. Power Boilers: 3. Fuel: Oil. Press.: 150.
Electricity: Freq, phase: 60, 3.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily.

WEST SPRINGFIELD

★**Preco Corp.**

Headquarters Location. See Executive Offices section for more details.

Premoid Corp. (Sub. of Preco Corp.) Front St. 01089

Tel: 413-736-4554
RR: ConRail siding. Hwys. US Rte # 20 Near State Rte # Mass Tnpke Approx Mi 4.
Charles S Sweitzer, Pres, Res Mgr
F.B. Comery, Vice Pres, Sales
J.A Cancelliere, Vice Pres, Coating Div
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J. Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers: 1. Screens: 2. Refiners: 1. Jordans: 1.
Paper Machines. 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator.
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt.. 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Water Treatment. Daily Usage, 400 M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089

Tel 413-732-5141 Telex 955-484
RR ConRail siding Hwys. US Rte # 91,20
John H Southworth, Pres, Treas
Kent Tarrant, Vice Pres, Sec
E Randall Baker, Supt
Elio Viecelli, Asst Supt
Paper Mill Stock Preparation: Pulpers: 2. Beaters. 1-1200 lb. 4-850 lb Refiners: 1 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers Size Presses: tub..
Finishing Plant. Supercalenders 1 Sheeters: 3. Trimmers 4
Steam/Power. Power Boilers 2 Fuel: Oil
Water Treatment. Source River
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Rag content bond, ledger, linen, typewriter, onionskin, manuscript cover, writing, watermarked deluxe bond, 15 tons daily

Strathmore Paper Co. Front St

RR. B&M. Hwys: US Rte # 20
Paper Mill Stock Preparation: Beaters 4.
Paper Machines. 1 Cylinder: 52" Trim
1 Cylinder: 89" Trim
Products. Fine and technical specialty papers, 20 tons daily
Paper Mill Is Idle.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20.
Donald W Bush, Supt, No. 2 Mill
Bernard J Czanowski, Supt, No. 1 Mill
Henry Dominguez, Chem
Alfred Letourneau, Maint Engr
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..
Products. Mill No. 1: writing, text, cover, papetene papers. Mill No. 2: Rag specialty, reproduction and bond papers.

MICHIGAN

ADRIAN

★**Simplex Products Group**

Headquarters Location See Executive Offices section for more details.

ALPENA

Abitibi Corp. Building Products Div. 416 Ford Ave. 49707

Tel: 517-354-2121
RR: Detroit & Mackinac Siding Hwys: US Rte # 23, State Rte # 32
P.K. De Bruhl, Plant Mgr
R.R. Stepanski, Mgr Mfg
G Manitz, Mgr Fbrctg & Fnshng
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
S.J. Majors, Qual Contrl Mgr
A.R. Schultz, Power Plant Supt
T.J. Kelly, Pers Mgr
A.C Hofmeyer, Plant Contr
D.R. Trewartha, Plant Buyer
J.C. Lamy, Woods Mgr.
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle.
Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones. Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt.: 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers 3. Fuel Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi
Electricity Purchased: 100,000 kwh/day. Generated 200,000 Turbogenerators. 1 GE 7500 kva.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and removal.
Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W Fletcher St. 49707

Tel: 517-354-2131
RR D&M siding Hwys US Rte # 23, State Rte # 32.

MHI-00192

Allan M Fletcher, Pres Treas
John T Fletcher, Vice Pres
R Werner, Sec, Pur Agt
Charles S White, Gen Mgr
A.J Steber, Gen Supt
David Dreisbach, Prod Mgr
T Prieur Paper Mill Supt
E J Grys Tech Dir
R J Bowes, Chief Engr
Clifford Crevier, Fnshg Supt
John Stretchko, Traffic Mgr
H.S Granstrom, Sales Mgr

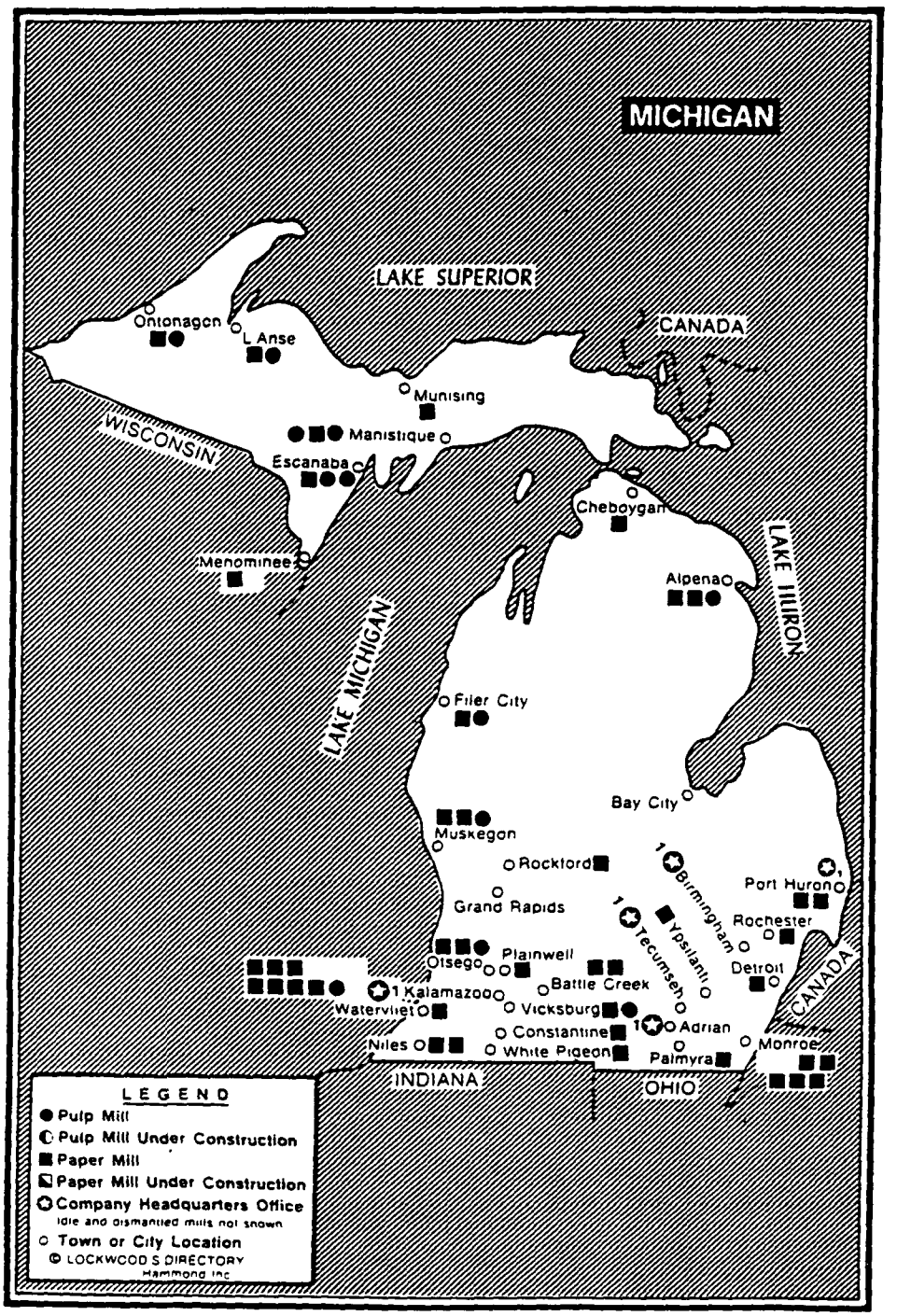
Paper Mill Stock Preparation: Pulpers 3 Hydrapulpers Screens: 2 Selectifier Refiners 5 Jones DD Jordans 3 Jones.
Paper Machines 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums: 62. Size Presses. 2 Calenders 2 stacks Winders: 2.
Coaters, off Machine. 1-60" Roll-Blade-Gravure. 10 tpd capacity
Finishing Plant. Sheeters. 1-72", 1-100" Trimmers. 3-65", 72", 85"

Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam, lbs hr.: 60,000. Press 450 psi
Electricity: Freq, phase 60, 3 Generated 72,000 kwh/day

Water Treatment. Daily Usage 700 M.g.p.d Source Thunder Bay River Primary Treatment Yes.

Effluent Treatment. Primary Treatment 1 Clarifier. Secondary Treatment. City syst.

Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 65 tons daily.



BATTLE CREEK

St. Regis Paper Co. Recycled Fiber Div Battle Creek Pprbd Mills 79 E. Fountain St 49016
Tel. 616-963-5511
RR: ConRail, GTW siding. Hwys US Rte # I-94 I-69 State Rte # 66,37,89
Robert A Armstrong, Res Mgr
Terry A Tiffany, Mfg Supt, Fountain Mill
Leonard A Carlson, Mfg Supt, Angell Mill
Jon Hamelink, Supt, Fountain Mill
Thomas W Smith, Supt, Angell Mill
Clyde G Eckhart, Tech Dir
Louis J Philipps, Plant Engr
John J Martinovich, Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
A.W. Miller Jr, Bxbd Sales Mgr

Paper Mill Stock Preparation: Pulpers: 3-4000 lb. and 3-3000 lb Morden Slushmaker 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb. Beaters: 1-2000 lb broke. Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer. Jordans: 15.
Paper Machines. Beloit Eight-Cylinder 130" Trim 1000 fpm
Stevens Formers: 1 seven unit, 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 283-60". Calenders. 7 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared..
Coaters, On-Machine. Air Knife, 1-130", 1-98", 1-122". On-Machine. Trailing Blade, 1-130", 1-98", 1-122". On-Machine Rod. 2-130".

Steam/Power. Power Boilers 3. Fuel: Oil/Gas. Steam, lbs hr.: 240,000
Electricity: Purchased. 2,500 kwh/day Generated: 7,500 kwh/day Turbogenerators. 2-8500 kw/kva

Water Treatment. Daily Usage. 5,000 M.g.p.d. Source. River

Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant.

Products. White clay coated, white lined news, solid kraft, kraft lined chip, plain and bending chip, bleached manila lined, manila lined, vat lined boxboards, 480 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. S Main St. 49721
Tel: 616-627-5664
RR: D&M siding. Hwys US Rte = 27
H.A Bullard, Plant Mgr

Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue

CONSTANTINE

Simplex Products Group Centreville Rd 49042
Tel: 616-435-2425 Telex: 510-398-5730
RR: ConRail siding. Hwys US Rte # 131
Desmond A Holt, Plant Mgr
Dick Runyan, Mill Supt
William Maxam, Plant Engr

Paper Mill Stock Preparation Pulpers: 2. Screens. 2. Refiners 2. Jordans 2 Other Eqt. 1 disc filter.
Paper Machines Seven-Cylinder 112" Width 98" Trim

Steam/Power. Power Boilers: Fuel Gas/Oil Press. 150
Electricity Freq, phase 440 v, 60, 3. Purchased 100%

Water Treatment. Daily Usage, 200 M.g.p.d Source: River

Effluent Treatment. Primary Treatment None. Effluent to municipal plant

Products. Chipboard, 65 tons daily

DETROIT

Scott Paper Co. Packaged Products Div 9125 W Jefferson Ave 48209

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Tel: 313-842-0042
RR: ConRail siding, Rouge Yard. Hwys: US Rte # I-75.
Richard N Furer, Gen Mgr
Fred Christiansen, Paper Mill Supt
James W Woodson, Tech Dir
Donald Grace, Plant Engr
Linda DiNard, Chief Consumer Rep
T Willadsen, Fnshg Supt
Charles G Allen, Safety & Srvcs Mgr
Robert Kendau, Acctg Mgr
Harold B Randolph, Pur Agt
R.P. McConkle, Plant Traffic Mgr
William H Cope, Pers Mgr
Lloyd H Jewell, Sales Mgr, Warren Grades

Paper Mill Stock Preparation: Pulpers: 3 Liebeck, 1 Pulpmaster, 1 Dualator, 2 Slushmaker, 2 Jones, 1 Hymac. Refiners: 5 double disc, 1 Morden. Jordans: 5.
Paper Machines. 2 Yankee MG. Fourdrinier 132" Width 124" Trim
1 Yankee Fourdrinier 136" Width 124" Trim
1 Yankee Fourdrinier 142" Width 120" Trim
Dryers. Yankee: 4..
Finishing Plant. Other Eqt.: Toilet tissue and napkin converting machinery.

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil.
Electricity: Generated: 100%.

Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: City System.

Products. Toilet, napkin, wiper, waxing, toweling, foil mounting, wrapping, lightweight specialty papers, 200 tons daily. Packaged products: roll toilet tissue, napkins, wipes.

ESCANABA

Escanaba Paper Co. (Sub. of Mead Corp, Publishing Paper Div.) 49829

Tel: 906-786-1660
RR: C&NW, Soo Line sidings. Hwys: US Rte # 2,41. State Rte # 35.
S.S. Benedict, Pres, Gen Mgr
James M Owens, Vice Pres, Mfg
Gerald R Gould, Vice Pres, Admin
T.H. Penng, Vice Pres, Mktg
Gary Butryn, Kraft Mill Mgr
O.C. Christiansen, Tech Dir
Kenneth Clark, Mgr, Pprmkg & Ctg
G Eastin, Qual Mgr
H.D. Hamilton, Mgr, Plant Engrg
J.L. Parr, Enviro Control Tech Dir
J.F. Schneider, Sales Srvc Mgr
J.C. Huskey, Contr
Richard E Nelson, Mgr Matls
William O'Donnell, Mgr Mktg
T.J. Gregoire, Dir Ind Rels
R Tompkins, Pub Rels Mgr
Lynn S Sandberg, Gen Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks. Chip Handling: Rader pneumatic system. Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 400 tons is Market Pulp. Batch Digesters. 6-6,500 cu. ft. each.
Ground Wood. Refiner. Avg. Daily Prod.: Bl. Hwd., 150 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-1B disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day. 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: Gwd: 1 stage. Kraft: C-E-D-E-D. Chlorine Dioxide System: Hooker SVP system.
Pulp Processing: Knotters: Gwd: 2 A-C vibrating. Kraft: SW Hooper centrifugal. Drainers: Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners: Gwd: 2-26" S-W Twin-Flo. Rejects Refiners: Gwd: 1 Bauer. Screens: Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter. Kraft: Bird Centrisorters. Cleaners: Gwd: 69-body, 3-stage Bauer 606 Centricleaner. Washers: Gwd: 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach. Washers: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke. Screens: 6 Selectifiers, 2 Centriscreens. Refiners: 7 Claflins, 6 S-W disc, 3 Deflakers (broke). Jordans: 4. Cleaners: 4-stage Bauer Centricleaner-Deculator system.
Paper Machines. P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers. Size Presses: 2. Calenders: 2 stacks. Reels: 2 Re-reelers..
Coaters, off Machine. Trailing Blade, 2-286", 2-172" double blade for C2S. off Machine. Cap. Coated Paper, 500 tons
Finishing Plant. Supercalenders: 2-278", 9-roll Appleton. Roll Wrapping Eqt.: Lamb-Grays Harbor automatic. Rewinders: 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters: 3 - Hamblet. Trimmers: 4 Seybold.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark. Steam, lbs hr.: 1,000,000. Press.: 400/1500.
Electricity: Freq, phase: 60, 3. Installed H.P. 75,000. Generated: 50,000 kwh/day. Hydroelectric: 2,000 kwh/day. Turbogenerators: 48,000 kwh/day.

Water Treatment. Daily Usage, 28,000. M.g.p.d. Source: Lake Michigan. Primary Treatment: Sand filters.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon. Tertiary Treatment: Clarifier.

Products. Coated book and publication papers, 600 tons daily. Kraft hardwood market pulp, 400 tons daily

FILER CITY

Packaging Corp. of America 49634

Tel: 616-723-9951
RR: C&O siding. Hwys: US Rte # 31.
J.L. Ham, Vice Pres. & Mgr
L.L. Huffman, Prod Mgr
C.F. Mills, Tech Dir
D.J. Elliott, Engrg Mgr
T.A. Kirsch, Office Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity. 26,000 Cords Barkers: 1 12'x80' FMP Chippers. 1 112", 12-knife. Chip Screens: 2 HiCap.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: 600 tons Continuous Digesters: 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect. Recovery Boilers 1 B&W
Pulp Processing Stock Refiners. 3 American Defibrator. Screens. 2. Washers: 4 Vacuum, 5 screw press

Paper Mill Stock Preparation Pulpers: 3. Screens: 3. Refiners. 5 Jones disc, 4 Sutherland. Jordans: 7 Miami
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1000 fpm
1 Fourdrinier 172" Width 157" Trim 1000 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums. 148-60" dia..

Steam/Power. Power Boilers. 4. Fuel: Oil/Gas. Steam, lbs hr 600,000 Press.: 610.
Electricity Purchased. 25,000 kwh/day. Generated: 475,000 kwh/day. Turbogenerators: 3-21,875 kva total

Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: River, Lake

Effluent Treatment. Primary Treatment. 2 Clarifiers Secondary Treatment: Aeration pond

Products. Corrugating medium, 625 tons daily

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div (Sub of SCM Corp.) 2030 Portage St 49001

Tel: 616-345-7131
Headquarters Location. See Executive Offices section for more details
RR. ConRail sidings Hwys. US Rte # IS 94, 131 State Rte # 43,96.
E.J. Gilman, Vice Pres, Opers
Tom Flanagan, Vice Pres, Mfg
J.D. Nisbet, Vice Pres, Sales
A.E. Vickery, Engrg Mgr
D.A. Falvey, Asst Engrg Mgr
D.C. Kirk Jr, Tech Dir
W.J. Haselow, Dir Qual Control
H.D. Peeters, Dir Prod Sched
U.G. Stoeffler, Mgr Proc Devl
G.F. Mahoney, Natl Sales Mgr
J.L. Curtis, Sales Mgr, Kalamazoo
B.L. Rasmusson, Dir Prchsg
J.R. Bowen, Traf Dir
R Mirkin, Mktg Mgr

Steam/Power. Power Boilers: Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf, box cover, carbonizing, cover, direct process, drawing, duplicator, envelope, foil mounting, gift wrapping, greeting card, gumming, label, ledger, map, mimeo, offset, opaque, papetene, place mat, post card, poster, register, sensitizing, tablet, text, vellum, xerographic, antitarnish, bank note, blotting, litho, chart, music, pattern, watermark, 450 tons daily Coated electrostatic base, master and specialites, 75 tons daily Coated two sides matte finish book, 100 tons daily

Allied Paper Inc. Bryant Mill 49003

Kenneth Sweet, Gen Supt

Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim. C2S Reverse Roll, 74" trim. Air Knife, 72" trim.
Finishing Plant. Supercalenders: . Rewinders: Sheeters: . Trimmers. . Other Eqt.. automatic counters.

Allied Paper Inc. Monarch Mill 49003

Harry Horrocks, Gen Supt

Paper Mill Paper Machines 1 Fourdrinier 126" Width 108" Trim
1 Fourdrinier 133" Width 112" Trim

Brown Co. Specialty Papers Div 243 E. Paterson St. 49007

Tel: 616-383-5000
RR: ConRail, CK & S. siding Hwys: US Rte # 12, 131, I-94 State Rte # 43
Frank A Somers, Vice Pres, Div Gen Mgr
Andrew T Muha, Vice Pres, Opers
William Fredencks, Mgr, Ppr Mfg & Matl Hndlg
Ron Fleckenstein, Mgr, Cnvtg Mfg & Ind Engrg
Harry Pratley, Mgr, Qual Control
Duane Feldmann, Mgr, Engrg, Maint & Util
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alnck, Supt, Matl Hndlg & Shppg
Ken Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Burnell Long, Ind Rels Mgr
Keith N Bartlam, Dir, Sls & Mktg
Stephen Parker, Mgr, Sls & Mktg, Fine Ppr
Thomas A Roy, Mgr, Sls & Mktg, Flex Pkg
Louis J McGuire, Mgr, Sls & Mktg, Inst Pdcts
R Gerry Wright, Mgr, Sls & Mktg, Consmr Pdcts
Louis Cortigene, Mgr, New Pdct Devl
Robert Russell, Mgr, Adm & Plnng

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb Hydrapulpers Beaters: 2 2500 lb.

MHT-00194

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers. Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine. Air Knife: 1. Blade: 2. Solvent: 1.
Finishing Plant. Supercalenders: 2. Rewinders: 7. Sheeters: 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.

Water Treatment. Daily Usage, 7,000. M.g.p.d. Source: River, well.

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily. Mill No 2: 280 Tons daily.

Brown Co. Recycled Paperboard Div. 243 E. Paterson St. 49007

Tel: 616-383-5000

RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94. State Rte # 43.

Norman K Ryan, Vice Pres, Mfg
John Stevens, Vice Pres, Sls & Mktg
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
John Harrison, Supt, Plt 7
Gene Ackermann, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke. Refiners: 8 Hydrafiners, 2 Morden stockmakers. Screens: 21. Jordans: 10
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.

Steam/Power. Power Boilers. 4. Fuel. Gas/Oil. Steam, lbs hr.: 300,000.

Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: Deep well

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div 2425 King Hwy (PO Box 2738) 49003

Tel. 616-382-2890 Telex: 810-277-2618

RR: ConRail, GTW, siding Hwys US Rte # I-94.

William R Walsh, Res Mgr
Jerry Robinson, Prod Mgr
Del Van Bruggen, Paper Mchne Supt
Earl Vining, Paper Mchne Supt
David DeKam, Tech Dir
Fred J Shelton, Chief Engr
Ronald Bush, Plant Contr
John P Gideon, Pur Agt
James H Cox, Traffic Mgr
David Boring, Pers Mgr

Pulp Mill Deinked Pulp Avg Daily Prod. 200 tons
Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd: sidehill washers, 90 tpd.
Bleach Plant. Sequence: 1 Hypochlorite/Hydrosulphite stage. Towers: 1 downflow.

Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb. Jordans: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Supercalenders: 2 90". Rewinders: 2 95".

Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 350,000. Press.: 450/275.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.

Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.

Products. Bond, book (antique, bulking, eggshell, EF, MF, supercalendered, offset), duplicator, drawing, label, ledger, music, postcard, poster, register bond, 400 tons daily.

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled.

National Gypsum Co. 2305 E. King Hwy 49003

Tel: 616-343-1579

RR: ConRail siding. Hwys: US Rte # 12.

J.B. Harvey, Plant Mgr
J Waber, Prod Supt
Lee Webster, Maint Supv
F.B. Mack, Steam Engr
J.P. Schiebergen, Qual Supv
D.R. Thompson, Office Mgr
Carl Groesbeck, Plant Buyer

Paper Mill Stock Preparation. Pulpers. 2 Hydrapulper. Refiners: 3 Sprout Waldron. Jordans: 2 Shartle.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack..
Finishing Plant. Rewinders. 1

Steam/Power. Power Boilers 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.

Water Treatment. Daily Usage, 580 M.g.p.d. Source: Wells, City.

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Gypsum board liner, 145 tons daily

L'ANSE

Celotex Corp. Sub of Jim Walter Corp. PO Box 86 49946

Tel: 906-524-6101

RR: Soo Line. Hwys. US Rte # 41

L.W. Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr
D.A Carpenter, Tech Srvc Mgr

Woodhandling and Preparation Chip Handling: Chain, belt conveyors. Chippers. 1 85" Charmage. Chip Screens: 1 three-deck Dillon.

Pulp Mill Defibrated Wood Pulp. Continuous Digesters. 3 Defibrators.
Pulp Processing: Stock Refiners: 3 Asplund disc.

Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers: 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater

Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay

Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. PO Box 111 49854

Tel: 906-341-2175

RR: Soo Line sidings. Hwys: US Rte # 2.

Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Harry Hastings, Paper Mchne Supt
George Bouscher, Plant Engr
Audun Grimnes, Prod Control Mgr
Francis J Kasun, Pur Mgr
Al Schuster, Sales Mgr
Walter Alexander, Office Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds.. Mobile Equipment: 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs: 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.

Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg. Daily Prod.: 75 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan.

Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums: 40-60" dia. Size Presses: 1. Calenders. 1. Reels: 1. Winders. 1 Cameron..

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 75,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day.

Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond.

Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858

Tel: 906-863-5595

RR: C&NW, CMStP&P. Hwys: US Rte # 41. State Rte # 173.

Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
John A Gaspen, Cnvtg Supt
Robert Sultan, Sales Mgr
Robert Pomrenke, Mgr Matls Control
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners. 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt.. Waxers: 5

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 140,000
Electricity Purchased 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: Yes.

Products. Linerboard, corrugating medium, waxing tissue, 350 tons daily. Waxed paper in rolls and sheets

MONROE

Consolidated Packaging Corp. 1521 E First St (PO

MHI-00195

SERVING THE PAPER INDUSTRY SINCE 1929
ALVIN H. JOHNSON & COMPANY, INC.
441 LEXINGTON AVE. — NEW YORK, N. Y. 10017 — 212-687-8764
CONSULTING & DESIGNING ENGINEERS
PULP MILLS • PAPER MILLS • DEINKING • WATER & EFFLUENT TREATMENT

Box 723) 48161
Tel: 313-241-9000
RR. ConRail sidings. Hwys: US Rte # I-75. State Rte # 56,24A.
George Baron, Res Mgr
Robert Lajiness, Prod Mgr, Bxbd
Carlson Robideau, Paper Stock Buyer
Paper Mill Stock Preparation: Pulpers: 8 Hydrapulper, 5 Dynapulper. Refiners: 2 double disc, 3 Hydradisc. Jordans: 14. Other Eqt.: 2 asphalt dispersion systems.
Paper Machines. Seven-Cylinder 124" Width 112" Trim 420 fpm
Seven-Cylinder 124" Width 112" Trim 420 fpm
1 Fourdrinier 132" Width 115" Trim (idle)
1 Fourdrinier 96" Width 84" Trim (idle)
Dryers. Drums: 240. Size Presses: 2. Calenders: 6. Winders: 2..
Coaters, off Machine. 1 72" Air Knife.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 3.
Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 175,000. Press.: 250.
Electricity: Freq, phase: 220/440v, 60, 3. Purchased: 90 Mkw. Generated. 35 Mkw. Turbogenerators: 2.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: Wells, Lake.
Effluent Treatment. Primary Treatment: Clarifiers. Secondary Treatment: Lagoons.
Products. Folding boxboards, clay coated boxboard, pasted boards, 300 tons daily. Cylindrical asphalt drums.

Time Container Div. of Smurfit Industries Inc. 1151 W. Elm Av. 48161
Tel: 313-241-3220
RR: C&O siding. Hwys: US Rte # 24, I-75.
William Radtke, Mill Gen Mgr
Daniel Staelgraeve, Crrgtd Gen Mgr
Edward D O'Brien, Mill Prod Mgr
Robert Bert, Mill Supt
Eric Flotow, Chief Chemist
Les White, Chief Engr
Charles Robertson, Paster Supt
Delbert Broughton, Plant Contr
William A Finn, Pur Agt
Paper Mill Stock Preparation. Pulpers: 2 Hydrapulper Refiners. 2 Emerson. Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110 Calenders: 2 stacks. Winders: 1..
Finishing Plant. Rewinders. 1 Trimmers: 2.
Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.. 70,000
Electricity: Purchased 100%.
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system
Products. Test linerboard, pasted chip, plain chip, tube board, lightweight chip, panel board, 110 tons daily

Union Camp Corp. Unbleached Paper & Board Div 1109 E Elm St (PO Box 588) 48161
Tel 313-241-7700
RR ConRail, Detroit Toledo Shore Line Hwys. Near US Rte # I-75 Approx Mi 1. State Rte # 56.
E.D. Redman, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
A.L. Gordon, Mill Engr
H.C Brothers, Dir, Prchsg
E.L. Kelley, Mill Sales Mgr
P.R. Berestecky, Ind Rels Mgr
Paper Mill Stock Preparation Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper Screens: 21 Selectifier Refiners: 6-32" Bauer 442 disc, 2-34" S-W Jordans 6 Miami 2A, 2 Emerson 2-OD. Cleaners. 8-10" Vortraps, 2 Vorject Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 3 Autoflyte. Winders: 3 two-drum..
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 340,000. Press.: 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 9850 kwh. Turbogenerators: 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.
Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Paper Div Pineview & Sycamore Sts (PO Box 10) 49862
Tel: 906-387-2700
RR: LS&I. Hwys: State Rte # 28,94.
Richard H Boehm, Div Vice Pres (Neenah)
Donald R Kneepkens, Gen Mgr, Sales & Mktg (Neenah)
John E Carter, Mill Mgr
James R Ward, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
Rudy E Kelto, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 3. Saturators: 5.
Finishing Plant. Supercalenders: 1-94". Rewinders: 5. Sheeters. 3, cap. 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 85 tons daily.

MUSKEGON

Tekmold Inc 2850 Lincoln St 49441
Tel: 616-755-1662
RR: GTW siding. Hwys: US Rte # I-196. State Rte # 16,31.
Richard Straus, Pres
Richard Berry, Vice Pres Mfg
Paul Vanderwerf, Vice Pres Sales
Robert Hasper, Contr
Frank Gregory, Sec
Paper Mill Stock Preparation: Pulpers: 6.
Paper Machines 2 moulding machines..
Water Treatment. Daily Usage, 30. M.g.p.d. Source: Well
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Molded pulp interior protective packaging, 8 tons daily

S.D. Warren Co. Div of Scott Paper Co. 2400 Lakeshore Dr 49443
Tel: 616-755-3761 Telex. 510-394-4300
RR: C&O siding. Hwys. US Rte # 16,31,196. State Rte # 46
H.J Roenner, Res Mgr
P T. Kirk, Prod Mgr
C.S. Russell, Mgr Srvcs
John S Moran, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
J.W. Decker, Asst Pulp Mill Supt
A.N. Robinson, Paper Mill Supt
W.A. Watermam, Ass: Paper Mill Supt
J.R. Johnston, Spclty Paper Mgr
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
D.L. Tyler, Qlty Cntrl Dir
D.R. Burling, Fnshg/Shpg Supt
R.W. Bickowski, Steam/Power Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schutteman, Ind Rels Mgr
W.B. Ryde, Wood Prcrmt Mgr
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane. Flume: 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system. Sawdust Handling: Rader pneumatic system. Chip Unloaders: Hydraulic truck dumper. Barkers: 1-30 cds/hr Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood: 300 cds swd, 200 cds hwd.
Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators. 1 six-effect Swenson. Black Liquor Oxidation System: Champion system. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.
Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper. Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines. Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum..
Coaters, On-Machine Trailing Blade, 1-163" puddle, 1-222" Invertablade
Finishing Plant. Supercalenders. 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.. D.J. Murray system Rewinders. 3 Langston. Sheeters: 1 Lenox folio; 3, 100" to 112" Trimmers: 3-100". Ream Wrapping & Cartoning Southworth system. Strapping Eqt.. Signode system
Steam/Power. Power Boilers. 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000 Press.: 500.
Electricity: Freq, phase 60, 3 Purchased: 3,500 kwh/day Generated 19,000 kwh/day. Turbogenerators 3-25,500 kw
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: Lake Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system
Products. Machine coated book, litho, text, cover, specialty papers, 400 tons daily

NILES

French Paper Co. 100 French St. (PO Box 729) 49120
Tel: 616-683-1100
RR: ConRail siding Hwys US Rte # 31,12 State Rte # 60,51.
J.E. French, Pres, Treas
B.R Bigford, Exec Vice Pres, Sales Mgr
T R. Friedrich, Vice Pres, Mfg
R.D Clark, Vice Pres Sec
R.A. Engberg, Chief Engr
R Etzcorn, Pur Agt
Paper Mill Stock Preparation Pulpers. 3 Dynapulper, 1 Slushmaker Refiners 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders 3.
Finishing Plant Sheeters 3 Trimmers 2 Other Eqt. 2 Embossers.
Steam/Power. Power Boilers Fuel Coal Press. 150.

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • UNBLEACHED SULPHITE PULP
PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Electricity: Freq, phase: 440v, 60, 3. Installed H P 1600 electric, 1600 water.
Water Treatment. Daily Usage, 800. M.g.p.d. Source. Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 60 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49120
Tel: 616-683-4100 Telex: 258459
RR: ConRail. Hwys: US Rte # 12,31. State Rte # 60,40
Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Dir Engrg
George Halliwell, Plant Engr
A.O. Morningstar, Plant Contr
Earl Stevens, Pur Agt
A Seaman, Distrib Mgr
Ken James, Ind Rels Dir
Robert Drobel, Ind Rels Mgr
Richard Ward, Traf Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Savealls.
Paper Machines Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers: 1-162" wide, 150" trim, 1000 fpm
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1 stock, 1 Pope Winders: 2 Shear-Cut..
Steam/Power. Power Boilers: 1. Fuel. Gas/Oil. Steam, lbs hr.. 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3 Installed H.P. 3,264 Purchased: 32,000 kwh/day
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily.

ONTONAGON

Hoerner Waldorf Champion Intl Corp. 115 Lakeshore Rd. 49953
Tel: 906-884-4121
RR. Milw Rd. siding Hwys. US Rte # 45. State Rte # 64
Daniel T Potts Res Mgr
Peyton Grymes, Gen Sales Mgr
Kenneth E Pickering, Opers Mgr
Joseph M Nies, Enviro & Tech Control Supv
R Howard, Paper Mill Supt.
Alfred F Szaroletta, Pulp/Power Supt.
Robert L Fitze, Chief Engr
Robert M Reic, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity. 20,000 cds.. Chip Storage Capacity: 50,000 cds Mobile Equipment. 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling Rader pneumatic. Sawdust Handling: Rader pneumatic Barkers: 1-30" Beloit mechanical. Hogs. 1 Jacksonville Blow Hog Chippers: Beloit 114", 14-knife Rechippers 1 Murray Chip Screens: 2-Tyler. Avg Daily Use of Peeled Pulpwood Hwd. 250 cds
Pulp Mill Semi-Chemical, NSSC Avg. Daily Prod.. Unbl Hwd 440 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant. Evaporators. Zimpro wet-oxidation system.
Pulp Processing. Hot Stock Refiners: 2 American Defibrator Stock Refiners: 4-36" Sprout Waldron double disc Washers 2 Swenson
Paper Mill Stock Preparation Pulpers: 2. Refiners. 3 Bauer 440 2 Sprout-Waldron pump-through Jordans 3 Jones Majestic. Cleaners: Bauer Centricleaners Consistency Regulators: DeZurik.
Paper Machines P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers Drums 120 Calenders: 2 Winders. 2.
Steam/Power Power Boilers 1, 2 package Fuel Coal/Oil/Gas Steam, lbs hr.. 325,000. Press.. 1500/250 psi.
Electricity: Freq, phase 60, 3 Installed H.P. 13500. Generated: 240,000 kwh/day. Turbogenerators: 1 GE, 15,000 kw
Water Treatment. Daily Usage, 7,500. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall. Secondary Treatment: Activated sludge.
Products. Corrugating medium, 500 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div. PO Box 187 49078
Tel: 616-692-6211 Telex: 810-277-7240
RR: ConRail siding Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
Robert A Davis, Jr., Mill Mgr
Donald B Moore, Mgr, Board Mill
R.F. Kutscher, Mgr, Srvcs
Jerry E Stoltz, Tech Dir
Ray W Peters, Mgr, Power
Howard J Klein, Mgr, Supply & Distr
Ira E Johnson Jr, Mgr, Matl Hndlg
Linwood H Jennings, Mill Contr
D Roberts, Tour Supv
K.B. Servis, Tour Supv
A Rosenberger, Human Rsrcs Mgr
Ted A Olsen, Mill Mktg Mgr
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners 2 34" Jones DD, 1 Bauer double disc. Jordans 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums. 163 Calenders: 2..
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam. lbs hr.. 134,000. Press.. 875/300 psi.
Electricity Freq, phase. 60,3. Installed H.P 8000. Purchased: 41,000 kwh/day Generated: 64,000 kwh/day Turbogenerators. 4000 kw Westinghouse, 3000 kw Stal Laval.
Water Treatment. Daily Usage. 450 M.g.p.d. Source 4 Wells Primary Treatment: Chlorination. Secondary Treatment Iron stabilization.
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators
Products. Plain and bending chip, filled and solid news, jute lined woodgrain, laminated specialties, building, automotive boards, 210 tons daily

Menasha Corp. Paperboard Mill N Farmer St. 49078
Tel 616-692-6141
RR ConRail siding Hwys US Rte # 131. State Rte # 89
James Adams, Gen Mgr
R Gulbranson, Plant Engr
Bruce Buchanan Tech Mgr
D Pickering, Proj Engr
D Cross, Proj Engr
G Hultmark, Power Engr
Ron Thaxton, Proj Engr
G A McConney, Adm Supt
Lester Phillips, Pur Agt
John Hanson, Wood Dept Mgr
Woodhandling and Preparation Avg Daily Use of Peeled Pulpwood 500 green tons purchased chips.
Pulp Mill Semi-Chemical, NSSC Avg Daily Prod. Unbl Hwd . 225 tons Continuous Digesters 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers. Dorr Oliver fluid bed incinerator
Pulp Processing Stock Refiners: 5 S-W primary; 3 Bauer 2 S-W secondary, 2 DKP dewatering presses
Paper Mill Stock Preparation Pulpers: 2 Hydrapulper Other Eqt.. 1 Impco disc filter
Paper Machines 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers Drums 95
Steam/Power. Power Boilers 4 Fuel. Gas. Steam, lbs hr . 270,000. Press . 600 psi.
Electricity: Purchased 4000 kw Generated: 4000 kw. Turbogenerators: 1-4000 kw/kva.
Water Treatment. Daily Usage, 2,200 M.g.p.d Source: Wells.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration ponds.
Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Products Group 49268
Tel: 517-263-5160
RR: ConRail siding. Hwys. US Rte # 223.
Leon Maloney, Mill Mgr
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.. 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 120. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. Subs. of Philip Morris Industrial Inc. 200 Allegan St 49080
Tel: 616-685-5851 Telex: TWX: 810-277-4990
RR. ConRail siding Hwys. US Rte # 131. State Rte # 89.
Richard W Detrick, Pres
Donald V Martin, Vice Pres, Gen Mgr
Richard W Flores, Mgr Mfg
Emil A Warnez, Prod Mgr, Pprmkg
Richard Thomas, Supt Fnshng
James C Farrand, Dir, R&D
Gary N Longworth, Mgr Engrg & Maint
Lou R Burd, Mgr Field Tech Srvs
Kay C Woodruff, Supv Qlty Contrl
Thomas J Ryan, Mgr. Mfg Srvcs
Morris L Scott, Supt of Traffic
B.J. Bradley, Buyer
Kirby D Brown, Mgr Fin & Plnng
Michael W Howe, Mgr Ind Rels
Eugene E Reed, Mgr Mktg
William M Ryan, Sls Mgr, Prtng Pprs
Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters: 2 blending. Refiners. 3 double disc. Jordans: 6. Stock Mixers. 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 500 fpm
1 Fourdrinier 135" Width 118" Trim 750 fpm
1 Fourdrinier 135" Width 118" Trim 1000 fpm
Dryers. Size Presses. 3..
Coaters, On-Machine Trailing Blade, 1-117" Cap. coated paper: 100 tons daily.
Finishing Plant. Supercalenders: 2-65", 1-77", 1-120" Roll Wrapping Eqt.. 1 automated line. Rewinders 3 Sheeters 4 Trimmers: 4 Other Eqt.: 1-62" bobbin winder, 1-60" dual roll embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.. 150,000. Press.: 265 psi.
Electricity: Freq, phase 60, 3. Purchased: 80,000 kwh/day Generated: 40,000 kwh/day
Water Treatment. Daily Usage, 2,000. M.g.p.d. Source. wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond, secondary clarifier
Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 180 tons daily

PORT HURON

★**Dunn Paper Co.** Sub of Dennison Mfg. Co. 218 Riverview St 48060
Tel 313-984-5521 Telex TWX 810-231-7053

MHI-00197

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES.

GOTTESMAN & CO., Inc. • FLUFF DRIED GROUNDWOOD

100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # I-94.
James R Schoy, Tech Mgr
James R Ishmael, Prod Mgr
Richard J Foster, Mill Engr
Robert C Green, Machine Supt
James E Ramsey, Pers Dir

Paper Mill Stock Preparation: Pulpers: 7. Refiners: 17. Jordans: 4.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1600 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee. 3 12', 1 18' dia. units. Size Presses: 4 Calenders: 4 Winders: 4..
Coaters, On-Machine. Roll, 1.
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.. 76,000. Press.: 600/200.
Electricity: Freq, phase: 60 3. Purchased: 11,000 kwh./day.

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 125 tons daily

Port Huron Paper Co. 1660 Thomas St 48060
Tel: 313-982-0191
RR. GTW siding Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25
Gordon Morseth, Pres & CEO
R.W. Durand, Sr Vice Pres
E.G. Donovan, Vice Pres Mktg
L.M. Sturdevant, Vice Pres
R.S. Smeltzer, Vice Pres Fin
Robert L Andrews, Sec
Thomas C Noetzel, Corp Energy Mgr
L.E Rymers, Tech Dir
Thomas R Kroll, Mgr, Maint & Engrg
G.L. Genaw, Pdct Mgr, Prtg Pprs
James E Munro Contr
F.W Phare, Pers Dir

Paper Mill Stock Preparation: Pulpers: 5. Screens: 6 Refiners 50 Jordans 7 Cleaners 6
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers Drums 83 Yankee 4 Size Presses. 5. Calenders 7 stacks Winders 6.
Finishing Plant Rewinders 2

Steam/Power. Power Boilers. Steam, lbs hr: purchased
Electricity Purchased 100%

Water Treatment. Daily Usage. 10,000 M.g.p.d. Source River

Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base foil mounting, interleaving kraft specialties, laminating, lens, offset, opaque tissue wrapping and specialties, MG wrapping, writing, register, salesbook, MG and MF lightweight dense specialty, waxing tissue, 200 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div (Subs. of James River Corp of Virginia) 340 Mill St 48063
Tel 313-651-8121
RR. GTW siding Hwys US Rte # 10 State Rte # 150
James E Rogers Vice Pres Res Mgr
William M Kirkland Plant Mgr
Carl Bach, Plant Supt
Irwin M Hutten, Tech Dir
Anthony Plachta, Plant Engr
Peter J Lutz, Sales Mgr, Saturtg Filter
Robert L Blome, Sales Mgr, Ind Filter

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood. 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters, On-Machine. 1-62" roll saturator, 20 tons daily cap.
off Machine. 1-62" roll laminator, 12 tons daily cap
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 2-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Embossers: 4 Waldron. Punch Presses: 2. Die Cutters: 1-32x60 Shendan. Roto Presses: 1-36" 2/C Champlain. Corrugator-Impregnators: 1-50". Sewing Machines: 2.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, industrial, coffee and vacuum filter, graph, grinding wheel, impregnated specialty, flameproof; creped specialties; sewn specialties, nylon saturating, speaker cone, embossed, photo mount, matrix papers, 20 tons daily

RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Guy LaLouche, Opers Mgr
Charles Gardner, Mfg Supt
Raymond Wagner, Tech Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct
Vinnie Rawlinson, Pur Mgr
Ronald G Markan, Pers Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb. 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses. 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".

Steam/Power. Power Boilers: 2 Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin.

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341
Tel: 616-866-1523
RR: Mich Nthrn. Hwys: US Rte # 131.
Robert Alspaugh, Mill Mgr
Marc Milgram, Asst Mill Mgr
Ronald Van Dyke, Maint Supt

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8 Refiners: 3 S-W. Jordans: 1. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZurik Other Eqt. allied clay mixing eqt.
Paper Machines Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers. Drums: 15-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1 Waldron Microjet.
Finishing Plant Trimmers 2

Steam/Power. Power Boilers: 2 Fuel: Coal. Steam, lbs hr 50,000 Press. 135
Electricity: Freq, phase: 60, 3 Installed H P. 2100 electric, 300 water Purchased 1500 kva

Water Treatment. Daily Usage, 200 M.g.p.d Source River

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal

Products. Boxboard, clay-coated, chip, news, lined and solid kraft, food grade 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**
Headquarters Location See Executive Offices section for more details

TROY

★**Abitibi Corp.** Building Products Div
Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St 49097
Tel: 616-649-0510 Telex 810-277-1710

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av. 49098
Tel: 616-463-3141
RR: C & O siding Hwys: US Rte # I-94 State Rte # 140.
Richard G Osborne, Pres
Milton F Stibal, Vice Pres, Opers
Robert Strasburg, Vice Pres, Mktg
R Charles Van Horn, Treas, Contr
Dean D McKinney, Sec
Niels K Jensen, Gen Supt
John E Klann, Fnshg Supt
John H Matthews, Dir Prchsg

Paper Mill Stock Preparation. Pulpers: 4. Refiners: 4 Hydradisc. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses 2. Calenders: 2. Winders: 2
Coaters, off Machine Air Knife, 4 92", 88", 70" 66".
Finishing Plant. Supercalenders: 4 66", 80", 86", 96" Rewinders 2 Sheeters: 4-76" to 101" Trimmers: 4-85" and 100". Other Eqt.. 2 Embossers, 62" and 53"

Steam/Power. Power Boilers: 3 Fuel: Coal Steam, lbs hr.: 90,000 Press.. 235
Electricity Installed H P 450 water Purchased: 100%

Water Treatment. Daily Usage. 1,200 M.g.p.d. Source: wells

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily

WHITE PIGEON

White Pigeon Paper Co. Div. of Artistic Carton Co PO Box 277 49099
Tel: 616-483-7601
RR: ConRail siding Hwys US Rte # 12
John A Oakes, Pres
J.V Lamarre, Vice Pres
William Lunsford, Supt
Kenneth A Shane Plant Contr
Robert Guy Prchsg Mgr

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

D Stump, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 6 Hydrapulper Screens: 8 Refiners: 2 Bauer, 1 S-W. Jordans: 6 Shartle.
Paper Machines. Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer, 110" trim..
Dryers. Drums: 156. Calenders: 6..
Coaters, On-Machine. Air Knife, 1-92", 1-110".
off Machine. 1-78".
Finishing Plant. Rewinders: 1. Sheeters: 1-112" on-machine Jagenberg, 2-72". Trimmers: 1-85".

Steam/Power. Power Boilers. 2. Fuel: Oil. Steam, lbs hr.: 180,000. Press.: 500
Electricity. Freq, phase: 60, 3. Generated: 5000 kw. Turbogenerators: 2.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 6 Settling Basins.

Products. Clay-coated bending chipboard, 200 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp. of Virginia, Curtis Paper Div.) 1000 N. Huron St. 48197

Tel: 313-482-2600 Telex: 810-223-7004

RR: ConRail siding. Hwys: US Rte # I-94.

Edward G Gremban, Vice Pres, Res Mgr
Frank L Wright, Vice Pres Sales
Norman B Davey, Contr
Gerald Linzmeyer, Mgr Pprmkg
David Seidler, Chief Engr
Robert C Huston, Fnshg & Shppg Supt
Natale V Cirillo, Mgr Qlty Contrl
James R Elliott, Traffic Mgr
Harold Rhora, Mgr Inside Sales

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners. 1 Morden Jordans: 2 Jones standard, 1 Jones Imperial Cleaners: Bauer Centricleaners. Consistency Regulators. Fischer Porter. Stock Mixers. Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Rotoformers. 1 66" Width.
Dryers. Drums 52-36" dia. Size Presses: 2. Calenders: 2 stacks Winders: 2..
Finishing Plant Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters. 2-85", 65" Hamblet. Trimmers. 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning. Hayssen banding unit.

Steam/Power. Power Boilers: Fuel: Gas/Oil. Steam, lbs hr.: 40,000 Press. 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased. 25000 kwh/day

Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River Primary Treatment: yes.

Effluent Treatment. Primary Treatment: City sewer system.

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2

RR: NP siding. Hwys US Rte # 2,71,371.

Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech.
Myron Haiby, Sales, Traffic Mgr

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen.

Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.: Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.

Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..

Steam/Power. Power Boilers: 1. Fuel: Gas (oil standby). Steam, lbs hr.: 14,000. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.

Water Treatment. Source: City.

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 90 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401

Tel: 218-829-4741 Telex: 910-561-3508

RR: Burl Nthrn. Hwys: US Rte # 210,371.

Robert V Hershey, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Edward J Daleski, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Charles O Provost, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shppg
Leonard W Bade, Mgr Ctg
David E Dinham, Pur Agt
Terrance M Trettel, Mgr Traffic

Paper Mill Stock Preparation: Pulpers: 1 Morden, 3 Hydrapulpers. Jordans: 3 Emerson, 4 Black Clawson.
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 101. Size Presses: 2. Calenders: 3..
Coaters, off Machine. 1-112" two-station blade.
Finishing Plant. Supercalenders: 2-121", 1-80".
Rewinders: 5. Sheeters: 7. Trimmers. 4.

Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.: 132,000.
Electricity: Purchased. 126,000 kwh/day. Generated: 54,000 kwh/day.

Water Treatment. Daily Usage, 2,300. M.g.p.d. Source: River. Primary Treatment: Infilco accelerator

Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.

Products. Bond, duplicator, ledger, MICR, Xerographic, map, book (coated and uncoated) offset, coated offset text and cover (gloss, matte, dull, velvet), 275 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720

Tel: 218-879-2800 Telex: 910-561-2110

RR: Duluth & Nrthwstrn, BN, Milw, siding Hwys: Near US Rte # 61, IS-35 Approx Mi 3 State Rte # 33,45

J.W. King, Vice Pres, Plant Mgr
E.C. Erickson, Mgr, Engrg Srvcs
S.A Holloway, Mgr Bd Mfg
R.W. Bohren, Mgr, Blanket Mfg
T.G. Johnson, Mgr Corp Engrg & Constr
A.M Crewson, Engrg Consult
L.J. Palmer, Mgr Pur
R.A. Johansen, Corp Traf Mgr
J.A Manisto, Mgr Qual Control

Paper Mill Paper Machines. 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Tufflex Mill B. 1 Former and dryer, 114" width, 110" trim.
Tufflex Mill C. 1 Former and dryer, 114" width, 100" trim..
Fabrics Mill. 1 Curlator-Rando feeder and webber, impregnator and dryer, 80" trim.
Coaters, On-Machine Roll, 3 in board mill.
off Machine. 9 Spray and 3 curtain in board mill.

Steam/Power. Power Boilers: Fuel: Coal/Gas/Oil. Press 275
Electricity. Freq, phase: 13,800v, 60, 3 Installed H.P. 34,000 Purchased 100%

Water Treatment. Daily Usage, 800 M.g.p.d Source: River.

Effluent Treatment. Primary Treatment: Yes.

Products. Board mill mineral ceiling panels and decorative tile. Tufflex Mill: Homogenous wood fiber cushioning and protective padding Fabrics Mill: Non-woven fabrics

★**Potlatch Corp.** Northwest Paper Div 55720

Tel. 218-879-2300 Telex: 910-561-2113

Headquarters Location. See Executive Offices section for more details

RR: Burl Nthrn, Duluth & Nrthestrn RR Hwys: State Rte # 33,45.

Edwin F Erickson, Plant Mgr
James W Kovala, Asst Plt Mgr
William H Erickson, Mgr Ppr Mfg
Roger L Adams, Mgr Tech Srvc
David P Rawski, Mgr Ctg
Earl J DeRocher, Mgr Pulp Mfg
David A Olsen, Mgr Mech Srvc
James A Nelson, Mgr Fnshg & Shppg
Charles R Williams, Mgr Empl Rels
Lester V Blinn, Pur Agt
Richard J Brenner, Plant Contr
Veikko E Taipale, Mgr Traffic

Woodhandling and Preparation Roundwood Storage Capacity: 120,000 cds. Barkers: 2 drum. Chippers: 1-64", 10 knife; 1-84", 12 knife; 1-96", 15 knife. Chip Screens: 3. Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 500 cds hwd.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 140 tons Bl. Hwd., 300 tons Batch Digesters. 9.
Sulphite. Calcium Base. Avg. Daily Prod.: Bl. Hwd., 120 tons Batch Digesters. 3 (mill is idle).
Chemical Recovery Plant. Evaporators: 1 six-effect Unitech with concentrators, 1 Six-effect Swenson. Recovery Boilers: 1 B&W. Lime Kilns: 1. Recausticizing System: 1.
Bleach Plant. Sequence: Pine Kraft: C-E-H-E-D. Hwd Kraft: C-E/H-D.
Pulp Drying: Wet Machines: 1 Impco feltless.

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 8. Jordans: 6.
Paper Machines. 1 Fourdrinier 101" Width 86" Trim 860 fpm
1 Fourdrinier 123" Width 107" Trim 950 fpm
1 Fourdrinier 124" Width 107" Trim 950 fpm
1 Fourdrinier 216" Width 192" Trim 1300 fpm
Dryers. Size Presses: 4..
Coaters, off Machine. Trailing Blade, 1-130".
Finishing Plant. Supercalenders: 2-90", 130". Rewinders: 3. Sheeters: 8. Trimmers: 11.

Steam/Power. Power Boilers: 7 Fuel: Coal/Gas/Oil/Bark. Steam, lbs hr.. 350,000.
Electricity: Purchased: 125,000 kwh/day Generated: 324,000 kwh/day.

Water Treatment. Daily Usage, 17,000 M.g.p.d Source: River, Lake Superior.

Effluent Treatment. Primary Treatment: Yes

Products. Bond, duplicator, ledger, mimeograph, coated and uncoated book, writing, cover, text, opaque, coating base, MICR, tripurpose, embossed cover, text, coated and uncoated offset, litho, coated and uncoated web, xerographic papers, 330 tons

DULUTH

★**Superwood Corp.** 14th Av W and Waterfront St. 55802

Tel 218-727-6891

Headquarters Location See Executive Offices section for more details

RR: NP siding Hwys: US Rte # 2,53,61

D Swanum, Prod Mgr
Yarley Johansen, Steam Engr
Bruce Ellefson, Traffic Mgr

Woodhandling and Preparation Chippers. 1 10-knife Chip Screens. 2. Avg Daily Use of Peeled Pulpwood. 325 cds

Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.. 350 tons Continuous Digesters 1 Asplund Defibrator and 3 42" 1CP Sprout Waldron refiners
Pulp Processing Stock Refiners: 4 36-2 Sprout Waldron

Paper Mill Paper Machines 5 hardboard machines, with 2-4'x8', 1-5'x9', 1-4'x16' and 1-5.5'x16' presses

Steam/Power. Power Boilers: 5. Fuel. Gas/Oil. Steam, lbs hr.: 80,000 Press. 200.
Electricity: Freq, phase: 60, 3. Installed H.P 6200. Purchased: 100%

MHT-00199

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S AND WORLDWIDE SOURCES.
GOTTESMAN & CO., Inc. • BLEACHED SULPHITE PULP
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

WELLESLEY

★**Deerfield Specialty Papers Inc.**

Headquarters Location. See Executive Offices section for more details.

WEST DUDLEY

Boise Cascade Corp. Specialty Paperboard Div, Pressboard Pdcts. RFD 1, Southbridge 01550

Tel: 617-765-5929

RR: ConRail sidings. Hwys: Near US Rte # 15 Approx Mi 7. State Rte # 131.

F Eugene Rood, Plant Mgr
John Martinovich, Plant Supt
Henry Cyganiewicz, Master Mech
David L Emerson, Traffic Mgr

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulper. Screens: 5 Refiners: 2 Claflin. Jordans. 4 Noble & Wood Mammoth Jr

Paper Machines. S&W Five-Cylinder 103" Width 93" Trim 200 fpm

Dryers. Drums: 57. Calenders: 1 stack, 1 breaker stack.

Finishing Plant. Rewinders: 1 Moore & White. Sheeters: 1 Hamblet.

Steam/Power. Power Boilers. 2 Fuel Gas/Oil Steam, lbs hr.: 34,000 Press. 200

Electricity: Freq, phase: 60, 3 Purchased: 100%

Water Treatment. Daily Usage. 600. M.g.p.d. Source: River. Primary Treatment: Yes

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Genuine and imitation pressboard; plain and bending chip; folding, duplex, and index bristols. Specialty paperboards: beaming, binder's, can, cap, check and memo book cover, electrical, grained, jacquard, mat, pattern, photo mount, playing card, poster, shoe, stencil, tag, templet, trunk, and tube. 50 tons daily.

WESTFIELD

★**Stevens Paper Mills, Inc.** 77 Mill St 01085

Tel: 413-562-2315

Headquarters Location See Executive Offices section for more details

RR: ConRail Hwys US Rte = 202

Luman Wood, Vice Pres, Prod

Paper Mill Stock Preparation: Beaters: 5 Bertram, 8 other Jordans. 10

Paper Machines. 4 Fourdrinier 94" Width 86" Trim

Products. Condenser and coil winding tissue, electrical insulating paper, 10 tons daily

★**Strathmore Paper Co.** S Broad St 01085

Tel: 413-568-9111 Telex 95-5442 TWX 710-350-1384

Headquarters Location See Executive Offices section for more details

Gordon W Worden, Supt
Robert P Finney, Plant Engr

Paper Mill Stock Preparation Pulpers: 4 Beaters 6 Hollander, 2 Bertrams Refiners 21 Cleaners 65 Dirtec, Bauer

Paper Machines 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim

Finishing Plant Supercalenders 2 Norwood Sheeters: 12. Trimmers: 12. Other Eqt Air Dryers. 2

Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papeterie, steel plate, patent office board, gravure, direct process and negative 100 tons daily, total of Turner's Falls, Westfield, and Woronoco mills

WEST GROTON

Groton Leatherboard Co. 01472

Tel: 617-448-6334

RR. ConRail Hwys: Near US Rte # 495 Approx Mi 10.

Eugene R Gray, Pres

Paper Mill Paper Machines. 16 Wet Machines..

Effluent Treatment. Primary Treatment: and. Secondary Treatment: .

Products. Stereotype dry mats.

Paper Mill Is Idle.

Hollingsworth & Vose Co. 01472

Tel: 617-448-3311 Telex: 928459

RR: ConRail siding. Hwys: US Rte # 40. State Rte # 2A.

John J Fawcett, Mill Mgr
Jerome Rizzo, Gen Supt
Paul Elsesser, Tech Supt

Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners: Bauer Centricleaners.

Paper Machines. 1 Fourdrinier 66" Width 60" Trim
Rotoformers: 1 65" width, 58" trim.
Rotoformers: 1 120" width, 110" trim.

Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil. Press.. 150

Electricity: Freq, phase: 60, 3

Water Treatment. Daily Usage. 5,000. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.

Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily.

WEST SPRINGFIELD

★**Preco Corp.**

Headquarters Location. See Executive Offices section for more details.

Premoid Corp. (Sub. of Preco Corp.) Front St. 01089

Tel 413-736-4554

RR ConRail siding Hwys: US Rte # 20 Near State Rte = Mass Tnpke Approx Mi 4

Charles S Sweitzer, Pres
F.B. Comery, Vice Pres, Sales
Neil S Balfour, Vice Pres, Mfg
J.A Cancelliere, Vice Pres, Coating Div
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J. Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr

Pulp Processing Washers Sidehill

Paper Mill Stock Preparation Pulpers. 1. Screens. 2 Refiners 1 Jordans 1

Paper Machines 1 Fourdrinier 72" Width 60" Trim Coaters off Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator

Finishing Plant Rewinders 1 Sheeters 1 Other Eqt 1-60" two-station roto-gravure printer, 3-60" roll embossers

Water Treatment. Daily Usage. 400 M.g.p.d Source River Primary Treatment: Yes

Effluent Treatment. Primary Treatment None Effluent to municipal plant

Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089

Tel 413-732-5141 Telex 955-484

RR ConRail siding Hwys US Rte # 91,20

John H Southworth, Pres, Treas
Kent Tarrant, Vice Pres, Sec
E Randall Baker, Supt
Elio Viecelli, Asst Supt

Paper Mill Stock Preparation: Pulpers: 2. Beaters 1-1200 lb, 4-850 lb. Refiners. 1 disc. Jordans: 2

Paper Machines. 1 Fourdrinier 85" Width 70" Trim

Dryers. Size Presses: tub..

Finishing Plant. Supercalenders: 1. Sheeters: 3 Trimmers: 4.

Steam/Power. Power Boilers: 2. Fuel: Oil

Water Treatment. Source: River.

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Rag content bond, ledger, linen, typewriter, onionskin, manuscript cover, writing, watermarked deluxe bond, 15 tons daily.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111

RR: B&M. Hwys: US Rte # 20.

Donald W Bush, Supt, No. 2 Mill
Bernard J Czanowski, Supt, No. 1 Mill
Richard F Matulowitz, Chem
Alfred Letourneau, Plant Engr

Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..

Products. Mill No. 1: writing, text, cover, papeterie papers. Mill No. 2: Rag specialty, reproduction and bond papers.

MICHIGAN

ADRIAN

★**Simplex Products Group**

Headquarters Location. See Executive Offices section for more details.

ALPENA

Abitibi Corp. Building Products Div. 416 Ford Ave. 49707

Tel: 517-354-2121

RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.

P.K. De Bruhl, Plant Mgr
R.R. Stepanski, Mgr Mfg
G Manitz, Mgr Fbrctg & Fnshng
J.L Rizzardi, Mgr Maint
D Hanson, Plant Engr
S.J. Myers, Contrl Mgr
A.R. Schultz, Power Plant Supt
T.J. Kelly, Pers Mgr
F Ferrara, Plant Contr
D R. Trewartha, Plant Buyer
J.C. Lamy, Woods Mgr.

Woodhandling and Preparation Barkers: 2 26" mechanical Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).

Pulp Mill Defibrated Wood Pulp. Avg Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle.

Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation: Pulpers: 1 Jones. Refiners. 3 Bauer, 2 Sprout-Waldron pump-thru

Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim

Finishing Plant Other Eqt.: 2 20-deck presses, 1 22-deck press

Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.. 240,000. Press.. 900/300 psi

Electricity: Purchased: 100,000 kwh/day. Generated. 200,000 Turbogenerators: 1 GE 7500 kva

Water Treatment. Daily Usage. 2,000. M.g.p.d. Source River Primary Treatment: Screening.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and removal.

Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W Fletcher St. 49707

Tel: 517-354-2131

RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.

Allan M Fletcher, Pres, Treas

MHI-00200

John T Fletcher Vice Pres
R Werner Sec Pur Agt
Charles S White Gen Mgr
A J Steber Gen Supt
David Dreisbach Prod Mgr
- Pneur Paper Mill Supt
Grys Tech Dir
J Bowes Chief Engr
Clifford Crevier Fnshg Supt
John Stretchko Traffic Mgr
H S Granstrom Sales Mgr

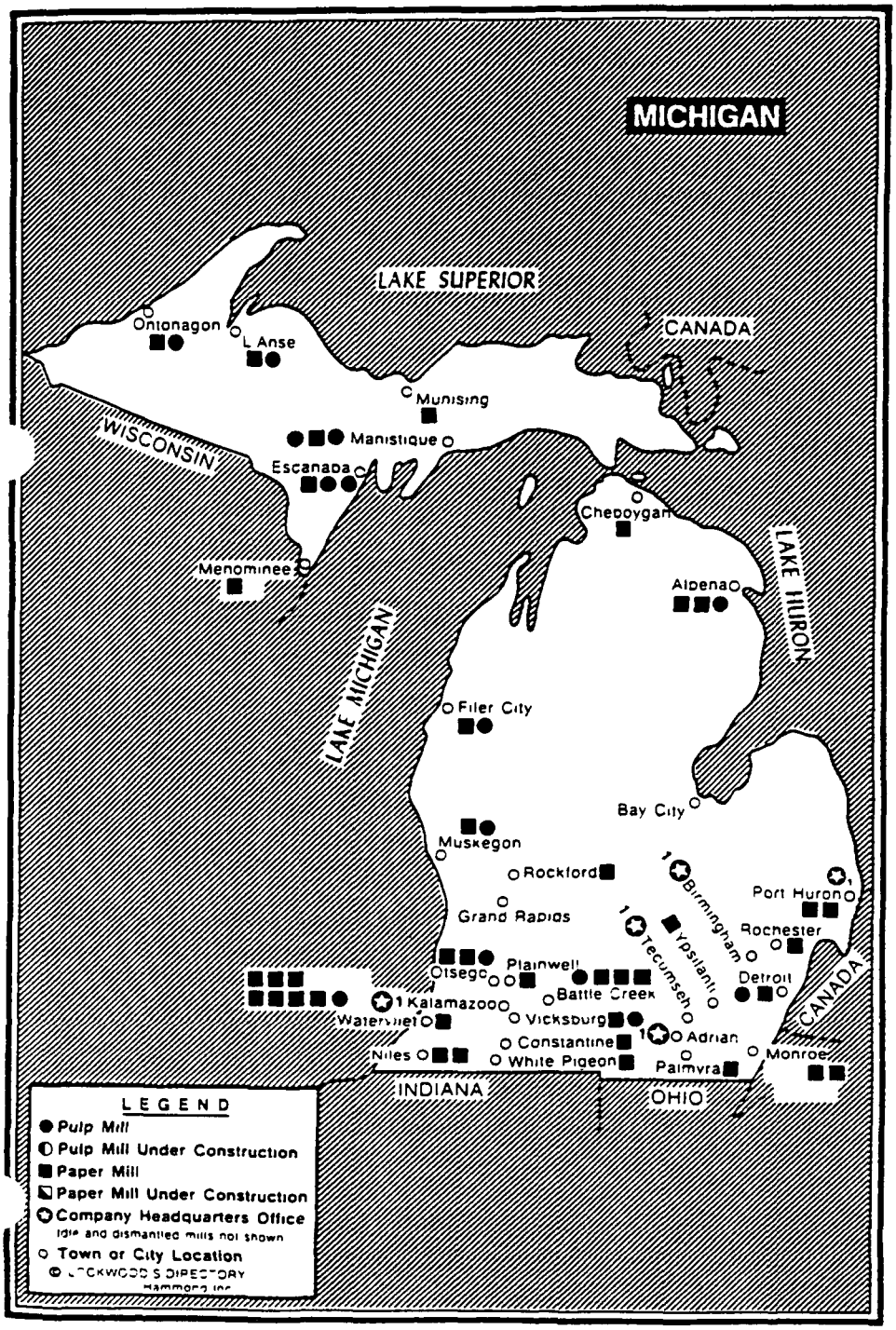
Paper Mill Stock Preparation Pulpers 3 Hydrapulpers Screens 2 Selectifier Refiners 5 Jones DD Jordans 3 Jones
Paper Machines 1 Fourdrinier 112 Width 100 Trim 750 fpm
1 Fourdrinier 112 Width 100 Trim 1400 fpm
Dryers Drums 62 Size Presses 2 Calenders 2 stacks Winders 2
Coaters off Machine 1-60 Roll Blade Gravure 10 tpd capacity
Finishing Plant Sheeters 1 72 1 100 Trimmers 3-65 72 85

Steam/Power Power Boilers 1 Fuel Gas/Oil Steam lbs hr 60 000 Press 450 psi
Electricity Freq phase 60 3 Generated 72 000 kwh/day

Water Treatment Daily Usage 700 M g p d Source Thunder Bay River Primary Treatment Yes

Effluent Treatment Primary Treatment 1 Clarifier Secondary Treatment City syst

Products. Airmail and cotton fibre bond absorbent bible offset carbonizing chart coating base filter label manifold map music onionskin opaque bond release saturating sensitizing technical wet strength and writing papers 65 tons daily



BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd (PO Box 1496) 49016
Tel 616-968 3000 Telex 223503
RR ConRail Hwys State Rte # 96 Near US Rte # IS94 Approx Mi 10
Heinz Ebers Pres & Treas
Fred Woodruff Jr Sec
Hans C Mueller Res Mgr

Pulp Mill Ground Wood Refiner Avg Daily Prod Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary 1 200 hp ROP 2U secondary

Paper Mill Stock Preparation Pulpers 1 Hydrapulper
Paper Machines 3 molding machines of own design

Products. Molded fiber products for automotive industry

St. Regis Paper Co Recycled Fiber Div Battle Creek Pprbd Mills 79 E Fountain St 49016
Tel 616-963-5511
RR ConRail GTW siding Hwys US Rte # I 94 I-69 State Rte # 66 37 89
Robert A Armstrong Res Mgr
John Hameline Mfg Supt. Fountain Mill
Leonard A Carlson Mfg Supt Angell Mill
Roger Bush Supt Fountain Mill
Thomas W Smith Supt Angell Mill
Clyde G Eckhart Tech Dir
John J Martinovich Prod Contr Supt
Wendell D Chichester Pur Agt Traf Mgr
Arthur W Miller Jr Bxbd Sales Mgr

Paper Mill Stock Preparation Pulpers 3-4000 lb and 3-3000 lb Morden Slushmaker 1 14 3-16 and 1 20 Hydrapulpers, 1 3000 lb Beaters 1-2000 lb broke Refiners 4 Hydrafiners 1 Jones DD 3 Disco 2 Bauer Jordans 15
Paper Machines 1 Beloit Bel Bond Former 130 trim 1000 fpm
Stevens Formers 1 seven unit 120 trim 750 fpm
1 six-unit Ultraformer 98 wide 96 trim 450 fpm
Dryers Drums 283-60 Calenders 7 stacks 1 breaker stack Hi-Velocity 2 gas infrared
Coaters On-Machine Air Knife 1 130 1-98" 1-122 On-Machine Trailing Blade 1-130" 1-98 1 122 On Machine Rod 2 130

Steam/Power Power Boilers 3 Fuel Oil/Gas Steam lbs hr 240 000
Electricity Purchased 2 500 kwh/day Generated 7 500 kwh/day Turbogenerators 2-8500 kw/kva

Water Treatment. Daily Usage 5 000 M g p d Source River

Effluent Treatment Primary Treatment Yes Effluent to joint industrial/municipal plant

Products White clay coated white lined news bending chip 565 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co S Main St 49721
Tel 616-627 5664
RR D&M siding Hwys US Rte # 27
H A Bullard Plant Mgr

Paper Mill Paper Machines Yankee Fourdrinier 136 Width 130 Trim
Yankee Fourdrinier 136 Width 130 Trim

Products Sanitary tissue

CONSTANTINE

Simplex Products Group Centreville Rd 49042
Tel 616-435 2425 Telex 510 398 5730
RR ConRail siding Hwys US Rte # 131
Desmond A Holt Plant Mgr
Dick Runyan Mill Supt
Bill Edmonson Plant Engr
Wayne Kendricks Tech Mgr
Dick Thomas Cnvtg Supt

MHI-00201

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE. 312/664-5700
THE PAPER TIGERS

Jack Banard Shppg /Rcvng Supt
Ed Brown, Office Mgr

Paper Mill Stock Preparation Pulpers 2 Screens 2 Refiners 2 1 deflaker Jordans 2 Other Eqt. 1 disc filter
Paper Machines Seven-Cylinder 112" Width 104" Trim
Dryers Drums 4 sets hi-stack.
Finishing Plant Other Eqt. Laminators 2. Die Presses 2

Steam/Power. Power Boilers 2 Fuel Gas/Oil Press 150
Electricity Freq, phase 440 v, 60, 3 Purchased 100%

Water Treatment. Daily Usage, 70 M g.p d Source River

Effluent Treatment. Primary Treatment: None Effluent to municipal plant

Products. Chipboard 100 tons daily

DETROIT

Port Huron Paper Co. 9125 W Jefferson Ave 48209

Tel 313-842-0042
RR ConRail siding, Rouge Yard Hwys US Rte # I-75
Fred Christiansen Paper Mill Supt
James W Woodson Tech Dir
Donald Grace, Plant Engr
Linda DiNard Chief Consumer Rep
T Willadsen Fnshg Supt
Charles G Allen, Safety & Srvcs Mgr
Robert Kendau Acctg Mgr
Harold B Randolph Pur Agt
R P McConkie Plant Traffic Mgr
William H Cope Pers Mgr
Lloyd H Jewell Sales Mgr Warren Grades

Pulp Mill Deinked Pulp Avg Daily Prod 60 tons

Paper Mill Stock Preparation Pulpers 3 Liebeck, 1 Pulpmaster 1 Dualator 2 Slushmaker 2 Jones, 1 Hymac Refiners 5 double disc, 1 Morden Jordans 5
Paper Machines 2 Yankee MG Fourdrinier 132' Width 124 Trim
1 Yankee Fourdrinier 136 Width 124' Trim
1 Yankee Fourdrinier 142 Width 120' Trim
Dryers Yankee 4
Finishing Plant Other Eqt Toilet tissue and napkin converting machinery

Steam/Power Power Boilers 3 Fuel Gas/Oil
Electricity Generated 100%

Water Treatment. Daily Usage (n a) M g p d Primary Treatment Yes

Effluent Treatment. Primary Treatment: City System

Products. Toilet napkin wiper waxing toweling, foil mounting wrapping lightweight specialty papers 200 tons daily Packaged products roll toilet tissue napkins wipes

ESCANABA

Escanaba Paper Co (Sub of Mead Corp, Publishing Paper Div) 49829

Tel 906-786-1660
RR C&NW Soo Line sidings Hwys US Rte # 2 41 State Rte # 35
S S Benedict Pres Gen Mgr
James M Owens Vice Pres Mfg
Gerald R Gould Vice Pres Admin
W R O Donnell Vice Pres Mktg
Gary Butryn Kraft Mill Mgr
O C Christiansen Tech Dir
Kenneth Clark Mgr Pprmkg & Ctg
G Eastin Qual Mgr
H D Hamilton Mgr Plant Engrg
J L Parr Enviro Control Tech Dir
J F Schneider Sales Srvc Mgr
J C Huskey Contr
Richard E Nelson Mgr Matls
T J Gregoire Dir Ind Rels
R Tompkins, Pub Rels Mgr
Erm Venuto Gen Mgr Woodlands

Woodhandling and Preparation Log Handling Live decks Chip Handling Rader pneumatic system Barkers 2-12 x 80 drum 1-22" Nicholson hydraulic Hogs 1 Gruendler bark Chippers 2 15 knife 112" disc, 1 84' Nicholson Chip Screens 1 KMW

Pulp Mill Kraft Avg Daily Prod Bl Swd 200 tons Bl Hwd , 400 tons of which 400 tons is Market Pulp Batch Digesters 6-6,500 cu ft. each
Ground Wood, Refiner Avg Daily Prod Bl Hwd , 150 tons Refiners 4 primary, 2 secondary Sprout Waldron 42-18 disc.
Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W, 2 400,000 lbs solids/day 300,000 lbs steam/hr at 1500 psi, 950°, Electrostatic Precipitators 1 Western Precipitation Lime Kilns 1 Allis-Chalmers Gas Scrubbers 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers 1 8 x12' D-O Recausticizing System: Dorr-Oliver
Bleach Plant. Sequence Gwd 1 stage Kraft: C-E-D-E-D Chlorine Dioxide System: Hooker SVP system
Pulp Processing Knotters Gwd 2 A-C vibrating. Kraft: SW Hooper centrifugal Drainers Gwd. 1 Morden, 1 Bauer Helipress Stock Refiners: Gwd 2-26" S-W Twin-Flo Rejects Refiners Gwd 1 Bauer Screens Gwd 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft: Bird Centrisorters. Cleaners Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd 1-8'x16' Impco bleach Kraft. 3-13½ x24' Impco brown stock. 5-13½'x24 Impco bleach Washers Gwd 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac Kraft 1-13½ x24' Impco
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying 166' width, 155" trim, 1300 fpm 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers 2 Hydrapulpers, 2 continuous Morden 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300 Width 274" Trim 3000 fpm
Dryers Size Presses 2 Calenders 2 stacks Reels 2 Re-reelers
Coaters off Machine Trailing Blade 2-286" 2-172' double blade for C2S off Machine Cap Coated Paper 500 tons
Finishing Plant Supercalenders 2-278 9-roll Appleton Roll Wrapping Eqt Lamb-Grays Harbor automatic Rewinders 3-2 drum 156 Cameron, 2-MIR - 278" Cameron Sheeters 3 - Hamblet Trimmers 4 Seybold

Steam/Power. Power Boilers 3 Fuel Oil/Gas/Bark Steam lbs hr 1 000 000 Press 400/1500
Electricity Freq phase 60 3 Installed H P 75,000 Generated 50 000 kwh/day Hydroelectric 2,000 kwh/day Turbogenerators 48 000 kwh/day

Water Treatment Daily Usage 28 000 M g p d Source Lake Michigan Primary Treatment. Sand filters

Effluent Treatment Primary Treatment Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier

Products Coated book and publication papers 600 tons daily Kraft hardwood market pulp 400 tons daily

FILER CITY

Packaging Corp of America 49634

Tel 616-723-9951
RR C&O siding Hwys US Rte # 31
J L Ham Vice Pres & Mgr
L.L Huffman Prod Mgr
C F Mills Tech Dir
D J Elliott Engrg Mgr
T A Kirsch Office Mgr
M R Mysliwiec, Dir Ind Rels
R F Davis Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity 26 000 Cords Barkers 1 12 x80' FMP Chippers 1 112 12-knife Chip Screens 2 HiCap

Pulp Mill Semi-Chemical, NSSC Avg Daily Prod 600 tons Continuous Digesters 3 Pandia
Chemical Recovery Plant Evaporators 2 multiple-effect Recovery Boilers 1 B&W
Pulp Processing Stock Refiners 3 American Defibrator Screens 2 Washers 4 Vacuum, 5 screw press

Paper Mill Stock Preparation Pulpers 3 Screens 3 Refiners 5 Jones disc 4 Sutherland Jordans 7 Miami
Paper Machines 1 Fourdrinier 174" Width 158' Trim 1000 fpm
1 Fourdrinier 172" Width 157" Trim 1000 fpm
1 Fourdrinier 160' Width 148" Trim 750 fpm
Dryers Drums 148-60" dia

Steam/Power. Power Boilers 4 Fuel Oil/Gas. Steam lbs hr 600,000 Press. 610
Electricity Purchased 25,000 kwh/day Generated 475,000 kwh/day Turbogenerators. 3-21,875 kva total

Water Treatment. Daily Usage, 20,000 M.g.p.d Source River, Lake

Effluent Treatment Primary Treatment 2 Clarifiers Secondary Treatment: Aeration pond

Products. Corrugating medium, 625 tons daily

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div (Sub of SCM Corp) 2030 Portage St 49001

Tel 616-345-7131
Headquarters Location See Executive Offices section for more details
RR: ConRail sidings Hwys US Rte # IS 94, 131 State Rte # 43,96
T E Flanagan Vice Pres Mfg
J D Nisbet, Vice Pres Sales
Kenneth Sweet Prod Mgr
A E Vickery, Engrg Mgr
D A. Falvey, Asst Engrg Mgr
D C Kirk Jr Tech Dir
W J Haselow, Mgr Qual Control
H D Peeters, Mgr Prod Sched
U G Stoeffler, Mgr Proc Devl
G F Mahoney Natl Sales Mgr
J.L Curtis, Sales Mgr Kalamazoo
B L Rasmusson, Dir Prchsg
J R Bowen Traf Dir
R Mirkin Mktg Mgr

Steam/Power Power Boilers Fuel Oil/Gas

Water Treatment. Source River Wells

Effluent Treatment Primary Treatment 2 clarifiers

Products. Adding machine bible bond (airmail, cotton, fibre, sulphite), coated and uncoated book, end leaf duplicator foil mounting, gift wrapping, label, map mimeo offset opaque, register, sensitizing, text, vellum xerographic, litho chart, music, watermark, 450 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Coated two sides matte finish book, 100 tons daily.

Allied Paper Inc. Bryant Mill 2030 Portage St 49003

Edward O Arnold, Mill Supt

Paper Mill Paper Machines 1 Fourdrinier 137" Width 124' Trim
1 Fourdrinier 139' Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters off Machine C2S Fountain Blade 126' trim C2S Reverse Roll, 74 ' trim Air Knife, 72' trim
Finishing Plant Supercalenders Rewinders Sheeters Trimmers Other Eqt automatic counters

Allied Paper Inc. Monarch Mill Cork St 49003

Robert Dennany, Mill Supt

Paper Mill Paper Machines 1 Fourdrinier 126" Width 108 Trim
1 Fourdrinier 133 Width 112" Trim

Brown Co. Specialty Papers Div 243 E Paterson St 49007

Tel 616-383 5000
RR ConRail CK & S siding Hwys US Rte # 12 131, I-94 State Rte # 43
Frank A Somers Vice Pres, Div Gen Mgr
Andrew T Muha Vice Pres Opers
William Fredericks Mgr Ppr Mfg & Matl Hndlg

MHI-00202

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • UNBLEACHED KRAFT PULP
0 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Ron Fleckenstein, Mgr, Cnvtg Mfg & Ind Engrg
Harry Pratley, Mgr, Qual Control
Duane Feldmann, Mgr, Engrg, Maint & Util
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alrick, Supt, Matl Hndlg & Shppg
Ken Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Bruce Blakeman, Ind Rels Mgr
Keith N Bartlam, Dir, Sls & Mktg
Stephen Parker, Mgr, Sls & Mktg, Fine Ppr
Thomas A Roy, Mgr, Sls & Mktg, Flex Pkg
Carl R Cooper, Mgr, Sls & Mktg, Ind & Cnvtg Ppr
Louis Cortigene, Mgr, New Pdct Devl
Robert Russell, Mgr, Adm & Plnng

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb, and 2-4000 lb, Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb, Hydrapulpers. Beaters: 2 2500 lb, Vortex, 3 2500 lb, Horne, 2 2000 lb, Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen, Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine. Air Knife: 1. Blade: 2. Solvent: 1.
Finishing Plant. Supercalenders: 2 Rewinders: 7 Sheeters. 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.
Steam/Power. Power Boilers: 3. Fuel Gas/Oil Steam, lbs hr.: 400,000.
Water Treatment. Daily Usage, 5,000 M.g.p.d. Source: Well.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration lagoon
Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1, 120 tons daily Mill No 2 280 tons daily

Brown Co. Recycled Paperboard Div, 243 E Paterson St, 49007
Tel: 616-383-5000
RR: ConRail, CK & S siding Hwys US Rte # 12, 13, I-94 State Rte # 43
Norman K Ryan, Vice Pres, Mfg
John Stevens, Vice Pres, Sls & Mktg
Richard Bennett, Prod Mgr Pprbd
Bruce Lurvey, Supt, Plt 4
John Harrison, Supt, Plt 7
Gene Ackermann, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker Beaters 1 continuous broke Refiners 8 Hydrafiners, 2 Morden stockmakers Screens: 21 Jordans 10
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife 2.
Extrusion Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant. Other Eqt. 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators
Steam/Power. Power Boilers 4 Fuel: Gas/Oil Steam, lbs hr 300,000
Water Treatment. Daily Usage, 4,000 M.g.p.d Source Deep well
Effluent Treatment. Primary Treatment: City syst
Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div, 2425 King Hwy (PO Box 2738) 49003
Tel: 616-382-2890 Telex: 810-277-2618
RR: ConRail, GTW, siding. Hwys: US Rte # I-94.
William R Walsh, Res Mgr
Jerry Robinson, Prod Mgr
Del Van Bruggen, Paper Mchne Supt
Earl Vining, Paper Mchne Supt
David DeKam, Tech Dir
Fred J Shelton, Chief Engr
Ronald Bush, Plant Contr
John P Gideon, Pur Agt
James H Cox, Traffic Mgr
David Boring, Pers Mgr

Pulp Mill Deinked Pulp: Avg. Daily Prod.: 200 tons Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd.
Bleach Plant. Sequence: 1 Hypochlorite/Hydrosulphite stage. Towers: 1 downflow.

Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb. Jordans: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Supercalenders: 2 90". Rewinders: 2 95"
Steam/Power. Power Boilers. Fuel: Gas/Oil. Steam, lbs hr.: 350,000 Press.: 450/275.
Electricity: Freq, phase 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw Generated: 12,000 kw. Turbogenerators: 4.
Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system
Products. Bond, offset, label, postcard, 400 tons daily

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled

National Gypsum Co. 2305 E. King Hwy 49003
Tel: 616-343-1579
RR: ConRail siding. Hwys: US Rte # 12
J.B Harvey, Plant Mgr
J Weber, Prod Supt
Lee Webster, Maint Supv
F.B Mack, Steam Engr
J.P Schiebergen, Qual Supv
D R. Thompson, Office Mgr
Carl Groesbeck, Plant Buyer

Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 3 Sprout Waldron Jordans 2 Shartle
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 200 fpm
Dryers Drums 110 Infrared 30 Calenders: 1 stack.
Finishing Plant Rewinders 1
Steam/Power. Power Boilers 2 Fuel Gas/Oil Steam, lbs hr 70 000
Electricity: Purchased: 48,000 kwh/day
Water Treatment. Daily Usage, 580 M.g.p.d Source: Wells, City
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Gypsum board liner, 145 tons daily

L'ANSE

Celotex Corp. Sub of Jim Walter Corp PO Box 86 49946
Tel 906-524-6101
RR: Soo Line Hwys US Rte # 41
L.W. Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr
D.A. Carpenter, Tech Srvc Mgr

Woodhandling and Preparation Chip Handling: Chain, belt conveyors. Chippers: 1 85" Charthage. Chip Screens: 1 three-deck Dillon

Pulp Mill Defibrated Wood Pulp. Continuous Digesters: 3 Defibrators.
Pulp Processing: Stock Refiners. 3 Asplund disc.

Paper Mill Stock Preparation: Pulpers: 1 Black Clawson continuous Hydrapulper. Refiners: 3 36" Bauer double disc, 1 Sprout Waldron single disc, 1 Claflin. Consistency Regulators: Brammer type. Deckers: 1 Dorr Oliver 8' X 16', 2 Davenport disc presses.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater, Asphalt roll coater

Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.
Products. Building board, perforated and unperforated tile, other interior finish products, sheathing and other exterior insulation board products, mineral board products, 270 tons daily

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. PO Box 111 49854
Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2
Leif Christensen, Vice Pres, Gen.Mgr
Donald Klagsted, Pulp Mill Supt
Harry Hastings, Paper Mchne Supt
George Bouscher, Plant Engr
Audun Grimnes, Prod Control Mgr
Francis J Kasun, Pur Mgr
Al Schuster, Sales Mgr
Walter Alexander, Office Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds. Mobile Equipment: 2-cranes. Slashers: 1 Barkers. 1 drum Bark Presses: 1. Hogs: 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.

Pulp Mill Ground Wood, Stone Avg Daily Prod. Unbl. Swd, 90 tons Grinders 6 Voith magazine
Deinked Pulp Avg Daily Prod. 75 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan

Paper Mill Stock Preparation Pulpers: 2 Jones. Refiners 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums. 40-60" dia Size Presses 1. Calenders 1 Reels 1 Winders. 1 Cameron..
Steam/Power. Power Boilers Fuel: Coal. Steam, lbs hr 75,000 Press. 350
Electricity Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500 M.g.p.d. Source River. Primary Treatment: Yes
Effluent Treatment. Primary Treatment. Clarifier. Secondary Treatment. Settling pond.
Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858
Tel 906-863-5595
RR C&NW, CMStP&P Hwys: US Rte # 41 State Rte # 173
Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Robert Pomrenke, Cnvtg Supt
Robert Sultan, Sales Mgr
Howard Peterson, Mgr Prchsg
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr

Paper Mill Stock Preparation Pulpers: 4 Hydrapulpers Refiners 2 Claflin Jordans 5
Paper Machines Black Clawson Fourdrinier 164"

MHI-00203

SERVING THE PAPER INDUSTRY SINCE 1929
ALVIN H. JOHNSON & COMPANY, INC.
1234 Summer Street Stamford, Ct. 06905
Subsidiary of Rust Engineering Company
CONSULTING & DESIGNING ENGINEERS
Phone (203)324-1141
N.Y.(212)687-8764
PULP MILLS - PAPER MILLS - DEINKING - WATER & EFFLUENT TREATMENT

Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2 Rewinders: 4 Other Eqt.: Waxers: 5

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000
Electricity: Purchased. 7,000 kwh/day. Generated 4,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Yes.

Products. Linerboard, corrugating medium, waxing tissue, 360 tons daily. Waxed paper in rolls and sheets

MONROE

Consolidated Packaging Corp. 1521 E First St

RR: ConRail sidings. Hwys: US Rte # I-75. State Rte # 56,24A.

Paper Mill Stock Preparation: Pulpers: 8 Hydrapulper, 5 Dynapulper. Refiners: 2 double disc, 3 Hydradisc. Jordans: 14. Other Eqt.: 2 asphalt dispersion systems.
Paper Machines. Seven-Cylinder 124" Width 112" Trim 420 fpm
Seven-Cylinder 124" Width 112" Trim 420 fpm
1 Fourdrinier 132" Width 115" Trim (idle)
1 Fourdrinier 96" Width 84" Trim (idle)
Dryers Drums: 240. Size Presses: 2. Calenders: 6. Winders: 2.
Coaters, off Machine 1 72" Air Knife
Finishing Plant. Rewinders. 2 Sheeters: 2. Trimmers: 3

Steam/Power. Power Boilers: 2 Fuel: Coal Steam, lbs hr.: 175,000. Press.. 250
Electricity: Freq, phase: 220/440v, 60, 3. Purchased: 90 Mkw. Generated: 35 Mkw. Turbogenerators: 2

Water Treatment. Daily Usage, 2,500 M.g.p.d. Source Wells, Lake

Effluent Treatment. Primary Treatment: Clarifiers Secondary Treatment: Lagoons.

Products. Folding boxboards, clay coated boxboard, pasted boards, 300 tons daily
Paper Mill Is Idle

Time Container Div of Smurfit Industries Inc. 1151 W Elm Av 48161

Tel: 313-241-3220

RR: C&O siding Hwys. US Rte # 24, I-75

William Radtke, Mill Gen Mgr
Daniel Staelgraeve, Crrgtd Gen Mgr
Edward D O'Brien, Mill Prod Mgr
Robert Bert, Mill Supt
Eric Flotow, Chief Chemist
Les White, Chief Engr
Charles Robertson, Paster Supt
Delbert Broughton, Plant Contr
William A Finn, Pur Agt

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Refiners, 2 Emerson Jordans 5 Shartle
Paper Machines Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers Drums 110 Calenders 2 stacks Winders 1
Finishing Plant Rewinders 1 Trimmers 2

Steam/Power. Power Boilers Fuel: Gas Steam, lbs hr 70,000
Electricity Purchased 100%

Water Treatment. Daily Usage, 2,000 M.g.p.d Source River

Effluent Treatment. Primary Treatment: Joint municipal-industrial system

Products. Test linerboard, pasted chip, plain chip tube board, lightweight chip, panel board, 110 tons daily

Union Camp Corp. Unbleached Paper & Board Div .109 E Elm St (PO Box 588) 48161

Tel 313-241-7700

RR: ConRail Detroit Toledo Shore Line Hwys: Near US Rte # I-75 Approx Mi 1 State Rte # 56

E.D. Redman, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
A.L. Gordon, Mill Engr
H.C. Brothers, Dir, Prchsg
E.L. Kelley, Mill Sales Mgr
P.R. Berestecky, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier Refiners: 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortraps, 2 Vorject. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 3 Autoflyte Winders: 3 two-drum..

Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 340,000. Press.: 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 9850 kwh. Turbogenerators: 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.

Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: Lake Erie. Primary Treatment: None.

Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.

Products. Tube and core board, linerboard, corrugating medium, automotive, building, chip and WP chip filler and partition boards, 300 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Paper Div Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700

RR: LS&I. Hwys: State Rte # 28,94.

Richard H Boehm, Div Vice Pres (Neenah)
Donald R Kneepkens, Gen Mgr, Sales & Mktg (Neenah)
John E Carter, Mill Mgr
James R Ward, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
Rudy E Kelto, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt

Paper Mill Stock Preparation Pulpers: 4 Screens: 2. Refiners 2 Jordans 2
Paper Machines 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 3 Saturators: 5
Finishing Plant. Supercalenders 1-94" Rewinders: 5 Sheeters, 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator

Water Treatment. Daily Usage, 5,000 M.g.p.d Source: Lake Superior

Effluent Treatment. Primary Treatment: Yes.

Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 85 tons daily

MUSKEGON

Tekmold Inc 2850 Lincoln St

Products. No longer making molded pulp products Paper Mill Is Dismantled

S.D. Warren Co. Div of Scott Paper Co. 2400 Lakeshore Dr 49443

Tel: 616-755-3761 Telex 510-394-4300

RR C&O siding Hwys: US Rte # 16,31,196. State Rte # 46

H.J Roehner, Res Mgr
P T Kirk, Prod Mgr
C.S Russell, Mgr Srvcs
John S Moran Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
J W Decker Asst Pulp Mill Supt
A.N. Robinson, Paper Mill Supt
W.A. Watermam Asst Paper Mill Supt
J.R. Johnston, Socity Paper Mgr
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
D.L. Tyler, Qlty Cntrl Dir
D.R. Burling, Fnshg/Shpg Supt
R.W. Bickowski, Steam/Power Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr
W.B. Ryde, Wood Prcmnt Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane. Flume. 1. Log Handling: Drag and belt conveyors Chip Handling: Rader pneumatic system. Sawdust Handling: Rader pneumatic system. Chip Unloaders: Hydraulic truck dumper. Barkers: 1-30 cds/hr Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood: 300 cds swd, 200 cds hwd.

Pulp Mill Kraft. Avg Daily Prod.: Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquor Oxidation System: Champion system Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing. Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco Other Eqt.: 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.

Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro Size Cookers 1 continuous, 3 batch.
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 x 8", 55 and 69 60" dia. Hi-Velocity 2 Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders 2 two-drum..
Coaters, On-Machine Trailing Blade, 1-163" puddle, 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.. D.J. Murray system Rewinders 3 Langston Sheeters: 1 Lenox folio, 3, 100" to 112" Trimmers: 3-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.. Signode system

Steam/Power. Power Boilers. 3 Fuel: Coal/Oil. Steam, lbs hr 500,000 Press. 500
Electricity Freq, phase: 60, 3 Purchased: 3,500 kwh/day Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw

Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco

Effluent Treatment. Primary Treatment: County spray irrigation system

Products. Machine coated book, litho, text, cover, specialty papers 400 tons daily

NILES

French Paper Co. 100 French St (PO Box 729) 49120

Tel. 616-683-1100

RR ConRail siding Hwys US Rte # 31,12. State Rte # 60,51

J E French Pres, Treas.
B R Bigford, Exec Vice Pres, Sales Mgr
T R Friedrich, Vice Pres, Mfg
R.D Clark, Vice Pres Sec
R.A Engberg, Chief Engr
R. Etzcorn, Pur Agt

Paper Mill Stock Preparation Pulpers: 3 Dynapulper, 1 Slushmaker Refiners 2 Claflin, Jordans 4
Paper Machines B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers Winders 3
Finishing Plant Sheeters 3 Trimmers. 2 Other Eqt. 2 Embossers

Steam/Power. Power Boilers Fuel Coal, Press..

MHI-00204

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S AND WORLDWIDE SOURCES.
GOTTESMAN & CO., Inc. • FLUFF DRIED GROUNDWOOD
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

150
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water
Water Treatment. Daily Usage, 800 M.g.p.d. Source Deep wells
Effluent Treatment. Primary Treatment Yes. Secondary Treatment: Yes
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 60 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St 49120
Tel: 616-683-4100 Telex. 258459
RR: ConRail. Hwys: US Rte # 12,31. State Rte # 60,40.
Carl L Bennett, Asst Plant Dir
Allen Strang, Paper Mill Supt
Lon Blauvelt, Dir Engrg
George Halliwell, Plant Engr
A.O. Morningstar, Plant Contr
Earl Stevens, Pur Agt
A Seaman, Distrib Mgr
Ken James, Ind Rels Dir
Robert Drobel, Ind Rels Mgr
Richard Ward, Traf Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens 1 Refiners: 4. Jordans: 1. Cleaners: 5 Consistency Regulators: 2 Other Eqt. 2 Savealls
Paper Machines Rice-Barton-Fales Single-Cylinder 136" Width 120" Trim 400 fpm
Stevens Formers: 1-162" wide, 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia Calenders: 1 7-roll, 1-2 roll. Reels 1 stock, 1 Pope Winders. 2 Shear-Cut.
Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam, lbs hr 35000 Press.: 100 psi
Electricity: Freq, phase 60, 3 Installed H P. 3,264. Purchased 32,000 kwh/day
Water Treatment. Daily Usage, 1,000 M.g.p.d Source Wells
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily

ONTONAGON

Champion Packaging Div of Champion Intl Corp 115 Lakeshore Rd 49953
Tel 906-884-4121
RR Milw Rd, siding Hwys US Rte = 45 State Rte = 64
Daniel T Potts, Vice Pres, Res Mgr
Edward Kill Tech Dir
R Howard, Paper Mill Supt
Neal Marxer Pulp/Power Supt
Robert L Fitze, Chief Engr
Robert Schon, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity 20,000 cds Chip Storage Capacity: 50,000 cds Mobile Equipment 2 Pettibone Cary-Lifts 1 Orton rail crane Chip Handling Rader pneumatic Sawdust Handling Rader pneumatic Hogs 1 Jacksonville Blow Hog Chippers, Beloit 114 14-knife Rechippers 1 Murray Chip Screens 2-Tyler Avg Daily Use of Peeled Pulpwood Hwd 500 cds
Pulp Mill Semi-Chemical NSSC Avg Daily Prod Unbl Hwd 440 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant Evaporators Zimpro wet-oxidation system
Pulp Processing Hot Stock Refiners 2 Sprout Waldron Stock Refiners 1 Sprout Waldron high consistency Washers 1 Eimco 1 Swenson
Paper Mill Stock Preparation Pulpers 3 Refiners 3 Bauer 440 5 Sprout-Waldron pump-through Screens 2 Bird Centriscreen Cleaners Bauer Centricleaners Consistency Regulators DeZurik
Paper Machines P&. Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers Drums 120 Calenders 2 Winders 2
Steam/Power. Power Boilers 1, 2 package Fuel: Coal/Oil/Gas Steam lbs hr 325 000 Press. 1500/250 psi
Electricity Freq, phase. 60, 3 Installed H.P 13500 Generated. 240,000 kwh/day Turbogenerators: 1 GE, 15,000 kw
Water Treatment. Daily Usage, 7,500 M.g.p.d. Source: Lake Superior Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall. Secondary Treatment: Activated sludge.
Products. Corrugating medium, 500 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div. PO Box 187 49078
Tel: 616-692-6211 Telex: 810-277-7240
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89
Robert A Davis, Jr., Mill Mgr
Donald B Moore, Mgr, Board Mill
R.F. Kutscher, Mgr, Srvcs
Robert Stevenson, Tech Dir
Michael L Knapp, Mgr, Power
Howard J Klein, Mgr, Supply & Distr
Ira E Johnson Jr, Mgr, Shppg & Rcvng
Linwood H Jennings, Mill Contr
Lance W Tiernan, Mgr, Cnvtg
A Rosenberger, Human Rsrcs Mgr
Ted A Olsen, Mill Mktg Mgr
Paper Mill Stock Preparation: Pulpers 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners, 2 34" Jones DD, 1 Bauer double disc Jordans: 4 Cleaners Black Clawson, Bird filler, 1 asphalt dispersion unit
Paper Machines, Eight-Cylinder 140" Width 126" Trim
Dryers, Drums 163 Calenders, 2..
Steam/Power. Power Boilers, 3 Fuel: Coal/Gas/Oil Steam, lbs hr., 134,000. Press., 875/300 psi.
Electricity: Freq, phase: 60,3 Installed H P 8000 Purchased 41,000 kwh/day Generated: 64,000 kwh/day. Turbogenerators 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage, 450 M.g.p.d Source 4 Wells Primary Treatment Chlorination Secondary Treatment: Iron stabilization
Effluent Treatment. Primary Treatment 2 clarifiers. Secondary Treatment, 2 stabilization basins, 8 aerators
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, automotive boards, 210 tons daily

Menasha Corp. Paperboard Mill N Farmer St 49078
Tel 616-692-6141
RR ConRail siding Hwys: US Rte = 131 State Rte = 89
Bruce Buchanan, Tech Mgr
R Gulbranson, Plant Engr
D Pickering, Proj Engr
D Cross Proj Engr
G Hultmark, Power Engr
Ron Thaxton Proj Engr
Lester Phillips Pur Agt
John Hanson Wood Dept Mgr
Woodhandling and Preparation Avg Daily Use of Peeled Pulpwood 500 green tons purchased chips
Pulp Mill Semi-Chemical NSSC Avg Daily Prod Unbl Hwd., 225 tons Continuous Digesters 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers Dorr Oliver fluid bed incinerator
Pulp Processing Stock Refiners 5 S-W primary, 3 Bauer 2 S-W secondary 2 DKP dewatering, presses
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Other Eqt 1 Impco disc filter
Paper Machines 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses 41 dryers
Dryers Drums: 95
Steam/Power. Power Boilers 4 Fuel Gas Steam, lbs hr 270,000 Press 600 psi
Electricity Purchased, 4000 kw Generated: 4000 kw Turbogenerators 1-4000 kw/kva
Water Treatment. Daily Usage, 2,200. M.g.p.d Source Wells
Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment Aeration ponds
Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Products Group 49268
Tel: 517-263-5160
RR: ConRail siding Hwys US Rte # 223
David L Mosher, Mill Mgr
Bill Maxam, Plant Supt
Jim Slemik, Plant Supv
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers Refiners 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines, Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi
Electricity: Freq, phase: 60, 3 Purchased: 100%.
Water Treatment. Daily Usage, 120. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily.

PLAINWELL

Plainwell Paper Co Inc. Subs of Philip Morris Industrial Inc 200 Allegan St 49080
Tel: 616-685-5851 Telex TWX: 810-277-4990
RR: ConRail siding Hwys: US Rte # 131. State Rte # 89
Richard W Detrick, Pres
Donald V Martin, Vice Pres, Gen Mgr
Richard W Flores, Mgr Mfg
Emil A Warnez, Prod Mgr, Pprmkg
Richard Thomas, Mgr Fnshng & Matl Hndlg
James C Farrand, Dir, R&D
Gary N Longworth, Mgr Engrg & Maint
Lou R Burd, Mgr Field Tech Srvs
Kay C Woodruff, Mgr Qlty Contrl
Thomas J Ryan, Mgr, Mfg Srvcs
Morris L Scott, Supt of Traffic
B.J. Bradley, Buyer
Kirby D Brown, Mgr Fin & Plnng
Michael W Howe, Mgr Ind Rels
Eugene E Reed, Dir Mktg
William M Ryan, Sls Mgr Prtng Pprs
Paper Mill Stock Preparation Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper, 1-2000 lb Solvo. Beaters 2 blending Refiners, 3 double disc. Jordans: 6. Stock Mixers: 3 blend chests
Paper Machines 1 Fourdrinier 112" Width 98" Trim 500 fpm
1 Fourdrinier 135" Width 118" Trim 750 fpm
1 Fourdrinier 135" Width 118" Trim 1000 fpm
Dryers Size Presses 3..
Coaters, On-Machine Trailing Blade, 1-117" Cap. coated paper: 100 tons daily
Finishing Plant Supercalenders: 2-65", 1-77", 1-120". Roll Wrapping Eqt 1 automated line. Rewinders 3 Sheeters 4 Trimmers: 4 Other Eqt.. 1-62" bobbin winder, 1-60" dual roll embosser
Steam/Power Power Boilers 3 Fuel Coal, Gas/Oil. Steam, lbs hr 150,000 Press., 265 psi
Electricity Freq, phase: 60, 3 Purchased: 80,000 kwh/day Generated 40,000 kwh/day
Water Treatment. Daily Usage, 2,000 M.g.p.d. Source wells
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond, secondary clarifier
Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 180 tons daily

PORT HURON

★**Dunn Paper Co.** Sub of Dennison Mfg Co. 218 Riverview St 48060
Tel 313-984-5521 Telex TWX 810-231-7053
Headquarters Location See Executive Offices section for more details

MHI-00205

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

RR. GTW siding Hwys: US Rte # I-94
James R Ishmael, Prod Mgr
Richard J Foster, Mill Engr
Robert C Green, Machine Supt
James E Ramsey, Pers Dir

Paper Mill Stock Preparation: Pulpers: 8. Refiners 14 Jordans. 2
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers Yankee. 3 12', 1 18' dia. units. Size Presses 4 Calenders. 2 Winders: 4.
Coaters. On-Machine.Roll: 1. Blade 1.
Finishing Plant. Rewinders. 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas Steam, lbs hr.. 76,000 Press.: 600/200
Electricity: Freq, phase: 60 3. Purchased: 11,000 kwh./day

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 125 tons daily

Port Huron Paper Co. 1660 Thomas St 48060
Tel: 313-982-0191
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21.25
Gordon Morseth, Pres & CEO
R.W Durand, Sr Vice Pres
Thomas R Kroll, Vice Pres, Opers
E.G Donovan, Vice Pres Mktg
D J Cairns, Vice Pres
R.S Smeltzer Vice Pres Fin
Robert L Andrews, Sec
Thomas C Noetzel, Corp Energy Mgr
L.E Rymers, Tech Dir
G.L. Genaw, Pdct Mgr, Prtg Pprs
F.W. Phare, Pers Dir

Paper Mill Stock Preparation: Pulpers. 5 Screens. 6 Refiners 50 Jordans 7 Cleaners: 6
Paper Machines Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers Drums 83 Yankee: 4 Size Presses: 5. Calenders 7 stacks Winders: 6.
Finishing Plant Rewinders. 2

Steam/Power. Power Boilers: Steam, lbs hr: purchased
Electricity Purchased 100%

Water Treatment. Daily Usage, 10,000 M.g.p.d Source River

Products. Absorbent, adding machine, anti tarnish, sulphite bond carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque tissue wrapping and specialties, MG wrapping writing, register salesbook, MG and MF lightweight dense specialty waxing tissue, 200 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div (Subs of James River Corp of Virginia) 340 Mill St 48063
Tel 313-651-8121
RR GTW siding Hwys US Rte # 10 State Rte # 150
J T Webb Vice Pres, Gen Mgr
William M Kirkland Plant Mgr
Carl W Bach Jr Plant Supt
Charles H Sorrick Cnvtg Supt
Irwin M Hutten Tech Dir
Anthony Plachta Plant Engr
Peter J Lutz, Sales Mgr, Saturtg Filter
Robert L Blome, Sales Mgr, Ind Filter
Mary Lou Deaton, Cust Srvc Mgr
Paula J McBride, Mill Acct

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers Size Presses: 1. Calenders: 1 stack..
Coaters, On-Machine.1-62" roll saturator, 20 tons daily cap
off Machine 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 2-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.. Embossers: 4 Waldron. Punch Presses: 2. Die Cutters: 1-32x60 Sheridan. Roto Presses: 1-36" 2/C Champlain. Corrugator-Impregnators: 1-50". Sewing Machines: 2.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, industrial, coffee and vacuum filter, graph, grinding wheel, impregnated specialty, flameproof; creped specialties, sewn specialties; nylon saturating, speaker cone, embossed, photo mount, matrix papers, 18 tons daily

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341
Tel: 616-866-1523
RR. Mich Nthrn. Hwys: US Rte # 131.
Robert Alspaugh, Mill Mgr
Marc Milgram, Asst Mill Mgr
Ronald Van Dyke, Maint Supt

Paper Mill Stock Preparation Pulpers: 4 Hydrapulper. Screens: 8 Refiners: 3 S-W. Jordans: 1. Cleaners: B-C Liquid Cyclone Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers Drums 15-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine Air Knife, 1 Waldron Microjet. Finishing Plant Trimmers 2

Steam/Power. Power Boilers 2 Fuel: Coal, Steam, lbs hr 50,000 Press 135.
Electricity: Freq, phase 60, 3 Installed H.P. 2100 electric, 300 water Purchased: 1500 kva.

Water Treatment. Daily Usage, 200. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**
Headquarters Location See Executive Offices section for more details

TROY

★**Abitibi Corp.** Building Products Div.
Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St. 49097
Tel 616-649-0510 Telex. 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6
Peter Lowe, Opers Mgr
David De Young, Ppr Mchns Supt
Raymond Wagner, Tech Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct
Vinnie Rawlinson, Pur Mgr
Ronald G Markan, Pers Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 48". Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 3,000. M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin.

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av. 49098
Tel: 616-463-3141
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140
Richard G Osborne, Pres
Milton F Stibal, Vice Pres, Tech
Robert Strasburg, Exec Vice Pres
R Charles Van Horn, Vice Pres, Treas
Dean D McKinney, Asst to Pres, Sec
William N Torp, Prod Mgr
Jimmie D Paskel, Coatg Supt
Edward G Cripe, Pprmkg Supt
John E Klann, Fnshg Supt
John H Matthews, Mgr Oper Srvcs

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 4 Hydradisc. Jordans, 3 Jones
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers, Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96" Rewinders. 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 2 Embossers, 62" and 53"

Steam/Power. Power Boilers 3 Fuel. Coal, Steam, lbs hr.: 90,000 Press. 235
Electricity: Installed H.P 450 water Purchased: 100%

Water Treatment. Daily Usage, 1,200. M.g.p.d. Source. wells

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. Div. of Artistic Carton Co. PO Box 277 49099
Tel: 616-483-7601
RR: ConRail siding Hwys: US Rte # 12
John A Oakes, Pres
J.V. Lamarre, Vice Pres
William Lunsford, Supt

MHI-00206

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S. AND WORLDWIDE SOURCES.
GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300

Kenneth A Shane, Plant Contr
Robert Guy Prchsg Mgr
D Stump, Sales Srvc Mgr

Paper Mill Stock Preparation Pulpers: 6 Hydrapulper Screens 8 Refiners: 2 Bauer, 1 S-W Jordans: 6 Shartle
Paper Machines Seven-Cylinder 100" Width 92" Trim 400 fpm
1 seven-unit Ultraformer, 110" trim.
Dryers. Drums. 156 Calenders: 6..
Coaters. On-Machine. Air Knife. 1-92", 1-110" off Machine 1-78"
Finishing Plant. Rewinders. 1. Sheeters: 1-112" on-machine Jagenberg. 2-72" Trimmers: 1-85".

Steam/Power. Power Boilers. 2 Fuel Oil. Steam, lbs hr. 180,000 Press. 500
Electricity Freq. phase 60. 3. Generated: 5000 kw Turbogenerators 2

Water Treatment. Daily Usage. 250. M.g.p.d Source. River

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 6 Settling Basins

Products. Clay-coated bending chipboard, 200 tons daily

YPSILANTI

Peninsular Paper Co. (Sub of James River Corp of Virginia. Curtis Paper Div) 1000 N Huron St 48197

Tel 313-482-2600 Telex: 810-223-7004
RR. ConRail siding Hwys: US Rte = I-94
Edward G Grempan Vice Pres. Res Mgr
Frank L Wright, Vice Pres Sales
Norman B Davey, Contr
Gerald Linzmeyer, Mgr Pprmkg
David Seidler, Chief Engr
William Turner, Fnshg & Shppg Supt
Natale V Cirillo, Mgr Qlty Contrl
James R Elliott, Traffic Mgr
Harold Rhora, Mgr Inside Sales

Paper Mill Stock Preparation Pulpers. 2-2000 lb Hydrapulper Refiners 1 Morden Jordans. 2 Jones standard. 1 Jones Imperial Cleaners Bauer Centricleaners Consistency Regulators Fischer Porter Stock Mixers Lightin agitators
Paper Machines Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Rotoformers 1 66" Width
Dryers Drums 52-36" dia Size Presses 2 Calenders 2 stacks Winders 2
Finishing Plant Roll Wrapping Eqt 1 line Rewinders: 1-78" Langston Sheeters 2-85", 65" Hamblet Trimmers 1-110" Lawson, 1-85" Seybold Ream Wrapping & Cartoning Hayssen banding unit. Other Eqt Embossers 3 Printer-Embossers: 1 Pasters 1 duplex

Steam/Power. Power Boilers 1 Fuel: Gas/Oil Steam, lbs hr 40 000 Press 130
Electricity Freq. phase 60 3 Installed H P 1200 Purchased 25000 kwh/day

Water Treatment. Daily Usage 500 M.g p.d Source Wells River Primary Treatment yes.

Effluent Treatment. Primary Treatment: City sewer system

Products. Colored cover and text, colored envelope colored and sulphite and bleached kraft specialties 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601

Tel 218-751-5140,1,2
RR NP siding Hwys US Rte = 2,71,371
Robert W Riley, Vice Pres. Gen Mgr
Richard C Brown Plant Supt
Donovan Gould, Master Mech
Myron Halby, Sales, Traffic Mgr

Woodhandling and Preparation Barkers 1-21" Manitowoc Chippers 1-12' Hansel Avg Daily Use of Peeled Pulpwood: Hwd. 90 cds aspen

Pulp Mill Defibrated Wood Pulp Avg Daily Prod Unbl. Hwd , 90 tons Continuous Digesters: 2 30' Grenco
Pulp Processing: Stock Refiners 1 #185 and 3 #445 Bauer

Paper Mill Paper Machines Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems.

Steam/Power. Power Boilers: 1 Fuel: Gas (oil standby). Steam, lbs hr.: 14,000. Press.: 200. Electricity: Freq. phase: 440v, 60, 3. Installed H P. 2350 electric. Purchased: 30,000 kwh/day

Water Treatment. Source: City

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 90 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401

Tel: 218-829-4741 Telex: 910-561-3508
RR: Burl Nthrn Hwys: US Rte # 210,371.
Robert V Hershey, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Edward J Daleski, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Charles O Provost, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shppg
Leonard W Bade, Mgr Ctg
David E Dinham, Pur Agt
Terrance M Trettel, Mgr Traffic

Paper Mill Stock Preparation Pulpers 1 Morden, 3 Hydrapulpers Jordans 3 Emerson, 4 Black Clawson
Paper Machines 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums. 101. Size Presses. 2. Calenders: 3 .
Coaters. off Machine. 1-112" two-station blade
Finishing Plant Supercalenders 2-121". 1-80" Rewinders. 5. Sheeters 7 Trimmers: 4

Steam/Power. Power Boilers. 3 Fuel: Gas/Coal Steam, lbs hr 132,000
Electricity: Purchased: 126,000 kwh/day Generated: 54,000 kwh/day

Water Treatment. Daily Usage. 2,300 M.g.p.d Source River Primary Treatment Infilco accelerator

Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier Secondary Treatment 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier

Products. Bond, duplicator, ledger MICR, Xerographic, map, book (coated and uncoated) offset, coated offset text and cover (gloss, matte, dull, velvet), 275 tons daily

CLOQUET

Conwed Corp. Arch and C Sts 55720

Tel. 218-879-2800 Telex 910-561-2110
RR Duluth & Nrthwstrn, BN Milw siding Hwys Near US Rte = 61 IS-35 Approx Mi 3 State Rte = 33,45
J.W King, Vice Pres, Plant Mgr
E C Erickson, Mgr, Engrg Srvcs
S A Holloway, Mgr Bd Mfg
R W Bohren, Mgr Blanket Mfg
T.G Johnson, Mgr Corp Engrg & Constr
A.M Crewson, Engrg Consult
L J Palmer Mgr Pur
R.A Johansen, Corp Traf Mgr
J A Manisto, Mgr Qual Control

Paper Mill Paper Machines 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Tufflex Mill B 1 Former and dryer, 114" width, 110" trim
Tufflex Mill C 1 Former and dryer, 114" width, 100" trim
Fabrics Mill 1 Curlator-Rando feeder and webber, impregnator and dryer, 80' trim
Coaters On-Machine Roll, 3 in board mill
off Machine 9 Spray and 3 curtain in board mill

Steam/Power Power Boilers Fuel Coal/Gas/Oil Press.. 275
Electricity Freq. phase 13,800v 60 3 Installed H P 34,000 Purchased 100%

Water Treatment. Daily Usage 800 M g p d Source River

Effluent Treatment. Primary Treatment Yes.

Products. Board mill mineral ceiling panels and decorative tile Tufflex Mill: Homogenous wood fiber cushioning and protective padding Fabrics Mill Non-woven fabrics

★**Potlatch Corp.** Northwest Paper Div 55720

Tel: 218-879-2300 Telex: 910-561-2113
Headquarters Location See Executive Offices section for more details
RR: Burl Nthrn, Duluth & Nrthestrn RR. Hwys. State Rte # 33,45
Edwin F Erickson, Plant Mgr
James W Kovala, Asst Plt Mgr
William H Erickson, Mgr Ppr Mfg
Roger L Adams, Mgr Tech Srvc
David P Rawski, Mgr Ctg
Earl J DeRocher, Mgr Pulp Mfg
David A Olsen, Mgr Mech Srvc
James A Nelson, Mgr Fnshg & Shppg
Charles R Williams, Mgr Empl Rels
Lester V Blinn, Pur Agt
Richard J Brenner, Plant Contr
Veikko E Taipale, Mgr Traffic

Woodhandling and Preparation Roundwood Storage Capacity: 120,000 cds. Barkers. 2 drum Chippers 1-64", 10 knife. 1-84", 12 knife: 1-96", 15 knife Chip Screens: 3. Avg. Daily Use of Peeled Pulpwood: 300 cds swd. 500 cds hwd.

Pulp Mill Kraft Avg Daily Prod.: Bl. Swd , 140 tons Bl. Hwd.. 300 tons Batch Digesters 9
Sulphite, Calcium Base. Avg. Daily Prod.. Bl Hwd., 120 tons Batch Digesters: 3 (mill is idle)
Chemical Recovery Plant, Evaporators: 1 six-effect Unitech with concentrators, 1 Six-effect Swenson. Recovery Boilers 1 B&W. Lime Kilns: 1 Recausticizing System: 1
Bleach Plant. Sequence: Pine Kraft: C-E-H-E-D Hwd Kraft. C-E/H-D
Pulp Drying Wet Machines. 1 Impco feltless

Paper Mill Stock Preparation: Pulpers 4 Hydrapulpers. Refiners. 8 Jordans: 6
Paper Machines 1 Fourdrinier 101" Width 86" Trim 860 fpm
1 Fourdrinier 123" Width 107" Trim 950 fpm
1 Fourdrinier 124" Width 107" Trim 950 fpm
1 Fourdrinier 216" Width 192" Trim 1300 fpm
Dryers Size Presses 4
Coaters, off Machine Trailing Blade. 1-130"
Finishing Plant Supercalenders: 2-90", 130". Rewinders 3 Sheeters 8. Trimmers 11.

Steam/Power. Power Boilers. 7 Fuel. Coal/Gas-/Oil/Bark. Steam, lbs hr.. 350,000
Electricity Purchased 125,000 kwh/day Generated 324,000 kwh/day

Water Treatment. Daily Usage. 17,000 M.g.p.d Source River. Lake Superior

Effluent Treatment. Primary Treatment. Yes

Products. Bond duplicator, ledger, mimeograph, coated and uncoated book, writing, cover, text, opaque, coating base, MICR, tripurpose, embossed cover text, coated and uncoated offset, litho, coated and uncoated web, xerographic papers, 330 tons

DULUTH

★**Superwood Corp** 14th Av W and Waterfront St 55802

Tel 218-727-6891
Headquarters Location See Executive Offices section for more details
RR NP siding Hwys US Rte = 2,53,61
D Swanum, Proc Mgr
Yarley Johansen Steam Engr
Bruce Ellefson Traffic Mgr

Woodhandling and Preparation Chippers 1 10-knife Chip Screens 2 Avg Daily Use of Peeled Pulpwood: 325 cds

Pulp Mill Defibrated Wood Pulp Avg Daily Prod.: 350 tons Continuous Digesters: 1 Asplund Defibrator and 3 42" ICP Sprout Waldron refiners
Pulp Processing Stock Refiners 4 36-2 Sprout Waldron

Paper Mill Paper Machines 5 hardboard machines, with 2-4 x8', 1-5 x9', 1-4'x16' and 1-5.5'x16' presses

Steam/Power. Power Boilers. 5 Fuel Gas/Oil

MHI-00207

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • SEMI-BLEACHED KRAFT PULP
100 PARK AVENUE, NEW YORK, N.Y 10017 212-532-7300

Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily.

WEST SPRINGFIELD

★Preco Corp.

Headquarters Location. See Executive Offices section for more details.

Premoid Corp. (Sub. of Preco Corp.) Front St 01089

Tel: 413-736-4554
RR: ConRail siding. Hwys: US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4.
Joseph H Torras, Chmn & CEO
Robert W Ackerman, Pres & COO
F.B. Comery, Vice Pres, Sales
Neil S Balfour, Vice Pres, Mfg
J.A. Cancelliere, Vice Pres, Coating Div
Howard H Stevenson, Vice Pres, Adm
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J. Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers: 1. Screens: 2. Refiners: 1. Jordans. 1.
Paper Machines. 1 Fourdrinier 72" Width 60" Trim Coaters, off Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator.
Finishing Plant. Rewinders: 1 Sheeters: 1. Other Eqt.. 1-60" two-station roto-gravure printer, 3-60" roll embossers.

Water Treatment. Daily Usage, 400 M.g.p.d. Source River Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.

Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089

Tel: 413-732-5141 Telex: 955-484
RR: ConRail siding Hwys. US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
E Randall Baker, Supt
Elio Viecelli, Asst Supt
John F Hamel, Treas
David C Southworth, Sec

Paper Mill Stock Preparation Pulpers. 2 Refiners. 2 disc Jordans: 2.
Paper Machines 1 Fourdrinier 85" Width 70" Trim Dryers. Size Presses tub.
Finishing Plant Supercalenders 1 Sheeters. 3 Trimmers 4

Steam/Power. Power Boilers: 2 Fuel. Oil

Water Treatment. Source River

Effluent Treatment. Primary Treatment: Effluent to municipal system

Products. Rag content bond typewriter onionskin, manuscript cover, writing papers, 15 tons daily

WORONOCO

Strathmore Paper Co. 01097

Tel. 413-568-9111
RR: B&M Hwys US Rte # 20
Donald W Bush Supt. No 2 Mill
Bernard J Czanowski, Supt No 1 Mill
Richard F Matulowitz, Chem
Alfred Letourneau, Plant Engr

Paper Mill Paper Machines Equipment listed under Westfield MA mill.

Products. Mill No 1 writing, text, cover papeterie papers Mill No 2 Rag specialty, reproduction and bond papers

MICHIGAN

ADRIAN

★Simplex Products Group

Headquarters Location. See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Div. 416 Ford Ave. 49707

Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.
P.K. De Bruhl, Plant Mgr
R.R. Stepanski, Mgr Mfg
G Manitz, Mgr Fbrctg & Fnshng
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
F Wheeler, Tech Mgr
A.R. Schultz, Power Plant Supt
T.J. Kelly, Pers Mgr
F Ferrara, Plant Contr
D.R. Trewartha, Plant Buyer
J.C. Lamy, Woods Mgr

Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).

Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.: 430 tons Batch Digesters 4 Bauer Rapid-Cycle. Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation Pulpers: 1 Jones. Refiners. 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.. 2 20-deck presses, 1 22-deck press

Steam/Power. Power Boilers 3 Fuel: Coal/Wood Waste. Steam, lbs hr 240,000 Press.. 900/300 psi
Electricity: Purchased 100,000 kwh/day. Generated 200,000. Turbogenerators: 1 GE 7500 kva.

Water Treatment. Daily Usage, 1,500 M.g.p.d. Source River Primary Treatment: Screening

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration Lagoons Tertiary Treatment: Sludge dewatering and drying.

Products. S1S and S2S hardboard 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W Fletcher St 49707

Tel: 517-354-2131
RR: D&M siding Hwys US Rte # 23 State Rte # 32
Allan M Fletcher, Pres, Treas
John T Fletcher, Vice Pres
R Werner, Sec, Pur Agt
Charles S White Gen Mgr
A.J Steber, Gen Supt
T Prieur, Paper Mill Supt
David A Driesbach Tech Dir
R.J Bowes, Chief Engr
Clifford Crevier Fnsng Supt
John Stretchko, Traffic Mgr
Elbert M Heath, Sales Mgr

Paper Mill Stock Preparation Pulpers 3 Hydrapulpers Screens 2 Selectifier Refiners 5 Jones DD Jordans 3 Jones
Paper Machines 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers Drums 62 Size Presses: 2 Calenders 2 stacks Winders 2.
Coaters, off Machine 1-60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant Sheeters 1-72" 1-67" precision Trimmers 3-65", 72", 85"

Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam, lbs hr 60,000 Press 450 psi
Electricity Freq. phase 60, 3 Generated 72,000 kwh/day.

Water Treatment. Daily Usage, 700 M g p d Source. Thunder Bay River Primary Treatment Yes.

Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment: City syst

Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 75 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd (PO Box 1496) 49016

Tel: 616-968-3000 Telex: 223503
RR: ConRail. Hwys: State Rte # 96. Near US Rte # IS94 Approx Mi 10
Heinz Ebers, Pres & Treas
Fred Woodruff Jr, Sec
Hans C Mueller, Res Mgr

Pulp Mill Ground Wood, Refiner. Avg. Daily Prod.: Thermomechanical: 30 tons Refiners: 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary.

Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper.
Paper Machines. 3 molding machines of own design..

Products. Molded fiber products for automotive industry

St. Regis Paper Co. Recycled Fiber Div, Battle Creek Pprbd Mills 79 E. Fountain St 49016

Tel: 616-963-5511.
RR: ConRail, GTW siding. Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.
Robert A Armstrong: Res Mgr
John Hamelne, Mfg Supt, Fountain Mill
Leonard A Carlson, Mfg Supt, Angell Mill
Roger Bush, Supt, Fountain Mill
Thomas W Smith, Supt, Angell Mill
Clyde G Eckhart, Tech Dir
John J Martinovich, Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
Arthur W Miller Jr, Bxbd Sales Mgr

Paper Mill Stock Preparation: Pulpers: 3-4000 lb. and 3-3000 lb Morden Slushmaker 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb. Beaters: 1-2000 lb broke. Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer. Jordans. 15.
Paper Machines. 1 Beloit Bel Bond Former, 130" trim, 1000 fpm..
Stevens Formers: 1 seven unit, 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 283-60" Calenders: 7 stacks, 1 breaker stack Hi-Velocity: 2 gas infrared..
Coaters, On-Machine. Air Knife, 1-130", 1-98", 1-122" On-Machine. Trailing Blade, 1-130", 1-98", 1-122" On-Machine.Rod: 2-130".

Steam/Power. Power Boilers 3. Fuel: Oil/Gas. Steam, lbs hr.: 240,000
Electricity: Purchased: 2,500 kwh/day. Generated: 7,500 kwh/day Turbogenerators: 2-8500 kw/kva.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant.

Products. White clay coated, white lined news, bending chip, 565 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. S Main St. 49721

Tel: 616-627-5664
RR: D&M siding Hwys: US Rte # 27
H.A Bullard, Plant Mgr

Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue

CONSTANTINE

Simplex Products Group Centreville Rd 49042

MHI-00208

Tel 616-435-2425 Telex 510-398-5730
RR ConRail siding Hwys US Rte # 131
Desmond A Holt Plant Mgr
Dick Runyan, Mill Supt
Bill Edmonson, Plant Engr
Wayne Kendricks Tech Mgr
Dick Thomas, Cnvtg Supt
Jack Banard, Shpng /Rcvng Supt
Ed Brown, Office Mgr

Paper Mill Stock Preparation Pulpers 2 Screens 2 Refiners 2, 1 deflaker Jordans 2 Other Eqt. 1 disc filter
Paper Machines. Seven-Cylinder 112" Width 104' Trim
Dryers. Drums: 4 sets hi-stack.
Finishing Plant Other Eqt.. Laminators. 2 Die Presses: 2.

Steam/Power. Power Boilers 2 Fuel Gas/Oil Press. 150
Electricity: Freq. phase 440 v 60. 3 Purchased 100%

Water Treatment. Daily Usage 70 M g p d Source River

Effluent Treatment. Primary Treatment None Effluent to municipal plant

Products. Chipboard. 100 tons daily

DETROIT

Port Huron Paper Co. 9125 W Jefferson Ave 48209

Tel: 313-842-0042
RR: ConRail siding, Rouge Yard Hwys: US Rte # I-75
P.G. Leigh, Paper Mill Mgr
C Jennings, Supt
Donald Grace, Plant Engr
L.J Sturm Tech Supt
Harold B Randolph, Pur Agt
R.P McConkie, Plant Traffic Mgr
William H Cope, Pers Mgr
Lloyd H Jewell, Sales Mgr

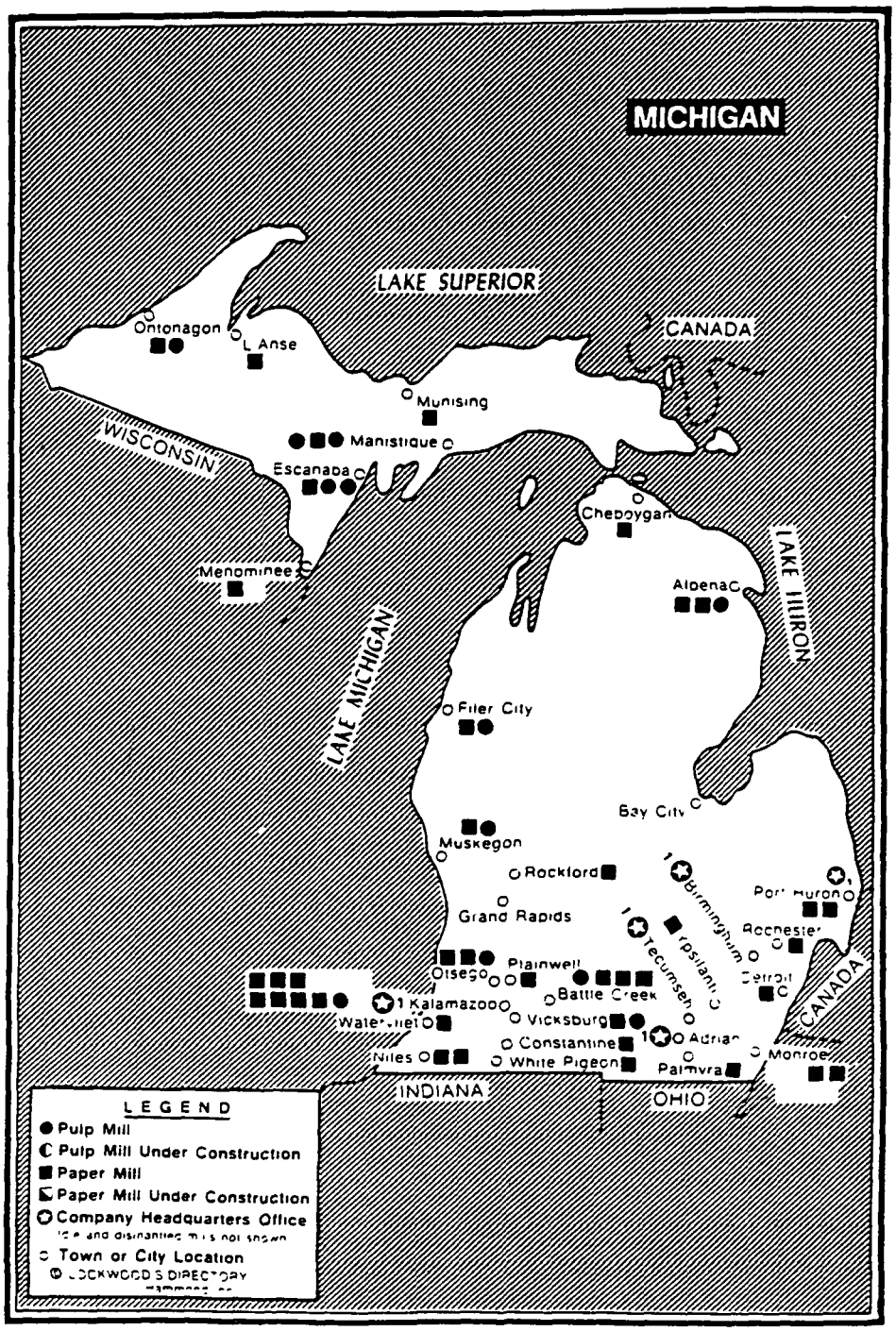
Paper Mill Stock Preparation Pulpers 4 Refiners 7 double disc. 1 Morden Jordans 5
Paper Machines 2 Yankee MG. Fourdrinier 132" Width 124" Trim
1 Yankee Fourdrinier 136" Width 124" Trim
1 Yankee Fourdrinier 142" Width 120" Trim
Dryers Yankee 4

Steam/Power. Power Boilers. 3 Fuel: Gas/Oil
Electricity: Generated. 100%

Water Treatment. Daily Usage. (n.a.). M.g.p.d. Primary Treatment: Yes

Effluent Treatment. Primary Treatment: City System.

Products. Foil mounting, wrapping, lightweight specialty papers. 160 tons daily



ESCANABA

Escanaba Paper Co. (Sub. of Mead Corp. Publishing Paper Div.) 49829

Tel: 906-786-1660
RR: C&NW, Soo Line sidings Hwys. US Rte # 2,41. State Rte # 35
S.S. Benedict, Pres. Gen Mgr
James M Owens, Vice Pres. Mfg
Gerald R Gould, Vice Pres. Admin
W.R O'Donnell, Vice Pres. Mktg
Gary Butryn, Opers Mgr
O.C Christiansen, Tech Dir
Kenneth Clark, Mgr. Pprmkg & Ctg
G Eastin, Qual Mgr
H.D. Hamilton, Mgr. Plant Engrg
J.L. Parr, Enviro Control Tech Dir
J.F. Schneider, Sales Srvc Mgr
J.C. Huskey, Contr
Richard E Nelson, Mgr Matls
T.J. Gregoire, Dir Ind Rels
R Tompkins, Pub Rels Mgr
Erm Venuto, Gen Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks. Chip Handling Rader pneumatic system. Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson Chip Screens:-1 KMW.

Pulp Mill Kraft. Avg Daily Prod. Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 400 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each
Ground Wood. Refiner Avg. Daily Prod.. Bl. Hwd., 150 tons Refiners 4 primary, 2 secondary Sprout Waldron 42-1B disc
Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers. 1 8'x12' D-O. Recausticizing System: Dorr-Oliver
Bleach Plant Sequence: Gwd: 1 stage Kraft: C-E-D-E-D Chlorine Dioxide System: Hooker SVP system
Pulp Processing Knotters Gwd: 2 A-C vibrating. Kraft SW Hooper centrifugal Drainers Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners: Gwd 2-26" S-W Twin-Flo Rejects Refiners: Gwd: 1 Bauer Screens Gwd 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft Bird Centrisorters. Cleaners Gwd: 69-body, 3-stage Bauer 606 Centricleaner Washers. Gwd 1-8'x16' Impco bleach. Kraft. 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach Washers: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½'x24' Impco
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys: 1 Lamb-Grays Harbor

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans: 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers Size Presses 2 Calenders, 2 stacks Reels:

MHI-00209

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • EXPORT WOODPULP
0 PARK AVENUE NEW YORK N Y 10017 212-532-7300

2 Re-reelers
Coaters, off Machine Trailing Blade, 2-286", 2-172" double blade for C2S, off Machine. Cap. Coated Paper, 500 tons
Finishing Plant. Supercalenders: 2-278", 9-roll Appleton Roll Wrapping Eqt.: Lamb-Grays Harbor automatic Rewinders: 3-2 drum 156" Cameron, 2-MIR - 278" Cameron Sheeters: 3 - Hamblet. Trimmers: 4 Seybold.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark. Steam, lbs hr., 1,000,000. Press.: 400/1500
Electricity Freq, phase 60, 3. Installed H.P 75,000. Generated: 50,000 kwh/day. Hydroelectric: 2,000 kwh/day Turbogenerators: 48,000 kwh/day.

Water Treatment. Daily Usage, 28,000 M.g.p.d Source: Lake Michigan. Primary Treatment: Sand filters.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon. Tertiary Treatment: Clarifier

Products. Coated book and publication papers, 600 tons daily Kraft hardwood market pulp, 400 tons daily

FILER CITY

Packaging Corp. of America 49634

Tel: 616-723-9951
RR: C&O siding Hwys US Rte # 31
J.L. Ham, Vice Pres & Mgr
L.L. Huffman Prod Mgr
C.F Mills, Tech Dir
D.J. Elliott, Engrg Mgr
T A. Kirsch, Office Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity, 26,000 Cords Barkers: 1 12'x80' FMP Chippers: 1 112", 12-knife Chip Screens: 2 HiCap.

Pulp Mill Semi-Chemical, NSSC Avg Daily Prod. 600 tons Continuous Digesters 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect Recovery Boilers: 1 B&W
Pulp Processing: Stock Refiners 3 American Defibrator Screens 2 Washers: 4 Vacuum, 5 screw press

Paper Mill Stock Preparation: Pulpers 3 Screens: 3 Refiners 5 Jones disc, 4 Sutherland Jordans, 7 Miami
Paper Machines 1 Fourdrinier 174" Width 158" Trim 1000 fpm
1 Fourdrinier 172" Width 157" Trim 1000 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers, Drums, 148-60" dia

Steam/Power. Power Boilers 4 Fuel Oil/Gas Steam, lbs hr 600,000 Press 610
Electricity Purchased 25,000 kwh/day Generated 475,000 kwh/day Turbogenerators 3-21,875 kva total

Water Treatment. Daily Usage, 20,000 M.g.p d Source River, Lake

Effluent Treatment. Primary Treatment 2 Clarifiers. Secondary Treatment Aeration pond

Products. Corrugating medium 625 tons daily

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div (Sub of SCM Corp) 2030 Portage St 49001

Tel 616-345-7131
Headquarters Location See Executive Offices section for more details
RR ConRail sidings Hwys US Rte # IS 94, 131 State Rte # 43 96
T E Flanagan Vice Pres Opers
J D Nisbet Vice Pres, Sls & Mktg
W Mirkin Dir Sales & Mktg
Kenneth Sweet, Prod Mgr
A.E Vickery, Engrg Mgr
D A Falvey, Asst Engrg Mgr
D C Kirk Jr Tech Dir
W J Haselow Mgr Qual Control
H.D Peeters Mgr Prod Sched
U G Stoeffler Mgr Proc Devl
G.F. Mahoney, Natl Sales Mgr
J.L Curtis, Sales Mgr, Kalamazoo
B.L Rasmusson, Dir Prchsg
J.R. Bowen, Traf Mgr

Steam/Power. Power Boilers: Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond, coated and uncoated book, end leaf, duplicator, foil mounting, gift wrapping, label, map, mimeo, offset, opaque, register, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 450 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Coated two sides matte finish book, 100 tons daily.

Allied Paper Inc. Bryant Mill 2030 Portage St 49003

Edward O Arnold, Supt, Mill C
Richard Mendham, Supt, Mill D

Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim. C2S Reverse Roll, 74" trim.

Allied Paper Inc. Monarch Mill Cork St 49003

Robert Dennany, Mill Supt

Paper Mill Paper Machines. 1 Fourdrinier 126" Width 102" Trim
1 Fourdrinier 133" Width 112" Trim
Finishing Plant. Other Eqt.: 2 60" duplex bobbin winders-Flexo printers.

★**Brown Co.** Operating Headquarters

Headquarters Location. See Executive Offices section for more details

Brown Co. Specialty Papers Div. 243 E Paterson St. 49007

Tel: 616-383-5000
RR ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94 State Rte # 43
Frank A Somers, Vice Pres, Div Gen Mgr
Andrew T Muha, Vice Pres, Opers
Joseph Erving, Vice Pres, Sls & Mktg
William Fredencks, Mgr, Ppr Mfg & Matl Hndlg
Ron Fleckenstein, Mgr, Cnvtg Mfg & Ind Engrg
Harry Pratley, Mgr, Qual Control
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alrick, Supt, Matl Hndlg & Shppg
Ken Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Bruce Blakeman, Ind Rels Mgr
Keith N Bartlam, Dir, Sls & Mktg
Stephen Parker, Mgr, Sls & Mktg, Fine Ppr
Louis Cortigene, Mgr, New Pdct Devl
Robert Russell, Mgr, Adm & Plnng

Paper Mill Stock Preparation Pulpers 1-6000 lb, 1-2000 lb and 2-4000 lb Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb Hydrapulpers Beaters, 2 2500 lb Vortex, 3 2500 lb Horne, 2 2000 lb. Jones Refiners 5 34" disc (1 800 hp, 4 700 hp) Screens: Bird Centriscreen Jordans, 8 Majestic, 17 Fibremaster Other Eqt. Secondary Fiber Mill, 150 tons daily capacity
Paper Machines Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders: 10 stacks, Size Presses: 4
Coaters, off Machine Air Knife 1 Blade 2 Solvent
Finishing Plant. Supercalenders, 2. Rewinders, 7 Sheeters: 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Steam/Power. Power Boilers, 3. Fuel. Gas/Oil Steam, lbs hr.: 400,000

Water Treatment. Daily Usage, 5,000 M.g.p.d Source: Well

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration lagoon.

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily. Mill No 2: 280 tons daily.

Brown Co. Recycled Paperboard Div. 243 E. Paterson St. 49007

Tel: 616-383-5000
RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94. State Rte # 43.
Richard Longnecker, Vice Pres, Gen Mgr
Norman K Ryan, Vice Pres, Mfg
John Stevens, Vice Pres, Sls & Mktg
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
John Harrison, Supt, Plt 7
Gene Ackermann, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke. Refiners: 8 Hydrafiners, 2 Morden stockmakers. Screens: 21, Jordans: 10.
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2.
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant. Other Eqt. 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.

Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 300,000

Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: Deep well.

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (PO Box 2738) 49003

Tel: 616-382-2890 Telex: 810-277-2618
RR: ConRail, GTW, siding. Hwys: US Rte # I-94
William R Walsh, Res Mgr
Jerry Robinson, Prod Mgr
Del Van Bruggen, Paper Mchne Supt
Earl Vining, Paper Mchne Supt
David DeKam, Tech Dir
Fred J Shelton, Chief Engr
Ronald Bush, Plant Contr
John P Gideon, Pur Agt
James H Cox, Traffic Mgr
David Boring, Pers Mgr

Pulp Mill Deinked Pulp: Avg Daily Prod., 200 tons Batch Digesters 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd: sidehill washers, 90 tpd
Bleach Plant Sequence 1 Hypochlorite/Hydrosulphite stage Towers 1 downflow

Paper Mill Stock Preparation Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb Jordans: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers, Size Presses 3..
Finishing Plant Supercalenders: 2 90". Rewinders: 2 95"

Steam/Power. Power Boilers: Fuel: Gas/Oil Steam, lbs hr 350,000 Press. 450/275
Electricity: Freq, phase: 440v, 60, 3. Installed H P. 18,500 electric Purchased: 4,000 kw. Generated: 12,000 kw Turbogenerators: 4

Water Treatment. Daily Usage, 8,000 M.g.p.d Source River

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system

MHI-00210

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • UNBLEACHED KRAFT PULP

100 PARK AVENUE NEW YORK, N.Y 10017 212-532-7300

Products. Bond, offset, label, postcard, 400 tons daily

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled.

National Gypsum Co. 2305 E. King Hwy 49003

Tel: 616-343-1579
RR: ConRail siding. Hwys: US Rte # 12.
J.B. Harvey, Plant Mgr
T R Pease, Prod Supt
Lee Webster, Maint Supv
F.B. Mack, Steam Engr
J.P. Schiebergen, Process Engr
D L Reeman, Qlty Supv
J.R. Thompson, Office Mgr
W J England, Plant Buyer

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack..
Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day

Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Gypsum board liner, 145 tons daily.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. PO Box 86 49946

Tel: 906-524-6101
RR. Soo Line Hwys: US Rte # 41
L.W Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr

Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper Consistency Regulators: Brammer type.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine Acrylic coater

Steam/Power. Power Boilers Steam, lbs hr.: 93,000
Electricity: Purchased: 100,000 kwh/day

Water Treatment. Daily Usage, 1,000 M.g.p.d. Source. Bay.

Products. Mineral board products, perforated and unperforated tile, other interior finish products, 200 tons daily

MANISTIQUE

Manistique Pulp & Paper Co. Div of Field Enterprises, Inc PO Box 111 49854

Tel 906-341-2175
RR: Soo Line sidings Hwys US Rte # 2
Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Audun Grimnes, Mgr, Spcl Proj
Francis J Kasun, Pur Mgr
Al Schuster, Sales Mgr
Walter Alexander, Office Mgr

Woodhandling and Preparation Roundwood Storage Capacity 15,000 cds Mobile Equipment: 2-cranes. Slashers. 1. Barkers: 1 drum Bark Presses 1 Hogs: 1 Avg Daily Use of Peeled Pulpwood: 65 cds.

Pulp Mill Ground Wood. Stone. Avg Daily Prod Unbl Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp Avg. Daily Prod.: 75 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan.

Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums: 40-60" dia. Size Presses: 1. Calenders: 1. Reels: 1. Winders: 1 Cameron..

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 75,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day.

Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond.

Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858

Tel: 906-863-5595
RR: C&NW, CMStP&P Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Robert Pomrenke, Cnvtg Supt
Robert Sultan, Sales Mgr
Dennis Detemple, Mgr Prchsg
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant Supercalenders. 2. Rewinders. 4
Other Eqt.: Waxers 5.

Steam/Power. Power Boilers. Fuel: Coal. Steam, lbs hr 140,000
Electricity Purchased 7,000 kwh/day. Generated 4,000 kwh/day Turbogenerators: 2

Water Treatment. Daily Usage. 5,000. M.g.p.d Source: River

Effluent Treatment. Primary Treatment: Yes.

Products. Linerboard, corrugating medium, waxing tissue, 360 tons daily Waxed paper in rolls and sheets

MONROE

Consolidated Packaging Corp. 1521 E First St

RR ConRail sidings. Hwys US Rte # I-75. State Rte # 56,24A

Paper Mill Stock Preparation Pulpers. 8 Hydrapulper. 5 Dynapulper Refiners. 2 double disc. 3 Hydradisc Jordans 14 Other Eqt.. 2 asphalt dispersion systems
Paper Machines Seven-Cylinder 124" Width 112" Trim 420 fpm
Seven-Cylinder 124" Width 112" Trim 420 fpm
1 Fourdrinier 132" Width 115" Trim (idle)
1 Fourdrinier 96" Width 84' Trim (idle)
Dryers Drums. 240 Size Presses 2. Calenders. 6 Winders 2
Coaters, off Machine 1 72" Air Knife
Finishing Plant Rewinders 2 Sheeters. 2. Trimmers 3

Steam/Power. Power Boilers 2 Fuel: Coal. Steam, lbs hr 175,000 Press.. 250
Electricity Freq, phase 220/440v, 60, 3 Purchased: 90 Mkw Generated 35 Mkw. Turbogenerators. 2

Water Treatment. Daily Usage, 2,500 M.g.p.d Source: Wells, Lake

Effluent Treatment. Primary Treatment: Clarifiers. Secondary Treatment Lagoons

Products. Folding boxboards, clay coated boxboard, pasted boards. 300 tons daily
Paper Mill Is Idle

Time Container Div. of Smurfit Industries Inc. 1151 W Elm Av. 48161

Tel: 313-241-3220
RR: C&O siding. Hwys: US Rte # 24, I-75
David W Flotow, Pres
William Radtke, Vice Pres, Mill & Paster Div
Leslie R. White, Mill Prod Mgr
Robert Bert, Mill Supt
Edward G. Strass, Chief Chemist
Timothy J Slusser, Chief Engr
Charles Robertson, Paster Supt
Delbert Broughton, Plant Contr
William A. Finn, Pur Agt

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 2 Emerson. Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders: 2 stacks. Winders: 1..
Finishing Plant. Rewinders: 1. Trimmers: 2.

Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Joint municipal-industrial system.

Products. Test linerboard, pasted chip, plain chip, tube board, lightweight chip, panel board, 110 tons daily.

Union Camp Corp. Unbleached Paper & Board Div. 1109 E Elm St (PO Box 588) 48161

Tel: 313-241-7700
RR: ConRail, Detroit, Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
E.D. Redman, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
W.J. Sandretto, Mill Engr
H.C. Brothers, Dir, Prchsg
E.L. Kelley, Mill Sales Mgr
P.R. Berestecky, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier Refiners: 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortrap Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 3 Autoflyte Winders 3 two-drum..

Steam/Power. Power Boilers: 2. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 240,000. Press.: 600/175 psi.
Electricity Freq, phase: 60, 3. Generated: 6,000 kwh. Turbogenerators. 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.

Water Treatment. Daily Usage, 800. M.g.p.d. Source: Lake Erie Primary Treatment: None.

Effluent Treatment. Primary Treatment: 2 50' Clarifiers Secondary Treatment: Municipal Syst.

Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards. 200 tons daily

MUNISING

Kimberly-Clark Corp. Munising Paper Div Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR: LS&I Hwys. State Rte # 28,94
Richard H Boehm, Div Vice Pres (Neenah)
Donald R Kneepkens, Gen Mgr, Sales & Mktg (Neenah)
John E Carter, Mill Mgr
James R Ward, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
Rudy E Kelto, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4 Screens: 2 Refiners 2 Jordans 2
Paper Machines 2 Fourdrinier 136" Width 120"

MHI-00211

HOWARD ZUKER ASSOCIATES
675 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

Trim
Coaters, off Machine. 3 Saturators: 5.
Finishing Plant. Supercalenders. 1-94". Rewinders: 5. Sheeters: 3. cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior.
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 85 tons daily.

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr 49443
Tel: 616-755-3761 Telex: 510-394-4300
RR: C&O siding. Hwys: US Rte # 16,31,196. State Rte # 46.
H.J. Roehner, Res Mgr
Alan Robinson, Prod Mgr
John S Moran, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
J.W. Decker, Asst Pulp Mill Supt
Dick Matlack, Paper Mill Supt
W.A. Watermam, Asst Paper Mill Supt
J.R. Johnston, Spclty Paper Mgr
Carl E Kilpatrick, Tech Dir
W.A Wrase, Chief Engr
D.L. Tyler, Qlty Cntrl Dir
D.R. Burling, Fnshg/Shpng Supt
R.W. Bickowski, Steam/Power Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr
W.B. Rude, Wood Prcrmt Mgr
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons Mobile Equipment: Hopto RR crane, Poclain crane Flume 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system Chip Unloaders Hydraulic truck dumper. Barkers 1-30 cds/hr Manitowoc drum Hogs: 1 Montgomery Chippers: 1 15 knife Carthage Norman Chip Screens 3 Link Belt. Avg. Daily Use of Peeled Pulpwood 300 cds swd, 200 cds hwd.
Pulp Mill Kraft Avg Daily Prod.: Bl. Swd., 125 tons Bl Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system. Recovery Boilers. 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence. C-E-H-D. Towers: 4. Mixers: 4 Thick Stock Pumps: 1. Chlorine Dioxide System Solvay process
Pulp Processing: Knotters. 3 Impco. Screens: 3 Cowan Cleaners 1 three-stage Bauer system. Washers. 3-9' x 16' Impco vacuum Deckers: 2-9' x 16', 8' x 8' Impco Other Eqt.: 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys Hamplet Scales: 1.
Paper Mill Stock Preparation Pulpers: 6 Vokes rotor Hydrapulper Screens 2 Selectifiers Refiners: 5 Claflin, 1 double disc Jordans: 4 Shartle Cleaners. 2 Centricleaner three-stage systems with vacuum rejects Consistency Regulators: 14 DeZurik, 5 Foxboro Size Cookers 1 continuous, 3 batch.
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity 2 Size Presses. 2. Calenders: 4 Reels: 2 Pope Winders 2 two-drum.
Coaters, On-Machine Trailing Blade, 1-163" puddle. 1-222" Invertablade
Finishing Plant Supercalenders. 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.: D J Murray system Rewinders: 3 Langston Sheeters: 1 Lenox folio, 3, 100" to 112" Trimmers: 3-100" Ream Wrapping & Cartoning Southworth system Strapping Eqt Signode system
Steam/Power. Power Boilers 3. Fuel Coal/Oil. Steam, lbs hr 500 000 Press. 500
Electricity: Freq, phase, 60, 3. Purchased: 3,500 kwh/day Generated 19,000 kwh/day. Turbogenerators: 3-25,500 kw
Water Treatment. Daily Usage, 20,000 M.g.p.d. Source: Lake Primary Treatment: Eimco
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, text, cover, papers

NILES

French Paper Co. 100 French St. (PO Box 729) 49120
Tel: 616-683-1100
RR: ConRail siding. Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Chmn Bd & Treas
B.R. Bigford, Pres
T.R. Friedrich, Vice Pres, Mfg
R.D Clark, Exec Vice Pres, Sec
G Halliwell, Chief Engr.
R. Etzcorn, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders: 3.
Finishing Plant. Sheeters: 3. Trimmers: 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal. Press.: 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text, and specialty papers, 50 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel 616-683-4100 Telex 258459
RR: ConRail Hwys: US Rte # 12,31 State Rte # 60,40
Chuck Dewitt, Plant Dir
Jack Hesser, Paper Mill Supt
Tom Deforrest, Dir Engrg
Al Harrington, Plant Engr
R Risenhoover, Plant Contr
Earl Stevens, Pur Agt
W Sands, Distrib Mgr
Ken James, Ind Rels Dir
Robert Drobel, Ind Rels Mgr
A Seaman, Traf Mgr
Paper Mill Stock Preparation Pulpers. 3 Dynapulpers. Screens: 1 Refiners: 4 Jordans. 1 Cleaners: 5. Consistency Regulators. 2. Other Eqt.. 2 Saveallis.
Paper Machines Stevens Formers: 1-162" wide, 150" trim, 1000 fpm
Dryers Drums: 8 and 12 - 48" dia Calenders: 1 7-roll, 1-2 roll Reels 1. Winders. 2 Shear-Cut..
Steam/Power. Power Boilers: 1 Fuel: Gas/Oil. Steam, lbs hr 35000 Press.. 100 psi.
Electricity: Freq, phase 60, 3. Installed H.P. 3,264. Purchased 32,000 kwh/day
Water Treatment. Daily Usage, 1,000 M.g.p.d. Source Wells
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily

ONTONAGON

Champion Packaging Div of Champion Intl Corp. 115 Lakeshore Rd 49953
Tel 906-884-4121
RR Milw Rd. siding Hwys: US Rte # 45. State Rte # 64
Daniel T Potts, Vice Pres, Res Mgr
Edward Kill Tech Dir
R Howard Paper Mill Supt.
Neal Marxer, Pulp/Power Supt.
Robert L Fitze, Chief Engr
Robert Schon, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity: 20,000 cds.. Chip Storage Capacity: 50,000 cds.. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens. 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd, 500 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 440 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: Zimpro wet-oxidation system.
Pulp Processing: Hot Stock Refiners: 2 Sprout Waldron. Stock Refiners: 1 Sprout Waldron high consistency. Washers: 1 Eimco, 1 Swenson.
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 3 Bauer 440, 5 Sprout-Waldron pump-through. Screens: 2 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120. Calenders: 2. Winders: 2..
Steam/Power. Power Boilers: 1, 2 package. Fuel: Coal/Oil/Gas. Steam, lbs hr.: 325,000. Press.: 1500/250 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Generated: 240,000 kwh/day. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 7,500. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: Saveall. Secondary Treatment: Activated sludge.
Products. Corrugating medium, 500 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div. PO Box 187 49078
Tel: 616-692-6211 Telex: 810-277-7240
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
Robert A Davis, Jr., Mill Mgr
Donald B Moore, Mgr, Board Mill
R.F Kutscher, Mgr, Srvcs
Robert Stevenson, Tech Dir
Michael L Knapp, Mgr, Power
Howard J Klein, Mgr, Supply & Distr
Ira E Johnson Jr, Mgr, Shpg & Rcvng
Linwood H Jennings, Mill Contr
Lance W Tiernan, Mgr, Cnvtg
A Rosenberger, Human Rsrcs Mgr
Ted A Olsen, Mill Mktg Mgr.
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums: 163. Calenders: 2..
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press.: 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day Generated: 64,000 kwh/day Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined woodgrain, laminated specialties, building, automotive boards. 210 tons daily.

Menasha Corp. Paperboard Mill N. Farmer St. 49078
Tel: 616-692-6141
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89
Bruce Buchanan, Gen Mgr
J Blaukamp, Tech Mgr
F Coushman, Plant Engr
D Pickering, Proj Engr
D Cross, Proj Engr
G Hultmark, Power Engr
Ron Thaxton, Proj Engr

MHI-00212

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES.

GOTTESMAN & CO., Inc. • BLEACHED KRAFT PULP

PARK AVENUE NEW YORK N Y. 10017 212-532-7300

Lester Phillips, Pur Agt
John Hanson, Wood Dept Mgr

Woodhandling and Preparation Avg. Daily Use of Peeled Pulpwood: 500 green tons purchased chips.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 225 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 2 S-W secondary; 2 DKP dewatering presses.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Other Eqt.: 1 Impco disc filter.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers. Drums: 95..

Steam/Power. Power Boilers: 4. Fuel: Gas. Steam, lbs hr.: 270,000. Press.: 600 psi.
Electricity: Purchased: 4000 kw Generated: 4000 kw Turbogenerators: 1-4000 kw/kva.

Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration ponds.

Products. NSSC corrugating medium, 360 tons daily.

PALMYRA

Simplex Products Group 49268

Tel: 517-263-5160
RR: ConRail siding Hwys: US Rte # 223.
Bill Maxam, Plant Supt
Jim Slemik, Plant Supv

Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi
Electricity: Freq. phase: 60, 3 Purchased: 100%.

Water Treatment. Daily Usage, 120 M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: Yes.

Products. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. Affl of Philip Morris Industrial Inc 200 Allegan St 49080

Tel 616-685-5851 Telex: TWX 810-277-4990
RR ConRail siding Hwys: US Rte # 131, State Rte # 89
Richard W Detrick, Pres
Donald V Martin, Vice Pres, Gen Mgr
Richard W Flores, Dir Mfg
Emil A Warnez, Prod Mgr, Pprmkg
Richard J Thomas, Mgr Fnshng & Matl Hndlg
George Lawton, Mgr Tech Opers
Victor Ferguson, Mgr R&D
Gary N Longworth, Mgr Engrg & Maint
Lou R Burd, Mgr Field Tech Srvs
Kay C Woodruff, Mgr Qlty Contrl
Thomas J Ryan Mgr, Mfg Srvcs
Alan K Bruner, Supt Distr
Barbara J Bradley, Buyer
Kirby D Brown, Mgr Fin & Plnng
Michael W Howe Mgr Ind Rels
Eugene E Reed, Dir Mktg
William M Ryan, Sls Mgr, Prtng Pprs
Joseph E Casatelli Sls Mgr, Tech Pprs

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper Refiners 7 double disc, Jordans 3. Stock Mixers: 3 blend chests.
Paper Machines 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 1700 fpm
Dryers. Size Presses: 3..
Coaters. On-Machine. Trailing Blade, 1-120". Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 2-65", 1-77", 1-126". Roll Wrapping Eqt.: 1 automated line. Rewinders: 3. Sheeters: 2. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 150,000. Press.: 265 psi.
Electricity. Freq. phase: 60, 3. Purchased: 160,000 kwh/day.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond, secondary clarifier.

Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 225 tons daily

PORT HURON

★**Dunn Paper Co.** Sub. of Dennison Mfg. Co. 218 Riverview St. 48060

Tel: 313-984-5523 Telex: TWX: 810-231-7053
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # I-94
James R Ishmael, Prod Mgr
Robert C Green, Machine Supt

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans: 2.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee 3 12', 1 18' dia. units. Size Presses: 4 Calenders: 2. Winders: 4..
Coaters. On-Machine.Roll: 1. Blade 1.
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.: 76,000. Press.: 600/200.
Electricity: Freq. phase: 60 3. Purchased: 11,000 kwh./day

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 125 tons daily

★**Port Huron Paper Co.** 1660 Thomas St 48060

Tel: 313-982-0191
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25
Thomas R Kroll, Vice Pres, Mill Mgr
E.J Grys, Paper Mill Supt
W.M. Fries, Plant Engr
L.E. Rymers, Tech Dir
G.L. Genaw Sales Mgr

Paper Mill Stock Preparation Pulpers: 5. Screens: 6 Refiners 40 Jordans. 7. Cleaners: 6.
Paper Machines Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums 83 Yankee. 4 Size Presses: 5. Calenders. 7 stacks Winders: 6..
Finishing Plant Rewinders: 2

Steam/Power. Power Boilers: Steam, lbs hr.: purchased
Electricity Purchased: 100%

Water Treatment. Daily Usage, 10,000. M.g.p.d. Source: River.

Products. Absorbent, adding machine, anti tarnish, sulphite bond, carbonizing, electrical cable filling and coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, 200 tons daily.

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. of James River Corp. of Virginia) 340 Mill St 48063

Tel: 313-651-8121
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
J.T. Webb, Vice Pres, Gen Mgr
William M Kirkland, Plant Mgr
Carl W Bach Jr, Plant Supt
Charles H Sornick, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Piachta, Plant Engr
Peter J Lutz, Sales Mgr, Saturtg Filter
Robert L Blome, Sales Mgr, Ind Filter
Mary Lou Deaton, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters. On-Machine.1-62" roll saturator, 20 tons daily cap.
off Machine. 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 2-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Embossers: 4 Waldron. Punch Presses: 2. Die Cutters: 1-32x60 Sheridan. Roto Presses: 1-36" 2/C Champlain. Corrugator-Impregnators: 1-50". Sewing Machines: 2.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq. phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 250 M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, cushioning, impregnating, regular and wet strength filter, industrial, coffee and vacuum filter, graph, grinding wheel, impregnated specialty, flameproof; creped specialties; sewn specialties; nylon saturating, speaker cone, embossed, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341

Tel: 616-866-1523
RR: Mich Nthrn. Hwys: US Rte # 131.
Robert Alspaugh, Mill Mgr
James Isabel, Asst Mill Mgr
Ronald Van Dyke, Maint Supt

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners. 3 S-W Jordans: 1. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers. Drums: 15-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1 Waldron Microjet.
Finishing Plant Trimmers: 2.

Steam/Power. Power Boilers. 2. Fuel. Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq. phase: 60, 3. Installed H P. 2100 electric, 300 water. Purchased: 1500 kva.

Water Treatment. Daily Usage, 200. M.g.p.d Source: River.

Effluent Treatment. Primary Treatment. 1 Clarifier with irrigation disposal.

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 110 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**

Headquarters Location. See Executive Offices section for more details

MHI-00213

J.E. SIRRINE COMPANY

Engineers Since 1902 · An Employee Owned Company

Complete Design of Pulp and Paper Facilities

USA Greenville, SC 29606 • Houston, TEX 77042 • Research Triangle Park, NC 27709
Sao Paulo, Brazil

TROY

★**Abitibi-Price Corp.** Building Products Div.

Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St 49097

Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Peter Lowe, Opers Mgr
David De Young, Ppr Mchns Supt
Raymond Wagner, Tech Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct
Vinnie Rawlinson, Pur Mgr
Ronald G Markan, Pers Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans. 4 Jones Imperial
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3.
Coaters, off Machine. Air Knife. 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 48" Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110"

Steam/Power. Power Boilers. 2 Fuel: Gas/Oil. Steam, lbs hr. 80,000
Electricity: Purchased: 100%.

Water Treatment. Daily Usage. 3,000 M.g.p.d. Source River Wells

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. 279 Paw Paw Av 49098

Tel: 616-463-3141 Telex 72-9432
RR C & O siding Hwys US Rte # I-94 State Rte # 140
Richard G Osborne, Pres
Milton F Stibal, Vice Pres, Tech
Robert Strasburg Exec Vice Pres
R Charles Van Horn Vice Pres Treas
David D Stiles Vice Pres, Sales
Dean D McKinney, Asst to Pres, Sec
William N Torp, Prod Mgr
Jimmie D Paskel, Coatg Supt
Edward G Cripe Pprmkg Supt
John E Klann, Fnshg Supt
John H Matthews, Mgr Oper Srvcs

Paper Mill Stock Preparation Pulpers 4 Refiners 4 Hydradisc. Jordans 3 Jones
Paper Machines 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses. 2 Calenders. 2. Winders 2
Coaters, off Machine Air Knife. 4 92", 88", 70" 66"
Finishing Plant Supercalenders: 5 119" 66" 80", 86" 96" Rewinders 2 Sheeters. 4-76" to 101" Trimmers 4-85" and 100" Other Eqt 2 Embossers. 62" and 53"

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000 Press.. 235
Electricity: Installed H.P 450 water Purchased. 100%.

Water Treatment. Daily Usage. 1,200. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099

Tel: 616-483-7601
RR: ConRail siding. Hwys: US Rte # 12.
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
William A Lunsford, Tech Dir
Kenneth A Shane, Plant Contr
Robert Guy, Prchsg Mgr
Rose Hiner, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 6 Hydrapulper. Screens: 6. Refiners: 4. Jordans: 2.
Paper Machines. 1 six-unit Ultraformer, 110" trim..
Dryers. Drums: 76. Calenders: 3..
Coaters. On-Machine Air Knife. 1-110"
off Machine. 1-78"
Finishing Plant. Rewinders: 1. Sheeters: 2-72". Trimmers. 1-85".

Steam/Power. Power Boilers. 2. Fuel: Oil. Steam, lbs hr.: 180,000. Press.. 500
Electricity: Purchased 100%

Water Treatment. Daily Usage. 250. M.g.p.d Source: River.

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: 6 Settling Basins

Products. Clay-coated bending chipboard. 150 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp. of Virginia, Curtis Paper Div) 1000 N. Huron St 48197

Tel 313-482-2600 Telex 810-223-7004
RR: ConRail siding. Hwys: US Rte # I-94
Edward G Gremban, Vice Pres, Res Mgr
Frank L Wright, Vice Pres Sales
Norman B Davey, Contr
Gerald Linzmeyer, Mgr Pprmkg
David Seidler, Chief Engr
William Turner, Fnshg & Shppg Supt
Natale V Cirillo, Mgr Qlty Contrl
James R Elliott, Traffic Mgr
Harold Rhora, Mgr Inside Sales

Paper Mill Stock Preparation Pulpers 2-2000 lb Hydrapulper Refiners 1 Morden Jordans 2 Jones standard, 1 Jones Imperial Cleaners: Bauer Centricleaners Consistency Regulators Fischer Porter Stock Mixers: Lightin agitators
Paper Machines Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Rotoformers 1 66" Width
Dryers Drums 52-36" dia Size Presses. 2 Calenders 2 stacks. Winders 2
Finishing Plant Roll Wrapping Eqt 1 line Rewinders 1-78' Langston Sheeters 2-85", 65" Hamblet Trimmers 1-110" Lawson 1-85" Seybold Ream Wrapping & Cartoning: Hayssen banding unit Other Eqt. Embossers. 3 Printer-Embossers. 1 Pasters 1 duplex

Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam, lbs hr 40,000 Press. 130
Electricity Freq. phase: 60, 3 Installed H.P 1200. Purchased 25000 kwh/day

Water Treatment. Daily Usage 500 M.g.p.d Source Wells, River Primary Treatment yes

Effluent Treatment. Primary Treatment City sewer system

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2
RR: NP siding Hwys: US Rte # 2,71,371
Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Myron Halby, Sales, Traffic Mgr

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 90 cds aspen.

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl. Hwd., 90 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.

Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..

Steam/Power. Power Boilers: 1. Fuel: Gas (oil standby). Steam, lbs hr.: 14,000. Press.: 200
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.

Water Treatment. Source: City.

Products. Standard panel and tempered hardboard (" to ⅜" thickness) and special types, S2S, 90 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div Mill Av 56401

Tel: 218-828-3200 Telex: 910-561-3508
RR: Burl Nthrn. Hwys: US Rte # 210,371.
Earl J DeRocher, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Henry P Gore, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shppg
Leonard W Bade, Mgr Ctg
David E Dinham, Pur Agt
Terrance M Trettel, Mgr Traffic

Paper Mill Stock Preparation: Pulpers: 1 Morden, 3 Hydrapulpers. Jordans: 3 Emerson, 4 Black Clawson
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 101. Size Presses: 2. Calenders: 3..
Coaters, off Machine. 1-180" Billblade, 1-112" two-station blade
Finishing Plant Supercalenders. 2-121", 1-80". Rewinders: 5 Sheeters: 7. Trimmers: 4.

Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.. 132,000
Electricity: Purchased: 126,000 kwh/day Generated: 54,000 kwh/day

Water Treatment. Daily Usage. 2,300 M.g.p.d. Source. River Primary Treatment: Infilco accelerator

Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.

Products. Bond, duplicator, ledger, MICR, Xerographic, map, book (coated and uncoated) offset, coated offset text and cover (gloss, matte, dull, velvet), 275 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720

Tel. 218-879-2800 Telex. 910-561-2110
RR Duluth & Nrthwstrn, BN, Milw, siding. Hwys: Near US Rte # 61, IS-35 Approx Mi 3. State Rte # 33,45.
J W King, Vice Pres, Plant Mgr
E.C Erickson, Mgr, Engrg Srvcs
S.A. Holloway, Mgr Bd Mfg
R.W Bohren, Mgr, Blanket Mfg
T.G. Johnson, Mgr Corp Engrg & Constr
A.M Crewson, Engrg Consult
L.J Palmer, Mgr Pur
R.A Johansen, Corp Traf Mgr

MHI-00214

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • SECONDARY FIBRE
100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300

2
Steam/Power. Power Boilers: Willow Mill. 2. Fuel: Oil Press.: 100 psi
Electricity: Freq, phase: 550v, 60, 3. Hydroelectric. 100 kw generated/purchased.
Power Boilers. Laurel Mill: 2. Fuel: Oil. Press.: 250 psi
Electricity: Freq, phase: 550/2300v, 60, 3. Purchased: 250 kw.
Products. Absorbent, decorative laminating; resin saturating; coffee, industrial and inorganic filter, inorganic industrial, thermal insulation, synthetic fiber, gravure printed decorative papers. Willow Mill: 30 tons daily. Laurel Mill: 40 tons daily.

TURNERS FALLS

Esleeck Manufacturing Co. Inc. Canal St. 01376
Tel: 413-863-4326
RR: B&M siding. Hwys: US Rte # 91. State Rte # 2A.
William C Blanker, Pres
Robert W Scott, Exec Vice Pres
Curt Pfluger, Vice Pres, Sales
Charles H Blanker, Vice Pres, Treas
Reynold J Conger, Tech Dir
Eugene R Klos, Plant Engr
Richard Annear, Fnshg Supt
Conrad H Johnson, Traffic Mgr
Ann H Blanker, Sec, Asst Clerk
Pulp Mill Rags: Batch Digesters: 2 Rotary.
Pulp Processing: Washers: 1-1000 lb, 2-2200 lb rag. Pulpers: 1.
Paper Mill Stock Preparation: Beaters: 1 1200 lb Holland, 2 1500 lb Bertram, 1 1500 lb breaker. Jordans: 1.
Paper Machines 1 Fourdrinier 122" Width 110" Trim
Dryers. Drums: 14. Size Presses: 3. Calenders: 1.. Finishing Plant. Supercalenders: 3-38", 43", 56". Rewinders. 2. Sheeters: 1 Lenox cut-size. 4: 34", 38", 34", 44". Trimmers: 3-57", 57", 52".
Steam/Power. Power Boilers: 4. Fuel: Oil. Steam, lbs hr.: 16,000 Press.: 225.
Electricity Freq, phase: 440v, 60, 3. Purchased: 10,200 kwh/day Generated: 1,800 kwh/day. Turbogenerators: 2 300 kw turbines.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier, flotation saveall, effluent to municipal plant.
Products. Rag content, erasible, onion skin, thin bond, technical, chart, airmail, art, diazo intermediate base, sensitizing, saturating, surface watermarked, tracing, waterleaf, writing, 15 tons daily.

Strathmore Paper Co. 01376
Tel: 413-863-4333
RR: ConRail. Hwys: Near US Rte # 2 Approx Mi 1.
Gary F Regan, Supt
Albert Kopinski, Asst Supt
Marsha Martin, Chem
David Heller Plant Engr
Paper Mill Paper Machines Equipment listed under Westfield MA mill
Products. Bond, writing, index, text, ledger, cover, drawing and illustration papers

WELLESLEY

★**Deerfield Specialty Papers Inc.**
Headquarters Location See Executive Offices section for more details

WEST DUDLEY

Boise Cascade Corp. Specialty Paperboard Div, Pressboard Pdcts RFD 1, Southbridge

Paper Mill Is Dismantled

WESTFIELD

★**Stevens Paper Mills, Inc.** 77 Mill St.
Headquarters Location. See Executive Offices section for more details.
RR: ConRail. Hwys: US Rte # 202.
Paper Mill Stock Preparation: Beaters: 5 Bertram, 8 other. Jordans: 10.
Paper Machines. 4 Fourdrinier 94" Width 86" Trim
Products. Condenser and coil winding tissue, electrical insulating paper, 10 tons daily.
Paper Mill Is Idle.

★**Strathmore Paper Co.** S Broad St 01085
Tel: 413-568-9111 Telex: 95-5442 TWX: 710-350-1384
Headquarters Location. See Executive Offices section for more details.
Phillip N Wyman, Plant Supt
James E Prendergast, Plant Engr
Paper Mill Stock Preparation: Pulpers: 4. Beaters: 6 Hollander, 2 Bertrams. Refiners: 21. Cleaners: 65 Dirtec, Bauer.
Paper Machines. 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
Finishing Plant. Supercalenders: 2 Norwood. Sheeters: 12. Trimmers. 12. Other Eqt.: Air Dryers: 2.
Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papetene, steel plate, patent office board, gravure, direct process and negative, 100 tons daily, total of Turner's Falls, Westfield, and Woronoco mills.

WEST GROTON

Hollingsworth & Vose Co. 01472
Tel: 617-448-3311 Telex 928459
RR: ConRail siding. Hwys: US Rte # 40. State Rte # 2A.
John J Fawcett, Mill Mgr
Jerome Rizzo, Gen Supt
Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 66" Width 60" Trim
Rotoformers 1 65" width, 58" trim.
Rotoformers: 1 120" width, 110" trim.
Finishing Plant. Rewinders: 2 Sheeters: 2. Trimmers: 2
Steam/Power. Power Boilers: 3 Fuel: Oil. Press.: 150.
Electricity Freq, phase: 60, 3
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment. Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily

WEST SPRINGFIELD

★**Preco Corp.**
Headquarters Location See Executive Offices section for more details

Premoid Corp. (Sub of Preco Corp.) Front St. 01089
Tel: 413-736-4554 Telex: 955474
RR: ConRail siding Hwys US Rte # 20 Near State Rte # Mass Tnpke Approx Mi 4
Joseph H Torras, Chmn & CEO
Robert W Ackerman, Pres & COO
F.B. Comery, Vice Pres, Sales
Neil S Balfour, Vice Pres, Mfg
J.A Cancelliere, Vice Pres, Coating Div
Howard H Stevenson Vice Pres, Adm
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J. Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers: 1. Screens: 2 Refiners: 1. Jordans: 1
Paper Machines. 1 Fourdrinier 72" Width 60" Trim Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt.: 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Water Treatment. Daily Usage, 400. M.g.p.d Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089
Tel: 413-732-5141 Telex: 955-484
RR: ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec
Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim Dryers. Size Presses: tub..
Finishing Plant. Supercalenders: 1. Sheeters: 3. Trimmers: 4.
Steam/Power. Power Boilers: 2. Fuel: Oil.
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 15 tons daily.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20
Donald W Bush, Supt, No. 2 Mill
Bernard J Czanowski, Supt, No. 1 Mill
Richard F Matulowitz, Chem
Alfred Letourneau, Plant Engr
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill.
Products. Mill No. 1, writing, text, cover, papetene papers. Mill No 2: Rag specialty, reproduction, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location See Executive Offices section for more details

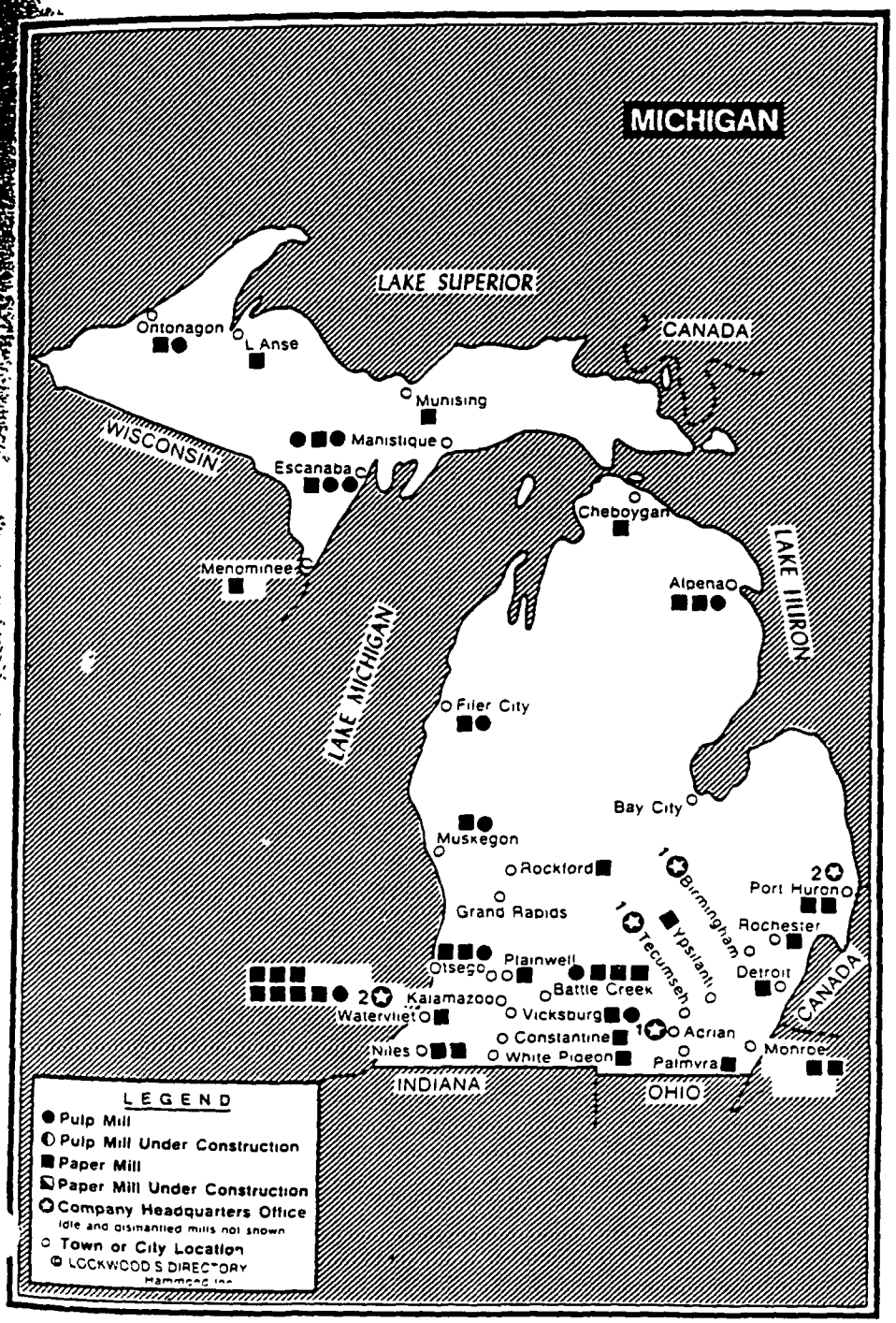
ALPENA

Abitibi-Price Corp. Building Products Group 416 Ford Ave. 49707
Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32
P.K. De Bruhl, Plant Mgr
R.R. Stepanski, Mgr Mfg
G Manitz, Mgr Forctg & Fnshng
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
F Wheeler, Tech Mgr
F.M. Worden, Power Plant Supt
T.J. Kelly, Pers Mgr
D.R Trewartha, Plant Buyer
J.C. Lamy, Woods Mgr
Woodhandling and Preparation Barkers: 2 26" mechanical Chippers. 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 430 tons Batch Digesters 4 Bauer Rapid-Cycle.

MHI-00215

Pulp Processing Stock Refiners 9 Bauer disc
Paper Mill Stock Preparation Pulpers 1 Jones repulper. Refiners. 3 Bauer. 2 Sprout-Waldron pump-thru
Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt 2 20-deck presses 1 22-deck press
Steam/Power. Power Boilers 3 Fuel Coal/Wood Waste Steam. lbs hr. 240,000 Press. 900/300 psi
Electricity Purchased 100,000 kwh/day Generated 200,000 Turbogenerators 1 GE 7500 kva
Water Treatment. Daily Usage. 1,500 M.g.p.d. Source: River Primary Treatment: Screening
Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment. Aeration Lagoons Tertiary Treatment: Sludge dewatering and drying
Products. S1S and S2S hardboard. 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W Fletcher St 49707
Tel: 517-354-2131
RR D&M siding Hwys: US Rte # 23. State Rte # 32
Allan M Fletcher, Pres. Treas
John T Fletcher, Vice Pres
R Werner, Sec, Pur Agt
Charles S White, Gen Mgr
A.J. Steber, Gen Supt
K Byers, Paper Mill Supt
David A Driesbach, Tech Dir
T Van Massenhove, Chief Engr
Clifford Crevier, Fnshg Supt
C Roberts, Traffic Mgr
Elbert M Heath, Sales Mgr
Paper Mill Stock Preparation: Pulpers. 3 Hydrapulpers. Screens: 2 Selectifier Refiners 5 Jones DD Jordans: 3 Jones
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums: 62. Size Presses 2. Calenders: 2 stacks Winders 2
Coaters, off Machine 1-60" Roll-Blade-Gravure, 10 tpd capacity.
Finishing Plant. Sheeters: 1-72", 1-67" precision Trimmers 3-65", 72", 85"
Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam, lbs hr. 60,000 Press 450 psi
Electricity: Freq, phase: 60, 3 Generated 72,000 kwh/day
Water Treatment. Daily Usage. 700 M.g.p.d Source: Thunder Bay River Primary Treatment Yes
Effluent Treatment. Primary Treatment. 1 Clarifier Secondary Treatment. City syst.
Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 75 tons daily



BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd (PO Box 1496) 49016
Tel: 616-968-3000 Telex: 223503
RR: ConRail. Hwys: State Rte # 96 Near US Rte # IS94 Approx Mi 10
E Hibben, Pres & Treas
Hans C Mueller, Vice Pres, Mktg
Fred Woodruff Jr, Sec
Pulp Mill Ground Wood, Refiner. Avg. Daily Prod.: Thermomechanical: 30 tons Refiners: 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation. Pulpers. 1 Hydrapulper.
Paper Machines 3 molding machines of own design..
Products. Molded fiber products for automotive industry

St. Regis Paper Co. Recycled Fiber Div, Battle Creek Prbd Mills 79 E. Fountain St 49016
Tel: 616-963-5511
RR: ConRail, GTW siding Hwys US Rte # I-94, I-69 State Rte # 66,37,89.
Authur W Miller Jr, Res Mgr
Spencer Miles, Mfg Supt, Fountain Mill
Robert M Hersey, Mfg Supt, Angell Mill
Roger Bush, Supt, Fountain Mill
Stan A Hicks, Supt, Angell Mill
Clyde G Eckhart, Tech Dir
John J Martinovich, Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
Arthur W Miller Jr, Bxbd Sales Mgr
Paper Mill Stock Preparation: Pulpers 3-4000 lb. and 3-3000 lb Morden Slushmaker 1-14', 3-16', and 1-20' Hydrapulpers; 1-3000 lb Beaters: 1-2000 lb broke Refiners: 4 Hydrafiners, 1 Jones DD, 3 Disco, 2 Bauer. Jordans 15
Paper Machines. 1 Beloit Bel Bond Former, 130" trim, 1000 fpm.
Stevens Formers: 1 seven unit, 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm
Dryers Drums 283-60" Calenders 7 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared.
Coaters, On-Machine Air Knife 1-130", 1-98", 1-122" On-Machine Trailing Blade, 1-130", 1-98", 1-122" On-Machine.Rod 2-130"
Steam/Power. Power Boilers 3 Fuel Oil/Gas. Steam lbs hr 240,000
Electricity Purchased 2,500 kwh/day Generated: 7,500 kwh/day Turbogenerators 2-8500 kw/kva
Water Treatment. Daily Usage 5,000 M.g.p.d. Source River
Effluent Treatment. Primary Treatment Yes Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, bending chip, 565 tons daily

MHI-00216

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • BLEACHED KRAFT PULP

100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

CHEBOYGAN

Procter & Gamble Paper Products Co. S Main St. 49721

Tel: 616-627-5664
RR: D&M siding. Hwys: US Rte # 27
H.A. Bullard, Plant Mgr

Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue

CONSTANTINE

Simplex Products Group Centreville Rd. 49042

Tel: 616-435-2425 Telex: 510-398-5730
RR: ConRail siding. Hwys: US Rte # 131.
Desmond A Holt, Plant Mgr
Dick Runyan, Mill Supt
Bill Edmonson, Plant Engr
Wayne Kendricks, Tech Mgr
Dick Thomas, Cnvtg Supt
Jack Banard, Shppg /Rcvng Supt
Ed Brown, Office Mgr

Paper Mill Stock Preparation: Pulpers: 2. Screens: 2. Refiners: 2, 1 deflaker. Jordans: 2. Other Eqt.: 1 disc filter.
Paper Machines. Seven-Cylinder 112" Width 104" Trim
Dryers. Drums: 4 sets hi-stack..
Finishing Plant. Other Eqt.: Laminators: 2. Die Presses: 2.

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Press.: 150.
Electricity: Freq. phase. 440 v, 60, 3. Purchased: 100%.

Water Treatment. Daily Usage. 70. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.

Products. Chipboard, 100 tons daily.

DETROIT

Port Huron Paper Co. 9125 W Jefferson Ave. 48209

Tel: 313-842-0042 Telex. TWX: 810-2219-428
RR. ConRail siding, Rouge Yard. Hwys: US Rte # I-75.
P.G Leigh, Paper Mill Mgr
C Jennings, Supt
Donald Grace, Plant Engr
L.J. Sturm, Tech Supt
Betty Bahnsen, Pur Agt
Mel Schwartz, Plant Traffic Mgr
R.P McConkie, Pers Mgr
Lloyd H Jewell, Sales Mgr

Paper Mill Stock Preparation. Pulpers: 4 Refiners: 7 double disc, 1 Morden. Jordans: 5
Paper Machines 1 Yankee MG. Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 130" Trim
Dryers. Yankee 4.

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil
Electricity: Generated: 100%

Water Treatment. Daily Usage, (n.a.) M.g.p.d. Primary Treatment: Yes

Effluent Treatment. Primary Treatment: City System

Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, 160 tons daily

ESCANABA

Mead Corp. Escanaba Paper Div 49829

Tel: 906-786-1660
RR: C&NW, Soo Line sidings Hwys: US Rte # 2,41. State Rte # 35
S.S Benedict, Pres, Gen Mgr
R Hake, Vice Pres, Admin
W.R. O'Donnell, Vice Pres, Mktg
Gary Butryn, Opers Mgr
O.C. Christiansen, Tech Dir
Kenneth Clark, Mgr, Pprmkg & Ctg
J.M. Owens, #4 Ppr Mchne Mgr
G Eastin, Qual Mgr
H.D. Hamilton, Mgr, Plant Engrg
J.L Parr, Enviro Control Tech Dir
J.F. Schneider, Sales Srvc Mgr
J.C. Huskey, Contr
Richard E Nelson, Mgr Matls
T.J. Gregoire, Dir Ind Rels
R Tompkins, Pub Rels Mgr
Erm Venuto, Gen Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks. Chip Handling: Rader pneumatic, system. Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 400 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each.
Ground Wood. Refiner. Avg. Daily Prod.: Bl. Hwd., 150 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-18 disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns. 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O. Recausticizing System: Dorr-Oliver
Bleach Plant. Sequence: Gwd: 1 stage. Kraft: C-E-D-E-D. Chlorine Dioxide System: Hooker SVP system
Pulp Processing: Knotters: Gwd: 2 A-C vibrating. Kraft: SW Hooper centrifugal. Drainers: Gwd: 1 Morden, 1 Bauer Helipress Stock Refiners: Gwd: 2-26" S-W Twin-Flo. Rejects Refiners: Gwd. 1 Bauer. Screens: Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter. Kraft: Bird Centrisorters. Cleaners: Gwd: 69-body, 3-stage Bauer 606 Centricleaner. Washers: Gwd: 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach Washers: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½ x24' Impco
Pulp Drying: Dryers Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys: 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers. 2 Hydrapulpers. 2 continuous Morden. 2 Dynapulpers. 3 Morden broke Screens. 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc. 3 Deflakers (broke). Jordans: 4. Cleaners: 4-stage Bauer Centricleaner-Deculator system
Paper Machines. P&J Fourdrinier 166" Width 155" Trim 1300 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
Dryers Size Presses 2 Calenders 2 stacks Reels: 2 Re-reelers.
Coaters, off Machine. Trailing Blade. 2-286", 2-172" double blade for C2S off Machine Cap. Coated Paper, 500 tons
Finishing Plant Supercalenders 2-278", 9-roll Appleton Roll Wrapping Eqt. Lamb-Grays Harbor automatic Rewinders 3-2 drum 156" Cameron, 2-MIR - 278" Cameron Sheeters 3 - Hamblet. Trimmers 4 Seybold

Steam/Power. Power Boilers 3 Fuel Oil/Gas/Bark Steam, lbs hr 1,000,000 Press 400/1500
Electricity Freq, phase 60, 3 Installed H P 75,000 Generated 50 000 kwh/day Hydroelectric 2,000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage, 28,000 M.g p.d. Source: Lake Michigan Primary Treatment Sand filters

Effluent Treatment. Primary Treatment Clarifier. Secondary Treatment Aeration lagoon Tertiary Treatment: Clarifier

Products. Coated book and publication papers, 600 tons daily Kraft hardwood market pulp, 400 tons daily

FILER CITY

Packaging Corp. of America 49634

Tel: 616-723-9951
RR: C&O siding Hwys: US Rte # 31
F.J. Fragomeli, Vice Pres & Mgr
L.L Huffman, Prod Mgr
C.F. Mills, Tech Dir
D.J. Elliott, Engrg Mgr
T.A. Kirsch, Office Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers: 1 12'x80' FMP. Chippers: 1 112", 12-knife. Chip Screens: 2 HiCap.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: 600 tons Continuous Digesters: 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect. Recovery Boilers: 1 B&W.
Pulp Processing: Stock Refiners: 3 American Defibrator. Screens: 2. Washers: 4 Vacuum. 5 screw press.

Paper Mill Stock Preparation: Pulpers: 3. Screens: 3. Refiners: 5 Jones disc, 4 Sutherland. Jordans: 2 Miami.
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1000 fpm
1 Fourdrinier 172" Width 157" Trim 1000 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums: 148-60" dia..

Steam/Power. Power Boilers: 4. Fuel: Oil/Gas. Steam, lbs hr.: 600,000. Press.: 610.
Electricity: Purchased: 25,000 kwh/day. Generated: 475,000 kwh/day. Turbogenerators: 3-21,875 kva total.

Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: River, Lake.

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.

Products. Corrugating medium, 625 tons daily.

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. (Sub. of SCM Corp.) 2030 Portage St 49001

Tel: 616-345-7131
Headquarters Location. See Executive Offices section for more details
RR: ConRail sidings Hwys: US Rte # IS 94, 131. State Rte # 43,96.
T.E. Flanagan, Vice Pres, Opers
J.D. Nisbet, Vice Pres, Sls & Mktg
R.W. Mirkin, Dir Sales & Mktg
Kenneth Sweet, Prod Mgr
A.E. Vickery, Engrg Mgr
E.O. Arnold, Supt, Mill C
R Mendham, Supt, Mill D
D.A. Falvey, Asst Engrg Mgr
D.C. Kirk Jr, Tech Dir
H.D. Peeters, Mgr Prod Sched
U.G. Stoeffler, Mgr Proc Devl
G.F Mahoney, Natl Sales Mgr
J.L Curtis, Sales Mgr, Kalamazoo
B.L Rasmusson, Dir Prchsg
J.R. Bowen, Traf Mgr

Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim C2S Reverse Roll, 74" trim

Steam/Power. Power Boilers. Fuel. Oil/Gas.

Water Treatment. Source River, Wells.

Effluent Treatment. Primary Treatment. 2 clarifiers.

Products. Adding machine, bible, bond, coated and uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 350 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Coated two sides matte finish book, 100 tons daily

Allied Paper Inc. Monarch Mill Cork St 49003

Paper Mill Is Dismantled

Georgia-Pacific Corp. Kalamazoo Paper Div 2425 King Hwy (PO Box 2738) 49003

Tel 616-382-2890 Telex: 810-277-2618
RR ConRail, GTW, siding. Hwys: US Rte # I-94

MHI-00217

J.E. SIRRINE COMPANY
An Employee Owned Company
Engineers Since 1902
Complete Design of Pulp and Paper Facilities
USA: Greenville, SC 29606 •Houston, TEX 77042 •Research Triangle Park, NC 27709
CANADA: Winnipeg, Manitoba •Montreal, Quebec •BRAZIL: Sao Paulo

Thomas F Sullivan, Res Mgr
David Norman, Prod Mgr
Del Van Bruggen, Paper Mchne Supt, #8 Mchne
Earl Vining, Paper Mchne Supt, #7 Mchne
Larry Pis, Tech Dir
Fred J Shelton, Chief Engr
Donald Bush, Plant Contr
J Hedon, Pur Agt
James H Cox, Traffic Mgr
J Fielder, Pers Mgr

Pulp Mill .Deinked Pulp: Avg Daily Prod.. 200 tons
Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd
Bleach Plant. Sequence: 1 Hypochlorite/Hypochlorite stage. Towers: 1 downflow
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 1-3000 lb, 6-2500 lb, 2-3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Rewinders: 2 95".
Steam/Power. Power Boilers: 4. Fuel. Gas/Oil. Steam, lbs hr.: 350,000 Press.: 450/275.
Electricity: Freq. phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw Generated. 12,000 kw. Turbogenerators. 4.
Water Treatment. Daily Usage, 8,000. M.g.p.d
Source: River.
Effluent Treatment. Primary Treatment: Clarifiers, Joint municipal system.
Products. Bond, offset, label, postcard, 460 tons daily..

Newhorne Paper Co Inc. (Sub. of Gould Paper Corp.)
Paper Mill Is Dismantled

James River Corp. KVP Group
Headquarters Location. See Executive Offices section for more details.

James River Corp. KVP Group, Specialty Papers Div
243 E. Paterson St. 49007
Tel: 616-383-5000
RR: ConRail, CK & S, siding Hwys US Rte # 12, 131, I-94. State Rte # 43
Frank A Somers, Vice Pres, Div Gen Mgr
Andrew T Muha, Vice Pres, Opers
Joseph Erving, Vice Pres, Sls & Mktg
William Fredericks, Mgr, Ppr Mfg & Matl Hndlg
Ron Fleckenstein, Mgr, Cnvtg Mfg & Ind Engrg
Harry Pratley, Mgr, Qual Control
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alrick, Supt, Matl Hndlg & Shppg
Ken Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Bruce Blakeman, Ind Rels Mgr
Keith N Bartlam, Dir, Sls & Mktg
Stephen Parker, Mgr, Sls & Mktg, Fine Ppr
Louis Cortugene, Mgr New Pdct Devl
Robert Russell, Mgr, Adm & Pinng

Paper Mill Stock Preparation Pulpers 1-6000 lb 1-2000 lb and 2-4000 lb Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters 2 2500 lb Vortax, 3 2500 lb Horne, 2 2000 lb. Jones Refiners: 5 34" disc (1 800 hp, 4 700 hp) Screens: Bird Centriscreen, Jordans: 8 Majestic, 17 Fibremaster Other Eqt. Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders 10 stacks. Size Presses: 4.
Coaters, off Machine. Air Knife. 1. Blade. 2. Solvent. 1
Finishing Plant Supercalenders. 2 Rewinders: 7 Sheeters 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines. 80" and 100" trim
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Well.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.
Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1 120 tons daily. Mill No 2: 280 tons daily.

James River Corp. Board & Carton Group 243 E. Paterson St. 49007
Tel: 616-383-5000
RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94 State Rte # 43.
Richard Longnecker, Vice Pres, Gen Mgr
Norman K Ryan, Vice Pres, Mfg
John Stevens, Vice Pres, Sls & Mktg
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
John Harrison, Supt, Plt 7
Gene Ackermann, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr
Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker Beaters: 1 continuous broke. Refiners 8 Hydrafiners, 2 Morden Stockmaker. Screens. 21. Jordans 10.
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine Air Knife, 2
Extrusion Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant Other Eqt: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.
Steam/Power. Power Boilers 4 Fuel Gas/Oil Steam, lbs hr 300,000
Water Treatment. Daily Usage 4,000 M.g.p.d Source Deep well
Effluent Treatment. Primary Treatment: City syst
Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily

National Gypsum Co. 2305 E King Hwy 49003
Tel 616-343-1579
RR ConRail siding Hwys US Rte # 12
J B Harvey, Plant Mgr
T R Pease Prod Supt
Lee Webster Maint Supv
F B Mack, Steam Engr
J P Schiebergen Process Engr
D L Bowman Qlty Supv
D R Thompson Office Mgr
W J England Plant Buyer
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 3 Sprout Waldron
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers Drums 110 Infrared 30 Calenders. 1 stack
Finishing Plant Rewinders 1
Steam/Power. Power Boilers 2 Fuel Gas/Oil Steam lbs hr 70,000
Electricity Purchased 48,000 kwh/day
Water Treatment. Daily Usage, 580 M.g.p.d Source Wells City
Effluent Treatment. Primary Treatment 1 Clarifier
Products. Gypsum board liner, 145 tons daily

L'ANSE

Celotex Corp. Sub of Jim Walter Corp PO Box 86 49946
Tel: 906-524-6101
RR: Soo Line. Hwys US Rte # 41
L.W Swanson, Plant Mgr
E R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr
Paper Mill Stock Preparation: Pulpers 1 continuous Hydrapulper. Consistency Regulators Brammer type.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine Acrylic coater
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.
Products. Mineral board products, perforated and unperforated tile, other interior finish products, 200 tons daily.

MANISTIQUE

Manistique Pulp & Paper Co. Div. of Field Enterprises, Inc. PO Box 111 49854
Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2.
Leif Christensen, Vice Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Audun Grimnes, Mgr, Spcl Proj
Francis J Kasun, Pur Mgr
Allen Schuster, Sales Mgr
Walter Alexander, Contr
Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds.. Mobile Equipment: 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs: 1 Avg Daily Use of Peeled Pulpwood: 65 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg. Daily Prod.: 75 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan
Paper Mill Stock Preparation Pulpers. 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2000 fpm
Dryers. Drums 40-60" dia Size Presses: 1. Calenders: 1. Reels: 1. Winders: 1 Cameron..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr: 75,000 Press.. 350
Electricity: Purchased: 5000 kwh/day
Water Treatment. Daily Usage, 2,500 M.g.p.d Source River Primary Treatment: Yes
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Settling pond
Products. Newsprint, groundwood printing (novel, rotogravure, catalog) and hanging papers, 150 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Fibre Products Corp) 144 First St (PO Box 300) 49858
Tel 906-863-5595
RR C&NW CMStP&P Hwys US Rte # 41 State Rte # 173
Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker Paper Mill Supt.
Steven M Courtney Tech Dir
Alfred J Bickel, Chief Engr
Robert Pomrenke Cnvtg Supt
Robert Sultan, Sales Mgr
Dennis Detemple, Mgr Prchsg
Thomas J Krause, Contr
Bruce D Stelow, Pers Mgr
Paper Mill Stock Preparation Pulpers. 4 Hydrapulpers. Refiners. 2 Claflin Jordans 5
Paper Machines Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant Supercalenders 2 Rewinders: 4
Other Eqt Waxers 5

MHI-00218

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • BLEACHED HARDWOOD KRAFT PULP

100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 140,000
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.
Water Treatment. Daily Usage. 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Linerboard, corrugating medium, waxing tissue, lightweight MG. 360 tons daily. Waxed paper in rolls and sheets

MONROE

Consolidated Packaging Corp. 1521 E First St

Paper Mill Is Dismantled.

Time Container Div. of Smurfit Industries Inc. 1151 W. Elm Av. 48161

Tel. 313-241-3220
RR: C&O siding. Hwys: US Rte # 24, I-75.
Robert H Degraer, Pres
William Radtke, Vice Pres, Mill & Paster Div
Leslie R. White, Mill Prod Mgr
Robert Bert, Mill Supt
Edward G. Strass, Chief Chemist
Timothy J Slusser, Chief Engr
Charles Robertson, Paster Supt
Delbert Broughton, Plant Contr
William A. Finn, Pur Agt

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 2 Emerson. Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 400 fpm
Dryers. Drums: 110. Calenders: 2 stacks. Winders: 1.
Finishing Plant. Rewinders: 1. Trimmers: 2.
Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.. 70,000
Electricity: Purchased: 100%
Water Treatment. Daily Usage. 2,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system.
Products. Test linerboard, pasted chip, plain chip, tube board, lightweight chip, panel board. 110 tons daily

Union Camp Corp. Unbleached Paper & Board Div. 1109 E Elm St (PO Box 588) 48161

Tel: 313-241-7700
RR: ConRail, Detroit Toledo Shore Line Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
E.D Redman, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
W.J. Sandretto, Mill Engr
N.D Lee Jr, Dir, Prchsg
E.L Kelley, Mill Sales Mgr
P R. Berestecky, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers. 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper Screens: 21 Selectifier Refiners 6-32" Bauer 442 disc, 2-34" S-W. Jordans. 6 Miami 2A, 2 Emerson 2-OD. Cleaners. 8-10" Vortrap. Consistency Regulators: 4 Bird
Paper Machines B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers Drums 127, 103, and 137-42" dia. Reels: 3 Autoflyte Winders. 3 two-drum
Steam/Power. Power Boilers. 2 Fuel. Coal/Gas/Oil Steam, lbs hr.: 240,000 Press.. 600/175 psi Electricity: Freq, phase: 60 3 Generated: 6,000 kwh Turbogenerators. 2-7500 kw, 2000 kw, 2-1000 kw diesel generators
Water Treatment. Daily Usage, 800 M.g.p.d. Source Lake Erie Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers Secondary Treatment Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily.

MUNISING

Munising Paper Co. Div. of Kimberly-Clark Corp. Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR: LS&I. Hwys: State Rte # 28,94.
Richard H Boehm, Pres
Donald R Kneepkens, Vice Pres, Sales & Mktg
John E Carter, Mill Mgr
James R Ward, Admin Mgr
Walter S Servia, Opers Mgr
Daniel F Claus, Tech Srvcs Mgr
Rudy E Kelto, Engrg Mgr
Parker W Gray, Pdct Devl Lab Mgr
R Eugene Heimerman, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 3. Saturators: 5.
Finishing Plant. Supercalenders: 1-94". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.
Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior.
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily.

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443

Tel: 616-755-3761 Telex: 510-394-4300
RR: C&O siding. Hwys: US Rte # 16,31,196. State Rte # 46.
C.W. Van Orman, Res Mgr
Karl Dornish, Prod Mgr
Dan Burling, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
John S Moran, Mgr, Srvcs
Dick Matlack, Paper Mill Supt
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
W LaPierre, Fnshg/Shpng Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane. Flume: 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system. Sawdust Handling: Rader pneumatic system. Chip Unloaders: Hydraulic truck dumper Barkers. 1-30 cds/hr Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens. 3 Link Belt. Avg. Daily Use of Peeled Pulpwood 300 cds swd, 200 cds hwd.

Pulp Mill Kraft Avg. Daily Prod.. Bl. Swd., 125 tons Bl. Hwd.. 125 tons Continuous Digesters: 1 Kamyr
Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquor Oxidation System: Champion system Recovery Boilers. 1 C-E, 750,000 lbs solids/day Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D Towers: 4 Mixers: 4 Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.

Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper Screens: 2 Selectifiers Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZunk, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines. Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum..
Coaters, On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 1 Lanox folio; 3, 100" to 112". Trimmers: 3-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 729) 49120

Tel: 616-683-1100
RR: ConRail siding. Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Chmn Bd
B.R. Bigford, Pres
R.D. Clark, Exec Vice Pres, Sec
T.R. Friedrich, Vice Pres, Mfg
Jerry E French, Treas
G Halliwell, Chief Engr.
R. Etzcorn, Pur Agt

Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers. Winders: 3..
Finishing Plant. Sheeters: 3 Trimmers: 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal. Press.: 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 50 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49121

Tel: 616-683-4100 Telex: 258459
RR: ConRail. Hwys. US Rte # 12,31. State Rte # 60,40
Chuck Dewitt, Plant Dir
Jack Hesser, Paper Mill Supt
Tom Deforrest, Dir Engrg
Al Harrington, Plant Engr
R Risenhoover, Plant Contr
Earl Stevens, Pur Agt
W Sands, Distrib Mgr
Ken James, Ind Rels Dir
Robert Drobel, Ind Rels Mgr
A Seaman, Traf Mgr

Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1 Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Savealls.
Paper Machines. Stevens Formers. 1-162" wide, 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll Reels: 1. Winders: 2 Shear-Cut.
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.. 35000 Press.. 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily

MHI-00219

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

ONTONAGON

Champion Packaging Div of Champion Intl Corp. 115 Lakeshore Rd. 49953

Tel: 906-884-4121
RR: Milw Rd, siding. Hwys: US Rte # 45. State Rte # 64.
Daniel T-Potts, Vice Pres, Res Mgr
Edward Kill, Tech Dir
R.E. Howard, Paper Mill Supt.
Neal Marxer, Pulp/Power Supt.
Robert L Fitze, Chief Engr
S.C. Haddon, Maint Supt
Robert Schon, Pur Agt

Woodhandling and Preparation Roundwood Storage Capacity: 20,000 cds.. Chip Storage Capacity: 50,000 cds.. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd. 500 cds.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 440 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant
Pulp Processing: Hot Stock Refiners. 2 Sprout Waldron. Stock Refiners: 1 Sprout Waldron high consistency. Washers: 1 Eimco, 1 Swenson.

Paper Mill Stock Preparation: Pulpers: 3. Refiners: 3 Bauer 440, 5 Sprout-Waldron. Screens: 2 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZunk.
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120 Calenders: 2 Winders: 2..

Steam/Power. Power Boilers 1, 2 package Fuel: Coal/Oil/Gas. Steam, lbs hr.: 325,000. Press.: 1500/250 psi
Electricity. Freq, phase: 60, 3 Installed H.P 13500 Purchased 50%. Generated 50%. Turbogenerators. 1 GE, 15,000 kw

Water Treatment. Daily Usage, 7,500 M.g.p.d. Source: Lake Superior Primary Treatment: None.

Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment: Activated sludge

Products. Corrugating medium, 500 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div. PO Box 187 49078

Tel: 616-692-6211 Telex 810-277-7240
RR: ConRail siding Hwys: Near US Rte # 131 Approx Mi 2 State Rte # 89
Robert A Davis, Jr, Mill Mgr
Donald B Moore, Mgr, Board Mill
R F Kutscher Mgr Engrg Srvcs
Robert Stevenson, Tech Dir
M.L Knapp, Mgr, Power
H J Klein, Mgr Supply & Distr
I E Johnson Mgr Shpg & Rcvng
Linwood H Jennings Mill Contr
B.M McClary, Mgr Cnvtg
J.J Shipley, Human Rsrcs Mgr
T A Olsen, Mill Mktg Mgr

Paper Mill Stock Preparation Pulpers. 1-3000 lb Morden Slushmaker 3 Hydrapulpers. Screens: 8 Refiners 2 34" Jones DD. 1 Bauer double disc Jordans 4 Cleaners Black Clawson, Bird filler, 1 asphalt dispersion unit
Paper Machines Eight-Cylinder 140" Width 126" Trim
Dryers. Drums 163 Calenders 2
Coaters, Extrusion Trim Width, 1 86" Egan PE extrusion coater

Steam/Power Power Boilers 3 Fuel Coal/Gas/Oil Steam, lbs hr 134,000 Press 875/300 psi
Electricity Freq, phase, 60,3 Installed H P 8000 Purchased 41,000 kwh/day Generated 64 000 kwh/day Turbogenerators 4000 kw Westinghouse, 3000 kw Stal Laval

Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.

Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.

Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily

Menasha Corp. Paperboard Mill N. Farmer St. 49078

Tel: 616-692-6141
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.
Bruce Buchanan, Gen Mgr
J Blaukamp, Tech Mgr
T Clemmons, Plant Engr
D Pickering, Proj Engr
D Cross, Proj Engr
G Hultmark, Power Engr
Ron Thaxton, Proj Engr
Lester Phillips, Pur Agt
John Hanson, Wood Dept Mgr

Woodhandling and Preparation Avg. Daily Use of Peeled Pulpwood: 500 green tons purchased chips.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 225 tons Continuous Digesters: 1 vertical Asplund Defibrator
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 2 S-W secondary; 2 DKP dewatering, presses

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Other Eqt.: 1 Impco disc filter.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers. Drums: 95..

Steam/Power. Power Boilers: 4. Fuel: Gas. Steam, lbs hr: 270,000. Press.: 600 psi.
Electricity: Purchased: 4000 kw. Generated: 4000 kw Turbogenerators. 1-4000 kw/kva.

Water Treatment. Daily Usage, 2,200. M.g.p.d. Source. Wells

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration ponds.

Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Products Group 49268

Tel 517-263-5160
RR: ConRail siding Hwys: US Rte # 223
Bill Maxam, Plant Supt
Jim Slemik, Plant Supv

Paper Mill Stock Preparation: Pulpers. 1-10', 1-12', 1-16 Hydrapulpers Refiners. 2 Bauer disc. Jordans 3 Other Eqt 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power Power Boilers: Fuel: Gas Press.. 150 psi
Electricity Freq, phase 60, 3 Purchased 100%

Water Treatment. Daily Usage, 120. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes

Products. Chipboard reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily

PLAINWELL

Plainwell Paper Co Inc. Affl of Philip Morris Industrial Inc 200 Allegan St 49080

Tel 616-685-5851 Telex TWX: 810-277-4990
RR ConRail siding Hwys US Rte # 131 State Rte # 89
Robert Green, Plant Mgr
James Ishmael, Dir Mfg
Richard J Thomas, Mgr Fnshng & Matl Hndlg
George Lawton, Mgr Tech Opers
Victor Ferguson, Mgr R&D
Gary N Longworth, Mgr Engrg & Maint
Lou R Burd, Mgr Field Tech Srvs
Kay C Woodruff, Mgr Qlty Contrl
Thomas J Ryan, Mgr, Mfg Srvcs
Alan K Bruner, Supt Distr
Barbara J Bradley, Buyer
Kirby D Brown, Contr
Michael W Howe, Mgr Ind Rels
Eugene E Reed, Dir Mktg
William Devine, Sls Mgr, Prtng Pprs
Joseph E Casatelli, Sls Mgr, Tech Pprs

Paper Mill Stock Preparation. Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper. Refiners: 7 double disc. Jordans: 3. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 1700 fpm
Dryers. Size Presses: 3..
Coaters, On-Machine. Trailing Blade, 1-120". Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 2-65", 1-77", 1-126". Roll Wrapping Eqt.: 1 automated line. Rewinders: 3. Sheeters: 2. Trimmers. 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil Steam, lbs hr.: 150,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 kwh/day.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond, secondary clarifier.

Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 225 tons daily

PORT HURON

★**Dunn Paper Co.** Sub. of Dennison Mfg. Co. 218 Riverview St. 48060

Tel: 313-984-5523 Telex: TWX: 810-231-7053
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # I-94
James R Scohy, Mfg Mgr
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Dir, Prsnnl
Frederick Lange, Machine Supt

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans: 2.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee: 3 12', 1 18' dia. units. Size Presses: 4 Calenders: 2. Winders 4..
Coaters, On-Machine.Roll: 1. Blade 1.
Finishing Plant Rewinders: 2

Steam/Power. Power Boilers. 3 Fuel: Oil/Gas. Steam, lbs hr 76,000 Press.: 600/200.
Electricity: Freq, phase: 60 3 Purchased. 11,000 kwh./day.

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 150 tons daily

★**Port Huron Paper Co.** 1660 Thomas St 48060

Tel. 313-982-0191
Headquarters Location. See Executive Offices section for more details
RR: GTW siding Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25.
Thomas R Kroll, Vice Pres, Mill Mgr
E.J. Grys, Paper Mill Supt
W.M. Fries, Plant Engr
M.D Sikora, Tech Dir

Paper Mill Stock Preparation: Pulpers: 5. Screens: 6. Refiners: 40 Jordans. 7 Cleaners. 6.
Paper Machines Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700

MHI-00220

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • WOODPULP

100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 7 stacks. Winders: 6..
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 10,000. M.g.p.d. Source: River.

Products. Absorbent, anti tarnish, sulphite bond, carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, lens, offset, opaque, tissue wrapping and specialties, 200 tons daily.

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. of James River Corp.) 340 Mill St 48063

Tel: 313-651-8121
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
J.T Webb, Vice Pres, Gen Mgr
William M Kirkland, Plant Mgr
Carl W Bach Jr, Ppr Mchne Supt
Richard Agar, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Plachta, Plant Engr
Peter J Lutz, Sales Mgr, Saturtg Filter
Robert L Blome, Sales Mgr, Ind Filter
Mary Lou Deaton, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters. On-Machine.1-62" roll saturator, 20 tons daily cap.
off Machine. 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 2-72", 1-84" Trimmers: 1-50", 1-84". Other Eqt.: Embossers: 4 Waldron. Punch Presses: 2. Die Cutters: 1-32x60 Sheridan. Roto Presses: 1-36" 2/C Champlain Corrugator-Impregnators: 1-50". Sewing Machines 2

Steam/Power. Power Boilers. Fuel: Oil. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: Wells

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, industrial, coffee and vacuum filter, impregnated specialty, flameproof, creped specialties, sewn specialties; nylon saturating, speaker cone, photo mount, matrix papers, 18 tons daily

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341

Tel: 616-866-1523
RR: Mich Nthrn. Hwys Near US Rte # 131 Approx Mi 3
Robert Alspaugh, Mill Mgr
James Isabel Asst Mill Mgr
Craig Linderman, Mill Supt
Ronald Van Dyke, Maint Supt

Paper Mill Stock Preparation: Pulpers 4 Hydrapulper Screens: 8. Refiners: 3 S-W Jordans: 1 Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZunk. Other Eqt.: allied clay mixing eqt.
Paper Machines Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks.
Coaters. On-Machine. Air Knife. 1 Waldron Microjet. Finishing Plant Trimmers. 2

Steam/Power. Power Boilers: 2. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva.

Water Treatment. Daily Usage, 20. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**

Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi-Price Corp.** Building Products Group

Headquarters Location. See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St. 49097

Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6
Peter Lowe, Opers Mgr
David De Young, Ppr Mchns Supt
Raymond Wagner, Tech Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct
T Moore, Pur Mgr
Ronald G Markan, Pers Dir

Pulp Mill Rags: Batch Digesters: 4 10,000 lb Rotary. Pulp Processing: Washers: 8-1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 3-1000 lb. Bertrams. Screens: 6. Refiners: 6 Morden. Jordans: 4 Jones Impenal.
Paper Machines 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 119" Trim 500 fpm
1 Fourdrinier 134" Width 121" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters. off Machine. Air Knife. 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 48" Rewinders: 2. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".

Steam/Power. Power Boilers 2. Fuel: Gas/Oil. Steam, lbs hr.. 80,000
Electricity: Purchased: 100%

Water Treatment. Daily Usage, 3,000 M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin

Products. Blueprint, rag and sulphite bond, solid and pasted bristol check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. (Sub. of Howard Paper Mills Inc.) 279 Paw Paw Av 49098

Tel: 616-463-3141 Telex. 72-9432
RR: C & O siding Hwys: US Rte # I-94, State Rte # 140
Lou Mehr, Pres
Milton F Stibal, Vice Pres, Opers
R Charles Van Horn, Vice Pres, Treas
David D Stiles, Vice Pres, Sales
Dean D McKinney, Asst to Pres, Sec
Jimmie D Paskel, Coatg Supt
Charles B Brock, Pprmkg Supt
Lemoin M Shadduck, Mgr, Engrg
John H Matthews, Dir Prchsg

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 4 Hydradisc. Jordans: 3 Jones
Paper Machines 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70", 66".
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 1 62" Embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000. Press.: 235.
Electricity: Installed H.P. 450 water. Purchased: 100%.

Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099

Tel: 616-483-7601
RR: ConRail siding. Hwys: US Rte # 12.
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
William A Lunsford, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Rose Hiner, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 5 Hydrapulper. Screens: 6. Refiners: 4. Jordans: 2.
Paper Machines. 1 six-unit Ultraformer, 110" trim.
Dryers. Drums: 76. Calenders: 3..
Coaters. On-Machine. Air Knife. 1-110".
Finishing Plant. Rewinders: 1. Trimmers: 1-85".

Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 180,000. Press.: 500 psi.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.

Products. Clay-coated boxboard, 160 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp, Curtis Paper Div.) 1000 N. Huron St. 48197

Tel: 313-482-2600 Telex: 810-223-7004
RR: ConRail siding. Hwys: US Rte # I-94.
Edward G Gremban, Vice Pres, Res Mgr
Frank L Wright, Vice Pres Sales
Gerald Linzmeyer, Mgr Pprmkg
David Seidler, Chief Engr
William Turner, Fnshg & Shppg Supt
Jeffrey Brown, Mgr Qlty Contrl
Harold Rhora, Traffic Mgr

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners 1 Morden. Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Dryers. Drums 52-36" dia. Size Presses: 2. Calenders: 2 stacks. Winders: 2..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston Sheeters: 2-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit Other Eqt.: Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex.

Steam/Power. Power Boilers: 1 Fuel: Gas/Oil. Steam, lbs hr.: 40,000 Press.. 130
Electricity: Freq, phase: 60, 3. Installed H.P. 1200.

MHI-00221

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • UNBLEACHED SULPHITE PULP
100 PARK AVENUE, NEW YORK, N Y 10017 212-532-7300

Paper Machines. 4 Fourdrinier 94" Width 86" Trim
Products. Condenser and coil winding tissue, electrical insulating paper, 10 tons daily.
Paper Mill is idle.

★Strathmore Paper Co. S Broad St 01085
Tel: 413-568-9111 Telex: 95-5442 TWX: 710-350-1384
Headquarters Location. See Executive Offices section for more details.
Phillip N Wyman, Plant Supt
James E Prendergast, Plant Engr
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 21. Cleaners: 65 Dirtec, Bauer.
Paper Machines. 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
Finishing Plant. Supercalenders: 2 Norwood. Sheeters: 12. Trimmers: 12. Other Eqt.: Air Dryers: 2.
Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papetene, steel plate, patent office board, gravure, 130 tons daily, total of Turner's Falls, Westfield, and Woronoco mills.

WEST GROTON

Hollingsworth & Vose Co. 01472
Tel: 617-448-3311 Telex: 928459
RR: ConRail siding. Hwys: US Rte # 40. State Rte # 2A.
Richard H Guimond, Mill Mgr
Jerome Rizzo, Gen Supt
Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 66" Width 60" Trim
Rotoformers: 1 65" width, 58" trim
Rotoformers: 1 120" width, 110" trim.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2
Steam/Power. Power Boilers: 3. Fuel: Oil. Press.: 150.
Electricity: Freq, phase: 60, 3.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily.

WEST SPRINGFIELD

★Preco Corp.
Headquarters Location See Executive Offices section for more details.

Premoid Corp. (Sub of Preco Corp.) Front St. 01089
Tel: 413-736-4554 Telex: 955474
RR: ConRail siding Hwys US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4
Joseph H Torras, Chmn & CEO
Robert W Ackerman, Pres & COO
F.B Comery, Vice Pres, Sales
Neil S Balfour, Vice Pres, Mfg
J.A Cancelliere, Vice Pres, Coating Div
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J. Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Stock Preparation Pulpers: 1. Screens: 2. Refiners: 1 Jordans. 1.
Paper Machines. 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant. Rewinders. 1. Sheeters 1. Other Eqt 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Water Treatment. Daily Usage, 400. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily.

Southworth Co. Front St 01089
Tel: 413-732-5141 Telex: 955-484
RR: ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec
Jack E Moffett, Sales Mgr
Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers. Size Presses: tub..
Finishing Plant. Supercalenders: 1. Sheeters: 3. Trimmers: 4.
Steam/Power. Power Boilers: 2. Fuel: Oil.
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 15 tons daily.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20.
Donald W Bush, Supt, No. 2 Mill
Bernard J Czanowski, Supt, No 1 Mill
Richard F Matulowitz, Chem
Alfred Letourneau, Plant Engr
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..
Products. Mill No 1: writing, text, cover, artist's, papetene papers. Mill No 2: Rag specialty, reproduction, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★Simplex Products Group
Headquarters Location See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Group 416 Ford Ave. 49707
Tel: 517-354-2121
RR: Detroit & Mackinac Siding Hwys. US Rte # 23 State Rte # 32
P K De Bruhl, Plant Mgr
G Manitz, Mgr Mfg
R.R. Stepanski, Mgr Fbrctg & Tech Srvcs
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
F M. Worden, Power Plant Supt
T.J. Kelly, Pers Mgr
J.N. Gatward, Plant Contr
A.J. Towlerton, Plant Buyer
J.C. Lamy, Woods Mgr
Woodhandling and Preparation Barkers: 2 26" mechanical Chippers. 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood. 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp Avg Daily Prod.. 430 tons Batch Digesters 4 Bauer Rapid-Cycle. Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation Pulpers: 1 Jones re-pulper. Refiners. 3 Bauer. 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers. 3 Fuel. Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva
Water Treatment. Daily Usage, 1,500. M.g.p.d. Source: River Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.
Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707
Tel: 517-354-2131
RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.
Allan M Fletcher, Pres, Treas
John T Fletcher, Vice Pres.
R. Werner, Sec., Pur. Agt.
Charles S. White, Gen Mgr
A.J. Steber, Gen Supt
K Byers, Paper Mill Supt.
David A Dnesbach, Tech Dir
T Van Massenhove, Chief Engr.
Clifford Crevier, Fnshg Supt.
C Roberts, Traffic Mgr.
Elbert M Heath, Sales Mgr.
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Screens: 2 Selectifier Refiners: 5 Jones DD Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums: 62. Size Presses: 2. Calenders: 2 stacks. Winders: 2..
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity.
Finishing Plant. Sheeters 1-72", 1-67" precision. Trimmers: 3-65", 72", 85".
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.. 60,000. Press.: 450 psi.
Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day
Water Treatment. Daily Usage, 700. M.g.p.d. Source: Thunder Bay River Primary Treatment: Yes
Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: City syst.
Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 75 tons daily.

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd (PO Box 1496) 49016
Tel: 616-968-3000 Telex: 223503
RR: ConRail Hwys: State Rte # 96 Near US Rte # IS94 Approx Mi 10
E Hibben, Pres & Treas
Hans C Mueller, Vice Pres, Mktg
Fred Woodruff Jr, Sec
Pulp Mill Ground Wood, Refiner. Avg Daily Prod.: Thermomechanical: 30 tons Refiners: 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper
Paper Machines. 3 molding machines of own design.
Products. Molded fiber products for automotive industry

St. Regis Paper Co. Recycled Fiber Div, Battle Creek Pprbd Mills 79 E Fountain St 49016
Tel: 616-963-5511
RR ConRail, GTW siding Hwys: US Rte # I-94, I-69 State Rte # 66,37,89
Authur W Miller Jr, Res Mgr
Spencer Miles, Mfg Supt, Fountain Mill
Robert M Hersey, Mfg Supt, Angell Mill
Roger Bush, Supt, Fountain Mill
Stan A Hicks, Supt, Angell Mill

Clyde G Eckhart, Tech Dir
John J Martinovich, Prod Contr Supt
Wendell D Chichester, Pur Agt, Traf Mgr
Arthur W Miller Jr, Bxbd Sales Mgr

Paper Mill Stock Preparation Pulpers 3-4000 lb and 3-3000 lb Morden Slushmaker 1-14' 3-16 and 1-20' Hydrapulpers 1-3000 lb Beaters 1-2000 lb broke Refiners 4 Hydrafiners 1 Jones DD, 3 Disco, 2 Bauer Jordans 15
Paper Machines 1 Beloit Bel Bond Former 130 trim, 1000 fpm
Stevens Formers, 1 seven unit, 120' trim, 750 fpm
1 six-unit Ultraformer, 98" wide, 96' trim, 450 fpm..
Dryers, Drums: 283-60" Calenders 7 stacks, 1 breaker stack, Hi-Velocity: 2 gas infrared
Coaters, On-Machine Air Knife, 1-130", 1-98", 1-122" On-Machine Trailing Blade, 1-130", 1-98", 1-122", On-Machine Rod, 2-130"

Steam/Power Power Boilers 3 Fuel Oil/Gas
Steam, lbs hr 240,000
Electricity: Purchased 2,500 kwh/day Generated 7,500 kwh/day Turbogenerators 2-8500 kw/kva
Water Treatment Daily Usage 5,000 M.g.p.d Source River
Effluent Treatment Primary Treatment Yes Effluent to joint industrial/municipal plant
Products White clay coated white lined news bending chip, 565 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. S Main St 49721
Tel 616-627-5664
RR D&M siding Hwys US Rte # 27
H A. Bullard, Plant Mgr

Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products Sanitary tissue

CONSTANTINE

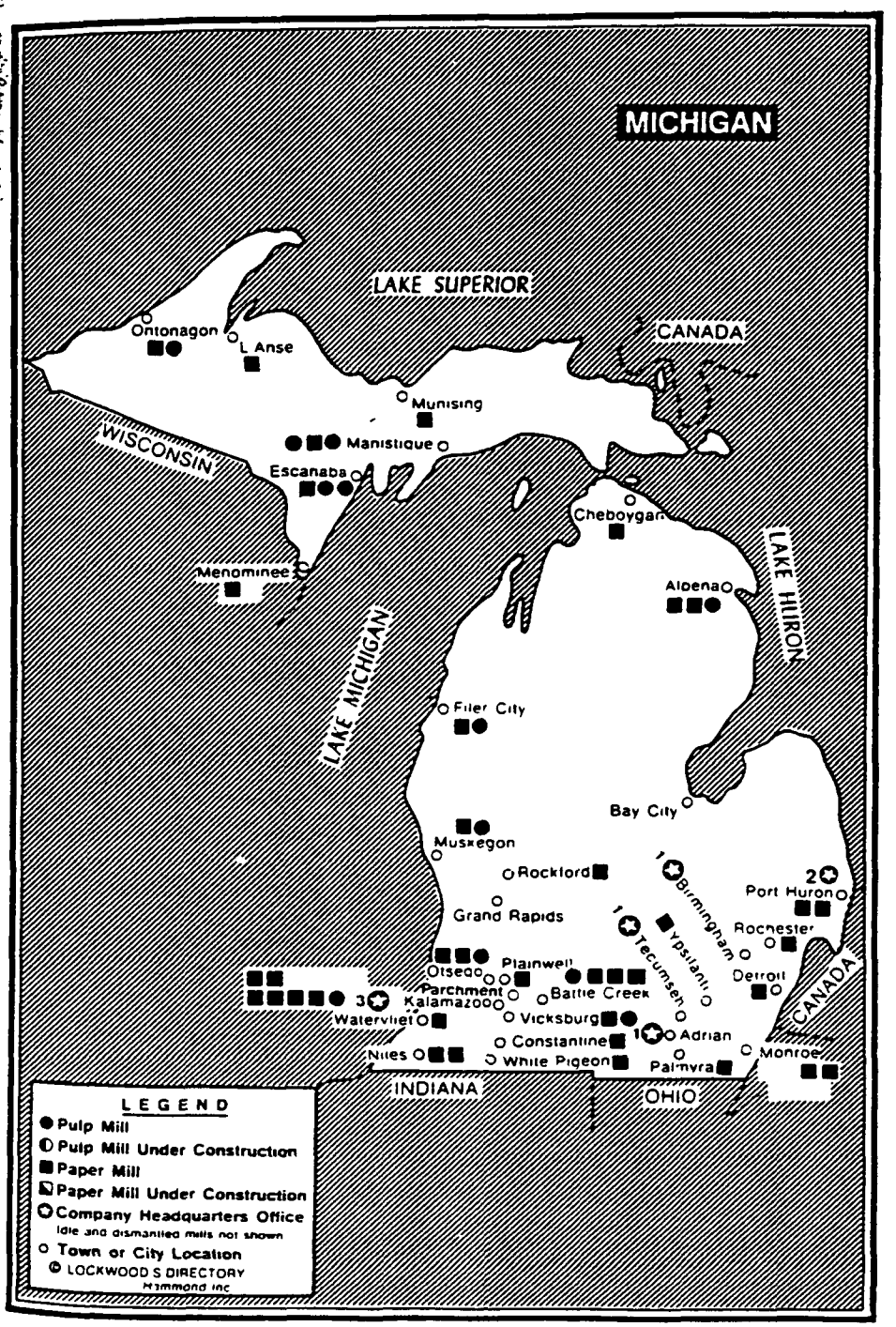
Simplex Products Group Centreville Rd 49042
Tel: 616-435-2425 Telex: 510-398-5730
RR ConRail siding Hwys: US Rte # 131
Walter Watchiwski, Plant Mgr
Donald Davies, Mill Supt
Roscoe Morton, Maint Supv
Dick Thomas, Cnvtg Supt
Andrew Jiskra, Shpng/Rcvng Supv
Sandy Munson, Office Mgr
Paper Mill Stock Preparation: Pulpers: 2. Screens: 2. Refiners: 2, 1 deflaker. Jordans. 2. Other Eqt.: 1 disc filter
Paper Machines. Seven-Cylinder 112" Width 100" Trim
Dryers. Drums: 4 sets hi-stack..
Finishing Plant. Other Eqt.. Laminators: 2. Die Presses: 2.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Press.: 150.
Electricity: Freq, phase: 440 v, 60, 3. Purchased: 100%.
Water Treatment. Daily Usage. 70. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Chipboard, test liner. 100 tons daily.

DETROIT

Port Huron Paper Co. 9125 W Jefferson Av 48209
Tel: 313-842-0042 Telex TWX: 810-2219-428
RR: ConRail siding, Rouge Yard Hwys: US Rte # IS-75
Egil R Aschim, Paper Mill Mgr
C Jennings, Supt
Donald Grace, Plant Engr
L.J Sturm, Tech Supt
Betty Bahnsen, Pur Agt
Mel Schwartz, Plant Traffic Mgr
R P McConkie, Pers Mgr
Lloyd H Jewell, Sales Mgr
Paper Mill Stock Preparation Pulpers: 4. Refiners: 7 double disc, 1 Morden. Jordans: 5
Paper Machines 1 Yankee MG. Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 130" Trim
Dryers. Yankee: 4
Steam/Power. Power Boilers. 3. Fuel: Gas/Oil.
Electricity: Generated 100%.
Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes
Effluent Treatment. Primary Treatment: City System
Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, 160 tons daily

ESCANABA

Mead Corp. Publishing Paper Div 49829
Tel 906-786-1660
RR C&NW, Soo Line sidings Hwys US Rte # 2,41, State Rte # 35
S.S Benedict, Pres, Gen Mgr
R Hake, Vice Pres, Admin
W R O'Donnell Vice Pres, Mktg
Gary Butryn, Opers Mgr
L King, Pulp Mill Supt
Ken E Noonan, Tech Dir
Kenneth Clark, Mgr Plant Engrg & Maint
G.E Barnes, Qual Mgr
J L Parr, Enviro Control Tech Dir
W H Goode, Util Mgr
J F Schneider, Sales Srvc Mgr
J.C Huskey, Contr
Richard E Nelson, Mgr Matls



MHI-00223

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

T.J. Gregoire, Dir Human Rsrcs
R Tompkins, Pub Rels Mgr
Erm Venuto, Gen Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks Chip Handling: Rader pneumatic system. Barkers. 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW, 1 Rader.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each.
Ground Wood, Refiner Avg. Daily Prod.: Bl. Hwd., 200 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-1B disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: Gwd: 1 stage. Kraft: C-E-D-E-D. Chlorine Dioxide System: Hooker SVP system.
Pulp Processing: Knotters: Gwd: 2 A-C vibrating. Kraft: SW Hooper centrifugal. Drainers: Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners: Gwd: 2-26" S-W Twin-Flo. Rejects Refiners: Gwd: 1 Bauer Screens: Gwd 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft: Bird Centrisorters. Cleaners: Gwd: 69-body, 3-stage Bauer 606 Centricleaner. Washers: Gwd. 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach. Wasners: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying. 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke. Screens: 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans 4. Cleaners 4-stage Bauer Centricleaner-Deculator system.
Paper Machines P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers Size Presses. 2. Calenders: 2 stacks Reels 3 Re-reelers. Winders: 3..
Coaters, off Machine Trailing Blade, 2-286", 2-172", 1-302" Wartsila double blade for C2S.
Finishing Plant. Supercalenders: 1 9-roll Bruderhaus, 2-278" 9-roll Appleton Roll Wrapping Eqt.: Lamb-Grays Harbor automatic. Rewinders: 1 Lenox, 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters: 3 - Hamblet Trimmers: 3 Seybold

Steam/Power. Power Boilers: 3 Fuel: Oil/Gas/Bark. Steam, lbs hr 1,600,000 Press 400/1500. Electricity Freq, phase 60 3. Installed H P 75,000 Hydroelectric. 2,000 kwh/day Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage 28,000 M g.p.d Source Lake Michigan Primary Treatment: Sand filters

Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier

Products. Coated book and publication papers, 1305 tons daily Kraft hardwood market pulp, 300 tons daily

FILER CITY

Packaging Corp. of America 49634
Tel: 616-723-9951
RR. C&O siding Hwys US Rte # 31
F J. Fragomeli, Vice Pres & Mgr
L.L Huffman, Prod Mgr
C F Mills Tech Dir
D J Elliott, Engrg Mgr
N.D Sorenson, Fin Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers: 1 12'x80' FMP. Chippers: 1 112", 12-knife. Chip Screens: 2 HiCap.

Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: 600 tons Continuous Digesters: 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect. Recovery Boilers: 1 fluidized bed unit.
Pulp Processing: Stock Refiners: 3 American Defibrator. Screens: 2. Washers: 4 Vacuum, 5 screw press.

Paper Mill Stock Preparation: Pulpers: 3. Screens: 3. Refiners: 5 Jones disc, 4 Sutherland. Jordans: 7 Miami.
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1200 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums: 148-60" dia..

Steam/Power. Power Boilers: 4. Fuel: Oil, Gas, Coal. Steam, lbs hr.: 600,000. Press.: 610.
Electricity: Purchased: 25,000 kwh/day. Generated: 475,000 kwh/day. Turbogenerators: 3-21,875 kva total.

Water Treatment. Daily Usage. 20,000. M.g.p.d. Source: River, Lake.

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.

Products. Corrugating medium, 720 tons daily.

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. (Sub. of SCM Corp.) 2030 Portage St 49001
Tel: 616-345-7131
Headquarters Location. See Executive Offices section for more details.
RR: ConRail sidings. Hwys: US Rte # IS 94, 131. State Rte # 43,96.
T.E. Flanagan, Vice Pres, Opers
R.W Mirkin, Vice Pres, Sales & Mktg
Kenneth Sweet, Prod Mgr
A.E. Vickery, Engrg Mgr
E.O Arnold, Supt, Mill C
R Mendham, Supt, Mill D
D.A. Falvey, Asst Engrg Mgr
D.C. Kirk Jr, Tech Dir
H.D. Peeters, Mgr Prod Sched
U.G. Stoeffler, Mgr Proc Devl
G.F Mahoney, Natl Sales Mgr
J.L. Curtis, Mktg Mgr
B.L Rasmusson, Dir Prchsg
Tom Cadwell, Traf Mgr

Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim

Steam/Power. Power Boilers: Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond, coated and uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 350 tons daily Coated electrostatic base, master and specialites, 75 tons daily Coated two sides matte finish book, 100 tons daily.

Allied Paper Inc. Monarch Mill Cork St 49003

Paper Mill Is Dismantled.

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (PO Box 2738) 49003
Tel: 616-382-2890 Telex. 810-277-2618
RR: ConRail GTW, siding Hwys: US Rte # I-94.
Thomas F Sullivan, Res Mgr
David Norman, Prod Mgr
Del Van Bruggen, Paper Mchne Supt, # 8 Mchne
Earl Vining, Paper Mchne Supt, # 7 Mchne
Larry Pio, Tech Dir
Fred J Shelton, Chief Engr
Ronald Bush, Plant Contr
F Higdon, Pur Agt
James H Cox, Traffic Mgr
H Fielder, Pers Mgr

Pulp Mill Deinked Pulp: Avg. Daily Prod.. 200 tons Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd: sidehill washers, 90 tpd.
Bleach Plant. Sequence: 1 Hypochlorite/Hydrosulphite stage. Towers: 1 downflow

Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Rewinders: 2 95".

Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 350,000. Press.: 450/275.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.

Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.

Products. Bond, offset, label, postcard, 460 tons daily.

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled.

★**James River Corp.** Paperboard Packaging Group 243 E. Paterson St. 49007
Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94. State Rte # 43.
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
Michael Patton, Supt, Plt 7
Jim Askew, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke. Refiners: 8 Hydrafiners, 2 Morden Stockmaker. Screens: 21. Jordans: 10.
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2.
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters.
Finishing Plant. Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.

Steam/Power. Power Boilers: 4 Fuel: Gas/Oil. Steam, lbs hr.. 300,000.

Water Treatment. Daily Usage, 4,000 M.g.p.d. Source: Deep well.

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily.

National Gypsum Co. 2305 E. King Hwy
RR: ConRail siding. Hwys. US Rte # 12.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums: 110 Infrared: 30. Calenders. 1 stack..
Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr . 70,000.
Electricity: Purchased: 48,000 kwh/day.

Water Treatment. Daily Usage. 580. M.g.p.d. Source: Wells, City.

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Gypsum board liner, 145 tons daily. Mill

MHI-00224

SIRRINE

Complete Design of Pulp and Paper Facilities
Engineers Since 1902 An Employee Owned Company
USA Greenville SC 29606 • Houston TEX 77042 • Research Triangle Park NC 27709
CANADA Montreal, Quebec • BRAZIL, Sao Paulo

closed for indefinite period
Paper Mill Is Idle

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp PO Box 86 49946

Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41
L.W. Swanson, Plant Mgr
E.R. Johnson Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr

Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper Consistency Regulators Brammer type
Paper Machines Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine Acrylic coater

Steam/Power. Power Boilers. Steam, lbs hr.: 93,000
Electricity: Purchased 100,000 kwh/day

Water Treatment. Daily Usage, 1,000 M.g.p.d. Source: Bay

Products. Mineral board products, perforated and unperforated tile, other interior finish products, 200 tons daily

MANISTIQUE

Manistique Papers Inc. PO Box 111 49854

Tel: 906-341-2175
RR: Soo Line sidings Hwys: US Rte # 2
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Audun Grimnes, Mgr, Spcl Proj
Francis J Kasun, Pur Mgr
Allen Schuster, Sales Mgr
Walter Alexander, Treas

Woodhandling and Preparation Roundwood Storage Capacity 15,000 cds Mobile Equipment 2-cranes Slashers 1 Barkers 1 drum Bark Presses: 1 Hogs 1 Avg Daily Use of Peeled Pulpwood: 65 cds

Pulp Mill Ground Wood, Stone Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders 6 Voith magazine
Deinked Pulp Avg Daily Prod 110 tons
Pulp Processing Stock Refiners 1 Screens: 2 Finckh, 2 Cowan

Paper Mill Stock Preparation: Pulpers 2 Jones. Refiners 1 Claflin
Paper Machines 1 Fourdrinier 165" Width 154" Trim 2600 fpm
Dryers Drums 40-60" dia. Calenders 1 Reels, 1 Winders 1 Beloit

Steam/Power. Power Boilers: Fuel Coal Steam, lbs hr 145,000 Press 350
Electricity Purchased 5000 kwh/day

Water Treatment. Daily Usage, 2,500 M.g.p.d Source River Primary Treatment Yes

Effluent Treatment Primary Treatment Clarifier Secondary Treatment Activated sludge system

Products. Newsprint groundwood printing and groundwood converting papers, 200 tons daily

MENOMINEE

Menominee Paper Co Inc (Sub of Bell Fibre Products Corp) 144 First St (PO Box 300) 49858

Tel 906-863-5595
RR C&NW, CMStP&P Hwys US Rte # 41 State Rte # 173
Donald Estebo Gen Mgr
Ernest Granam, Mgr Pur Pdcts
William Walker Paper Mill Supt
Steven M Courtney Tech Dir
Alfred J Bickel Chief Engr
Robert Pomrenke Cnvtg Supt
Robert Sultan Sales Mgr
Dennis Detemple, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt.: Waxers: 5.

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Yes.

Products. Linerboard, corrugating medium, waxing tissue, lightweight MG, 360 tons daily. Waxed paper in rolls and sheets

MONROE

Smurfit Paperboard Div. of Smurfit Industries Inc. (formerly Time Container) 1151 W. Elm Av. 48161

Tel: 313-241-3220
RR: C&O siding. Hwys. US Rte # 24, I-75.
Robert H Degraer, Vice Pres, Gen Mgr
A.G. McBee, Mill Prod Mgr
A Bussell, Mill Supt
Edward G. Strass, Chief Chemist
W Manor, Chief Engr
Charles Robertson, Fnshg Supt
Delbert Broughton, Plant Contr
E O'Brien, Pur Agt
E Flotow, Sales Rep
J Zimmerman, Sales Rep

Paper Mill Stock Preparation. Pulpers 2 Hydrapulper Refiners: 2 Emerson Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums: 110. Calenders 2 stacks Winders: 2.
Finishing Plant Rewinders 2 Trimmers 1

Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr., 70,000
Electricity Purchased. 100%

Water Treatment. Daily Usage, 1,000. M.g.p.d Source: River

Effluent Treatment. Primary Treatment: Joint municipal-industrial system

Products. Test linerboard, pasted chip, plain chip, can and tube board, lightweight chip, panel board, 110 tons daily

Union Camp Corp. Unbleached Paper & Board Div 1109 E Elm St (PO Box 588) 48161

Tel 313-241-7700
RR ConRail, Detroit Toledo Shore Line Hwys: Near US Rte # I-75 Approx Mi 1 State Rte # 56
E.D Redman Res Gen Mgr
J Fuko, Mill Mgr
J.R VanSlamprouck Gen Supt
E.J McCue Tech Supt
W J Sandretto Mill Engr
N.D Lee Jr, Dir, Prchsg
E L Kelley, Mill Sales Mgr
P R Berestecky, Ind Rels Mgr

Paper Mill Stock Preparation Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper Screens, 21 Selectifier Refiners 6-32" Bauer 442 disc, 2-34" S-W Jordans 6 Miami 2A, 2 Emerson 2-OD. Cleaners 8-10" Vortrap Consistency Regulators: 4 Bird
Paper Machines B-C Seven-Cylinder 110" Width 98' Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers Drums 127, 103, and 137-42" dia. Reels: 3 Autoflyte Winders 3 two-drum

Steam/Power. Power Boilers. 2 Fuel Coal/Gas/Oil Steam, lbs hr 240,000 Press. 600/175 psi
Electricity Freq, phase: 60 3 Generated: 6,000 kwh Turbogenerators 2-7500 kw, 2000 kw, 2-1000 kw diesel generators

Water Treatment. Daily Usage, 800 M.g.p.d Source Lake Erie. Primary Treatment: None

Effluent Treatment. Primary Treatment 2 50' Clarifiers. Secondary Treatment: Municipal Syst.

Products. Tube and core board linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily

MUNISING

Kimberly-Clark Corp. K-C Technical Pape & Specialty Product Grp. Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR: LS&I. Hwys: State Rte # 28,94.
Walter S Servia, Mill Mgr
E.E. Estrep, Admin Mgr
Daniel F Claus, Opers Mgr
R.D. Pratt, Paper Mill Supt
G.M. Linquist, Tech Srvcs Mgr
G.C. Nelson, Engrg Mgr
K.Z. Livermore, Spclties Supt
W.G. Stangel, Mgr Fin Srvcs
R Eugene Heimerman, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.

Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby.

Water Treatment. Daily Usage, 5,000 M.g.p.d. Source. Lake Superior

Effluent Treatment. Primary Treatment: Yes

Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr 49443

Tel: 616-755-3761 Telex: 510-394-4300
RR: C&O siding Hwys: US Rte # 16,31,196. State Rte # 46
R Furer, Res Mgr
Karl Dornish, Prod Mgr
Dan Burling, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
John S Moran, Mgr, Srvcs
Dick Matlack, Paper Mill Supt
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
W LaPierre, Fnshg/Shpng Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr

Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds. Chip Storage Capacity 120,000 tons Mobile Equipment: Hopto RR crane, Poclain crane Flume: 1. Log Handling Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system Chip Unloaders Hydraulic truck dumper Barkers 1-30 cds/hr Manitowoc drum Hogs: 1 Montgomery Chippers, 1 15 knife Carthage Norman Chip Screens 3 Link Belt Avg Daily Use of Peeled Pulpwood 300 cds swd, 200 cds hwd

Pulp Mill Kraft Avg Daily Prod Bl Swd., 125 tons Bl Hwd., 125 tons Continuous Digesters: 1 Kamyr Chemical Recovery Plant, Evaporators: 1 six-effect Swenson Black Liquor Oxidation System Champion system Recovery Boilers 1 C-E, 750,000 lbs solids/day Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd Gas Scrubbers 1 Lime Mud Washers: 1 Dorr-Oliver Recausticizing System Dorr-Oliver
Bleach Plant Sequence C-E-H-D Towers: 4 Mixers 4 Thick Stock Pumps 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters 3 Impco Screens: 3 Cowan, Cleaners 1 three-stage Bauer system Washers 3-9' x 16' Impco vacuum Deckers 2-9' x 16', 8' x 8' Impco Other Eqt.: 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines, 1-100 tpd Kamyr. Cutter-Layboys Hamblet. Scales 1

Paper Mill Stock Preparation Pulpers: 6 Vokes rotor Hydrapulper Screens 2 Selectifiers Refiners 5 Claflin 1 double disc Jordans 4 Shartle Cleaners:

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • SEMI-BLEACHED KRAFT PULP
100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300

2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro. Size Cookers. 1 continuous. 3 batch.
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum..
Coaters, On-Machine. Trailing Blade, 1-163" puddle, 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 1 Lenox folio; 3, 100" to 112" Trimmers: 3-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000 Press.: 500.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120
Tel: 616-683-1100
RR: ConRail siding Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Chmn Bd
B.R. Bigford, Pres
R.D. Clark, Exec Vice Pres, Sec
T.R. Friedrich, Vice Pres, Mfg
Jerry E French, Treas
G Halliwell, Chief Engr.
R. Etzcorn, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers Winders: 3..
Finishing Plant. Sheeters: 3. Trimmers. 2. Other Eqt.. 2 Embossers
Steam/Power. Power Boilers: Fuel Coal Press 150
Electricity: Freq, phase: 440v, 60, 3. Installed H P 1600 electric, 1600 water
Water Treatment. Daily Usage, 800 M.g.p.d Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 50 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel: 616-683-4100 Telex 258459
RR. ConRail Hwys US Rte # 12,31 State Rte # 60,40
Chuck Dewitt, Plant Dir
Jack Hesser, Paper Mill Supt
Tom Deforrest, Dir Engrg
V C Grathol, Plant Engr
R Gahis, Plant Contr
Earl Stevens, Pur Agt
W Sands, Distrib Mgr
T Hitt, Ind Rels Dir
A Seaman, Traf Mgr
Paper Mill Stock Preparation Pulpers 3 Dynapulpers Screens 1. Refiners: 4. Jordans: 1. Cleaners 5 Consistency Regulators 2. Other Eqt.. 2 Savealls.
Paper Machines Stevens Formers: 1-162" wide, 150" trim, 1000 fpm
Dryers. Drums 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll Reels 1 Winders: 2 Shear-Cut..
Steam/Power. Power Boilers 1 Fuel Gas/Oil Steam, lbs hr.: 35000 Press.: 100 psi
Electricity: Freq, phase: 60, 3 Installed H.P. 3,264 Purchased. 32,000 kwh/day
Water Treatment. Daily Usage. 1,000. M.g.p.d Source: Wells
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons daily.

ONTONAGON

Champion Packaging Div. of Champion Intl Corp. 115 Lakeshore Rd. 49953
Tel: 906-884-4121
RR: Milw Rd, siding. Hwys: US Rte # 45. State Rte # 64.
Marshall Schneider, Res Mgr
Roland E Howard, Prod Mgr
Douglas Karttunen, Tech Dir
Anthony Grahek, Paper Mill Supt.
Michael Rose, Pulp/Power Supt.
Michael Peterson, Pers Dir
Robert Schon, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds.. Chip Storage Capacity: 50,000 tons. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: 2-Tyler. Avg. Daily Use of Peeled Pulpwood: Hwd, 500 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl Hwd., 440 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit.
Pulp Processing: Hot Stock Refiners: 2 Sprout Waldron. Stock Refiners: 1 Sprout Waldron high consistency. Washers: 1 Eimco, 1 Swenson.
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 3 Bauer 440, 5 Sprout-Waldron. Screens: 2 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120 Calenders: 2. Winders: 2..
Steam/Power. Power Boilers: 1, 2 package. Fuel: Coal, Oil, Bark. Steam, lbs hr.. 325,000 Press.. 1500/250 psi.
Electricity: Freq, phase: 60, 3 Installed H.P 13500 Purchased: 50%. Generated: 50% Turbogenerators: 1 GE, 15,000 kw
Water Treatment. Daily Usage, 8,500 M.g.p.d. Source: Lake Superior. Primary Treatment: None
Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: Activated sludge, gravity thickener, belt filter press
Products. Corrugating medium, 565 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div PO Box 187 49078
Tel 616-692-6211 Telex: 810-277-7240
RR ConRail siding Hwys: Near US Rte # 131 Approx Mi 2 State Rte # 89
Robert A Davis, Jr., Mill Mgr
Donald B Moore Mgr, Board Mill
R F Kutscher, Mgr, Engrg Srvcs
Robert Stevenson, Tech Dir
M.L. Knapp, Mgr, Power
H.J Klein, Mgr, Supply & Distr
I E. Johnson, Mgr, Shppg & Rcvng
F O Ford Mill Contr
B M McClary, Mgr, Cnvtg
J J. Shipley, Human Rsrcs Mgr
R.C Powers, Prod Control Mgr
Paper Mill Stock Preparation Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers Screens: 8 Refiners, 2 34" Jones DD, 1 Bauer double disc Jordans 4 Cleaners. Black Clawson, Bird filler, 1 asphalt dispersion unit
Paper Machines Eight-Cylinder 140" Width 126" Trim
Dryers. Drums 163 Calenders 2
Coaters, Extrusion Trim Width, 1 86" Egan PE extrusion coater
Steam/Power. Power Boilers: 3 Fuel. Coal/Gas/Oil Steam, lbs hr.. 134,000. Press.. 875/300 psi
Electricity: Freq, phase: 60,3. Installed H.P. 8000 Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day Turbogenerators. 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage, 450 M.g.p.d Source: 4 Wells. Primary Treatment: Chlorination Secondary Treatment: Iron stabilization
Effluent Treatment. Primary Treatment: 2 clarifiers Secondary Treatment: 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily.

Menasha Corp. Paperboard Mill N. Farmer St. 49078
Tel: 616-692-6141
RR: ConRail siding Hwys: US Rte # 131. State Rte # 89.
Bruce Buchanan, Gen Mgr
J Blaukamp, Tech Mgr
T Clemmons, Plant Engr
D Pickering, Proj Engr
D Cross, Proj Engr
G Hultmark, Power Engr
Ron Thaxton, Proj Engr
Lester Phillips, Pur Agt
John Hanson, Wood Dept Mgr
Woodhandling and Preparation Avg. Daily Use of Peeled Pulpwood: 500 green tons purchased chips.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl. Hwd., 225 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 2 S-W secondary; 2 DKP dewatering, presses.
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Other Eqt.. 1 Impco disc filter.
Paper Machines 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers. Drums: 95.
Steam/Power. Power Boilers: 4. Fuel: Gas. Steam, lbs hr.. 270,000 Press.: 600 psi.
Electricity: Purchased: 4000 kw. Generated: 4000 kw. Turbogenerators: 1-4000 kw/kva
Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration ponds.
Products. NSSC corrugating medium, 360 tons daily

PALMYRA

Simplex Products Group 49268
Tel: 517-263-5160
Hwys: US Rte # 223.
Bill Maxam, Plant Supt
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers Refiners. 2 Bauer disc. Jordans. 3 Other Eqt 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers: Fuel: Gas. Press.. 150 psi
Electricity Freq, phase: 60, 3 Purchased: 100%
Water Treatment. Daily Usage, 120. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Yes.
Products. Chipboard, reinforced and saturated building board, waterproof paper and boxboard, 50 tons daily

PARCHMENT

★**James River Corp. KVP Group.** Parchment & Paper Divs. 100 Island Av 49004
Tel: 616-383-5000
Headquarters Location See Executive Offices section for more details

MHI-00226

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • UNBLEACHED KRAFT PULP
100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

RR: ConRail, CK & S, siding Hwys: US Rte # 12, 131, I-94, State Rte # 43
Andrew T Muha, Vice Pres, Gen Mgr, Ppr Div
Keith N Bartlam, Vice Pres, Gen Mgr, Prchmt Div
Michael D Barnes, Mgr, Ppr Mfg & Matl Hndlg
Austin Proctor, Mgr, Qual Control
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alrick, Supt, Matl Hndlg & Shppg
Ken Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Donald T Carr, Ind Rels Mgr
Stepher Parker, Mgr, Sls & Mktg, Fine Ppr
Robert Russell, Mgr, Adm & Plnng

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine. Air Knife. 1. Blade: 2. Solvent: 1.
Finishing Plant. Supercalenders: 2 Rewinders: 7. Sheeters: 2 Trimmers. 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.. 400,000

Water Treatment. Daily Usage, 5,000 M.g p.d. Source: Well.

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration lagoon

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily Mill No 2, 280 tons daily

PLAINWELL

Plainwell Paper Co Inc. Affl of Philip Morris Industrial Inc. 200 Allegan St 49080

Tel: 616-685-5851 Telex TWX: 810-277-4990

RR: ConRail siding Hwys US Rte # 131 State Rte # 89
Robert Green, Plant Mgr
James Ishmael, Dir Mfg
Samuel Taylor, Gen Mgr
Richard J Thomas, Mgr Fnshng & Matl Hndlg
George Lawton, Mgr Tech Opers
Victor Ferguson, Mgr R&D
Gary N Longworth Mgr Engrg & Maint
Robert Tardiff, Mgr Field Tech Srvs
Kay C'Woodruff, Mgr Qlty Contrl
Alan K Bruner, Supt Distr
Barbara J Bradley, Buyer
Larry Henseler, Contr
Jasper Butler, Dir, Admn
Jeffrey Hider Dir Mktg
William Devine, Sls Mgr, Prtng Pprs
Joseph E Casatelli, Sls Mgr, Tech Pprs

Paper Mill Stock Preparation Pulpers 1-6000 lb and 1-4000 lb Hydrapulper Refiners 7 double disc Jordans 3 Stock Mixers 3 blend chests
Paper Machines 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 1700 fpm
Dryers Size Presses 3
Coaters, On-Machine Trailing Blade. 1-120" Capacity 120 tons daily
Finishing Plant. Supercalenders: 2-65", 1-77", 1-126". Roll Wrapping Eqt.: 1 automated line. Rewinders: 3. Sheeters: 2. Trimmers: 2. Other Eqt.: 1-60" dual roll emposser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 150,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 kwh/day.

Water Treatment. Daily Usage, 2,000. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: 1-aeration pond, secondary clarifier.

Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol, release base, sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book, stencil backing, 225 tons daily

PORT HURON

★**Dunn Paper Co.** Sub. of Dennison Mfg. Co. 218 Riverview St (PO Box 227) 48060

Tel: 313-984-5523 Telex: TWX: 810-231-7053

Headquarters Location. See Executive Offices section for more details.

RR: GTW siding. Hwys: US Rte # I-94.
James R Scohy, Mfg Mgr
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Dir, Prsnnl
Frederick Lange, Machine Supt

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans: 2.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers Yankee: 3 12', 1 18' dia. units. Size Presses: 4. Calenders: 2. Winders: 4..
Coaters, On-Machine.Roll: 1. Blade 1.
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.. 76,000. Press.: 600/200.
Electricity: Freq, phase: 60 3. Purchased: 11,000 kwh./day

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 150 tons daily

★**Port Huron Paper Co.** 1660 Thomas St 48060

Tel: 313-982-0191 Telex TWX: 810-231-6098

Headquarters Location. See Executive Offices section for more details.

RR: GTW siding Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25
Thomas R Kroll, Vice Pres, Mill Mgr
R.P Cole, Vice Pres, Sales
E.J Grys, Prod Mgr
W.M Fries, Plant Engr
M.D Sikora, Tech Dir
L.H. Jewell, Sales Mgr, Spclty & Pckgng Pprs
L.E Ryrners, Sales Mgr, Carbonizing Pprs
G.L. Genan, Sales Mgr, Prntg Pprs
G.A Limberg, Mgr, Cust Srvcs

Paper Mill Stock Preparation: Pulpers: 5. Screens: 6. Refiners 40 Jordans, 7 Cleaners: 6
Paper Machines Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums. 83. Yankee 4 Size Presses: 5. Calenders 7 stacks Winders. 6.
Finishing Plant Rewinders 2

Steam/Power. Power Boilers. Steam, lbs hr.: purchased
Electricity Purchased: 100%

Water Treatment. Daily Usage, 10,000 M.g.p Source: River

Products. Carbonizing, coil winding, coating bas foil mounting, interleaving, kraft specialtes, lamnating, offset, opaque, tissue wrapping and specia bes, 200 tons daily.

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. o James River Corp.) 340 Mill St 48063

Tel: 313-651-8121

RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
J.T. Webb, Vice Pres, Gen Mgr
William M Kirkland, Plant Mgr
Carl W Bach Jr, Ppr Mchne Supt
Richard Agar, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Ptachta, Plant Engr
Robert L Blome, Sales Mgr, Ind Filter
Mary Lou Deaton, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim Dryers. Size Presses: 1. Calenders: 1 stack.
Coaters, On-Machine.1-62" roll saturator, 20 tons daily cap.
off Machine. 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 1-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Shendan. Sewing Machines: 1.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 150. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341

Tel: 616-866-1523

RR: Mich Nthrn. Hwys: Near US Rte # 131 Approx Mi 3.
Robert Alspaugh, Mill Mgr
James Isabel, Asst Mill Mgr
Craig Linderman, Mill Supt
Ronald Van Dyke, Maint Supt

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZunk. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 70" Trim 315 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1 Waldron Microjet.
Finishing Plant. Trimmers: 2

Steam/Power. Power Boilers 2. Fuel: Coal, Steam, lbs hr: 50,000 Press.: 135
Electricity: Freq, phase: 60, 3. Installed H.P 2100 electric, 300 water Purchased: 1500 kva.

Water Treatment. Daily Usage, 20 M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.

Products. Boxboard, clay-coated, chip, news, lined and solid kraft, food grade 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**

Headquarters Location. See Executive Offices section for more details

MHI-00227

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • WOODPULP

100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

TROY

★**Abitibi-Price Corp.** Building Products Group

Headquarters Location. See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St. 49097

Tel: 616-649-0510 Telex: 810-277-1710

RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.

Peter Lowe, Opers Mgr
David De Young, Gen Supt
Adolph Konieczny, Ppr Mchns Supt
Chester Dobrowolski, Fnshng & Coating Supt
Raymond Wagner, Tech Dir
Roger Huckendubler, Chief Engr
Rodger Watson, Plant Acct
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir

Pulp Mill Rags: Batch Digesters: 2 10,000 lb Rotary. Pulp Processing: Washers: 4 1000 lb rag.

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 2-1000 lb. Bertrams. Screens: 5. Refiners: 2 double disc Morden. Jordans: 5 Jones Imperial.

Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters. off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110"

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr 80,000
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 2,500. M.g.p.d. Source. River, Wells.

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration basin, spray irrigation.

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. (Sub. of Howard Paper Mills Inc.) 279 Paw Paw Av 49098

Tel: 616-463-3141 Telex 72-9432

RR: C & O siding Hwys: US Rte # I-94 State Rte # 140

Lou Mehr, Pres
Bucky Carrango, Vice Pres, Mfg
Milton F Stibal, Vice Pres, Mfg Srvcs
R Charles Van Horn, Vice Pres, Treas
David D Stiles, Vice Pres, Sales
Dean D McKinney, Asst to Pres, Sec
Jimmie D Paskel, Coatg Supt
Walter Elliott, Pprmkg Supt
Lemoin M Shadduck, Mgr, Engrg
John H Matthews, Dir Prchsg

Paper Mill Stock Preparation: Pulpers, 4 Refiners: 4 Hydradisc. Jordans: 3 Jones

Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders 2.
Coaters. off Machine. Air Knife. 4: 92", 88", 70" 66"
Finishing Plant Supercalenders. 5. 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 1 62" Embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000 Press.: 235.
Electricity: Installed H.P 450 water. Purchased: 100%.

Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: Spray irrigation.

Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099

Tel: 616-483-7601

RR: ConRail siding. Hwys: US Rte # 12.

James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
William A Lunsford, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Rose Hiner, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 5 Hydrapulper. Screens: 6. Refiners: 4. Jordans: 2.

Paper Machines. 1 six-unit Ultraformer, 110" trim.. Dryers. Drums: 76. Calenders: 3..
Coaters. On-Machine. Air Knife, 1-110".
Finishing Plant. Rewinders: 1. Trimmers: 1-85"

Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 180,000. Press.: 500 psi.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.

Products. Clay-coated boxboard, 160 tons daily

YPSILANTI

Peninsular Paper Co. (Sub of James River Corp. Curtis Paper Div.) 1000 N Huron St. 48197

Tel: 313-482-2600 Telex: 810-223-7004

RR: ConRail siding. Hwys: US Rte # I-94

Edward G Gremban, Vice Pres, Res Mgr
Frank L Wright, Vice Pres Sales
Gerald Linzmeyer, Mgr Pprmkg
David Seidler, Chief Engr
William Turner, Fnshg & Shpg Supt
Jeffrey Brown, Mgr Qlty Contrl
Harold Rhora, Traffic Mgr

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper Refiners 1 Morden Jordans 2 Jones Standard. Cleaners. Bauer Centricleaners Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.

Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Dryers Drums: 52-36" dia Size Presses: 2. Calenders 2 stacks Winders 2.
Finishing Plant Roll Wrapping Eqt: 1 line Rewinders: 1-78" Langston Sheeters. 2-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit Other Eqt. Embossers: 3. Printer-Embossers. 1 Pasters. 1 duplex

Steam/Power. Power Boilers 1 Fuel. Gas/Oil. Steam, lbs hr. 40,000 Press 130
Electricity: Freq, phase 60, 3. Installed H P 1200 Purchased: 25000 kwh/day

Water Treatment. Daily Usage, 500 M.g.p.d. Source Wells, River Primary Treatment: yes.

Effluent Treatment. Primary Treatment: City sewer system

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2

RR: NP siding. Hwys: US Rte # 2,71,371

Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Myron Haiby, Sales, Traffic Mgr

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 100 cds aspen.

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod., Unbl. Hwd., 100 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer.

Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..

Steam/Power. Power Boilers: 1. Fuel: Bark. Steam, lbs hr.: 14,000. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.

Water Treatment. Source: City.

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 100 tons daily

BRAINERD

Potlatch Corp. Northwest Paper Div Mill Av 56401

Tel: 218-828-3200 Telex: 910-561-3508

RR: Burl Nthrn. Hwys: US Rte # 210,371.

Earl J DeRocher, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shpg
Leonard W Bade, Mgr Ctg
David E Dinham, Pur Agt
Terrance M Trettel, Mgr Traffic

Paper Mill Stock Preparation Pulpers: 1 Morden, 2 Hydrapulpers. Refiners 1 disc. Jordans: 5.

Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 101. Size Presses: 2. Calenders: 3..
Coaters. off Machine 1-180" Billblade, 1-112" two-station blade
Finishing Plant. Supercalenders: 2-121", 1-80". Rewinders: 5. Sheeters: 7 Trimmers: 4.

Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.. 132,000
Electricity: Purchased 140,000 kwh/day. Generated: 50,000 kwh/day

Water Treatment. Daily Usage, 2,300. M.g.p.d. Source: River Primary Treatment: Infilco accelerator.

Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier. Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.

Products. Bond, xerographic, coated offset text and cover (gloss, matte, dull, velvet), 370 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720

Tel. 218-879-2800 Telex 910-561-2110

RR: Duluth & Nrthwstrn, BN, Milw, siding Hwys: Near US Rte # 61, IS-35 Approx Mi 3. State Rte # 33,45

J W King, Vice Pres, Mfg Mgr
S.A Holloway, Plant Mgr
J.J. Polyner, Mfg Mgr, Board
R.W Bohren, Mfg Mgr, Blanket

Paper Mill Paper Machines 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Tufflex Mill B 1 Former and dryer, 114" width, 110" trim
Tufflex Mill C. 1 Former and dryer, 114" width, 100" trim
Fabrics Mill: 1 *Curlator-Rando feeder and webber,* impregnator and dryer, 80" trim
Coaters. On-Machine. Roll, 3 in board mill.

MHI-00228

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1000 East 146th Street • Burnsville, MN 55337
Phone 612/431-6336 • Telex 910-576-0234
Cable 'SBS PAPER' USA • WATS 800/328-4018

Jones Hi-Lo Beaters: 4-2000 lb. Screens 1. Refiners. 1 disc. Jordans. 2.
Paper Machines Willow Mill: 1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 72" Width 64" Trim
Laurel Mill: 1 Fourdrinier 128" Width 115" Trim
Finishing Plant. Rewinders: Willow Mill. 2. Trimmers: 1.
Supercalenders: Laurel Mill: 1. Rewinders: 2. Sheeters. 1 Trimmers: 1. Die-Cutters: 1.
Other Eqt.: Gravure Printing Presses: 6. Rewinders: 2.
Steam/Power. Power Boilers: Willow Mill: 2. Fuel. Oil Press.. 100 psi.
Electricity: Freq. phase: 550v, 60, 3. Hydroelectric: 100 kw generated/purchased.
Power Boilers: Laurel Mill: 2. Fuel. Oil. Press.: 250 psi
Electricity: Freq. phase: 550/2300v, 60, 3. Purchased: 250 kw.
Products. Absorbent, decorative laminating; resin saturating; coffee, industrial and inorganic filter, inorganic industrial, thermal insulation, synthetic fiber, gravure printed decorative papers. Willow Mill: 30 tons daily. Laurel Mill: 40 tons daily.

TURNERS FALLS

Esleeck Manufacturing Co. Inc. Canal St (PO Box 70) 01376
Tel: 413-863-4326
Hwys US Rte # 91 State Rte # 2A
William C Blanker, Pres
Curt Pfluger, Vice Pres, Sales
Charles H Blanker, Vice Pres, Treas
Reynold J Conger, Tech Dir
Eugene R Klos, Plant Engr
Donald C Young, Mgr, Mfg
John H Helbig, Mgr, Cust Srvcs
Ann H Blanker, Sec, Asst Clerk
Pulp Mill Rags: Batch Digesters: 2 Rotary
Pulp Processing: Washers: 2-2200 lb rag. Pulpers: 1.
Paper Mill Stock Preparation: Beaters: 1 1200 lb Holland, 2 1500 lb Bertram, 1 1500 lb breaker Jordans 1
Paper Machines. 1 Fourdrinier 122" Width 110" Trim
Dryers Drums 14 Size Presses. 3 Calenders: 1. Finishing Plant Supercalenders. 3-38", 43", 56" Rewinders 2 Sheeters: 1 Lenox cut-size. 4 34", 38", 34", 44" Trimmers: 3-57", 57", 52"
Steam/Power. Power Boilers: 4. Fuel: Oil Steam, lbs hr 16,000 Press. 225
Electricity: Freq. phase. 480 v. 60, 3. Purchased: 10,200 kwh/day Generated: 1,800 kwh/day. Turbogenerators 2 300 kw turbines.
Water Treatment. Daily Usage. 1,000. M.g.p.d Source: River. Primary Treatment: Yes
Effluent Treatment. Primary Treatment: Clarifier, flotation saveall, effluent to municipal plant.
Products. Rag content, erasable, onion skin, thin bond, technical, chart, airmail, art, diazo intermediate base, sensitizing, saturating, surface watermarked, tracing, waterleaf, writing, 15 tons daily

Strathmore Paper Co. 01376
Tel 413-863-4333
Hwys Near US Rte # 2 Approx Mi 1
Gary F Regan, Plant Mgr
Mark Allen, Plant Supt
Fred Witek, Chem
David Heller Plant Engr
Paper Mill Paper Machines Equipment listed under Westfield MA mill
Products. Bond, writing, index, text, ledger, cover, drawing and illustration papers

WELLESLEY

★**Deerfield Specialty Papers Inc.**
Headquarters Location See Executive Offices section for more details

WESTFIELD

Stevens Paper Mills, Inc. 77 Mill St.
RR: ConRail. Hwys: US Rte # 202.
David Schoales, Pres
Paper Mill Stock Preparation: Beaters: 5 Bertram, 8 other. Jordans: 10.
Paper Machines. 4 Fourdrinier 94" Width 86" Trim
Products. Condenser and coil winding tissue, electrical insulating paper. 10 tons daily.
Paper Mill is idle

★**Strathmore Paper Co.** S Broad St 01085
Tel: 413-568-9111 Telex: 95-5442 TWX: 710-350-1384
Headquarters Location. See Executive Offices section for more details.
Phillip N Wyman, Plant Supt
James E Prendergast, Plant Engr
Paper Mill Stock Preparation: Pulpers: 4. Refiners. 21. Cleaners: 65 Dirtec, Bauer.
Paper Machines. 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 90" Width 78" Trim
Finishing Plant Supercalenders: 4. Sheeters: 14 Trimmers 16 Other Eqt.. Air Dryers. 3.
Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papeterie, steel plate, patent office board, gravure, 160 tons daily, total of Turner's Falls, Westfield, Woronoco, and Millers Falls mills

WEST GROTON

Hollingsworth & Vose Co. 01472
Tel 617-448-3311 Telex: 928459
RR: ConRail siding Hwys: US Rte # 40 State Rte # 2A.
Jack Lukins, Mill Mgr
Robert Lurvey, Mgr, R&D Lab
Jerome Rizzo, Gen Supt
Paper Mill Stock Preparation Pulpers 3 Jordans: 4 Cleaners: Bauer Centricleaners
Paper Machines. 1 Fourdrinier 66" Width 60" Trim
Rotoformers 1 65" width, 58" trim
Rotoformers 1 120" width, 110" trim.
Finishing Plant Rewinders: 2 Sheeters. 2. Trimmers: 2
Steam/Power. Power Boilers: 3 Fuel: Oil Press. 150
Electricity: Freq. phase: 60, 3
Water Treatment. Daily Usage. 5,000. M.g.p.d Source River
Effluent Treatment. Primary Treatment Yes. Secondary Treatment Yes
Products. Industrial specialty saturating, absorbent, automotive filter absolute filter, book cover, latex impregnated and non-woven papers. 50 tons daily

WEST SPRINGFIELD

★**Preco Corp.**
Headquarters Location See Executive Offices section for more details

Premoid Corp. (Sub of Preco Corp.) Front St. 01089
Tel: 413-736-4554 Telex: 955474
RR: ConRail siding Hwys: US Rte # 20 Near State Rte # Mass Tnpke Approx Mi 4
Joseph H Torras, Chmn & CEO
Robert W Ackerman Pres & COO
F B Comery, Vice Pres, Sales
Neil S Balfour, Vice Pres, Mfg
J.A Cancelliere Vice Pres, Coating Div
A T Thibault, Treas
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers: 1 Screens 2 Refiners 1. Jordans 1
Paper Machines 1 Fourdrinier 72" Width 63" Trim Coaters, off Machine. 1-60" reverse roll. 1-60" knife. 1-60" impregnator
Finishing Plant. Rewinders. 1. Sheeters: 1. Other Eqt.. 1-60" two-station roto-gravure printer. 3-60" roll embossers
Water Treatment. Daily Usage. 400. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers. 30 tons daily

Southworth Co. Front St 01089
Tel: 413-732-5141 Telex: 955-484
RR: ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec
Paper Mill Stock Preparation: Pulpers: 2. Refiners. 2 disc. Jordans: 2.
Paper Machines 1 Fourdrinier 85" Width 70" Trim Dryers. Size Presses: tub.
Finishing Plant Supercalenders: 1. Sheeters. 3. Trimmers: 4.
Steam/Power. Power Boilers: 2. Fuel. Oil.
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 15 tons daily.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20
Richard Crommett, Plant Mgr
Donald W Bush, Mgr, Mfg
Richard F Matulowitz, Chem
Alfred Letourneau, Plant Engr
Paper Mill Paper Machines Equipment listed under Westfield, MA mill
Products. Mill No 1 writing, text, cover, artist's, papeterie papers Mill No. 2: Rag specialty, reproduction, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi-Price Corp. Building Products Group 416 Ford Ave 49707
Tel: 517-354-2121
RR: Detroit & Mackinac Siding Hwys US Rte # 23 State Rte # 32
R.G. Brown, Plant Mgr
G Manitz, Mgr Mfg
R.R. Stepanski, Mgr Fbrctg & Tech Srvcs
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
F M Worden, Power Plant Supt
T.J Kelly, Pers Mgr
J.N Gatward, Plant Contr
A.J. Towlerton, Plant Buyer
J.C. Lamy, Woods Mgr
Woodhandling and Preparation Barkers. 2 26" me-

MHI-00229

chanical Chippers 1 96 12-knife Avg Daily Use of Peeled Pulpwood 450 cds (rough basis)

Pulp Mill Defibrated Wood Pulp Avg Daily Proc 430 tons Batch Digesters 4 Bauer Rapid Cycle Pulp Processing Stock Refiners 9 Bauer disc

Paper Mill Stock Preparation Pulpers 1 Jones re pulper Refiners 3 Bauer 2 Sprout Waldron pump thru

Paper Machines 1 Hardboard Fourdrinier 160 Width 156 Trim

1 Hardboard Fourdrinier 50 Width 48 Trim

Finishing Plant Other Eqt 2 20 deck presses 1 22-deck press

Steam/Power Power Boilers 3 Fuel Coal/Wood Waste Steam lbs hr 240 000 Press 900/300 psi

Electricity Purchased 100 000 kwh day Generated 200 000 Turbogenerators 1 GE 7500 kva

Water Treatment Daily Usage 1 500 M g p d Source River Primary Treatment Screening

Effluent Treatment Primary Treatment: Clarifier Secondary Treatment Aeration Lagoons Tertiary Treatment Sludge dewatering and drying

Products S1S and S2S hardboard 425 MMsf annually (450 tons daily)

Fletcher Paper Co 318 W Fletcher St 49707

Tel 517 354-2131

RR D&M siding Hwys US Rte = 23 State Rte = 32

Allan M Fletcher Pres Treas

John T Fletcher Vice Pres

R Werner Sec Pur Agt

Charles S White Gen Mgr

A J Steber Gen Supt

K Byers Paper Mill Supt

M J Bekes Tech Dir

T Van Massenhove Chief Engr

Clifford Crevier Fnshg Supt

C Roberts Traffic Mgr

Elbert M Heath Sales Mgr

Paper Mill Stock Preparation Pulpers 3 Hydrapulpers Screens 2 Selectifier Refiners 5 Jones DD Jordans 3 Jones

Paper Machines 1 Fourdrinier 112" Width 100' Trim 750 fpm

1 Fourdrinier 112" Width 100" Trim 1400 fpm

Dryers Drums 62 Size Presses 2 Calenders 2 stacks Winders 2

Coaters, off Machine 1-60" Roll-Blade-Gravure 10 tpd capacity

Finishing Plant Sheeters 1-67" precision Trimmers 3-65 72 , 85'

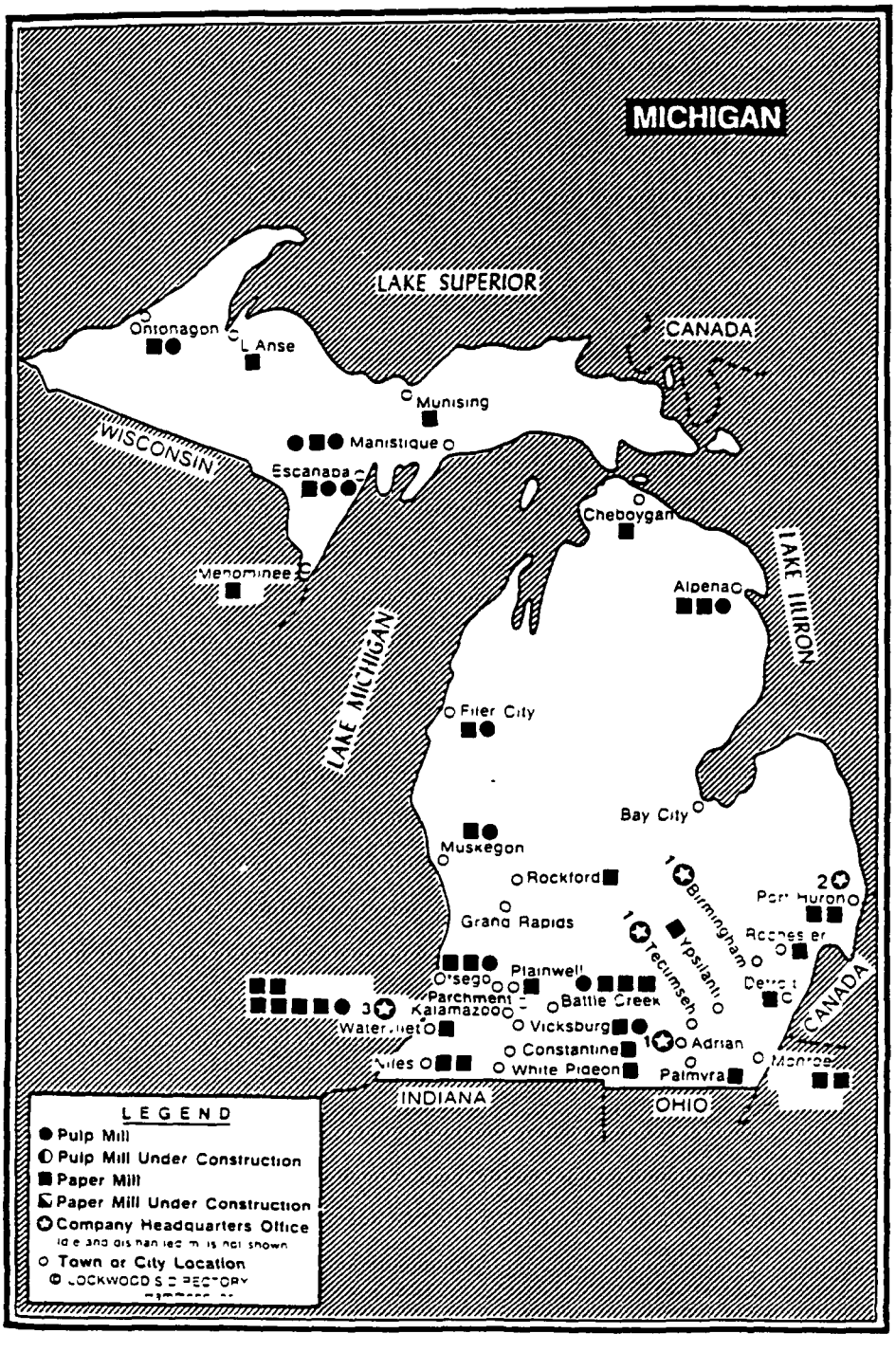
Steam/Power Power Boilers 1 Fuel Gas/Oil Steam lbs hr 60 000 Press. 450 psi

Electricity Freq. phase 60 3 Generated. 72,000 kwh/day

Water Treatment Daily Usage 700 M.g.p.d Source Thunder Bay River Primary Treatment: Yes

Effluent Treatment Primary Treatment: 1 Clarifier Secondary Treatment. City syst

Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold map music, onionskin, opaque bond, release, saturating, sensitizing, technical wet strength and writing papers. 82 tons daily



BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015

Tel 616-968-3000 Telex 223503

RR ConRail Hwys State Rte # 96 Near US Rte # IS-94 Approx Mi 8

E Hibben Pres & Treas

Hans C Mueller Vice Pres Mktg

Fred Woodruff Jr. Sec

Jerry H Beeman Mgr Admn Srvcs

Brenda M Bass Prod Mgr

Kristopher J Blake Qlty Control Mgr

Peter K Gruber, Engrg Mgr

Peter P Rudish Sales Engr

Pulp Mill Ground Wood Refiner Avg Daily Prod Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary

Paper Mill Stock Preparation Pulpers 1 Hydrapulper

Paper Machines 3 molding machines of own design

Products. Molded fiber products for automotive industry

St. Regis Corp. Recycled Fiber Div, Battle Creek Pprbd Mills 79 E Fountain St 49016

Tel 616-963 5511

RR ConRail GTW siding Hwys US Rte # I-94 I-69 State Rte # 66 37 89

Authur W Miller Jr Res Mgr

Spencer Miles Mfg Supt Fountain Mill

Robert M Hersey Mfg Supt Angell Mill

Roger Bush Supt Fountain Mill

Stan A Hicks Supt Angell Mill

Clyde G Eckhart Tech Dir

John J Martinovich Prod Contr Supt

Wendell D Chichester Pur Agt Traf Mgr

Arthur W Miller Jr Bxbd Sales Mgr

Paper Mill Stock Preparation Pulpers 3-4000 lb and 3-3000 lb Morden Slushmaker 1-14' 3-16' and 1-20 Hydrapulpers, 1-3000 lb Beaters 1-2000 lb broke Refiners 4 Hydrafiners, 1 Jones DD 3 Disco 2 Bauer Jordans 15

Paper Machines 1 Beloit Bel Bond Former 130" trim 1000 fpm

Stevens Formers 1 seven unit 120' trim 750 fpm

1 six-unit Ultraformer 98' wide 96' trim 450 fpm

Dryers Drums 283-60' Calenders 7 stacks 1 breaker stack Hi-Velocity 2 gas infrared

Coaters On-Machine Air Knife 1-130" 1-98" 1 122 On-Machine Trailing Blade 1-130", 1-98 1 122 On-Machine Rod 2-130"

Steam/Power Power Boilers 3 Fuel Oil/Gas Steam lbs hr 240 000

Electricity Purchased 2 500 kwh/day Generated 7 500 kwh/day Turbogenerators 2-8500 kw/kva

Water Treatment Daily Usage 5 000 M g p d

MHI-00230

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • SECONDARY FIBRE

100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

Source River.
Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, bending chip, 565 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S. Main St. 49721
Tel: 616-627-5664
RR: D&M siding Hwys: US Rte # 27.
H.A. Bullard, Plant Mgr
Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Products Div. Centreville Rd. 49042
Tel: 616-435-2425 Telex: 510-398-5730
RR: ConRail siding Hwys: US Rte # 131.
Walter Watchiwski, Plant Mgr
Roscoe Morton, Maint Supv
Dick Thomas, Cnvtg Supt
Andrew Jiskra, Shppg/Rcvng Supv
Sandy Munson, Office Mgr
Paper Mill Stock Preparation: Pulpers: 2. Screens: 2. Refiners: 2, 1 deflaker. Jordans. 2. Other Eqt.: 1 disc filter
Paper Machines Seven-Cylinder 112" Width 100" Trim
Dryers Drums: 4 sets hi-stack
Finishing Plant Other Eqt.: Laminators. 2. Die Presses 2
Steam/Power. Power Boilers 2. Fuel Gas/Oil. Press. 150
Electricity: Freq. phase 440 v. 60. 3 Purchased: 100%
Water Treatment. Daily Usage. 70 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant
Products. Chipboard, test liner, 100 tons daily.

DETROIT

Port Huron Paper Co. 9125 W Jefferson Av 48209
Tel 313-842-0042 Telex: TWX 810-2219-428
RR: ConRail siding. Rouge Yard Hwys: US Rte # IS-75
Egil R Aschim, Paper Mill Mgr
Donald Grace, Plant Engr
L.J. Sturm, Tech Supt
R P McConkie, Pers Mgr
Lloyd H Jewell, Sales Mgr
Paper Mill Stock Preparation Pulpers: 4 Refiners 7 double disc, 1 Morden Jordans: 5
Paper Machines 1 Yankee MG Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 130" Trim
Dryers Yankee 4
Steam/Power. Power Boilers. 3 Fuel Gas/Oil
Electricity Generated 100%
Water Treatment. Daily Usage. (n.a.) M.g.p.d Primary Treatment: Yes
Effluent Treatment. Primary Treatment: City System
Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, 160 tons daily

ESCANABA

Mead Corp. Publishing Paper Div 49829
Tel 906-786-1660
RR C&NW Soo Line sidings Hwys US Rte # 2,41
State Rte # 35
S.S. Benedict, Pres, Gen Mgr
R Hake, Vice Pres, Admin
W.R O'Donnell, Vice Pres, Mktg
Gary Butryn, Opers Mgr
L King, Pulp Mill Supt
Ken E Noonan, Tech Dir
Kenneth Clark, Mgr Plant Engrg & Maint
G.E. Barnes, Qual Mgr
J.L Parr, Enviro Control Tech Dir
W.H. Goode, Util Mgr
J.F. Schneider, Sales Srvc Mgr
J.C. Huskey, Contr
Richard E Nelson, Mgr Matls
T.J. Gregoire, Dir Human Rsrcs
R Tompkins, Pub Rels Mgr
Erm Venuto, Gen Mgr, Woodlands
Woodhandling and Preparation Log Handling: Live decks. Chip Handling: Rader pneumatic system Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW, 1 Rader
Pulp Mill Kraft. Avg. Daily Prod. Bl Swd., 200 tons Bl. Hwd., 400 tons of which 300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each
Ground Wood, Refiner Avg Daily Prod.: Bl. Hwd., 200 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-1B disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson Recovery Boilers 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators. 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers 1 Ducon on recovery boiler, 1 venturi on kiln Lime Mud Washers: 1 8'x12' D-O Recausticizing System: Dorr-Oliver
Bleach Plant. Sequence Gwd 1 stage Kraft: C-E-D-E-D. Chlorine Dioxide System: Hooker SVP system
Pulp Processing: Knotters. Gwd 2 A-C vibrating Kraft: SW Hooper centrifugal Drainers. Gwd: 1 Morden, 1 Bauer Helipress Stock Refiners. Gwd 2-26" S-W Twin-Flo Rejects Refiners Gwd 1 Bauer. Screens. Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft: Bird Centrisorters. Cleaners Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd 1-8 x16 Impco bleach Kraft 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach Washers Gwd 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac Kraft: 1-13½'x24' Impco
Pulp Drying Dryers: Former No 2 P&J paper machine modified for pulp drying 166" width 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor
Paper Mill Stock Preparation Pulpers 2 Hydrapulpers, 2 continuous Morden 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens. Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke). Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers Size Presses 2 Calenders 2 stacks Reels 3 Re-reelers Winders 3
Coaters. off Machine Trailing Blade. 2-286', 2-172", 1-302" Wartsila double blade for C2S
Finishing Plant Supercalenders 1 9-roll Bruderhaus, 2-278" 9-roll Appleton Roll Wrapping Eqt Lamb-Grays Harbor automatic Rewinders 1 Lenox, 3-2 drum 156" Cameron 2-MIR 278" Cameron Sheeters 3 - Hamblet Trimmers 3 Seybold
Steam/Power Power Boilers 3 Fuel Oil/Gas/Bark Steam lbs hr 1,600,000 Press 400/1500 Electricity Freq. phase 60 3 Installed H P 75,000 Hydroelectric 2,000 kwh/day Turbogenerators 48 000 kwh/day
Water Treatment. Daily Usage 28,000 M g p d Source Lake Michigan Primary Treatment Sand filters
Effluent Treatment. Primary Treatment Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier
Products. Coated book and publication papers, 1305 tons daily Kraft hardwood market pulp, 300 tons daily

FILER CITY

Packaging Corp. of America 49634
Tel: 616-723-9951
RR: C&O siding Hwys US Rte # 31
F.J Fragomeli, Vice Pres & Mgr
L.L. Huffman, Prod Mgr
C.F Mills, Tech Dir
D.J Elliott, Engrg Mgr
N.D. Sorenson, Fin Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr
Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers. 1 12'x80' FMP. Chippers: 1 112", 12-knife Chip Screens: 2 HiCap
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: 600 tons Continuous Digesters. 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect. Recovery Boilers: 1 fluidized bed unit.
Pulp Processing: Stock Refiners: 3 American Defibrator. Screens: 2. Washers. 4 Vacuum, 5 screw press.
Paper Mill Stock Preparation: Pulpers: 3. Screens: 3 Refiners: 5 Jones disc, 4 Sutherland. Jordans: 7 Miami.
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1200 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums: 148-60" dia..
Steam/Power. Power Boilers: 4 Fuel: Oil, Gas, Coal. Steam, lbs hr.: 600,000. Press.: 610.
Electricity: Purchased 25,000 kwh/day Generated: 475,000 kwh/day Turbogenerators 3-21,875 kva total
Water Treatment. Daily Usage. 20,000. M.g.p.d. Source: River, Lake.
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment. Aeration pond
Products. Corrugating medium, 720 tons daily.

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. (Sub. of SCM Corp.) 2030 Portage St 49001
Tel: 616-345-7131
Headquarters Location See Executive Offices section for more details
RR: ConRail sidings Hwys US Rte # IS 94, 131. State Rte # 43,96
T.E. Flanagan, Vice Pres, Opers
R.W Mirkin, Vice Pres, Sales & Mktg
Kenneth Sweet, Prod Mgr
S Oakleaf, Asst Prod Mgr
R Eaton, Engrg, Maint & Util Mgr
E.O Arnold, Supt, Mill C
G Gerard, Supt, Mill D
A.E. Vickery, Engrg Mgr
D.C. Kirk Jr, Tech Dir
H D. Peeters, Mgr Prod Sched
U G Stoeffler, Mgr Proc Devl
G.F Mahoney, Natl Sales Mgr
J.L Curtis, Mktg Mgr
B.L Rasmusson, Dir Prchsg
Tom Cadwell, Traf Mgr
Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters. off Machine C2S Fountain Blade, 126" trim
Steam/Power. Power Boilers Fuel Oil/Gas
Water Treatment. Source: River, Wells
Effluent Treatment. Primary Treatment. 2 clarifiers
Products. Adding machine, bible, bond, coated and uncoated book end leaf, foil mounting, gift wrapping, label, map, offset, opaque sensitizing, text, vellum xerographic, litho, chart, music, watermark, 240 tons daily Coated electrostatic base master and specialites, 75 tons daily Coated two sides matte finish book 100 tons daily

Georgia-Pacific Corp. Kalamazoo Paper Div 2425 King Hwy (PO Box 2738) 49003
Tel 616-382-2890 Telex 810-277-2618
RR ConRail GTW siding Hwys US Rte # I-94

MHT-00221

SIRRINE

Complete Design of Pulp and Paper Facilities
Engineers Since 1902 An Employee Owned Company
USA Greenville, SC 29606 • Houston, TEX 77042 • Research Triangle Park, NC 27709

Thomas F Sullivan, Res Mgr
David Norman, Prod Mgr
Del Van Bruggen, Paper Mchne Supt, #8 Mchne
Earl Vining, Paper Mchne Supt, #7 Mchne
Larry Pio, Tech Dir
Fred J Shelton, Chief Engr
Ronald Bush, Plant Contr
F Higdon, Pur Agt
James H Cox, Traffic Mgr
H Fielder, Pers Mgr

Pulp Mill Deinked Pulp: Avg. Daily Prod.: 200 tons Batch Digesters. 2 lines of 10 primary and 2 secondary flotation cells. 110 tpd: sidehill washers, 90 tpd.
Bleach Plant Sequence. 1 Hypochlorite/Hydrosulphite stage Towers: 1 downflow

Paper Mill Stock Preparation: Pulpers: 6. Beaters. 4-1500 lb, 6-2500 lb, 2-3500 lb Refiners: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Rewinders: 2 95".

Steam/Power. Power Boilers: 4. Fuel: Gas/Oil Steam, lbs hr: 350,000. Press. 450/275
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw Turbogenerators: 4.

Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment Clarifiers, joint municipal system.

Products. Bond, offset, label, postcard, 460 tons daily

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled.

★**James River Corp.**, Paperboard Packaging Group 243 E Paterson St. 49007

Tel: 616-383-5000
Headquarters Location See Executive Offices section for more details
RR ConRail, CK & S siding Hwys: US Rte # 12, 13, I-94 State Rte # 43
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
Michael Patton, Supt, Plt 7
Jim Askew, Supt Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers 9 Hydrapulpers, 1 Morden Slushmaker Beaters 1 continuous broke Refiners 8 Hydrafiners, 2 Morden Stockmaker Screens 21 Jordans: 10
Paper Machines Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine Air Knife, 2
Extrusion Trim Width, 1-76" Beloit, 1-55" Egan PE coaters
Finishing Plant Other Eqt 1-76" Waldron, 1-56" Inta-Roto 1-56" Mercury laminators

Steam/Power. Power Boilers 4 Fuel Gas/Oil Steam, lbs hr 300,000

Water Treatment. Daily Usage, 4 000 M g p.d Source Deep well

Effluent Treatment. Primary Treatment City syst

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily

National Gypsum Co. 2305 E King Hwy

RR: ConRail siding Hwys US Rte # 12

Paper Mill Stock Preparation Pulpers: 2 Hydrapulper Refiners 3 Sprout Waldron
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers Drums: 110 Infrared 30 Calenders: 1 stack.
Finishing Plant. Rewinders: 1

Steam/Power. Power Boilers. 2 Fuel: Gas/Oil. Steam, lbs hr. 70,000
Electricity Purchased: 48,000 kwh/day.

Water Treatment. Daily Usage, 580 M.g.p.d. Source: Wells, City.

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Gypsum board liner, 145 tons daily. Mill closed for indefinite period
Paper Mill Is Idle.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. PO Box 86 49946

Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41
L.W Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr

Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper Consistency Regulators: Brammer type
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater

Steam/Power. Power Boilers: Steam, lbs hr.: 93,000
Electricity: Purchased: 100,000 kwh/day

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay

Products. Mineral board products, perforated and unperforated tile, other interior finish products, 200 tons daily

MANISTIQUE

Manistique Papers Inc. PO Box 309 49854

Tel: 906-341-2175
RR. Soo Line sidings Hwys: US Rte # 2
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Francis J Kasun, Pur Mgr
Allen Schuster, Sales Mgr
Walter Alexander, Treas

Woodhandling and Preparation Roundwood Storage Capacity 15,000 cds. Mobile Equipment: 2-cranes. Slashers. 1. Barkers: 1 drum. Bark Presses: 1 Hogs. 1 Avg. Daily Use of Peeled Pulpwood: 65 cds

Pulp Mill Ground Wood, Stone Avg. Daily Prod.: Unbl Swd. 90 tons Grinders: 6 Voith magazine.
Deinked Pulp Avg Daily Prod 110 tons
Pulp Processing Stock Refiners 1 Screens: 2 Finckh, 2 Cowan

Paper Mill Stock Preparation: Pulpers 2 Jones Refiners 1 Claflin
Paper Machines 1 Fourdrinier 165" Width 154" Trim 2600 fpm
Dryers Drums 40-60" dia. Calenders: 1. Reels. 1 Winders 1 Beloit

Steam/Power. Power Boilers: Fuel: Coal Steam, lbs hr 145,000 Press. 350
Electricity: Purchased, 5000 kwh/day

Water Treatment. Daily Usage, 2,500 M.g.p.d. Source River Primary Treatment Yes

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Activated sludge system

Products. Newsprint, groundwood printing and groundwood converting papers, 200 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858

Tel 906-863-5595
RR C&NW, CMStP&P Hwys US Rte # 41 State Rte # 173
Donald Estebo Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker Paper Mill Supt
Steven M Courtney Tech Dir
Alfred J Bickel, Chief Engr
Robert Pomrenke, Cnvtg Supt
Robert Sultan, Sales Mgr
Dennis Detemple Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr

Paper Mill Stock Preparation: Pulpers, 4 Hydrapulpers Refiners, 2 Claflin Jordans, 5
Paper Machines Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders 2. Rewinders: 4
Other Eqt.: Waxers 5

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr 140,000
Electricity: Purchased, 7,000 kwh/day Generated: 4,000 kwh/day Turbogenerators: 2

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: Yes.

Products. Linerboard, corrugating medium, waxing tissue, lightweight MG, 360 tons daily. Waxed paper in rolls and sheets

MONROE

Smurfit Paperboard Div. of Smurfit Industries Inc. (formerly Time Container) 1151 W. Elm Av 48161

Tel 313-241-3220
RR: C&O siding Hwys: US Rte # 24, I-75.
Robert H Degraer, Vice Pres, Gen Mgr
A.G. McBee, Mill Prod Mgr
A Bussell, Mill Supt
Edward G Strass, Chief Chemist
W Manor, Chief Engr.
Charles Robertson, Fnshg Supt
Delbert Broughton, Plant Contr
E O'Brien, Pur Agt
E Flotow, Sales Rep
J Zimmerman, Sales Rep

Paper Mill Stock Preparation Pulpers: 2 Hydrapulper Refiners 2 Emerson, Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums 110 Calenders: 2 stacks. Winders: 2
Finishing Plant Rewinders 2 Trimmers. 1.

Steam/Power Power Boilers Fuel Gas. Steam, lbs hr 70,000
Electricity. Purchased 100%.

Water Treatment. Daily Usage, 1,000 M.g.p.d. Source. River

Effluent Treatment. Primary Treatment: Joint municipal-industrial system

Products. Test linerboard, pasted chip, plain chip, can and tube board, lightweight chip, panel board, 110 tons daily

Union Camp Corp. Kraft Paper & Board Div. 1109 E Elm St (PO Box 588) 48161

Tel 313-241-7700
RR ConRail, Detroit Toledo Shore Line Hwys: Near US Rte # I-75 Approx Mi 1 State Rte # 56.
E.D Redman Res Gen Mgr
J Fuko Mill Mgr
J.R VanSlambrouck Gen Supt
E.J McCue Tech Supt
W J Sandretto Mill Engr
N D Lee Jr Dir Prchsg
E L Kelley Mill Sales Mgr
P R Berestecky Ind Rels Mgr

Paper Mill Stock Preparation Pulpers 1-15' Apmew Pulper 3-20' and 1-16' Hydrapulper Screens: 21 Selectifier Refiners 6-32" Bauer 442 disc, 2-34" S-W Jordans 6 Miami 2A, 2 Emerson 2-OD. Cleaners 8-10" Vortrap Consistency Regulators: 4 Bird.
Paper Machines B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers Drums 127 103, and 137-42" dia Reels: 3 Autoflyte Winders 3 two-drum..

Steam/Power. Power Boilers. 2. Fuel: Coal/Gas/Oil. Steam lbs hr 240,000 Press. 600/175 psi.
Electricity Freq phase 60, 3 Generated: 6,000

MHI-00232

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1000 East 146th Street • Burnsville, MN 55337
Phone 612/431-6336 • Telex 910-576-0234
Cable 'SBS PAPER' USA • WATS 800/328-4018

kwh Turbogenerators 2-7500 kw, 2000 kw, 2-1000 kw diesel generators
Water Treatment. Daily Usage, 800 M.g.p.d Source Lake Erie Primary Treatment: None
Effluent Treatment. Primary Treatment: 2 50' Clarifiers Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily

MUNISING

Kimberly-Clark Corp. K-C Technical Paper & Specialty Product Grp Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR: LS&I Hwys. State Rte # 28,94
Walter S Servia, Mill Mgr
E.E. Estrep, Admin Mgr
Daniel F Claus, Opers Mgr
R.D. Pratt, Paper Mill Supt
G.M Linquist, Tech Srvcs Mgr
G.C. Nelson, Engrg Mgr
K.Z. Livermore, Spclties Supt
W.G. Stangel, Mgr Fin Srvcs
R Eugene Heimerman, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4 Screens: 2 Refiners 2. Jordans, 2
Paper Machines, 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 4 Saturators: 5
Finishing Plant Supercalenders, 1 94", 1-68" Rewinders 5, Sheeters 3, cap 60 tpd Other Eqt., 1 Embosser, 1 Laminator
Steam/Power. Power Boilers: 2 Fuel Coal/Wood Waste Oil standby
Water Treatment. Daily Usage, 5,000 M.g.p.d Source: Lake Superior
Effluent Treatment. Primary Treatment: Yes
Products. Writing, map impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co 2400 Lakeshore Dr 49443

Tel: 616-755-3761 Telex 510-394-4300
RR: C&O siding Hwys US Rte # 16,31,196 State Rte # 46
R Furer, Res Mgr
Karl Dornish, Prod Mgr
Dan Burling, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
John S Moran Mgr, Srvcs
Dick Matlack, Paper Mill Supt
Carl E Kilpatrick, Tech Dir
W A Wrase Chief Engr
W LaPierre, Fnshg/Shpng Supt
William Holtzclaw Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman Ind Rels Mgr

Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds Chip Storage Capacity 120,000 tons Mobile Equipment Hopto RR crane, Poclain crane Flume 1 Log Handling Drag and belt conveyors Chip Handling Rader pneumatic system Sawdust Handling Rader pneumatic system Chip Unloaders Hydraulic truck dumper Barkers 1-30 cds/hr Manitowoc drum Hogs 1 Montgomery Chippers 1 15 knife Carthage Norman Chip Screens 3 Link Belt Avg Daily Use of Peeled Pulpwood 300 cds swd, 200 cds hwd

Pulp Mill Kraft Avg Daily Prod Bl Swd., 125 tons Bl Hwd 125 tons Continuous Digesters, 1 Kamyr Chemical Recovery Plant Evaporators 1 six-effect Swenson Black Liquor Oxidation System Champion system Recovery Boilers, 1 C-E 750,000 lbs solids/day Lime Kilns 1 Dorr Oliver Fluo-Solids, 70 tpd Gas Scrubbers 1 Lime Mud Washers 1 Dorr-Oliver Recausticizing System Dorr-Oliver
Bleach Plant Sequence C-E-H-D Towers: 4 Mixers 4 Thick Stock Pumps 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters 3 Impco Screens 3 Cowan, Cleaners: 1 three-stage Bauer system, Washers 3-9' x 16' Impco vacuum, Deckers: 2-9' x 16', 8' x 8' Impco, Other Eqt., 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines: 1-100 tpd Kamyr, Cutter-Layboys: Hamblet Scales: 1.

Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper, Screens: 2 Selectifiers, Refiners: 5 Claflin, 1 double disc, Jordans: 4 Shartle, Cleaners: 2 Centricleaner three-stage systems with vacuum rejects, Consistency Regulators: 14 DeZurik, 5 Foxboro, Size Cookers: 1 continuous, 3 batch.
Paper Machines, Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers, Drums: 40 and 27 48", 55 and 69 60" dia, Hi-Velocity: 2, Size Presses: 2, Calenders: 4, Reels: 2 Pope, Winders: 2 two-drum..
Coaters, On-Machine, Trailing Blade, 1-163" puddle, 1-222" Invertablade.
Finishing Plant, Supercalenders: 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.: D.J. Murray system, Rewinders: 3 Langston, Sheeters: 1 Lenox folio; 3, 100" to 112", Trimmers: 3-100", Ream Wrapping & Cartoning: Southworth system, Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3, Fuel: Coal/Oil, Steam, lbs hr.: 500,000, Press.: 500.
Electricity: Freq, phase: 60, 3 Purchased: 3,500 kwh/day Generated: 19,000 kwh/day, Turbogenerators, 3-25,500 kw.
Water Treatment. Daily Usage, 20,000, M.g.p.d. Source: Lake, Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120

Tel 616-683-1100
RR ConRail siding, Hwys, US Rte # 31,12, State Rte # 60,51.
J.E French, Chmn Bd, Treas
B R Bigford, Pres
R.D. Clark, Exec Vice Pres, Sec
T R Friedrich, Vice Pres, Mfg
G Halliwell, Chief Engr.
R Etzcorn, Pur Agt

Paper Mill Stock Preparation Pulpers: 3 Dynapulper, 1 Slushmaker Refiners, 2 Claflin, Jordans: 4
Paper Machines B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers Winders: 3
Finishing Plant Sheeters 3 Trimmers, 2, Other Eqt., 2 Embossers
Steam/Power. Power Boilers Fuel: Coal Press. 150
Electricity Freq, phase: 440v, 60, 3 Installed H.P 1600 electric 1600 water
Water Treatment. Daily Usage, 800 M.g.p.d Source, Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes
Products. White and colored offset, opaque, cover, embossing greeting card, text and specialty papers, 50 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St 49121

Tel 616-683-4100 Telex 258459
RR ConRail Hwys: US Rte # 12,31, State Rte # 60,40
Chuck Dewitt Plant Dir
Jack Hesser Paper Mill Supt
Tom Deforrest, Dir Engrg
V C Grathol, Plant Engr
R Gahis, Plant Contr
Earl Stevens, Pur Agt
W Sands, Distrib Mgr
T Hitt Ind Rels Dir
A Seaman, Traf Mgr

Paper Mill Stock Preparation: Pulpers 3 Dynapulpers, Screens, 1, Refiners 4, Jordans 1, Cleaners 5 Consistency Regulators: 2, Other Eqt.: 2 Savealls
Paper Machines Stevens Formers 1-162" wide 150" trim, 1000 fpm.
Dryers, Drums: 8 and 12 - 48" dia Calenders: 1 7-roll, 1-2 roll, Reels: 1 Winders, 2 Shear-Cut.
Steam/Power. Power Boilers: 1, Fuel Gas/Oil Steam, lbs hr.: 35000, Press 100 psi
Electricity: Freq, phase: 60, 3, Installed H.P. 3,264 Purchased: 32,000 kwh/day
Water Treatment. Daily Usage, 1,000 M.g.p.d Source: Wells.
Effluent Treatment. Primary Treatment, Yes
Products. Pattern tissue, 33 tons daily

ONTONAGON

Champion Packaging Div. of Champion Intl Corp. 115 Lakeshore Rd. 49953

Tel: 906-884-4121
RR: Milw Rd, siding, Hwys: US Rte # 45, State Rte # 64.
Marshall Schneider, Res Mgr
Roland E Howard, Prod Mgr
Douglas Karttunen, Tech Dir
Anthony Grahek, Paper Mill Supt.
Michael Rose, Pulp/Power Supt.
Michael Peterson, Pers Dir
Robert Schon, Pur Agt

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds., Chip Storage Capacity: 50,000 tons, Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane, Chip Handling: Rader pneumatic, Sawdust Handling: Rader pneumatic, Hogs: 1 Jacksonville Blow Hog, Chippers: Beloit 114", 14-knife Rechippers: 1 Murray Chip Screens: 2-Tyler, Avg. Daily Use of Peeled Pulpwood: Hwd, 500 cds.

Pulp Mill Semi-Chemical, NSSC, Avg. Daily Prod.: Unbl. Hwd., 440 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant, Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit.
Pulp Processing: Hot Stock Refiners, 2 Sprout Waldron, Stock Refiners: 1 Sprout Waldron high consistency, Washers: 1 Eimco, 1 Swenson

Paper Mill Stock Preparation: Pulpers: 3, Refiners: 3 Bauer 440, 5 Sprout-Waldron, Screens: 2 Bird Centriscreen, Cleaners: Bauer Centricleaners, Consistency Regulators: DeZurik
Paper Machines P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers, Drums: 120, Calenders: 2, Winders: 2..
Steam/Power. Power Boilers, 1, 2 package, Fuel: Coal, Oil, Bark Steam, lbs hr., 325,000 Press., 1500/250 psi
Electricity Freq, phase, 60 3 Installed H P 13500, Purchased: 50% Generated: 50%, Turbogenerators, 1 GE, 15,000 kw
Water Treatment. Daily Usage, 8,500, M.g.p.d. Source: Lake Superior Primary Treatment: None.
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment: Activated sludge, gravity thickener, belt filter press.
Products. Corrugating medium, 565 tons daily

OTSEGO

Mead Corp. Paperboard Products Div PO Box 187 49078

Tel: 616-692-6211 Telex: 810-277-7240
RR, ConRail siding Hwys: Near US Rte # 131 Approx Mi 2, State Rte # 89
Robert A Davis, Jr., Mill Mgr
Donald B Moore, Mgr, Board Mill
R F Kutscher, Mgr, Engrg Srvcs
Robert Stevenson, Tech Dir
M.L. Knapp, Mgr, Power
H.J. Klein, Mgr, Supply & Distr
I.E. Johnson, Mgr, Shpng & Rcvng
F.O Ford, Mill Contr
B.M. McClary, Mgr, Cnvtg
J.J. Shipley, Human Rsrcs Mgr
R C Powers, Prod Control Mgr

Paper Mill Stock Preparation Pulpers 1-3000 lb Morden Slushmaker, 3 Hydrapulpers Screens, 8, Refiners: 2 34" Jones DD, 1 Bauer double disc Jordans: 4 Cleaners Black Clawson, Bird filler, 1 asphalt dispersion unit
Paper Machines Eight-Cylinder 140" Width 126"

MHI-00233

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • UNBLEACHED SULPHITE PULP
100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

Trim
Dryers Drums 163 Calenders 2
Coaters Extrusion Trim Width 1 86" Egan PE extrusion coater
Steam/Power Power Boilers 3 Fuel Coal/Gas/Oil Steam, lbs hr 134,000 Press 875/300 psi Electricity Freq, phase 60,3 Installed H P 8000 Purchased 41,000 kwh/day Generated 64,000 kwh/day Turbogenerators 4000 kw Westinghouse, 3000 kw Stal Laval
Water Treatment. Daily Usage 450 M.g p d Source 4 Wells Primary Treatment: Chlorination Secondary Treatment: Iron stabilization
Effluent Treatment. Primary Treatment: 2 clarifiers Secondary Treatment. 2 stabilization basins, 8 aerators
Products. Plain and bending chip, filled and solid news, jute lined woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily

Menasha Corp. Paperboard Mill N Farmer St 49078
Tel 616-692-6141
RR ConRail siding Hwys US Rte # 131 State Rte # 89
Bruce Buchanan, Gen Mgr
J Blaukamp Tech Mgr
T Clemmons Plant Engr
D Pickering, Proj Engr
D Cross Proj Engr
G Hultmark Power Engr
Ron Thaxton Proj Engr
Lester Phillips Pur Agt
John Hanson Wood Dept Mgr
Woodhandling and Preparation Avg Daily Use of Peeled Pulpwood 500 green tons purchased chips
Pulp Mill Semi-Chemical NSSC Avg Daily Prod Unbl Hwd, 225 tons Continuous Digesters, 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers: Dorr Oliver fluid bed incinerator
Pulp Processing Stock Refiners 5 S-W primary, 3 Bauer 2 S-W secondary, 2 DKP dewatering, presses
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Other Eqt 1 Impco disc filter
Paper Machines 1 Fourdrinier 176" Width 163' Trim 1450 fpm 2 suction presses 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses 41 dryers
Dryers Drums 95
Steam/Power Power Boilers 4 Fuel Gas Steam, lbs hr 270 000 Press 600 psi
Electricity Purchased 4000 kw Generated 4000 kw Turbogenerators 1-4000 kw/kva
Water Treatment. Daily Usage 2 200 M g p d Source Wells
Effluent Treatment. Primary Treatment Clarifier Secondary Treatment Aeration ponds
Products NSSC corrugating medium, 360 tons daily

PALMYRA

Palmyra Paperboard Co 49268
Tel 517-263 5160
Hwys US Rte = 223
David Lamber Chmn Bd CEO
CA Dufon Pres COO
Bill Maxam Plant Supt
Paper Mill Stock Preparation Pulpers 1-10' 1 12 1 16 Hydrapulpers Refiners 2 Bauer disc Jordans 3 Other Eqt 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six-Cylinder 80' Width 78 Trim
Steam/Power Power Boilers Fuel Gas Press 150 psi
Electric ty Freq phase 60 3 Purchased 100%
Water Treatment Daily Usage 120 M g p d Source River
Effluent Treatment. Primary Treatment Yes
Products Chipboard tube stock match stock 60 tons daily

PARCHMENT

★**James River Corp. KVP Group** Parchment & Paper Divs 100 Island Av 49004
Tel 616-383-5000
Headquarters Location See Executive Offices section for more details
RR ConRail, CK & S. siding Hwys US Rte # 12, 131, I-94 State Rte # 43
Andrew T Muha, Vice Pres Gen Mgr, Ppr Div
Keith N Bartlam Vice Pres Gen Mgr, Prchmt Div
Michael D Barnes Mgr Ppr Mfg & Matl Hndlg
Austin Proctor Mgr Qual Control
John Drenth Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alrick, Supt. Matl Hndlg & Shppg
Ken Matveia Mgr & Tech Srvcs
Daniel E Conway Div Contr
Donald T Carr Ind Rels Mgr
Stephen Parker, Mgr Sls & Mktg, Fine Ppr
Robert Russell, Mgr Adm & Plnng
Paper Mill Stock Preparation Pulpers 1-6000 lb, 1-2000 lb and 2-4000 lb Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb Hydrapulpers Beaters: 2 2500 lb Vortex, 3 2500 lb Horne, 2 2000 lb Jones Refiners 5 34" disc (1 800 hp 4 700 hp) Screens: Bird Centriscreen Jordans 8 Majestic, 17 Fibremaster Other Eqt. Secondary Fiber Mill, 150 tons daily capacity
Paper Machines Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167' Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139' Width 126 Trim 1350 fpm
Dryers Calenders 10 stacks Size Presses 4
Coaters off Machine Air Knife 1 Blade 2 Solvent 1
Finishing Plant Supercalenders 2 Rewinders 7 Sheeters 2 Trimmers 3 Other Eqt 5 parchmentizing machines 80 and 100 trim
Steam/Power Power Boilers 3 Fuel Gas/Oil Steam lbs hr 400 000
Water Treatment. Daily Usage 5 000 M g p d Source Well
Effluent Treatment. Primary Treatment Clarifier Secondary Treatment Aeration lagoon
Products. Waterleaf vegetable parchment bond greeting card parchment coating base MG and MF waxing MG and MF foil backing MG and MF bag dry waxed dog food liner lightweight coated, coated bag fluorochemical treated lightweight publishing NASTA spec book publishing, pressure-sensitive and hot-melt release papers Mill No 1 120 tons daily Mill No 2 280 tons daily

PLAINWELL

Plainwell Paper Co Inc Affl of Philip Morris Industrial Inc 200 Allegan St 49080
Tel 616-685 5851 Telex TWX 810 277-4990
RR ConRail siding Hwys US Rte = 131 State Rte # 89
Robert Green Plant Mgr
James Ishmael Dir Mfg
Samuel Taylor Gen Mgr
Craig Panse Mgr Fnshng & Matl Hndlg
George Lawton Mgr Tech Opers
George Lawton Mgr R&D
Gary N Longworth Mgr Engrg & Maint
Robert Tarcitt Mgr Field Tech Srvs
Kay C Woodruff Mgr Qlty Contrl
Judith Reeves Mgr Mktg Comm
Alan K Bruner Supt Distr
Barbara J Bradley Buyer
Larry Henseler Contr
Jasper Butler Dir Admn
Jeffrey Hider Dir Mktg
Jeffrey H Hider Dir Mktg & Sales
Jack Zanzig Sls Mgr Prtng Pprs
Donald Ulsh Sls Mgr Tech Pprs
Paper Mill Stock Preparation Pulpers 1-6000 lb and 1-4000 lb Hydrapulper Refiners 7 double disc. Jordans 3 Stock Mixers 3 blend chests
Paper Machines 1 Fourdrinier 112" Width 98 Trim 850 fpm
1 Fourdrinier 135" Width 118' Trim 900 fpm
1 Fourdrinier 135" Width 120' Trim 1700 fpm
Dryers Size Presses 3
Coaters On-Machine Trailing Blade 1-120' Capacity 120 tons daily
Finishing Plant Supercalenders 2-65" 1-77' 1-126' Roll Wrapping Eqt 1 automated line Rewinders 3 Sheeters 2 Trimmers 2 Other Eqt. 1-60' dual roll embosser
Steam/Power. Power Boilers 3 Fuel Coal, Gas/Oil Steam, lbs hr 150 000 Press. 265 psi
Electricity Freq phase 60, 3 Purchased 160,000 kwh/day
Water Treatment. Daily Usage, 2,000 M.g.p d Source wells
Effluent Treatment. Primary Treatment 1-Clarifier Secondary Treatment 1-aeration pond, secondary clarifier
Products. Reprographic and photocopy base, direct copy, sterilizable kraft, cigarette mouthpiece, index bristol release base sandpaper backing, release coated, coated and uncoated web offset, coated and uncoated book stencil backing, 225 tons daily

PORT HURON

★**Dunn Paper Co** Sub of Dennison Mfg Co 218 Riverview St (PO Box 227) 48060
Tel 313-984-5523 Telex TWX 810-231-7053
Headquarters Location See Executive Offices section for more details
RR GTW siding Hwys US Rte = I-94
Roswell E Hubbard Pres CEO
Thomas E Gallagher Exec Vice Pres, COO
James R Scohy Vice Pres Mfg
Arthur H Hupp Vice Pres Tech
Peter R Hoppe Contr
Carolyn M Desjardins Asst Corp Sec
Alan C Crawford Mgr Prchsg
James E Ramsey, Mgr Indl Rels
J David Fleet, Mktg Mgr OTC/Spclts
Lewis T Johnson, Sales Srvc & Traffic Mgr
Frederick Lange Machine Supt
Paper Mill Stock Preparation Pulpers 8 Refiners 14 Jordans, 2
Paper Machines Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134' Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150' Width 138' Trim 2000 fpm
Yankee Fourdrinier 137 Width 124" Trim 1200 fpm
Dryers Yankee 3 12 1 18 dia units Size Presses 4 Calenders 2 Winders 4
Coaters On-Machine Roll 1 Blade 2
Finishing Plant Rewinders 2
Steam/Power Power Boilers 3 Fuel Oil/Gas Steam lbs hr 76 000 Press 600/200
Electricity Freq, phase 60 3 Purchased 11,000 kwh /day
Products. Lightweight coated release treated, foil mounting, twisting one time carbonizing and other MG bleached semi-bleached and unbleached specialties in jumbo rolls only 170 tons daily

★**Port Huron Paper Co** 1660 Thomas St 48060
Tel 313 982-0191 Telex TWX 810-231-6098
Headquarters Location See Executive Offices section for more details
RR GTW siding Hwys Near US Rte = I-94 Approx Mi 1 State Rte = 21 25
Thomas R Kroll Vice Pres Mill Mgr
R P Cole Vice Pres Sales
E J Grys Prod Mgr
W M Fries Plant Engr
M D Sikora Tech Dir
L H Jewell Sales Mgr Spclty & Pckgng Pprs
L E Rymers Sales Mgr Carbonizing Pprs
G L Genaw Sales Mgr Prntg Pprs
G A Limberg Mgr Cust Srvcs
Paper Mill Stock Preparation Pulpers 5 Screens 6 Refiners 40 Jordans 7 Cleaners 6
Paper Machines Yankee Fourdrinier 126" Width 120 Trim 700 fpm
Yankee Fourdrinier 132' Width 123" Trim 700 fpm
Yankee Fourdrinier 143' Width 127" Trim 1200 fpm

MHI-00234

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U.S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • SEMI-BLEACHED KRAFT PULP
100 PARK AVENUE NEW YORK, N.Y 10017 212-532-7300

1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 7 stacks Winders: 6..
Finishing Plant. Rewinders: 2.
Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 10,000. M.g.p.d. Source: River
Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, tissue wrapping and specialties, 200 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. of James River Corp.) 340 Mill St 48063
Tel: 313-651-8121
RR: GTW siding Hwys. US Rte # 10 State Rte # 150.
J.T. Webb, Vice Pres, Gen Mgr
William M Kirkland, Plant Mgr
Carl W Bach Jr, Ppr Mchne Supt
Richard Agar, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Plachta, Plant Engr
Robert L Blome, Sales Mgr, Ind Filter
Mary Lou Deaton, Cust Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb Screens: 1 Parker. Jordans: 2 Noble & Wood. 1 Jones Fibremaster.
Paper Machines 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses 1. Calenders. 1 stack..
Coaters. On-Machine.1-62" roll saturator, 20 tons daily cap
off Machine 1-62" roll laminator, 12 tons daily cap
Finishing Plant. Rewinders. 1-72" Cameron Sheeters 1-72", 1-84" Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses 2 Die Cutters: 1-32x60 Sheridan Sewing Machines 1
Steam/Power. Power Boilers. Fuel: Oil. Press.: 100 psi
Electricity Freq, phase 60, 3 Purchased: 100%.
Water Treatment. Daily Usage, 150. M.g.p.d Source: Wells
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties, sewn specialties, glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily

ROCKFORD

Rockford Paper Mills, Inc. 7734 Childsdale Rd 49341
Tel 616-866-1523
RR Mich Nthrn Hwys Near US Rte # 131 Approx Mi 3
James Isabel, Mill Mgr
Craig Linderman Mill Supt
Charles Paridon Maint Supt
Paper Mill Stock Preparation Pulpers. 4 Hydrapulper Screens 8 Refiners. 3 S-W Cleaners B-C Liquid Cyclone Consistency Regulators. DeZurik Other Eqt allied clay mixing eqt
Paper Machines Eight-Cylinder 76" Width 68" Trim 315 fpm
Dryers Drums 115-42", 12-36" dia Calenders. 3 stacks.
Coaters. On-Machine Air Knife, 1 Waldron Microjet
Finishing Plant Trimmers 1
Steam/Power. Power Boilers 1 Fuel Coal. Steam, lbs hr 50,000 Press. 135
electricity Freq, phase 60, 3 Installed H P. 2100 electric. 300 water Purchased 1500 kva
Water Treatment. Daily Usage, 20 M g p.d Source River
Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**
Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi-Price Corp.** Building Products Group
Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St. 49097
Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Peter Lowe, Opers Mgr
David De Young, Gen Supt
Adolph Konjeczny, Ppr Mchns Supt
Chester Dobrowolski, Fnshng & Coating Supt
D Weybright, Tech Dir
C Globig, Mgr R&D
Roger Huckendubler, Chief Engr
Chet Dobrowolski, Ctg & Fnshg Supt
Rodger Watson, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Jack Page, Estrn Srvc Mgr
Pulp Mill Rags: Batch Digesters: 2 10,000 lb Rotary Pulp Processing. Washers: 4 1000 lb rag
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters. 2-1500 lb, 2-1000 lb Bertrams. Screens: 5 Refiners: 2 double disc Morden Jordans: 5 Jones Imperial
Paper Machines 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers. Drums: 122 Size Presses 4 Calenders. 3 stacks. Winders: 3..
Coaters. off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders. 2-56", 1-48" Rewinders: 6. Sheeters: 3-57", 61", 61" Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers. 2. Fuel Gas/Oil. Steam, lbs hr 80,000
Electricity Purchased: 100%
Water Treatment. Daily Usage, 2,500 M.g.p.d. Source River, Wells.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration basin, spray irrigation
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. (Sub of Howard Paper Mills Inc.) 279 Paw Paw Av 49098
Tel 616-463-3141 Telex. 72-9432
RR: C & O siding Hwys. US Rte # I-94 State Rte # 140
David D Stiles, Vice Pres, Gen Mgr
Bucky Carrango, Vice Pres, Mfg
Milton F Stibal, Vice Pres, Mfg Srvcs
Richard S Urban, Vice Pres, CEO
Jimmie D Paskel, Coatg Supt
Walter Elliott, Pprmkg Supt
Lemoin M Shadduck, Mgr, Engrg
John H Matthews, Dir Prchsg
Paper Mill Stock Preparation: Pulpers 4 Refiners: 4 Hydradisc. Jordans 3 Jones
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers Drums: 85 Size Presses. 2. Calenders: 2. Winders: 2.
Coaters. off Machine Air Knife. 4: 92", 88", 70" 66"
Finishing Plant. Supercalenders 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101" Trimmers. 4-85" and 100". Other Eqt.: 1 62" Embosser
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000. Press.. 235
Electricity: Installed H.P. 450 water. Purchased: 100%
Water Treatment. Daily Usage, 1,200 M.g.p.d. Source: wells
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601
RR: ConRail siding. Hwys. US Rte # 12.
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
William A Lunsford, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper Screens. 6. Refiners: 4. Jordans: 2.
Paper Machines. 1 six-unit Ultraformer, 110" trim..
Dryers. Drums: 76 Calenders: 3..
Coaters. On-Machine Air Knife. 1-110"
Finishing Plant Rewinders: 1. Trimmers: 1-85".
Steam/Power. Power Boilers: 2 Fuel Oil/Gas. Steam, lbs hr. 180,000 Press.: 500 psi.
Electricity: Purchased 100%
Water Treatment. Daily Usage, 250 M.g.p.d. Source River
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard, 160 tons daily

YPSILANTI

Peninsular Paper Co. (Sub of James River Corp, Curtis Paper Div.) 1000 N Huron St 48197
Tel: 313-482-2600 Telex: 810-223-7004
RR ConRail siding Hwys: US Rte # I-94
Edward G Gremban, Vice Pres, Gen Mgr
Frank L Wright, Vice Pres Sales
Gerald Linzmeyer, Res Mgr
David Seidler, Div Engr
William Turner, Fnshg & Shpg Supt
Jeffrey Brown, Mgr Qlty Contrl
Harold Rhora, Traffic Mgr
Paper Mill Stock Preparation Pulpers. 2-2000 lb Hydrapulper Refiners 1 Morden Jordans: 2 Jones Standard Cleaners: Bauer Centricleaners Consistency Regulators: Fischer Porter Stock Mixers: Lightin agitators
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Dryers Drums: 52-36" dia Size Presses: 2. Calenders 2 stacks Winders: 2.
Finishing Plant. Roll Wrapping Eqt. 1 line. Rewinders: 1-78" Langston Sheeters. 2-85", 65" Hamblet Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning Hayssen banding unit Other Eqt.. Embossers: 3 Printer-Embossers: 1 Pasters 1 duplex
Steam/Power. Power Boilers 1 Fuel: Gas/Oil. Steam, lbs hr: 40,000 Press. 130
Electricity: Freq, phase 60, 3 Installed H P 1200. Purchased 25000 kwh/day

MHI-00235

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES
GOTTESMAN & CO., Inc. • EXPORT WOODPULP
100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

hr.. 16,000 Press. 225
Electricity Freq. phase 480 v. 60. 3. Purchased 10,200 kwh/day. Generated 1,800 kwh/day. Turbogenerators. 2 300 kw turbines.
Water Treatment. Daily Usage. 1,000. M.g.p.d Source. River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier, flotation saveall, effluent to municipal plant.
Products. Rag content, erasable, onion skin, thin bond, technical, chart, airmail, art, diazo intermediate base, sensitizing, saturating, surface watermarked, tracing, waterleaf, writing, 15 tons daily.

Strathmore Paper Co. 01376
Tel: 413-863-4333
Hwys Near US Rte # 2 Approx Mi 1.
Gary F Regan, Plant Mgr
Kenneth C Andrews, Plant Supt
Fred Witek, Chem
David Heller, Plant Engr
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill
Products. Bond, writing, index, text, ledger, cover, drawing and illustration papers

WELLESLEY

★Deerfield Specialty Papers Inc.
Headquarters Location. See Executive Offices section for more details.

WESTFIELD

Stevens Paper Mills, Inc. 77 Mill St.
RR: ConRail Hwys. US Rte # 202.
David Schoales, Pres
Paper Mill Stock Preparation: Beaters: 5 Bertram, 8 other Jordans. 10
Paper Machines 4 Fourdrinier 94" Width 86" Trim
Products. Condenser and coil winding tissue, electrical insulating paper, 10 tons daily
Paper Mill is idle.

★Strathmore Paper Co. S Broad St 01085
Tel 413-568-9111 Telex 95-5442 TWX 710-350-1384
Headquarters Location. See Executive Offices section for more details.
James A Brough Plant Supt
James E Prendergast, Plant Engr
Paper Mill Stock Preparation: Pulpers: 4 Refiners: 21 Cleaners 65 Dirtec, Bauer
Paper Machines 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
1 Fourdrinier 90 Width 80" Trim
1 Fourdrinier 90" Width 78" Trim
Finishing Plant Supercalenders: 4 Sheeters 14 Trimmers 16 Other Eqt. Air Dryers: 3
Products. Bond writing, vellum, bristol, wedding, typewriter manuscript cover, text, box cover, drawing, jeweler s bristol, papeterie, steel plate, patent office board, gravure, 160 tons daily, total of Turner s Falls Westfield, Woronoco, and Millers Falls mills

WEST GROTON

Hollingsworth & Vose Co. 01472
Tel: 617-448-3311 Telex 928459
RR. ConRail siding Hwys: US Rte # 40. State Rte # 2A.
Jack Lukins Mill Mgr
Robert Lurvey, Mgr. R&D Lab
Jerome Rizzo Gen Supt
Paper Mill Stock Preparation Pulpers: 3. Jordans: 4 Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 66" Width 60" Trim Rotoformers 1 65" width. 58" trim
Rotoformers: 1 120" width. 110" trim.
Finishing Plant. Rewinders. 2 Sheeters: 2. Trimmers: 2
Steam/Power. Power Boilers: 3. Fuel: Oil. Press.. 150
Electricity: Freq. phase: 60. 3.
Water Treatment. Daily Usage. 5,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, automotive filter, absolute filter, book cover, latex impregnated and non-woven papers, 50 tons daily.

WEST SPRINGFIELD

★Preco Corp.
Headquarters Location. See Executive Offices section for more details.

Premoid Corp. (Sub. of Preco Corp.) Front St. 01089
Tel: 413-736-4554 Telex: 955474
RR. ConRail siding. Hwys. US Rte # 20 Near State Rte # Mass Tnpke Approx Mi 4
Joseph H Torras, Chmn & CEO
Robert W Ackerman, Pres & COO
F.B. Comery, Vice Pres, Sales
Neil S Balfour, Vice Pres, Mfg
J.A Cancelliere, Vice Pres, Coating Div
A T Thibault, Treas
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
A.J Gianforcaro, Chief Engr
Mark J Stepanik, Prchsg Mgr
Paper Mill Stock Preparation. Pulpers: 1. Screens: 2. Refiners 1. Jordans: 1
Paper Machines 1 Fourdrinier 72" Width 63" Trim Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant Rewinders: 1. Sheeters: 1. Other Eqt.. 1-60" two-station roto-gravure printer, 3-60" roll embossers
Water Treatment. Daily Usage. 400. M.g.p.d Source. River Primary Treatment: Yes
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089
Tel 413-732-5141 Telex 955-484
RR ConRail siding Hwys US Rte # 91.20.
John H Southworth, Pres
Kent Tarrant Exec Vice Pres
Jack E Moffett Vice Pres, Sales
Elio Viecelli Supt
John F Hamel Treas
David C Southworth, Sec
Paper Mill Stock Preparation Pulpers 2. Refiners. 2 disc Jordans 2
Paper Machines 1 Fourdrinier 85" Width 70" Trim Dryers Size Presses tub
Finishing Plant Sheeters 3 Trimmers: 4
Steam/Power. Power Boilers 2 Fuel Oil.
Water Treatment. Source River
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Rag content bond typewriter, onionskin, manuscript cover writing papers, 20 tons daily

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR: B&M Hwys US Rte # 20
Richard Crommett, Plant Mgr
Phillip N Wyman, Mgr. Mfg
Richard F Matulowitz, Chem
Alfred Letourneau, Plant Engr
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..
Products. Mill No 1 writing, text, cover, artist's, papetene papers Mill No 2: Rag specialty, reproduction, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★Simplex Products Group
Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi-Price Corp. Building Products Group 416 Ford Ave. 49707
Tel: 517-354-2121
RR: Detroit & Mackinac Siding Hwys: US Rte # 23. State Rte # 32.
R.G. Brown, Plant Mgr
G Manitz, Mgr Mfg
R.R. Stepanski, Mgr Fbrctg & Tech Srvcs
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
F.M. Worden, Power Plant Supt
T.J. Kelly, Pers Mgr
J.N. Gatward, Plant Contr
A.J. Towlerton, Plant Buyer
J.C. Lamy, Woods Mgr.
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle. Pulp Processing. Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation Pulpers. 1 Jones repulper. Refiners 3 Bauer, 2 Sprout-Waldron pumpthru
Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt 2 20-deck presses, 1 22-deck press
Steam/Power. Power Boilers 3. Fuel: Coal/Wood Waste Steam. lbs hr. 240,000 Press.. 900/300 psi
Electricity Purchased 100,000 kwh/day Generated: 200,000 Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage. 1,500. M.g.p.d. Source: River Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment. Sludge dewatering and drying
Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W Fletcher St 49707
Tel 517-354-2131
RR. D&M siding Hwys US Rte # 23 State Rte # 32.
Allan M Fletcher Pres Treas
John T Fletcher, Vice Pres
R Werner, Sec. Pur Agt
Charles S White, Gen Mgr
A.J Steber Gen Supt
K Byers, Paper Mill Supt
M.J Bekes, Tech Dir
T Van Massenhove, Chief Engr
Clifford Crevier Fnsng Supt.
C Roberts, Traffic Mgr
Elbert M Heath Sales Mgr
Paper Mill Stock Preparation: Pulpers 3 Hydrapulpers Screens 2 Selectifier Refiners: 5 Jones DD. Jordans. 3 Jones
Paper Machines 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1400 fpm
Dryers. Drums 62 Size Presses: 2. Calenders: 2 stacks Winders 2
Coaters. off Machine. 1-60" Roll-Blade-Gravure, 10

MHI-00236

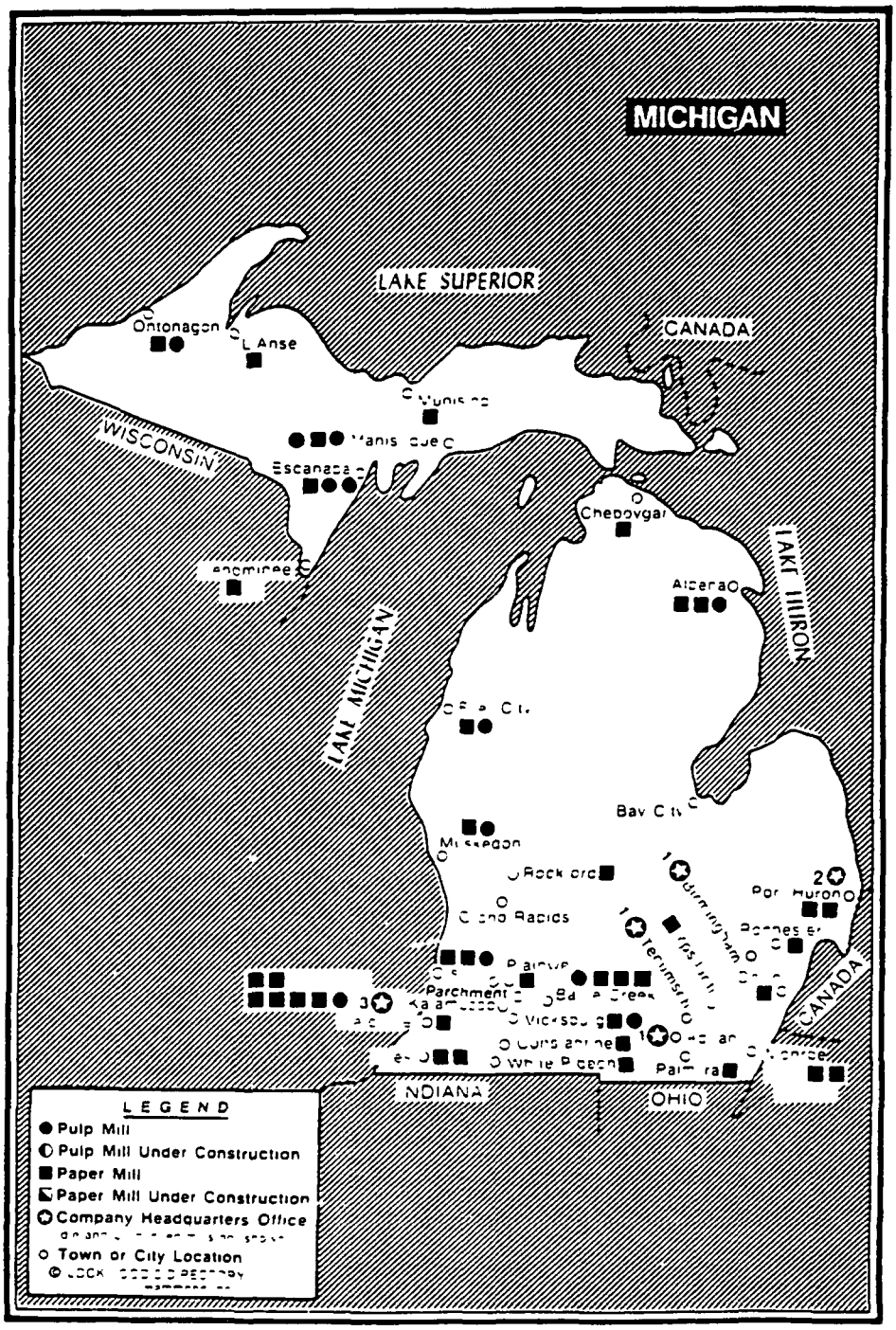
tpd capacity
Finishing Plant Sheeters 1-67 pressure Trimmers 3-65 72 85
Steam/Power Power Boilers 1 Fuel Gas/Oil
Steam lbs hr 60 000 Press 450 psi
Electricity Freq phase 60 3 Generated 72 000 kwh/day
Water Treatment Daily Usage 700 M g p d Source Thunder Bay River Primary Treatment Yes
Effluent Treatment. Primary Treatment 1 Clarifier Secondary Treatment City syst
Products. Airmail and cotton fibre bond absorbent bible offset carbonizing chart coating base filter label manifold map music onionskin opaque bond release saturating sensitizing technical wet strength and writing papers 82 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079
Tel 616-968 3000 Telex 223503
RR ConRail Hwys State Rte = 96 Near US Rte = IS-94 Approx Mi 8
E Hibben Pres & Treas
Leo Fuchs Exec Vice Pres Gen Mgr
Hans C Mueller Vice Pres Mktg
Fred Woodruff Jr Sec
Jerry H Beeman Mgr Admn Srvcs
Brenda M Bass Prod Mgr
Robert C Bommarito Qlty Control Mgr
Kristopher J Blake Lab Mgr
Peter K Gruber Engrg Mgr
Peter P Rudish Sales Engr
Pulp Mill Ground Wood Refiner Avg Daily Proc Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation Pulpers 1 Hydrapulper
Paper Machines 3 molding machines of own design
Products. Molded fiber products for automotive industry

Michigan Paperboard Corp (Subs of Field Container Corp) 79 E Fountain St 49017
Douglas Rollenhagen, Prchsg Mgr
Products. Boxboard Certain production facilities of St Regis Corp s Fountain and Angell Mills (see next listing for equipment) have been acquired by this company

St. Regis Corp. Recycled Fiber Div Battle Creek Pprbd Mills 79 E Fountain St 49016
Tel 616-963-5511
RR ConRail GTW siding Hwys US Rte # I-94 I-69 State Rte = 66,37 89
W T Myers Res Mgr
C.J Lambert Mfg Supt, Fountain Mill
R Johnson Mfg Supt Angell Mill
Roger Bush Supt, Fountain Mill
Stan A Hicks Supt, Angell Mill
Clyde G Eckhart Tech Dir
J G McCarthy Contr
J Martinek Pur Agt, Traf Mgr
Paper Mill Stock Preparation Pulpers 3-4000 lb and 3-3000 lb Morden Slushmaker 1-14' 3-16', and 1-20 Hydrapulpers 1 3000 lb Beaters 1-2000 lb broke Refiners 4 Hydrafiners 1 Jones DD 3 Disco 2 Bauer Jordans 15
Paper Machines 1 Beloit Bel Bond Former 130' trim 1000 fpm
Stevens Formers 1 seven unit 120' trim, 750 fpm
1 six-unit Ultraformer 98 wide 96" trim 450 fpm
Dryers Drums 283-60 Calenders 7 stacks 1 breaker stack Hi-Velocity 2 gas infrared
Coaters On-Machine Air Knife 1-130", 1-98', 1-122 On-Machine Trailing Blade 1-130' 1-98 1 122 On-Machine Rod 2-130'
Steam/Power Power Boilers 3 Fuel Oil/Gas
Steam lbs hr 240 000
Electricity Purchased 2 500 kwh/day Generated 7 500 kwh/day Turbogenerators 2-8500 kw/kva
Water Treatment. Daily Usage 5 000 M g p d Source River
Effluent Treatment. Primary Treatment. Yes Effluent to joint industrial/municipal plant
Products. White clay coated white lined news bending chip 565 tons daily Certain production facilities have been acquired by Michigan Paperboard Corp (see listing above)



CHEBOYGAN

Procter & Gamble Paper Products Co 437 S Main St 49721
Tel 616-627 5664
RR D&M siding Hwys US Rte = 27
T E Gestrich Plant Mgr
Paper Mill Paper Machines Yankee Fourdrinier 136 Width 130 Trim
Yankee Fourdrinier 136 Width 130 Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Products Div Centreville Rd 49042
Tel 616-435-2425 Telex 510 398 5730
RR ConRail siding Hwys US Rte = 131
Walter Watchiwski Plant Mgr
Roscoe Morton Maint Supv
Dick Thomas Cnvtg Supt
Andrew Jiskra Shpdg/Rcvng Supv
Sandy Munson Office Mgr
Paper Mill Stock Preparation Pulpers 2 Screens 2 Refiners 2 1 deflaker Jordans 2 Other Eqt 1 disc filter
Paper Machines Seven-Cylinder 112 Width 100"

MHI-00237

Nielsen & Nielsen, Inc.
300 POMONA MALL W, POMONA, CA 91766
TEL 714-623-6663 TWX 910-581-1468
NIELSEN PONA TLX 291-687
• Domestic & Foreign • Secondary Fiber
• Repulping Rolls of Paper & Board
Coated & Uncoated • Job Lot &
Convertible Tonnage

Trim
Dryers Drums 4 sets hi-stack.
Finishing Plant Other Eqt. Laminators 2 Die Presses 2
Steam/Power Power Boilers 2 Fuel Gas/Oil Press 150
Electricity Freq. phase 440 v, 60, 3 Purchased 100%
Water Treatment. Daily Usage, 70 M g.p d Source River
Effluent Treatment. Primary Treatment None Effluent to municipal plant.
Products. Chipboard test liner 100 tons daily

DETROIT

Port Huron Paper Co 9125 W Jefferson Av 48209
Tel 313-842-0042 Telex TWX 810-2219-428
RR ConRail siding, Rouge Yard Hwys US Rte # IS-75
Egil R Aschim Paper Mill Mgr
Donald Grace Plant Engr
L.J Sturm, Tech Supt
R P McConkie Pers Mgr
Paper Mill Stock Preparation Pulpers 4 Refiners 7 double disc 1 Morden Jordans 5
Paper Machines 1 Yankee MG Fourdrinier 118' Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126 Trim
1 Yankee Fourdrinier 130' Trim
Dryers Yankee 4
Steam/Power Power Boilers 3 Fuel Gas/Oil Electricity Generated 100%
Water Treatment. Daily Usage (n a) M g p d Primary Treatment Yes
Effluent Treatment. Primary Treatment. City System
Products Foil mounting wrapping lightweight specialty papers creped specialties 160 tons daily

ESCANABA

Mead Corp Publishing Paper Div 49829
Tel 906 786 1660
RR C&NW Soo Line sidings Hwys US Rte # 2 4 1 State Rte # 35
S S Benedict Pres Gen Mgr
R Hake Vice Pres Admin
W R O'Donnell Vice Pres Mktg
Gary Butryn Opers Mgr
L King Pulp Mill Supt
Ken E Noonan Tech Dir
Kenneth Clark Mgr Plant Engrg & Maint
G E Barnes Qual Mgr
J L Parr Enviro Control Tech Dir.
W H Goode Util Mgr
J F Schneider Sales Srvc Mgr
J C Huskey Contr
Richard E Nelson Mgr Matls
T J Gregoire Dir Human Rsrcs
R Tompkins Pub Rels Mgr
Erm Venuto Gen Mgr Woodlands
Woodhandling and Preparation Log Handling Live decks Chip Handling Rader pneumatic system Barkers 2 12 x 80 drum 1 22' Nicholson hydraulic Hogs 1 Gruendler bark Chippers 2 15 knife 112 disc 1 84 Nicholson Chip Screens 1 KMW 1 Rader
Pulp Mill Kraft Avg Daily Prod Bl Swd, 200 tons Bl Hwd 400 tons of which 300 tons is Market Pulp Batch Digesters 6 6 500 cu ft each
Ground Wood Refiner Avg Daily Prod Bl Hwd 200 tons Refiners 4 primary 2 secondary Sprout Waldron 42 1B disc
Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W 2 400 000 lbs solids/day 300 000 lbs steam/hr at 1500 psi 950° Electrostatic Precipitators 1 Western Precipitation Lime Kilns 1 Allis-Chalmers Gas Scrubbers 1 Ducon on recovery boiler 1 venturi on kiln Lime Mud Washers 1 8 x12 D-O Recausticizing System Dorr Oliver
Bleach Plant Sequence Gwd 1 stage Kraft C E D E D Chlorine Dioxide System Hooker SVP system
Pulp Processing Knotters Gwd 2 A-C vibrating Kraft SW Hooper centrifugal Drainers Gwd 1 Morden 1 Bauer Helipress Stock Refiners Gwd 2-26' S-W Twin-Flo Rejects Refiners Gwd 1 Bauer Screens Gwd 4 primary, 1 secondary Cowan, 2 Bird Centrisorter Kraft Bird Centrisorters Cleaners Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd 1-8'x16 Impco bleach Kraft 3-13½ x24' Impco brown stock 5-13½ x24' Impco bleach Washers Gwd 7-48"x131" Cowan gravity 1-12', 16-disc Hymac. Kraft 1-13½ x24' Impco
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying 166' width 155" trim, 1300 fpm, 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor
Paper Mill Stock Preparation Pulpers 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers Size Presses 2 Calenders 2 stacks Reels 3 Re-reelers Winders 3
Coaters off Machine Trailing Blade 2-286' 2-172' 1-302" Wartsila double blade for C2S
Finishing Plant Supercalenders 1 9-roll Bruderhaus 2-278' 9-roll Appleton Roll Wrapping Eqt Lamb-Grays Harbor automatic Rewinders 1 Lenox 3 2 drum 156 Cameron 2-MIR 278" Cameron Sheeters 3 - Hamblet Trimmers 3 Sey bold
Steam/Power Power Boilers 3 Fuel Oil/Gas/Bark Steam lbs hr 1 600 000 Press 400/1500 Electricity Freq phase 60 3 Installed H P 75 000 Hydroelectric 2 000 kwh/day Turbogenerators 48 000 kwh/day
Water Treatment. Daily Usage 28 000 M g p d Source Lake Michigan Primary Treatment Sand filters
Effluent Treatment. Primary Treatment Clarifier Secondary Treatment: Aeration lagoon Tertiary Treatment Clarifier
Products. Coated book and publication papers 1305 tons daily Kraft hardwood market pulp 300 tons daily

FILER CITY

Packaging Corp of America 49634
Tel 616-723-9951
RR C&O siding Hwys US Rte # 31
F J Fragomeli Vice Pres & Mgr
L.L Huffman Prod Mgr
C F Mills Tech Dir
D J Elliott Engrg Mgr
N D Sorenson Fin Mgr
M R Mysliwiec Dir Ind Rels
R F Davis Wdlnds Mgr
Woodhandling and Preparation Roundwood Storage Capacity 26 000 Cords Barkers 1 12 x80 FMP Chippers 1 112 12-knife Chip Screens 2 HiCap
Pulp Mill Semi-Chemical NSSC Avg Daily Prod 600 tons Continuous Digesters 3 Pandia
Chemical Recovery Plant Evaporators 2 multiple effect Recovery Boilers 1 fluidized bed unit
Pulp Processing Stock Refiners 3 American Defibrator Screens 2 Washers 4 Vacuum 5 screw press
Paper Mill Stock Preparation Pulpers 3 Screens 3 Refiners 5 Jones disc 4 Sutherland Jordans 7 Miami
Paper Machines 1 Fourdrinier 174 Width 158 Trim 1200 fpm
1 Fourdrinier 172' Width 157' Trim 1300 fpm
1 Fourdrinier 160 Width 148' Trim 750 fpm
Dryers Drums 148-60' dia
Steam/Power Power Boilers 4 Fuel Oil Gas Coal Steam lbs hr 600 000 Press 610
Electricity Purchased 25 000 kwh/day Generated 475 000 kwh/day Turbogenerators 3-21 875 kva total
Water Treatment. Daily Usage 20 000 M g.p d Source River Lake
Effluent Treatment. Primary Treatment 2 Clarifiers Secondary Treatment Aeration pond
Products. Corrugating medium, 720 tons daily

KALAMAZOO

★**Allied Paper Inc.** 'Paper Mills Div (Sub of SCM Corp) 2030 Portage St 49001
Tel 616-345-7131
Headquarters Location See Executive Offices section for more details
RR ConRail sidings Hwys US Rte # IS 94, 131 State Rte # 43 96
T E Flanagan Vice Pres Opers
R W Mirkin Vice Pres Sales & Mktg
Kenneth Sweet, Prod Mgr
S Oakleaf Asst Prod Mgr
R Eaton, Engrg, Maint & Util Mgr
E O Arnold, Supt. Mill C
R Steadmon, Supt. Mill D
D Falvey, Engrg Mgr
D C Kirk Jr, Tech Dir
H.D Peeters, Mgr Prod Sched
U G Stoeffler, Mgr Proc Devl
G F Mahoney Natl Sales Mgr
J L Curtis, Mktg Mgr
B L Rasmusson, Dir Prchsg
Tom Cadwell, Traf Mgr
Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141' Width 127" Trim
1 Fourdrinier 154' Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters off Machine C2S Fountain Blade, 126" trim
Steam/Power Power Boilers Fuel Oil/Gas
Water Treatment. Source River Wells
Effluent Treatment. Primary Treatment 2 clarifiers.
Products. Adding machine bible bond, coated and uncoated book end leaf foil mounting, gift wrapping, label map offset opaque sensitizing text, vellum xerographic litho chart music watermark, 240 tons daily Coated electrostatic base master and specialites 75 tons daily Coated two sides matte finish book 100 tons daily

Georgia-Pacific Corp Kalamazoo Paper Div 2425 King Hwy (PO Box 2738) 49003
Tel 616-382-2890 Telex 810 277 2618
RR ConRail GTW siding Hwys US Rte # I-94
Thomas F Sullivan Res Mgr
David Norman Prod Mgr
Del Van Bruggen Paper Mchne Supt #8 Mchne
Earl Vining Paper Mchne Supt #7 Mchne
Larry Pio Tech Dir
Fred J Shelton Chief Engr
Ronald Bush Plant Contr
F Higdon Pur Agt
James H Cox Traffic Mgr
H Fielder Pers Mgr
Pulp Mill Deinked Pulp Avg Daily Prod 200 tons Batch Digesters 2 lines of 10 primary and 2 secondary flotation cells 110 tpd sidehill washers, 90 tpd
Bleach Plant Sequence 1 Hypochlorite/Hydrosulphite stage Towers 1 downflow
Paper Mill Stock Preparation Pulpers 6 Beaters 4 1500 lb 6 2500 lb 2 3500 lb Refiners 5
Paper Machines 1 Fourdrinier 142' Width 125" Trim 800 fpm
1 Fourdrinier 185 Width 170" Trim 1500 fpm
1 Fourdrinier 170 Width 150' Trim 2000 fpm
Dryers Size Presses 3
Finishing Plant Rewinders 2 95
Steam/Power Power Boilers 4 Fuel Gas/Oil Steam lbs hr 350 000 Press 450/275
Electricity Freq phase 440v 60 3 Installed H P 18 500 electric Purchased 4 000 kw Generated 12 000 kw Turbogenerators 4
Water Treatment. Daily Usage 8,000 M g.p d Source River
Effluent Treatment Primary Treatment Clarifiers, joint municipal system
Products. Bond offset label, postcard 460 tons daily

Hawthorne Paper Co Inc. (Sub of Gould Paper Corp) King Hwy

MHI-00238

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES.
GOTTESMAN & CO., Inc. • BLEACHED KRAFT PULP
00 PARK AVENUE NEW YORK, N Y 10017 212-532-7300

Paper Mill Is Dismantled.

★**James River Corp.** Paperboard Packaging Group 243 E. Paterson St. 49007

Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94. State Rte # 43.
Richard Bennett, Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
Michael Patton, Supt, Plt 7
Jim Askew, Supt, Plt 14
Robert A Nitz, Tech Dir
Max Heckelman, Mgr, Maint & Util
Wayne VanWeelden, Admn Mgr
Glenn Zettlemaier, Div Contr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke. Refiners: 8 Hydrafiners, 2 Morden Stockmaker. Screens: 21. Jordans: 10.
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2.
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters.
Finishing Plant. Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.
Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 300,000.
Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: Deep well.
Effluent Treatment. Primary Treatment: City syst.
Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated. 400 tons daily.

National Gypsum Co. 2305 E. King Hwy

RR: ConRail siding. Hwys: US Rte # 12.
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack..
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Gypsum board liner, 145 tons daily. Mill closed for indefinite period
Paper Mill Is Idle.

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp. PO Box 86 49946

Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41.
L.W. Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr

Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper. Consistency Regulators: Brammer type.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater.
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.
Products. Mineral board products, perforated and unperforated tile, other interior finish products. 200 tons daily.

MANISTIQUE

Manistique Papers Inc. PO Box 309 49854

Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Francis J Kasun, Pur Mgr
Allen Schuster, Sales Mgr
Walter Alexander, Treas

Woodhandling and Preparation Roundwood Storage Capacity: 15,000 cds.. Mobile Equipment: 2-cranes. Slashers: 1. Barkers: 1 drum. Bark Presses: 1. Hogs: 1. Avg. Daily Use of Peeled Pulpwood: 65 cds.
Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: Unbl. Swd., 90 tons Grinders: 6 Voith magazine.
Deinked Pulp: Avg. Daily Prod.: 110 tons
Pulp Processing: Stock Refiners: 1. Screens: 2 Finckh, 2 Cowan.
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Fourdrinier 165" Width 154" Trim 2600 fpm
Dryers. Drums: 40-60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 145,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Newsprint, groundwood printing and groundwood converting papers. 200 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858

Tel: 906-863-5595
RR: C&NW, CMStP&P. Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
William Walker, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Robert Pomrenke, Cnvtg Supt
Larry Eggleston, Sales Mgr
Cal Claremont, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt.: Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Linerboard, corrugating medium, tube stock, waxing tissue, lightweight MG. 360 tons daily. Waxed paper in rolls and sheets

MONROE

Smurfit Paperboard Div. of Smurfit Industries Inc. (formerly Time Container) 1151 W. Elm Av. 48161

Tel: 313-241-3220
RR: C&O siding. Hwys: US Rte # 24, I-75.
Robert H Degraer, Vice Pres, Gen Mgr
A.G. McBee, Mill Prod Mgr
A Bussell, Mill Supt
Edward G. Strass, Chief Chemist
W Manor, Chief Engr
Charles Robertson, Fnshg Supt
Delbert Broughton, Plant Contr
E O'Brien, Pur Agt
E Flotow, Sales Rep
J Zimmerman, Sales Rep

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 2 Emerson. Jordans: 5 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums: 110. Calenders: 2 stacks. Winders: 2..
Finishing Plant. Rewinders: 2. Trimmers: 1.
Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Joint municipal-industrial system.
Products. Test linerboard, pasted chip, plain chip, can and tube board, lightweight chip, panel board. 110 tons daily.

Union Camp Corp. Kraft Paper & Board Div. 1109 E Elm St (PO Box 588) 48161

Tel: 313-241-7700
RR: ConRail, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
E.D. Redman, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
W.J. Sandretto, Mill Engr
N.D. Lee Jr, Dir, Prchsg
E.L. Kelley, Mill Sales Mgr
P.R. Berestecky, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners: 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 3 Autoflyte. Winders: 3 two-drum..
Steam/Power. Power Boilers: 2. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 240,000. Press.: 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 6,000 kwh. Turbogenerators: 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2, 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards. 200 tons daily.

MUNISING

Kimberly-Clark Corp. K-C Technical Paper & Specialty Product Grp. Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR: LS&I. Hwys: State Rte # 28,94.
Walter S Servia, Mill Mgr
E.E. Estrep, Admin Mgr
Daniel F Claus, Opers Mgr
R.D. Pratt, Paper Mill Supt
G.M. Linquist, Tech Srvcs Mgr
G.C. Nelson, Engrg Mgr
K.Z. Livermore, Spclties Supt
W.G. Stangel, Mgr Fin Srvcs
R Eugene Heimerman, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.
Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base,

MHI-00239

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

GOTTESMAN & CO., Inc. • UNBLEACHED KRAFT PULP

100 PARK AVENUE NEW YORK N Y 10017 212-532-7300

saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443

Tel: 616-755-3761 Telex. 510-394-4300

RR: C&O siding. Hwys. US Rte # 16,31,196. State Rte # 46.

R Furer, Res Mgr
Karl Dornish, Prod Mgr
Dan Burling, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
John S Moran, Mgr, Srvcs
Dick Matlack, Paper Mill Supt
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
W LaPierre, Fnshg/Shppg Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane. Flume: 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system Chip Unloaders: Hydraulic truck dumper Barkers: 1-30 cds/hr Manitowoc drum. Hogs 1 Montgomery Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd.

Pulp Mill Kraft Avg. Daily Prod., Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquor Oxidation System Champion system Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers. 1 Lime Mud Washers. 1 Dorr-Oliver Recausticizing System: Dorr-Oliver
Bleach Plant Sequence: C-E-H-D. Towers 4 Mixers: 4 Thick Stock Pumps. 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters: 3 Impco Screens 3 Cowan. Cleaners: 1 three-stage Bauer system Washers. 3-9 x 16' Impco vacuum Deckers 2-9' x 16', 8' x 8' Impco Other Eqt.: 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines: 1-100 tpd Kamyr Cutter-Layboys: Hamblet. Scales. 1

Paper Mill Stock Preparation Pulpers 6 Vokes rotor Hydrapulper Screens. 2 Selectifiers Refiners 5 Claflin, 1 double disc. Jordans: 4 Shartle Cleaners 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators. 14 DeZurik, 5 Foxboro Size Cookers: 1 continuous, 3 batch
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums 40 and 27 48" 55 and 69 60" dia. Hi-Velocity 2. Size Presses. 2 Calenders 4 Reels: 2 Pope Winders 2 two-drum
Coaters. On-Machine Trailing Blade, 1-163" puddle, 1-222" Invertablade
Finishing Plant Supercalenders 3-100" 1-87" 1-115", 1-80" Roll Wrapping Eqt. D.J Murray system Rewinders 3 Langston Sheeters 1 Lenox folio, 3, 100" to 112" Trimmers 3-100" Ream Wrapping & Cartoning: Southworth system Strapping Eqt Signode system

Steam/Power. Power Boilers: 3 Fuel Coal/Oil Steam lbs hr 500 000 Press 500
Electricity Freq, phase 60 3 Purchased 3,500 kwh/day Generated 19,000 kwh/day Turbogenerators 3-25,500 kw

Water Treatment. Daily Usage, 20 000 M g p d Source Lake Primary Treatment Eimco

Effluent Treatment. Primary Treatment County spray irrigation system

Products. Machine coated book litho cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120

Tel: 616-683-1100

RR: ConRail siding. Hwys: US Rte # 31,12. State Rte # 60,51.

J.E. French, Chmn Bd
B.R. Bigford, Pres
R.D Clark, Exec Vice Pres, Sec
T.R. Friedrich, Vice Pres, Mfg
Jerry E French, Treas
G Halliwell, Chief Engr
Larry C Bristol, Sales Srvc
R Etzcorn, Pur Agt

Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers Winders: 3..
Finishing Plant. Sheeters: 3. Trimmers: 2. Other Eqt., 2 Embossers.

Steam/Power. Power Boilers: Fuel: Coal. Press.: 150
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 1600 electric, 1600 water

Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.

Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 50 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49121

Tel 616-683-4100 Telex 258459

RR ConRail Hwys: US Rte # 12,31. State Rte # 60 40.

Chuck Dewitt, Plant Dir
Jack Hesser, Paper Mill Supt
Tom Deforrest, Dir Engrg
V C Grathol, Plant Engr
R Ganis, Plant Contr
Earl Stevens, Pur Agt
W Sands, Distrib Mgr
T Hitt, Ind Rels Dir
A Seaman, Traf Mgr

Paper Mill Stock Preparation Pulpers, 3 Dynapulpers Screens: 1 Refiners: 4 Jordans: 1. Cleaners: 5. Consistency Regulators 2 Other Eqt.: 2 Savealls.
Paper Machines. Stevens Formers: 1-162" wide, 150" trim, 1000 fpm.
Dryers Drums: 8 and 12 - 48" dia Calenders 1 7-roll, 1-2 roll. Reels: 1 Winders: 2 Shear-Cut.

Steam/Power. Power Boilers. 1 Fuel: Gas/Oil Steam, lbs hr., 35000 Press., 100 psi
Electricity Freq, phase 60, 3. Installed H P 3,264 Purchased 32,000 kwh/day

Water Treatment. Daily Usage, 1,000 M g.p.d Source Wells

Effluent Treatment. Primary Treatment Yes

Products. Pattern tissue, 33 tons daily

ONTONAGON

Champion Packaging Div of Champion Intl Corp 115 Lakeshore Rd 49953

Tel 906-884-4121

RR Milw Rd siding Hwys US Rte # 45 State Rte # 64

Marshall Schneider Res Mgr
Roland E Howard Prod Mgr
Douglas Karttunen Tech Dir
Anthony Granek, Paper Mill Supt
Michael Rose Pulp/Power Supt
Michael Peterson, Pers Dir
Robert Schon, Pur Agt

Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds. Chip Storage Capacity: 50,000 tons. Mobile Equipment 2 Pettibone Cary-Lifts, 1 Orton rail crane Chip Handling Rader pneumatic Sawdust Handling Rader pneumatic Hogs 1 Jacksonville Blow Hog Chippers Beloit 114", 14-knife Rechippers 1 Murray Chip Screens: 2. Tyler Avg Daily Use of Peeled Pulpwood: Hwd, 500 cds

Pulp Mill Semi-Chemical NSSC Avg Daily Prod Unbl Hwd., 440 tons Continuous Digesters. 2 Pandia
Chemical Recovery Plant. Evaporators. 1 six-body, four-effect Goslin. Zimpro wet-air oxidation unit
Pulp Processing Hot Stock Refiners. 2 Sprout Waldron. Stock Refiners 1 Sprout Waldron high consistency Washers 1 Eimco, 1 Swenson

Paper Mill Stock Preparation: Pulpers. 3 Refiners. 3 Bauer 440, 5 Sprout-Waldron. Screens. 2 Bird Centriscreen Cleaners: Bauer Centricleaners. Consistency Regulators. DeZurik
Paper Machines. P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120. Calenders. 2. Winders: 2..

Steam/Power. Power Boilers 1. 2 package. Fuel. Coal. Oil. Bark. Steam. lbs hr. 325,000. Press.: 1500/250 psi.
Electricity: Freq. phase 60. 3. Installed H.P. 13500. Purchased. 50% Generated: 50%. Turbogenerators: 1 GE. 15,000 kw

Water Treatment. Daily Usage, 8,500. M.g.p.d. Source: Lake Superior. Primary Treatment: None

Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment Activated sludge, gravity thickener, belt filter press.

Products. Corrugating medium, 565 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div PO Box 187 49078

Tel 616-692-6211 Telex 810-277-7240

RR. ConRail siding Hwys Near US Rte # 131 Approx Mi 2. State Rte # 89

Robert A Davis, Jr., Mill Mgr
Donald B Moore, Mgr, Board Mill
R.F Kutscher, Mgr, Engrg Srvcs
Robert Stevenson, Tech Dir
M.L Knapp, Mgr, Power
H.J. Klein, Mgr, Supply & Distr
I.E. Johnson, Mgr, Shppg & Rcvng
F.O Ford, Mill Contr
B.M. McClary, Mgr, Cnvtg
J.J. Shipley, Human Rsrcs Mgr
R.C. Powers, Prod Control Mgr

Paper Mill Stock Preparation Pulpers: 1-3000 lb Morden Slushmaker 3 Hydrapulpers. Screens: 8. Refiners 2 34" Jones DD, 1 Bauer double disc. Jordans 4 Cleaners Black Clawson, Bird filler, 1 asphalt dispersion unit
Paper Machines Eight-Cylinder 140" Width 126" Trim
Dryers Drums: 163 Calenders: 2..
Coaters, Extrusion Trim Width, 1 86" Egan PE extrusion coater

Steam/Power. Power Boilers: 3 Fuel. Coal/Gas/Oil. Steam lbs hr., 134,000 Press: 875/300 psi.
Electricity Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day Generated: 64,000 kwh/day Turbogenerators 4000 kw Westinghouse, 3000 kw Stal Laval

Water Treatment. Daily Usage, 450. M.g.p.d. Source 4 Wells Primary Treatment: Chlorination Secondary Treatment Iron stabilization.

Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment 2 stabilization basins, 8 aerators

Products. Plain and bending chip, filled and solid news, jute lined woodgrain, laminated specialties, building polyethylene coated boards, 210 tons daily

Menasha Corp. Paperboard Mill N Farmer St (PO Box 155) 49078

Tel 616-692-6141

RR ConRail siding Hwys US Rte # 131 State Rte # 89

Bruce T Buchanan Gen Mgr
J Blaukamp, Tech Mgr
T Clemmons, Plant Engr
M Carlson Prod Mgr
D Hackler Pers Mgr
J Hall Acctg Mgr
Lester Phillips Pur Agt
L Heibel, Wdlnds Mgr

Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening Avg. Daily Use of Peeled Pulpwood 500 green tons purchased

MHI-00240

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville, MN 55337
Phone 612-431-6336 • Telex 910-576-0234
Cable "SBS PAPER" USA • WATS 800-328-4018

chips.

Pulp Mill Semi-Chemical. Avg. Daily Prod.: Unbl. Hwd., carbonate cook: 225 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 4 S-W secondary; 2 DKP dewatering presses.

Paper Mill Stock Preparation: Pulpers: Secondary fiber prep: 1 14' Hydrapulper, 3 HDC's, 1 fibenzer, 1 Centrisorter, 2 stages reverse Krofta cleaners. Other Eqt.: 1 Impco disc filter on white water.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers. Drums: 95..

Steam/Power. Power Boilers: 4. Fuel: Coal, Gas. Steam, lbs hr.: 240,000. Press.: 600 psi.
Electricity: Purchased: 8000 kw. Generated: 4000 kw. Turbogenerators: 1-4000 kw/kva.

Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells.

Effluent Treatment. Secondary Treatment: Aeration ponds.

Products. NSSC corrugating medium, 400 tons daily.

PALMYRA

Palmyra Paperboard Co. 49268

Tel: 517-263-5160
Hwys: US Rte # 223.
David Lambert, Chmn Bd, CEO
CA Dufon, Pres, COO
Bill Maxam, Plant Supt

Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 120. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Yes.

Products. Chipboard, tube stock, match stock, 60 tons daily.

PARCHMENT

★**James River Corp, KVP Group.** Parchment & Paper Divs. 100 Island Av 49004

Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94. State Rte # 43.
Andrew T Muha, Vice Pres, Gen Mgr, Ppr Div
Keith N Bartlam, Vice Pres, Gen Mgr, Prchmt Div
Michael D Barnes, Mgr, Ppr Mfg & Matl Hndlg
Austin Proctor, Mgr, Qual Control
John Drenth, Mgr Engrg
James Butler, Gen Supt Pprmkg
Lyle Alrick, Supt, Matl Hndlg & Shpng
Ken Matveia, Mgr, & Tech Srvcs
Daniel E Conway, Div Contr
Donald T Carr, Ind Rels Mgr
Stephen Parker, Mgr, Sls & Mktg, Fine Ppr
Robert Russell, Mgr, Adm & Plnng

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb, and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers. Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine. Air Knife: 1. Blade: 2. Solvent: 1.
Finishing Plant. Supercalenders: 2. Rewinders: 7. Sheeters: 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Well.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily. Mill No 2: 280 tons daily.

PLAINWELL

Plainwell Paper Co. Inc. Affl. of Philip Morris Industrial Inc. 200 Allegan St. 49080

Tel: 616-685-5851 Telex: TWX: 810-277-4990
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.
Samuel Taylor, Pres
Robert Green, Plant Mgr
James Ishmael, Dir Mfg
Dick Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Robert Tardiff, Mgr Pdct Srvs
Kay C Woodruff, Supv, Testers
Judith Reeves, Mgr, Mktg Comm
Alan K Bruner, Supt Distr
Barbara J Bradley, Prchsg Agt
Larry Henseler, Contr
Jasper Butler, Dir, Admn
Jeffrey H Hider, Dir, Mktg & Sales
George Lawton, Dir, R&D
Donald Ulsh, Sls Mgr, Prntg Pprs
William Jones, Sls Mgr, Tech Pprs
Alison K Knight, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper. Refiners: 8 double disc. Jordans: 3. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 2000 fpm
Dryers. Size Presses: 3..
Coaters, On-Machine. Trailing Blade, 2 120" Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 1-65", 1-77", 1-126", 1-130". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 130,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 3250,000.

Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

★**Dunn Paper Co.** Sub. of Dennison Mfg. Co. 218 Riverview St (PO Box 227) 48060

Tel: 313-984-5523 Telex: TWX: 810-231-7053
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # I-94
Roswell E Hubbard, Pres, CEO
Thomas E Gallagher, Exec Vice Pres, COO
James R Scohy, Vice Pres, Mfg
Arthur H Hupp, Vice Pres, Tech
Peter R Hoppe, Vice Pres, Admn & Contr
Carolyn M Desjardins, Asst Corp Sec
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Mgr, Indl Rels
J David Fleet, Mktg Mgr, OTC/Spclts
Lewis T Johnson, Sales Srvc & Traffic Mgr
Bill Hirons, Machine Supt
Frederick Lange, Machine Supt
Denny Klinkman, Machine Supt

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans: 2.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee: 3 12', 1 18' dia. units. Size Presses: 4. Calenders: 2. Winders: 4..
Coaters, On-Machine.Roll: 1. Blade 2.
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.: 76,000. Press.: 600/200.
Electricity: Freq, phase: 60 3. Purchased: 11,000 kwh./day.

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

★**Port Huron Paper Co.** 1700 Washington Av 48060

Tel: 313-982-0191 Telex: TWX: 810-231-6098
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21.25.
R.P. Cole, Vice Pres, Sales & Mktg
E.J. Grys, Mill Mgr
D.L. Foresman, Prod Mgr
W.M. Fries, Plant Engr
L.H. Jewell, Sales Mgr, Spclty & Pckgng Pprs
L.E. Rymers, Sales Mgr, Busn Pprs
G.L. Genaw, Sales Mgr, Prntg Pprs
G.A. Limberg, Mgr, Cust Srvcs

Paper Mill Stock Preparation: Pulpers: 5. Screens: 6. Refiners: 40. Jordans: 7. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 120" Trim 1200 fpm
1 Fourdrinier 184" Width 160" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 7 stacks. Winders: 6..
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 10,000. M.g.p.d. Source: River.

Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, tissue wrapping and specialties, 200 tons daily.

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. of James River Corp.) 340 Mill St 48063

Tel: 313-651-8121
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
J.T. Webb, Vice Pres, Gen Mgr
William M Kirkland, Plant Mgr
Carl W Bach Jr, Ppr Mchne Supt
Richard Agar, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Plachta, Plant Engr
Robert L Blome, Sales Mgr, Ind Filter
Mary Lou Deaton, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo.

MHI-00241

ALL GRADES OF PULP AND SECONDARY FIBERS FROM U S AND WORLDWIDE SOURCES

COTTESMAN & CO., Inc. • GROUNDWOOD PULP

PARK AVENUE NEW YORK N Y 10017 212-532-7300

Beaters. 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood. 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters, On-Machine.1-62" roll saturator, 20 tons daily cap
off Machine 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 1-72". 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Shendan. Sewing Machines: 1.
Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq. phase: 60. 3. Purchased: 100%.
Water Treatment. Daily Usage. 150. M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

RPM Board & Carton Corp. Paper Board Div. 7734 Childsdale Rd 49341
Tel: 616-866-1523
RR: Mich Nthrn Hwys: Near US Rte # 131 Approx Mi 3
James Isabel, Mill Mgr
Les Peck, Mill Supt
Charles Paridon, Maint Supt
Paper Mill Stock Preparation Pulpers 4 Hydrapulper Screens: 8 Refiners 3 S-W. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZunk. Other Eqt.: allied clay mixing eqt.
Paper Machines Eight-Cylinder 76" Width 68" Trim 315 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks
Coaters. On-Machine Air Knife, 1 Waldron Microjet. Finishing Plant Trimmers 2.
Steam/Power. Power Boilers: 1. Fuel: Coal. Steam, lbs hr. 50,000 Press.. 135.
Electricity Freq. phase: 60. 3. Installed H.P. 2100 electric, 300 water Purchased 1500 kva
Water Treatment. Daily Usage. 20 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.
Products. Boxboard clay-coated, chip, news, lined and solid kraft, food grade 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**
Headquarters Location See Executive Offices section for more details

TROY

★**Abitibi-Price Corp.** Building Products Group
Headquarters Location See Executive Offices section for more details

VICKSBURG

Dixon Paper Co. Washington St 49097
616-649-0510 Telex: 810-277-1710
RR ConRail siding Hwys: Near US Rte # 131, I-194 Approx Mi 6
Peter Lowe, Opers Mgr
David De Young Gen Supt
Adolph Konjeczny Ppr Mchns Supt
Chester Dobrowolski Fnshng & Coating Supt
D Weybright, Tech Dir
C Globig, Mgr R&D
Roger Huckendubler, Chief Engr
Chet Dobrowolski, Ctg & Fnshg Supt
Rodger Watson, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Jack Page, Estrn Srvc Mgr
Pulp Mill Rags: Batch Digesters: 2 10,000 lb Rotary. Pulp Processing: Washers: 4 1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 2-1000 lb. Bertrams. Screens: 5. Refiners: 2 double disc Morden. Jordans: 5 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage. 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. (Sub. of Howard Paper Mills Inc.) 279 Paw Paw Av. 49098
Tel. 616-463-3141 Telex. 72-9432
RR: C & O siding. Hwys: US Rte = I-94. State Rte # 140.
David D Stiles, Vice Pres, Gen Mgr
Bucky Carrango, Vice Pres, Mfg
Milton F Stibal, Vice Pres, Mfg Srvcs
Richard S Urban, Vice Pres, CEO
Jimmie D Paskel, Coatg Supt
Walter Elliott, Pprmkg Supt
Lemoin M Shadduck, Mgr, Engrg
John H Matthews, Dir Prchsg
Paper Mill Stock Preparation Pulpers: 4 Refiners 4 Hydradisc. Jordans: 3 Jones
Paper Machines 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers Drums: 85 Size Presses 2. Calenders 2 Winders 2
Coaters, off Machine Air Knife 4 92", 88", 70" 66"
Finishing Plant Supercalenders 5 119", 66", 80", 86", 96" Rewinders: 2 Sheeters: 4-76" to 101" Trimmers: 4-85" and 100" Other Eqt. 1 62" Embosser
Steam/Power. Power Boilers 3 Fuel. Coal. Steam, lbs hr. 90,000 Press. 235
Electricity Installed H P 450 water Purchased: 100%
Water Treatment. Daily Usage. 1,200 M.g.p.d. Source wells
Effluent Treatment. Primary Treatment: Spray irrigation
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, 130 tons daily

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601
RR: ConRail siding Hwys US Rte # 12
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
William A Lunsford, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation Pulpers: 4 Hydrapulper. Screens: 6. Refiners: 5
Paper Machines. 1 six-unit Ultraformer. 110" trim.. Dryers. Drums: 76 Calenders: 3..
Coaters, On-Machine. Air Knife, 1-110"
Finishing Plant. Rewinders: 1. Trimmers: 1-85".
Steam/Power. Power Boilers: 2. Fuel. Oil/Gas. Steam, lbs hr.: 180,000. Press.: 500 psi.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage. 250. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard, 170 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp. Curtis Paper Div.) 1000 N. Huron St. 48197
Tel: 313-482-2600 Telex: 810-223-7004
RR: ConRail siding Hwys: US Rte # I-94
Edward G Gremban, Vice Pres, Gen Mgr
Frank L Wright, Vice Pres Sales
Gerald Linzmeyer, Res Mgr
David Seidler, Div Engr
William Turner, Fnshg & Shpg Supt
Jeffrey Brown, Mgr City Contrl
Harold Rhora, Traffic Mgr
Paper Mill Stock Preparation: Pulpers. 2-2000 lb Hydrapulper. Refiners 1 Morden. Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm
Dryers. Drums: 52-36" dia Size Presses. 2. Calenders: 2 stacks Winders: 2
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 2-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt.. Embossers 3 Printer-Embossers: 1 Pasters: 1 duplex
Steam/Power. Power Boilers 1 Fuel Gas/Oil. Steam. lbs hr. 40 000. Press 130
Electricity: Freq. phase 60. 3 Installed H P 1200. Purchased: 25000 kwh/day
Water Treatment. Daily Usage. 500 M.g.p.d. Source Wells. River Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601
Tel. 218-751-5140 1.2
RR BN siding Hwys US Rte = 2,71,371
Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Myron Halby, Sales Traffic Mgr
Woodhandling and Preparation Barkers 1-21" Manitowoc. Chippers 1-12' Hansel Avg Daily Use of Peeled Pulpwood Hwd. 100 cds aspen
Pulp Mill Defibrated Wood Pulp Avg Daily Prod. Unbl. Hwd.. 100 tons Continuous Digesters. 2 30' Grenco.
Pulp Processing Stock Refiners 1 =185 and 3 =445 Bauer
Paper Mill Paper Machines Special machinery including 49" X 97-2' dry forming and pressing

MHI-00242

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N Y. 10017 212-532-7300
ALL GRADES OF PULP FROM U.S & WORLDWIDE SOURCES
EXPORT WOODPULP

J.A. Cancelliere Vice Pres. Coating Div
James A Chalfin, Vice Pres, Mktg
A.E Thibault, Treas
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
John Potter, Chief Engr
Mark J Stepanik, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers: 1. Screens: 2. Refiners. 1. Jordans: 1.
Paper Machines. 1 Fourdrinier 72" Width 63" Trim Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt. 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Water Treatment. Daily Usage, 400. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, gasket stock, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089
Tel 413-732-5141 Telex. 955-484
RR: ConRail siding Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec

Paper Mill Stock Preparation: Pulpers. 2. Refiners: 2 disc Jordans. 2
Paper Machines 1 Fourdrinier 85" Width 70" Trim
Dryers Size Presses: tub.
Finishing Plant Sheeters: 3. Trimmers: 4.
Steam/Power. Power Boilers: 2 Fuel: Oil.
Water Treatment. Source: River
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Rag content bond, typewriter, onionskin, manuscript cover writing papers, 20 tons daily.

WORONOCO

Strathmore Paper Co. 01097
Tel 413-568-9111
RR: B&M Hwys US Rte # 20
Lon R Chubb, Mills Mgr
Phillip N Wyman Mgr Mfg
Richard F Matuiowitz, Chem
Ray Menard, Plant Engr

Paper Mill Paper Machines. Equipment listed under Westfield, MA mill
Products. Mill No 1 writing text, cover, artist's, papeterie papers Mill No 2 Rag specialty, reproduction bond writing, text and cover papers

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi-Price Corp Building Products Group 416 Ford Ave 49707
Tel 517-354-2121
RR: Detroit & Mackinac Siding Hwys: US Rte # 23. State Rte # 32
R G Brown Plant Mgr
R R Stepanek Mgr Mfg
J L Pizzaro, Mgr Maint
D Hanson Plant Engr
T.J. Kelly, Mgr Fbrctg & Fnshg
B.H. Cummings, Pers Mgr
J.P. Kinzler, Plant Contr
A.J. Towlerton, Plant Buyer
J.C. Lamy, Woods Mgr.

Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle. Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones repulper Refiners: 3 Bauer, 2 Sprout-Waldron pumpthru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage, 1,500. M.g.p.d. Source: River. Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.
Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707
Tel: 517-354-2131
RR: D&M siding Hwys: US Rte # 23. State Rte # 32.
Allan M Fletcher, Pres, Treas
John T Fletcher, Vice Pres.
R. Werner, Sec., Pur. Agt.
Charles S White, Gen Mgr
Michael J Bekes, Gen Supt
K Byers, Paper Mill Supt
T Van Massenhove, Chief Engr
Clifford Crevier, Fnshg Supt.
C Roberts, Traffic Mgr
Elbert M Heath, Sales Mgr

Paper Mill Stock Preparation Pulpers: 3 Hydrapulpers Screens: 2 Selectifier. Refiners: 5 Jones DD Jordans. 3 Jones
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1200 fpm
Dryers Drums. 62. Size Presses: 2 Calenders: 2 stacks Winders 2
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant. Sheeters 1-67" precision Trimmers. 3-65", 72" 85"
Steam/Power. Power Boilers. 1 Fuel Gas/Oil Steam, lbs hr 60,000 Press 450 psi
Electricity Freq, phase: 60, 3. Generated. 72,000 kwh/day
Water Treatment. Daily Usage 1,000 M.g.p.d Source Thunder Bay River Primary Treatment: Yes
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment City syst
Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond release, saturating, sensitizing, technical, wet strength and writing papers, 85 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079
Tel: 616-968-3000 Telex 223503
RR ConRail Hwys State Rte # 96 Near US Rte # IS-94 Approx Mi 8
E Hibben, Pres & Treas
Leo Fuchs, Exec Vice Pres, Gen Mgr
Hans C Mueller, Vice Pres, Mktg
Pat Merritt, Sec
Larry M Freed, Mgr Matl Hndlg & Prchsg
Steve R Wilber, Cont
Brenda M Bass Prod Mgr
Robert C Bommarito, Qlty Control Mgr
Kristopher J Blake, Lab Mgr
Peter K Gruber, Engrg Mgr
Carl Gundersen, Sales Engr
Cathy Konecny, Pers Mgr

Pulp Mill Ground Wood, Refiner. Avg Daily Prod. Thermomechanical. 30 tons Refiners. 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation: Pulpers 1 Hydrapulper
Paper Machines. 3 molding machines of own design..
Products. Molded fiber products for automotive industry

Michigan Paperboard Corp. (Subs. of Field Container Corp.) 79 E Fountain St 49017
Tel: 616-963-4004
RR: ConRail, GTW, siding. Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.
Terry Tiffany, Gen Mgr
C.J. Lambert, Mfg Mgr
R Valkner, Plant Engr
Douglas Rollenhagen, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers: 3-4000 lb Morden, 1-14', 1-20' Hydrapulper, 1-3000 lb. Refiners: 1 disc. Jordans: 3. Screens: Centrisorter.
Paper Machines. Stevens Formers: 1 seven unit, 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 60"..
Steam/Power. Power Boilers. 2. Fuel: Gas, Oil. Steam, lbs hr.: 80,000.
Products. Combination boxboard, 275 tons daily

Waldorf Corp. 177 Angell St 49016-3433
Tel: 616-963-5511
RR: ConRail, GTW siding. Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.
L.M. Spurgeon, Res Mgr
Alan Crabtree, Mfg Mgr
Clayton Roberts, Mfg Supt, Angell Mill
M Shapton, Plant Engr
M Minger, Qlty Mgr
L.J. Hanson, Contr
J.A Matthews, Matls Mgr
Robert L Bay, Buyer

Paper Mill Stock Preparation: Pulpers: 3-3000 lb Morden Slushmaker 3-16' Hydrapulpers,. Beaters: 1-2000 lb broke Refiners: 4 Hydrafiners, 3 Disco, 2 Bauer. Screens: Centrisorter. Jordans: 12.
Paper Machines. 1 Beloit Bel Bond Former, 146" width, 130" trim, 1000 fpm..
Dryers Drums. 283-60". Calenders: 2 stacks, 1 breaker stack Hi-Velocity 2 gas infrared..
Coaters, On-Machine. Air Knife, 1-130", 1-98", 1-122" On-Machine. Trailing Blade, 1-130", 1-98", 1-122" On-Machine.Rod: 2-130"
Steam/Power. Power Boilers: 1. Fuel: Oil/Gas. Steam, lbs hr 160,000
Electricity: Purchased: 2,500 kwh/day. Generated: 7,500 kwh/day Turbogenerators: 2-8500 kw/kva
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source River
Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, bending chip 300 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S. Main St 49721
Tel. 616-627-5664
RR D&M siding Hwys US Rte # 27
T.E. Gestrich, Plant Mgr

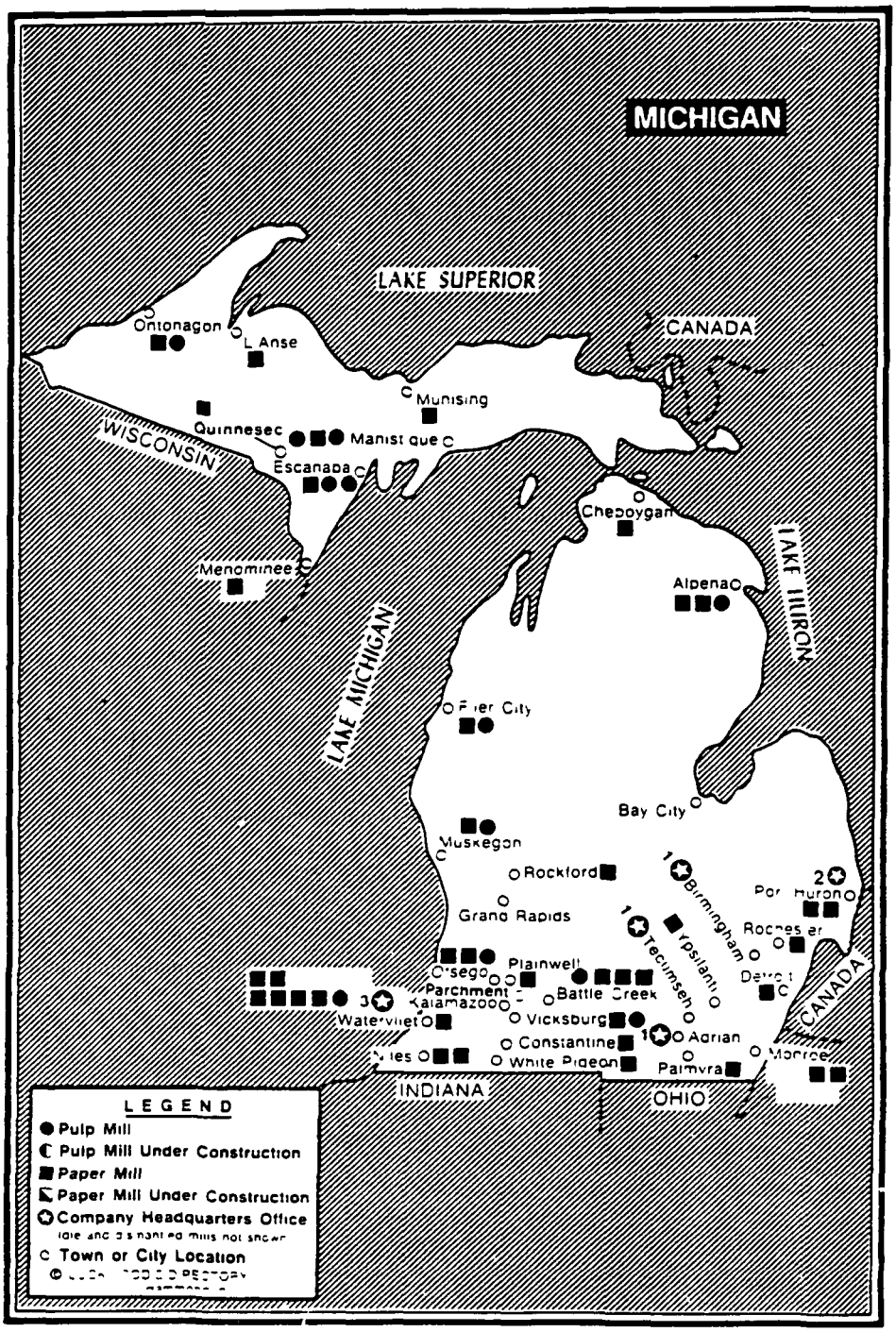
Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Products Div Centreville Rd 49042
Tel 616-435 2425 Telex 510-398 5730
RR ConRail siding Hwys US Rte # 131
Walter Watchiwski Plant Mgr
Roscoe Morton Maint Supv
Dick Thomas Cnvtg Supt
Andrew Jiskra Shpng/Rcvng Supv
Sandy Munson Office Mgr
Paper Mill Stock Preparation Pulpers 2 Screens 2 Refiners 2 1 deflaker Jordans 2 Other Eqt 1 disc filter
Paper Machines Seven-Cylinder 112 Width 100 Trim
Dryers Drums 4 sets hi-stack
Finishing Plant Other Eqt Laminators 2 Die Presses 2
Steam/Power. Power Boilers 2 Fue Gas/Oil Press 150
Electricity Freq, phase 440 v 60 3 Purchased 100%
Water Treatment. Daily Usage 70 M g p d Source River
Effluent Treatment. Primary Treatment None Effluent to municipal plant
Products. Chipboard test liner 100 tons daily

DETROIT

Port Huron Paper Co. 9125 W Jefferson Av 48209
Tel 313-842-0042 Telex TWX 810-2219-428
RR ConRail siding, Rouge Yard Hwys US Rte # IS-75
Egil R Aschim Vice Pres Opers
Joe Buckholz Prod Supt
Donald Grace Plant Engr
L J Sturm Tech Dir
R P McConkie Pers Mgr
Paper Mill Stock Preparation Pulpers 4 Refiners 7 double disc 1 Morden Jordans 5
Paper Machines 1 Yankee MG Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 127" Trim
Dryers Yankee 4
Steam/Power Power Boilers 3 Fuel Gas/Oil
Electricity Generated 100%
Water Treatment. Daily Usage (n a) M g p d Primary Treatment Yes
Effluent Treatment. Primary Treatment: City System
Products. Foil mounting wrapping, lightweight specialty papers creped specialties, coffee filter, ice cream wrapper film base gravure printing interleaving creping base 175 tons daily



ESCANABA

Mead Corp. Publishing Paper Div 49829
Tel 906-786-1660
RR C&NW Soo Line sidings Hwys US Rte # 2 41 State Rte # 35
S S Benedict Pres Gen Mgr
T J Morgan Vice Pres Admin
W R O'Donnell Vice Pres, Mktg
Gary Butryn Vice Pres, Opers Mgr
L King Pulp Mill Supt
G W Brown Tech Dir
Kenneth Clark, Mgr Plant Engrg & Maint
G E Barnes Qual Mgr
J L Parr Enviro Control Tech Dir
W H Goode Util Mgr
J F Schneider Sales Srvc Mgr
J A Cole Contr
Richard E Nelson Mgr Matls
T J Gregoire Dir Human Rsrcs
R Tompkins Pub Rels Mgr
Erm Venuto Gen Mgr Woodlands
Woodhandling and Preparation Log Handling Live decks Chip Handling Rader pneumatic system Barkers 2-12 x 80 drum, 1-22" Nicholson hydraulic Hogs 1 Gruendler bark Chippers 2 15 knife 112 disc 1 84" Nicholson Chip Screens 1 KMW 1 Rader
Pulp Mill Kraft Avg Daily Prod Bl Swd, 200 tons Bl Hwd 400 tons of which 300 tons is Market Pulp Batch Digesters 6-6 500 cu ft each
Ground Wood Refiner Avg Daily Prod Bl Hwd 200 tons Refiners 4 primary, 2 secondary Sprout Waldron 42-1B disc
Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W 2 400 000 lbs solids/day 300 000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators 1 Western Precipitation Lime Kilns 1 Allis-Chalmers Gas Scrubbers 1 Ducon on recovery boiler 1 venturi on kiln Lime Mud Washers 1 8 x12 D-O Recausticizing System Dorr-Oliver
Bleach Plant Sequence Gwd 1 stage Kraft C-E-D E-D Chlorine Dioxide System Hooker SVP system
Pulp Processing Knotters Gwd 2 A-C vibrating. *Kraft SW Hooper centrifugal Drainers Gwd 1* Morden 1 Bauer Helipress Stock Refiners Gwd 2 26 S-W Twin-Flo Rejects Refiners Gwd 1 Bauer Screens Gwd 4 primary 1 secondary Cowan 2 Bird Centrisorter Kraft: Bird Centrisorters Cleaners Gwd 69-body 3-stage Bauer 606 Centricleaner Washers Gwd 1-8 x16 Impco bleach Kraft 3-13½ x24 Impco brown stock 5 13½ x24 Impco bleach Washers Gwd 7-48 x131 Cowan gravity 1 12 16-disc Hymac Kraft 1 13½ x24 Impco
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying 166 width 155' trim 1300 fpm 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor
Paper Mill Stock Preparation Pulpers 2 Hydrapulpers 2 continuous Morden 2 Dynapulpers 3 *Morden broke Screens 6 Selectifiers 2 Centriscreens* Refiners 7 Claflins 6 S-W disc 3 Deflakers (broke) Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166 Width 155 Trim 2000 fpm

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300
ALL GRADES OF PULP FROM U S & WORLDWIDE SOURCES
BLEACHED HARDWOOD KRAFT PULP

Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers. Size Presses. 2. Calenders: 2 stacks. Reels. 3 Re-reelers. Winders: 3..
Coaters, off Machine. Trailing Blade. 2-286", 2-172", 1-302" Wartsila double blade for C2S.
Finishing Plant. Supercalenders: 1 9-roll Bruderhaus. 2-278" 9-roll Appleton. Roll Wrapping Eqt.. Lamb-Grays Harbor automatic. Rewinders: 1 Lenox, 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters: 3 - Hamblet. Trimmers: 3 Seybold.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark. Steam, lbs hr. 1,600,000 Press.: 400/1500. Electricity Freq, phase 60, 3 Installed H.P 75,000 Hydroelectric: 2,000 kwh/day. Turbogenerators 48,000 kwh/day

Water Treatment. Daily Usage, 28,000. M.g.p.d Source: Lake Michigan. Primary Treatment Sand filters

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment Aeration lagoon. Tertiary Treatment: Clarifier

Products. Coated book and publication papers. 1305 tons daily Kraft hardwood market pulp, 300 tons daily

FILER CITY

Packaging Corp. of America 49634

Tel: 616-723-9951
RR C&O siding Hwys US Rte # 31.
F.J. Fragomeli, Vice Pres & Mgr
L.L. Huffman, Prod Mgr
C.F Mills, Tech Dir
D.J Elliott, Engrg Mgr
N.D. Sorenson, Fin Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity 26,000 Cords. Barkers. 1 12'x80' FMP. Chippers 1 112", 12-knife Chip Screens: 2 HiCap.

Pulp Mill Semi-Chemical, NSSC Avg Daily Prod.. 600 tons Continuous Digesters: 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect Recovery Boilers 1 fluidized bed unit.
Pulp Processing Stock Refiners. 3 American Defibrator Screens 2 Washers: 4 Vacuum, 5 screw press

Paper Mill Stock Preparation Pulpers: 3. Screens: 3 Refiners 5 Jones disc. 4 Sutherland Jordans. 7 Miami
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1200 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums 148-60" dia.

Steam/Power. Power Boilers 4 Fuel Oil, Gas, Coal. Steam, lbs hr 600 000 Press. 610
Electricity Purchased 25,000 kwh/day Generated 475,000 kwh/day Turbogenerators 3-21,875 kva total.

Water Treatment. Daily Usage, 20,000 M.g.p d Source River, Lake

Effluent Treatment. Primary Treatment. 2 Clarifiers Secondary Treatment Aeration pond.

Products. Corrugating medium, 720 tons daily

KALAMAZOO

★Allied Paper Inc. Paper Mills Div (Sub. of SCM Corp) 2030 Portage St 49001

Tel 616-345-7131
Headquarters Location See Executive Offices section for more details
RR ConRail sidings Hwys US Rte # IS 94, 131 State Rte # 43 96
T E Flanagan Vice Pres, Opers
R W Mirkin, Vice Pres, Sales & Mktg
S Oakleaf Prod Mgr
G Gerard Asst Prod Mgr
R Eaton Engrg, Maint & Util Mgr
E O Arnold Supt Mill C
R Steadmon, Supt. Mill D
D Falvey, Engrg Mgr
D.C. Kirk Jr, Tech Dir
H.D. Peeters, Mgr Prod Sched
U.G. Stoeffler, Mgr Proc Devl
G.F. Mahoney, Natl Sales Mgr
J.L. Curtis, Mktg Mgr
B.L. Rasmusson, Dir Prchsg
Tom Cadwell, Traf Mgr

Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim.

Steam/Power. Power Boilers: Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Adding machine, bible, bond, coated and uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 240 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Coated two sides matte finish book, 100 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (PO Box 2738) 49003

Tel 616-382-2890 Telex: 810-277-2618
RR: ConRail, GTW, siding. Hwys: US Rte # I-94.
David R Norman, Res Mgr
Larry Pio, Prod Mgr
Del Van Bruggen, Paper Mchne Supt, #8 Mchne
Earl Vining, Paper Mchne Supt, #7 Mchne
J Ittner, Tech Dir
Fred J Shelton, Chief Engr
T W Young, Plant Contr
F Higdon, Pur Agt
James H Cox, Traffic Mgr
H Fielder, Pers Mgr

Pulp Mill Deinked Pulp Avg. Daily Prod.: 200 tons Batch Digesters 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd
Bleach Plant Sequence 1 Hypochlorite/Hydrosulphite stage. Towers. 1 downflow

Paper Mill Stock Preparation Pulpers. 6. Beaters: 4-1500 lb. 6-2500 lb. 2-3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm (idle)
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses 3
Finishing Plant. Rewinders: 2 95"

Steam/Power. Power Boilers: 4. Fuel. Gas/Oil. Steam lbs hr.. 350,000 Press.: 450/275.
Electricity Freq, phase 440v, 60, 3 Installed H.P. 18,500 electric. Purchased 4,000 kw Generated: 12,000 kw Turbogenerators 4

Water Treatment. Daily Usage, 8,000 M.g.p.d. Source River

Effluent Treatment. Primary Treatment Clarifiers, joint municipal system

Products. Bond, offset, label, postcard, 400 tons daily

Hawthorne Paper Co Inc. (Sub. of Gould Paper Corp.) King Hwy

Paper Mill Is Dismantled

★James River Corp. Paperboard Packaging Group 243 E Paterson St 49007

Tel 616-383-5000
Headquarters Location See Executive Offices section for more details
RR ConRail, CK & S siding Hwys. US Rte # 12, 13, I-94 State Rte # 43
Richard Bennett Prod Mgr, Pprbd
Bruce Lurvey, Supt, Plt 4
Del Van Bruggen Supt, Plt 7
Jim Askew, Supt, Plt 14
Robert A Nitz, Tech Dir
Phil Zimgibl, Mgr. Maint & Util
Jim Heffner, Engrg Supt
Wayne VanWeelden, Admn Mgr
Arthur Thompson, Div Contr
Mike Howe, Ind Rels Mgr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke. Refiners: 8 Hydrafiners, 2 Morden Stockmaker. Screens: 21. Jordans: 10
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 138" Trim
Coaters, On-Machine. Air Knife, 2.
Extrusion. Trim Width, 1-76" Beloit, 1-55" Egan PE coaters.
Finishing Plant. Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, 1-56" Mercury laminators.

Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 300,000.

Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: Deep well.

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 400 tons daily

National Gypsum Co. 2305 E. King Hwy

RR: ConRail siding. Hwys: US Rte # 12.

Paper Mill Stock Preparation Pulpers. 2 Hydrapulper. Refiners: 3 Sprout Waldron
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack..
Finishing Plant Rewinders: 1.

Steam/Power. Power Boilers: 2 Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased 48,000 kwh/day

Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City.

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Gypsum board liner, 145 tons daily. Mill closed for indefinite period
Paper Mill Is Idle.

L'ANSE

Celotex Corp. Sub of Jim Walter Corp. PO Box 86 49946

Tel 906-524-6101
RR. Soo Line Hwys: US Rte # 41
L.W. Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr

Paper Mill Stock Preparation Pulpers 1 continuous Hydrapulper Consistency Regulators Brammer type
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater

Steam/Power. Power Boilers. Steam, lbs hr.: 93,000
Electricity: Purchased: 100,000 kwh/day.

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source Bay

Products. Mineral board products, perforated and unperforated tile, other interior finish products, 200 tons daily

MANISTIQUE

Manistique Papers Inc. PO Box 309 49854

Tel 906-341-2175
RR. Soo Line sidings. Hwys. US Rte # 2
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Francis J Kasun, Pur Mgr
Allen Schuster, Sales Mgr
Walter Alexander, Treas

Pulp Mill Deinked Pulp: Avg. Daily Prod.. cap 500 tons

Paper Mill Stock Preparation. Pulpers. 2 Jones. Refiners 1 Claflin
Paper Machines. 1 Fourdrinier 165" Width 154"

MHI-00245

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

Trim 3000 fpm
Dryers. Drums: 40-60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 145,000 Press.. 350.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Newsprint, groundwood printing and groundwood converting papers, 200 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858

Tel: 906-863-5595
RR: C&NW, CMStP&P. Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Ernest Graham, Mgr Ppr Pdcts
Julius Nagy, Mgr MG Ppr
William Walker, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Robert Pomrenke, Cnvtg Supt
Larry Eggleston, Sales Mgr, Board
Cal Claremont, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers Refiners: 2 Claflin Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt.: Waxers: 5
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased 7,000 kwh/day Generated: 4,000 kwh/day Turbogenerators: 2.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Linerboard, corrugating medium, tube stock, waxing tissue, lightweight MG, 360 tons daily Waxed paper in rolls and sheets

MONROE

Smurfit Paperboard Div. of Smurfit Industries Inc. (formerly Time Container) 1151 W Elm Av 48161

Tel: 313-241-3220
RR. C&O siding. Hwys: US Rte # 24, I-75
Robert H Degraer, Vice Pres, Gen Mgr
A.G McBee, Mill Prod Mgr
A Bussell, Mill Supt
Edward G Strass, Chief Chemist
W Manor, Chief Engr
Charles Robertson Fnshg Supt
Delbert Broughton, Plant Contr
E O'Brien, Pur Agt
E Flotow, Sales Rep
J Zimmerman, Sales Rep
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 2 Emerson, Jordans. 5 Shartle
Paper Machines Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums: 110 Calenders: 2 stacks. Winders: 2.
Finishing Plant Rewinders: 2. Trimmers: 1
Steam/Power. Power Boilers: Fuel: Gas. Steam, lbs hr 70,000
Electricity Purchased: 100%
Water Treatment. Daily Usage, 1,000 M.g.p.d Source River
Effluent Treatment. Primary Treatment. Joint municipal-industrial system
Products. Test linerboard, pasted chip, plain chip, can and tube board, lightweight chip, panel board, 110 tons daily

Union Camp Corp. Kraft Paper & Board Div. 1109 E Elm St (PO Box 588) 48161

Tel: 313-241-7700
RR: ConRail, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
E.D. Redman, Res Gen Mgr
J Fuko, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.J. McCue, Tech Supt
W.J. Sandretto, Mill Engr
N.D. Lee Jr, Dir, Prchsg
E.L. Kelley, Mill Sales Mgr
P.R. Berestecky, Ind Rels Mgr
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners: 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 3 Autoflyte. Winders: 3 two-drum..
Steam/Power. Power Boilers: 2. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 240,000. Press.: 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 6,000 kwh. Turbogenerators: 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily.

MUNISING

Kimberly-Clark Corp. K-C Technical Paper & Specialty Product Grp. Pineview & Sycamore Sts (PO Box 10) 49862

Tel: 906-387-2700
RR: LS&I. Hwys. State Rte # 28,94
Walter S Servia, Mill Mgr
E.E. Estrep, Admin Mgr
Daniel F Claus, Opers Mgr
R.D. Pratt, Paper Mill Supt
G.M. Linquist, Tech Srvcs Mgr
G.C Nelson, Engrg Mgr
K.Z. Livermore, Spclties Supt
W.G. Stangel, Mgr Fin Srvcs
R Eugene Heimerman, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners 2 Jordans: 2
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68" Rewinders: 5 Sheeters: 3, cap. 60 tpd Other Eqt.. 1 Embosser, 1 Laminator
Steam/Power. Power Boilers 2 Fuel: Coal/Wood Waste Oil standby.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source. Lake Superior.
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr 49443

Tel: 616-755-3761 Telex: 510-394-4300
RR C&O siding Hwys. US Rte # 16,31,196 State Rte # 46
R Furer, Res Mgr
Roy Barry, Prod Mgr
Dan Burling, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
John S Moran, Mgr, Srvcs
Dick Matlack Paper Mill Supt
Carl E Kilpatrick, Tech Dir
W.A. Wrase, Chief Engr
W LaPierre, Fnshg/Shpg Supt
William Holtzclaw Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr
Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds Chip Storage Capacity 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane Flume: 1. Log Handling: Drag and belt conveyors Chip Handling: Rader pneumatic system. Sawdust Handling: Rader pneumatic system. Chip Unloaders. Hydraulic truck dumper Barkers: 1-30 cds/hr Manitowoc drum. Hogs. 1 Montgomery. Chippers: 1 15 knife Carthage Norman. Chip Screens 3 Link Belt. Avg Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd.
Pulp Mill Kraft Avg Daily Prod. Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant Evaporators: 1 six-effect Swenson. Black Liquor Oxidation System: Champion system. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers. 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlonne Dioxide System: Solvay process.
Pulp Processing: Kriotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales. 1.
Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper. Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans. 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects Consistency Regulators: 14 DeZurik, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders. 2 two-drum..
Coaters, On-Machine Trailing Blade. 1-163" puddle, 1-222" Invertablade.
Finishing Plant. Supercalenders 3-100", 1-87", 1-115", 1-80" Roll Wrapping Eqt.. D.J. Murray system Rewinders: 3 Langston. Sheeters: 1 Lenox folio; 3, 100" to 112" Trimmers: 3-100" Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system
Steam/Power. Power Boilers 3 Fuel. Coal/Oil. Steam, lbs hr.. 500,000 Press.. 500
Electricity Freq, phase 60, 3 Purchased. 3,500 kwh/day Generated 19,000 kwh/day. Turbogenerators. 3-25,500 kw.
Water Treatment. Daily Usage, 20,000 M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system
Products. Machine coated book, litho, cover and matte coated papers

NILES

French Paper Co. 100 French St (PO Box 398) 49120

Tel: 616-683-1100
RR: ConRail siding Hwys US Rte # 31,12 State Rte # 60,51
J.E. French, Chmn Bd
B.R Bigford Pres
R.D Clark, Exec Vice Pres, Sec
T R Friedrich Vice Pres Mfg
Jerry E French Vice Pres
David L Bruce Jr, Supt
G Halliwell, Chief Engr
Larry C Bristol, Sales Srvc
R. Etzcorn, Pur Agt
Paper Mill Stock Preparation Pulpers 3 Dynapulper, 1 Slushmaker Refiners 2 Claflin Jordans 4.
Paper Machines B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 105" Trim
Dryers Winders 3
Finishing Plant Sheeters 3 Trimmers. 2. Other Eqt. 2 Embossers
Steam/Power. Power Boilers Fuel Coal. Press.. 150
Electricity Freq, phase 440v, 60, 3 Installed H P

MHI-00246

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
WOODPULP

1600 electric, 1600 water.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 50 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel: 616-683-4100 Telex: 258459
RR: ConRail. Hwys: US Rte # 12,31. State Rte # 60,40.
Chuck Dewitt, Plant Dir
Tilden Wiest, Paper Mill Supt
Tom Deforrest, Dir Engrg
H Moore, Plant Engr
K Weinberg, Plant Contr
Earl Stevens, Pur Agt
W Sands, Distrib Mgr
B Bracken, Ind Rels Dir
A Seaman, Traf Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Savealls.
Paper Machines. Stevens Formers: 1-162" wide, 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1. Winders: 2 Shear-Cut..
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day.
Water Treatment. . Daily Usage, 1,000. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons interleaving papers, 40 tons daily

ONTONAGON

Champion International 115 Lakeshore Rd. 49953
Tel: 906-884-2021
RR: Milw Rd, siding. Hwys: US Rte # 45. State Rte # 64
Roland E Howard, Vice Pres, Opers Mgr
James Walchuk, Tech Dir
Anthony Grahek, Paper Mill Supt.
Robert Boschee, Pulp/Power Supt.
Michael Peterson, Pers Dir
Robert Schon, Pur Agt
Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds.. Chip Storage Capacity: 50,000 tons. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray Chip Screens: 2-Tyler Avg. Daily Use of Peeled Pulpwood: Hwd, 500 cds.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: Unbl Hwd, 440 tons Continuous Digesters: 2 Pandia
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit
Pulp Processing. Hot Stock Refiners: 2 Sprout Waldron Stock Refiners: 1 Sprout Waldron high consistency Washers: 1 Eimco, 1 Swenson.
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 3 Bauer 440, 5 Sprout-Waldron. Screens: 2 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines P&J Fourdrinier 177" Width 162" Trim 1500 fpm
Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120 Calenders: 2 Winders: 2..
Steam/Power. Power Boilers: 1, 2 package. Fuel: Coal, Oil, Bark. Steam, lbs hr 325,000 Press.: 1500/250 psi
Electricity Freq, phase: 60, 3. Installed H.P 13500. Purchased: 50%. Generated: 50%. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 8,500 M.g.p.d Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment: Activated sludge, gravity thickener, belt filter press.
Products. Corrugating medium, 565 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div. PO Box 187 49078
Tel: 616-692-6211 Telex: 810-277-7240
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
L.R. White, Mill Mgr
Donald B Moore, Mgr, Board Mill
R.F. Kutscher, Mgr, Engrg Srvcs
B Cichon, Tech Dir
M.L. Knapp, Mgr, Power
H.J. Klein, Mgr, Supply & Distr
I.E. Johnson, Mgr, Shppg & Rcvng
D.E. Hinga, Mill Contr
B Anderson, Mgr, Cnvtg
J.J. Shipley, Human Rsrcs Mgr
R.C. Powers, Prod Control Mgr
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4. Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums: 163. Calenders: 2..
Coaters, Extrusion. Trim Width, 1 86" Egan PE extrusion coater.
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press.: 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily

Menasha Corp. Paperboard Mill N. Farmer St (PO Box 155) 49078
Tel: 616-692-6141
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89
Bruce T Buchanan, Gen Mgr
J Blaukamp, Tech Mgr
T Clemmons, Plant Engr
M Carlson, Prod Mgr
D Hackler, Pers Mgr
J Hall, Acctg Mgr
Lester Phillips, Pur Agt
L Heibel, Wdlnds Mgr
Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening Avg Daily Use of Peeled Pulpwood 500 green tons purchased chips
Pulp Mill Semi-Chemical, Avg Daily Prod Unbl Hwd., carbonate cook: 225 tons Continuous Digesters: 1 vertical Asplund Defibrator
Chemical Recovery Plant. Recovery Boilers. Dorr Oliver fluid bed incinerator
Pulp Processing: Stock Refiners. 5 S-W primary, 3 Bauer 4 S-W secondary, 2 DKP dewatering, presses.
Paper Mill Stock Preparation: Pulpers. Secondary fiber prep 1 14' Hydrapulper, 3 HDC's, 1 fibenzer, 1 Centrisorter, 2 stages reverse Krofta cleaners. Other Eqt. 1 Impco disc filter on white water
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 1450 fpm, 2 suction presses, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers Drums: 95.
Steam/Power. Power Boilers 4. Fuel Coal, Gas. Steam, lbs hr.. 240,000. Press.: 600 psi
Electricity: Purchased. 8000 kw Generated: 4000 kw. Turbogenerators. 1-4000 kw/kva
Water Treatment. Daily Usage, 2,200. M.g.p.d Source: Wells.
Effluent Treatment. Secondary Treatment: Aeration ponds.
Products. NSSC corrugating medium, 400 tons daily

PALMYRA

Big M Paperboard Inc. 6240 E US-223 (PO Box 135) 49268
Tel: 517-263-5160
Hwys: US Rte # 223
Merritt Sorensen, Vice Pres
Steve Southard, Sec-Treas
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Screens: 6 P-12 pressure. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 120. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Yes.
Products. Chipboard, tube stock, match stock, 70 tons daily.

PARCHMENT

★**James River Corp. KVP Group.** Parchment & Paper Divs. 100 Island Av 49004
Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94. State Rte # 43.
Andrew T Muha, Vice Pres, Gen Mgr, Ppr Div
Keith N Bartlam, Vice Pres, Gen Mgr, Prchmt Div
Robert Huiskamp, Opers Mgr, Ppr
James Cole, Opers Mgr
Edward Lynsky, Mgr, UM&E
James Butler, Gen Supt Pprmkg
Lyle Alrick, Mgr Mfg Srvcs
Ken Matveia, Enviro Dir
Daniel E Conway, Mgr Admin
Donald T Carr, Ind Rels Mgr
William Roschek, Mgr, Sls & Mktg, Fine Ppr
Robert Russell, Grp Srvcs Mgr
Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.. Secondary Fiber Mill, 150 tons daily capacity
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine Air Knife. 1. Blade. 2. Solvent: 1
Finishing Plant. Supercalenders. 2. Rewinders: 7. Sheeters: 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr. 400,000.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Well
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.
Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily Mill No 2: 280 tons daily.

MHI-00247

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
BLEACHED KRAFT PULP

PLAINWELL

Plainwell Paper Co. Inc. (Subs. of Chesapeake Corp.) 200 Allegan St. 49080

Tel: 616-685-5851 Telex: TWX: 810-277-4990
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.
Samuel Taylor, Pres
Robert Green, Plant Mgr
James Ishmael, Dir Mfg
Dick Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Robert Tardiff, Mgr Pdct Srvs
Kay C Woodruff, Supv. Testers
Alan K Bruner, Supt Distr
Barbara J Bradley, Prchsg Agt
Larry Henseler, Contr
Leon Formanczyk, Mgr Ind Rels
George Lawton, Dir, R&D
Donald Ulsh, Sls Mgr, Prntg Pprs
William Jones, Sls Mgr, Tech Pprs
Alison K Knight, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper. Refiners: 8 double disc. Jordans: 3. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 2000 fpm
Dryers. Size Presses: 3..
Coaters. On-Machine. Trailing Blade. 2 120" Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 1-65", 1-77", 1-126", 1-130". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.. 1-60" dual roll emposser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.. 130,000. Press.. 265 psi.
Electricity: Freq, phase. 60, 3. Purchased: 160,000 3250,000.

Water Treatment. Daily Usage. 2,700. M.g.p.d. Source: wells

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

★**Dunn Paper Co.** Sub of Dennison Mfg. Co. 218 Riverview St (PO Box 227) 48060

Tel: 313-984-5523 Telex: TWX 810-231-7053
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding Hwys: US Rte # I-94.
Roswell E Hubbard, Pres, CEO
Thomas E Gallagher, Exec Vice Pres, COO
James R Scohy, Vice Pres, Mfg
Arthur H Hupp, Vice Pres, Tech
Peter R Hoppe, Vice Pres, Admn & Contr
Carolyn M Desjardins, Asst Corp Sec
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Mgr, Indl Rels
J David Fleet, Mktg Mgr, OTC/Spclts
Lewis T Johnson, Sales Srvc & Traffic Mgr
Bill Hirons, Machine Supt
Frederick Lange Machine Supt
Denny Klinkman, Machine Supt

Paper Mill Stock Preparation: Pulpers. 8 Refiners: 14 Jordans. 2
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers Yankee 3 12', 1 18' dia units Size Presses 4 Calenders 2. Winders 4..
Coaters. On-Machine.Roll. 1 Blade 2
Finishing Plant Rewinders: 2.

Steam/Power. Power Boilers: 3 Fuel: Oil/Gas. Steam, lbs hr: 76,000 Press.. 600/200.
Electricity: Freq, phase: 60 3. Purchased: 11,000 kwh./day.

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

★**Port Huron Paper Co.** 1700 Washington Av 48060

Tel: 313-982-0191 Telex: TWX: 810-231-6098
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21.25
E.J. Grys, Vice Pres, Opers
R.P. Cole, Vice Pres, Sales & Mktg
L.J. Mattila, Tech Dir
W.M. Fries, Plant Engr
L.H. Jewell, Sales Mgr, Spclty & Pckgng Pprs
L.E. Rymers, Sales Mgr, Busn Pprs
D.C. Brown, Sales Mgr, Prntg Pprs
C Lewis-Bradley, Mgr, Cust Srvcs

Paper Mill Stock Preparation: Pulpers: 5. Screens: 6. Refiners: 40. Jordans: 7. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 116" Trim 1200 fpm
1 Fourdrinier 184" Width 156" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 7 stacks. Winders: 6..
Finishing Plant. Rewinders: 2.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage. 10,000. M.g.p.d. Source: River.

Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, tissue wrapping, grease-resistant, pan liners, twisting, wet strength, and specialties, 200 tons daily.

QUINNESEC

Champion International Corp. PO Box 271, Norway 49870-0271

Tel: 906-779-3270

Pulp Mill Kraft Avg. Daily Prod. Bl Hwd., 750 tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr
Chemical Recovery Plant. Recovery Boilers: 1 B&W.
Bleach Plant. Sequence: (n.a.)
Pulp Drying: Fourdriniers: 1 KMW
Pulp Mill Is Under Construction.

Steam/Power. Power Boilers 1 B&W Steam, lbs hr.. 375,000
Electricity. Turbogenerators: 1 27 Mw Stal-Laval.

Products. Bleached hardwood kraft market pulp, 750 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. of James River Corp.) 340 Mill St 48063

Tel. 313-651-8121
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150
William M Kirkland, Vice Pres, Gen Mgr
H.L. Westley, Plant Mgr
Carl W Bach Jr, Ppr Mchne Supt
Kris Brady, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Plachta, Plant Engr
Chuck Sornick, Sales Mgr
Mary Lou Deaton, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters. 1-1000 lb. Screens. 1 Parker Jordans: 2 Noble & Wood. 1 Jones Fibremaster
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses: 1. Calenders. 1 stack.
Coaters. On-Machine.1-62" roll saturator, 20 tons daily cap.
off Machine. 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 1-72", 1-84" Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Shendan. Sewing Machines. 1.

Steam/Power. Power Boilers: Fuel: Oil. Press.. 100 psi.
Electricity: Freq, phase: 60, 3 Purchased: 100%.

Water Treatment. Daily Usage. 150. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

RPM Board & Carton Corp. Paper Board Div. 7734 Childsdale Rd 49341

Tel: 616-866-1523
RR: Mich Nthrn. Hwys: Near US Rte # 131 Approx Mi 3.
James Isabel, Vice Pres, Mill Mgr
Les Peck, Prod Mgr
Les Brown, Mill Supt
Steven Rokos, Maint Supt

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners. B-C Liquid Cyclone. Consistency Regulators: DeZunk. Other Eqt.: ailied chx mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 68" Trim 315 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters. On-Machine. Air Knife. 1 Waldron Microjet.
Finishing Plant. Trimmers: 2.

Steam/Power. Power Boilers. 1. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased. 1500 kva.

Water Treatment. Daily Usage. 20. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**

Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi-Price Corp.** Building Products Group

Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St 49097

Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding Hwys: Near US Rte # 131, I-194 Approx Mi 6
Peter Lowe, Opers Mgr
David De Young, Gen Supt
Adolph Konjeczny, Ppr Mchns Supt
Chester Dobrowolski, Fnshng & Coating Supt
D Weybright, Tech Dir
C Globig, Mgr R&D
Roger Huckendubler, Chief Engr
Chet Dobrowolski, Ctg & Fnshg Supt
Rodger Watson, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Jack Page, Estrn Srvc Mgr

MHI-00248

SBS Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville MN 55337
Phone 612 431-6336 • Telex 910-576-0234
Cable 'SBS PAPER USA • WATS 800 328-4018

Pulp Mill Rags: Batch Digesters: 2 10,000 lb Rotary. Pulp Processing: Washers: 4 1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 2-1000 lb. Bertrams. Screens: 5. Refiners: 2 double disc Morden. Jordans: 5 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters. off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co Inc. (Sub. of Shoreham Packaging Group Inc.) 279 Paw Paw Av. 49098
Tel: 616-463-3141 Telex: 72-9432
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140
David D Stiles, Chmn & Pres
John H Carango, Exec Vice Pres, Sec
Milton F Stibal, Vice Pres, Mfg Srvcs
L.B. Dove II, Vice Pres, Fin & Treas
Robert L Shive, Prod Mgr
Walter Elliott, Pprmkg Supt
Lemoin M Shadduck, Mgr, Engrg
James G Viot, Dir Matls Mgmt
Marian Ostruszka, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4 Refiners. 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
Finishing Plant. Supercalenders: 5. 119", 66", 80", 86", 96" Rewinders 2. Sheeters. 4-76" to 101" Trimmers: 4-85" and 100" Other Eqt.: 1 Black Clawson Laminator. 1 62" Embosser.
Steam/Power. Power Boilers 3 Fuel. Coal Steam, lbs hr.: 90,000 Press. 235
Electricity Installed H P 450 water Purchased: 100%
Water Treatment. Daily Usage, 1,200. M.g.p.d Source: wells
Effluent Treatment. Primary Treatment: Spray irrigation
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, foil mounting, rotogravure, 145 tons daily

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601
RR: ConRail siding Hwys: US Rte # 12.
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 6. Refiners: 5.
Paper Machines. 1 six-unit Ultraformer, 110" trim..
Dryers. Drums: 41. Calenders: 2..
Coaters. On-Machine. Air Knife, 1-110".
Finishing Plant. Rewinders: 1. Trimmers: 1-85".
Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 180,000. Press.: 500 psi.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 250. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard, 170 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp, Curtis Paper Div.) 1000 N. Huron St. 48197
Tel: 313-482-2600 Telex: 810-223-7004
RR: ConRail siding Hwys: US Rte # I-94.
Edward G Gremban, Vice Pres, Gen Mgr
Frank L Wright, Vice Pres Sales
Gerald Linzmeyer, Res Mgr
David Seidler, Div Engr
William Turner, Fnshg & Shpg Supt
Jeffrey Brown, Tech Supt
Harold Rhora, Cnvtg & Traf Mgr
Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners: 1 Morden. Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm (idle)
Dryers. Drums: 52-36" 132-36". Size Presses: 1. Calenders: 1 stack Winders: 1..
Finishing Plant. Roll Wrapping Eqt.: 1 line Rewinders: 1-78" Langston. Sheeters. 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt.. Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil Steam, lbs hr.. 40,000 Press.: 130
Electricity Freq, phase: 60, 3. Installed H.P. 1200. Purchased 25000 kwh/day
Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601
Tel: 218-751-5140,1,2
RR: BN siding Hwys. US Rte # 2,71,371
Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown Plant Supt
Donovan Gould, Master Mech
Myron Haiby, Sales Traffic Mgr
Woodhandling and Preparation Barkers 1-21" Manitowoc Chippers 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd. 100 cds aspen.
Pulp Mill Defibrated Wood Pulp Avg Daily Prod.: Unbl Hwd., 100 tons Continuous Digesters. 2 30' Grenco
Pulp Processing Stock Refiners: 1 #185 and 3 #445 Bauer
Paper Mill Paper Machines Special machinery including 49" X 97½' dry forming and pressing equipment, and 2 drying systems.
Steam/Power. Power Boilers: 1. Fuel: Bark. Steam, lbs hr.: 14,000. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 2350 electric. Purchased. 30,000 kwh/day.
Water Treatment. Source: City
Products. Standard panel and tempered hardboard (⅛" to ⅝" thickness) and special types, S2S, 100 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401
Tel: 218-828-3200 Telex: 910-561-3508
RR: Burl Nthrn. Hwys: US Rte # 210,371.
Earl J DeRocher, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shpg
Leonard W Bade, Mgr Ctg
David E Dinham, Pur Agt
Terrance M Trettel, Mgr Traffic
Paper Mill Stock Preparation: Pulpers: 1 Morden, 2 Hydrapulpers. Refiners: 1 disc. Jordans: 5.
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 101. Size Presses: 2. Calenders: 3.. Coaters. off Machine. 1-180" Billblade, 1-112" two-station blade.
Finishing Plant. Supercalenders: 2-121", 1-80". Rewinders: 5. Sheeters: 7. Trimmers: 4.
Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.: 132,000.
Electricity: Purchased: 140,000 kwh/day. Generated: 50,000 kwh/day.
Water Treatment. Daily Usage, 2,300. M.g.p.d. Source: River. Primary Treatment: Infilco accelerator.
Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier. Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.
Products. Bond, xerographic, coated offset text and cover (gloss, matte, dull, velvet), 370 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720
Tel: 218-879-2800 Telex: 910-561-2110
RR: Duluth & Nrthwstrn, BN, Milw, siding. Hwys: Near US Rte # 61, IS-35 Approx Mi 3. State Rte # 33,45.
J.W. King, Vice Pres, Mfg Mgr
J.J. Polyner, Mfg Mgr, Board
R.W. Bohren, Mfg Mgr, Blanket
Paper Mill Paper Machines. 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Tufflex Mill C. 1 Former and dryer, 114" width, 100" trim..
Fabrics Mill: 1 Curlator-Rando feeder and webber, impregnator and dryer, 80" trim..
Coaters, On-Machine. Roll, 3 in board mill.
off Machine. 9 Spray and 3 curtain in board mill.
Steam/Power. Power Boilers: Fuel: Coal/Gas/Oil. Press.: 275.
Electricity: Freq, phase: 13,800v, 60, 3. Installed H P 34,000. Purchased: 100%.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Yes.
Products. Board mill: mineral ceiling panels and decorative tile Tufflex Mill: Homogenous wood fiber cushioning and protective padding. Fabrics Mill: Non-woven fabrics

★**Potlatch Corp.** Northwest Paper Div. 55720
Tel: 218-879-2300 Telex: 910-561-2113
Headquarters Location. See Executive Offices section for more details.
RR: Burl Nthrn, Duluth & Nrthestrn RR. Hwys: State Rte # 33,45.
Robert V Hershey, Plant Mgr
David A Olsen, Prod Mgr
David P Rawski, Mgr Ppr Mfg
Lee N Rockham, Mgr Tech Srvc
William H Erickson, Mgr Ctg
David R Peterson, Mgr Pulp Mfg
Michael J Rossing, Mgr, Engrg

MHI-00249

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
EXPORT WOODPULP

Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec

Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers. Size Presses: tub..
Finishing Plant. Sheeters: 3. Trimmers: 4.

Steam/Power. Power Boilers: 2. Fuel: Oil.

Water Treatment. Source: River.

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 20 tons daily.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111
RR: B&M. Hwys: US Rte = 20.
Lon R Chubb, Mills Mgr
Phillip N Wyman, Mgr, Mfg
Richard F Matulowitz, Chem
Ray E Menard, Plant Engr

Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..

Products. Mill No. 1: writing, text, cover, artist's, papeterie papers. Mill No. 2: Rag specialty, reproduction, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

Simplex Products Group

Headquarters Location. See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Group 416 Ford Ave. 49707

Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte = 23. State Rte = 32.
R.G. Brown, Plant Mgr
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
H Skull, Hrdbd Supt
C Smith, Mfg Supt
T.J. Kelly, Mgr Fbrctg & Fnshg
B.H. Cummings, Pers Mgr
J.P. Kinzler, Plant Contr
A.J. Towlerton, Plant Buyer
J.C. Lamy, Woods Mgr.

Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle.
Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation: Pulpers: 1 Jones repulper. Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses, 1 22-deck press.

Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.

Water Treatment. Daily Usage. 1,500. M.g.p.d. Source: River. Primary Treatment: Screening.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.

Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707

Tel: 517-354-2131
RR: D&M siding. Hwys: US Rte = 23. State Rte = 32.
Allan M Fletcher, Pres, Treas
Charles S. White, Exec Vice Pres, Gen Mgr
John T Fletcher, Vice Pres.
R. Werner, Sec., Pur. Agt.
Michael J Bekes, Gen Supt
K Byers, Paper Mill Supt.
T Van Massenhove, Chief Engr.
Clifford Crevier, Fnshg Supt.
C Roberts, Traffic Mgr.
Elbert M Heath, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Screens: 2 Selectifier. Refiners: 5 Jones DD. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1200 fpm
Dryers. Drums: 62. Size Presses: 2. Calenders: 2 stacks. Winders: 2..
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity.
Finishing Plant. Sheeters: 1-67" precision. Trimmers: 3-65", 72", 85".

Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 60,000. Press.: 450 psi.
Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day.

Water Treatment. Daily Usage. 1,000. M.g.p.d. Source: Thunder Bay River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: City syst.

Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 85 tons daily.

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079

Tel: 616-968-3000 Telex: 223503
RR: ConRail. Hwys: State Rte = 96. Near US Rte = IS-94 Approx Mi 8.
E Hibben, Pres & Treas
Leo Fuchs, Exec Vice Pres, Gen Mgr
Hans C Mueller, Vice Pres, Mktg
Pat Merritt, Sec
Larry M Freed, Mgr, Matl Hndlg & Prcnsg
Steve R Wilber, Cont
Brenda M Bass, Prod Mgr
Sam Pearson, Qlty Control Mgr
David Seidler, Maint Mgr
Kristopher J Blake, Lab Mgr
Peter K Gruber, Engrg Mgr
Carl Gundersen, Sales Engr
Lee Glotzback, Dir, Human Rsrcs

Pulp Mill Ground Wood, Refiner. Avg. Daily Prod.: Thermomechanical: 30 tons Refiners: 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary

Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper
Paper Machines. 3 molding machines of own design..

Products. Molded fiber products for automotive industry

Michigan Paperboard Corp. (Subs. of Field Container Corp.) 79 E Fountain St 49016

Tel: 616-963-4004
RR: ConRail, GTW, siding. Hwys: US Rte = I-94, I-69. State Rte = 66,37,89.
Terry Tiffany, Gen Mgr
C.J. Lambert, Mfg Mgr
C Tobey, Mfg Supt
Gary McMillan, Plant Engr
John Goll, Qlty Mgr
J.G. McCarthy, Contr
Jack Crabtree, Ind Rels Mgr
John Kneeland, Prcnsg Mgr
Douglas Rollennagen, Mech Buyer

Paper Mill Stock Preparation: Pulpers, 3-4000 lb Morden, 1-14', 1-20' Hydrapulper, 1-3000 lb. Refiners: 1 disc. Jordans: 3. Screens: Centrisorter
Paper Machines. Stevens Formers: 1 seven unit, 120" trim, 750 fpm
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 60"..

Steam/Power. Power Boilers: 2. Fuel: Gas, Oil. Steam, lbs hr.: 80,000.

Products. Combination boxboard, 275 tons daily

Waldorf Corp. 177 Angell St 49016-3433

Tel: 616-963-5511
RR: ConRail, GTW siding. Hwys: US Rte = I-94, I-69, State Rte = 66,37,89.
L.M. Spurgeon, Res Mgr
Alan Crabtree, Mfg Mgr
Clayton Roberts, Mfg Supt, Angell Mill
M Shapton, Plant Engr
M Minger, Qlty Mgr
L.J. Hanson, Contr
J.A. Matthews, Matls Mgr
Robert L Bay, Buyer

Paper Mill Stock Preparation: Pulpers: 3-3000 lb Morden Slushmaker 3-16' Hydrapulpers:. Beaters: 1-2000 lb broke. Refiners: 4 Hydrafiners, 3 Disco, 2 Bauer. Screens: Centrisorter. Jordans: 12.
Paper Machines. 1 Beloit Bel Bond Former, 146" width, 130" trim, 1000 fpm..
Dryers. Drums: 283-60". Calenders: 2 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared..
Coaters, On-Machine. Air Knife, 1-130", 1-98", 1-122". On-Machine. Trailing Blade, 1-130", 1-98", 1-122". On-Machine Rod: 2-130".

Steam/Power. Power Boilers: 1. Fuel: Oil/Gas. Steam, lbs hr.: 160,000.
Electricity: Purchased: 2,500 kwh/day. Generated: 7,500 kwh/day. Turbogenerators: 2-8500 kw/kva.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Yes Effluent to joint industrial/municipal plant.

Products. White clay coated, white lined news, bending chip, 300 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S. Main St. 49721

Tel: 616-627-5664
RR: D&M siding. Hwys: US Rte = 27.
R.N. Burns, Plant Mgr

Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue

CONSTANTINE

Simplex Products Div. Centreville Rd. E 3rd St 49042

Tel: 616-435-2425 Telex: 510-398-5730
RR: ConRail siding. Hwys: US Rte = 131.
Monamed Fanmy, Plant Mgr
Steve Graham, Mill Supt
Earl Thompson, Maint Supv
Dick Thomas, Cnvtg Supt
Andrew Jiskra, Shpg.Rcvng Supv
Sandy Munson, Office Mgr

Paper Mill Stock Preparation: Pulpers: 2. Screens: 2. Refiners: 4. 1 deflaker Other Eqt.: 1 disc filter.
Paper Machines. Seven-Cylinder 112" Width 100" Trim
Dryers. Drums: 4 sets hi-stack..
Finishing Plant. Other Eqt.. Laminators: 2.

Steam/Power. Power Boilers: 2 Fuel: Gas/Oil. Press.. 150
Electricity: Freq, phase: 440 v, 60, 3. Purchased: 100%.

Water Treatment. Daily Usage. 70. M.g.p.d. Source: River

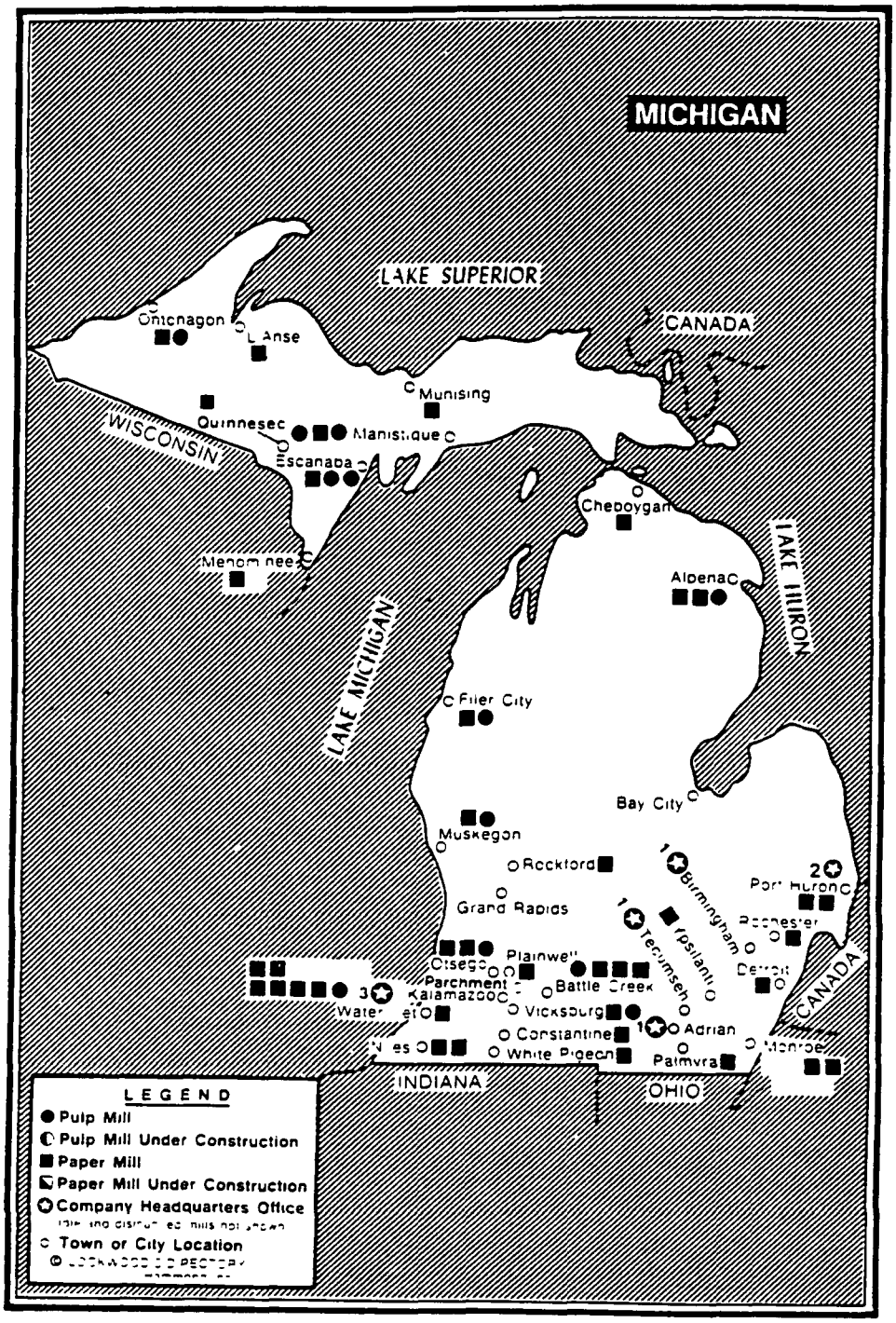
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.

Products. Chipboard, test liner, 120 tons daily.

MHI-00250

DETROIT

Port Huron Paper Corp 9125 W Jefferson Av 48209
Tel 313 842 0042 Telex TWX 810 221 9425
RR ConRail siding Rouge Yard Hwys US Rte = 5 75
Egil R Aschim Vice Pres Opers
Joe Buckholz Prod Supt
Donald Grace Plant Engr
L J Sturm Tech Dir
R P McConkie Pers Mgr
Paper Mill Stock Preparation Pulpers 4 Refiners 7 double disc 1 Morden Jordans 5
Paper Machines 1 Yankee MG Fourdrinier 118 Trim
1 Yankee MG Fourdrinier 124 Trim
1 Yankee Fourdrinier 126 Trim
1 Yankee Fourdrinier 127 Trim
Dryers Yankee 4
Steam/Power Power Boilers 3 Fuel Gas Oil
Electricity Generated 100%
Water Treatment Daily Usage (mgd) Mgpd Primary Treatment Yes
Effluent Treatment Primary Treatment City System
Products Foil mounting wrapping lightweight specialty papers creped specialties coffee filter ice cream wrapper film base gravure printing interleaving creping base 175 tons daily



ESCANABA

Mead Corp. Publishing Paper Div 49829
Tel 906-786-1660
RR C&NW Soo Line sidings Hwys US Rte = 2 41 State Rte = 35
S S Benedict Pres Gen Mgr
T J Morgan Vice Pres Admin
W R O'Donnell Vice Pres Mktg
Gary Butryn Vice Pres Opers Mgr
L King Pulp Mill Supt
G W Brown Tech Dir
Kenneth Clark Mgr Plant Engrg & Maint
G E Barnes Qual Mgr
J C Parr Enviro Control Tech Dir
W H Goode Util Mgr
J F Schneider Sales Srvc Mgr
J A Cole Contr
Richard E Nelson Mgr Matls
T J Gregoire Dir Human Rsrcs
R Tompkins Pub Rels Mgr
Erm Venuto Gen Mgr Woodlands
Woodhandling and Preparation Log Handling Live decks Chip Handling Rader pneumatic system Barkers 2-12 x 80 drum 1-22' Nicholson hydraulic Hogs 1 Gruendler bark Chippers 2 15 knife 112 disc 1 84 Nicholson Chip Screens 1 KMW 1 Rader
Pulp Mill Kraft Avg Daily Prod Bl Swd 200 tons Bl Hwd 400 tons of which 300 tons is Market Pulp Batch Digesters 6-6 500 cu ft each
Ground Wood Refiner Avg Daily Prod Bl Hwd 200 tons Refiners 4 primary 2 secondary Sprout Waldron 42 18 disc
Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W 2 400 000 lbs solids/day 300 000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators 1 Western Precipitation Lime Kilns 1 Allis-Chalmers Gas Scrubbers 1 Ducon on recovery boiler 1 venturi on kiln Lime Mud Washers 1 D-O Recausticizing System Dorr-Oliver
Bleach Plant Sequence Gwd 1 stage Kraft C-E-D-E-D Chlorine Dioxide System Hooker SVP system
Pulp Processing Knotters Gwd 2 A-C vibrating Kraft SW Hooper centrifugal Drainers Gwd 1 Morden 1 Bauer Helipress Stock Refiners Gwd 2-26 S-W Twin-Flo Rejects Refiners Gwd 1 Bauer Screens Gwd 4 primary 1 secondary Cowan 2 Bird Centrisorter Kraft Bird Centrisorters Cleaners Gwd 69-body 3-stage Bauer 606 Centricleaner Washers Gwd 1-8 x16 Impco bleach Kraft 3-13½ x24 Impco brown stock, 5-13½ x24 Impco bleach Washers Gwd 7-48 x131 Cowan gravity 1-12 16-disc Hymac Kraft 1 13½ x24 Impco
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying 166 width 155' trim 1300 fpm 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor
Paper Mill Stock Preparation Pulpers 2 Hydrapulpers 2 continuous Morden 2 Dynapulpers 3 Morden broke Screens 6 Selectifiers 2 Centriscreens Refiners 7 Claflins 6 S-W disc 3 Deflakers (broke) Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166 Width 155" Trim 2000 fpm
Beloit Fourdrinier 300 Width 274 Trim 3000 fpm
Valmet Fourdrinier 320 Width 305 Trim 3000 fpm
Dryers Size Presses 2 Calenders 2 stacks Reels 3 Re reelers Winders 3
Coaters off Machine Trailing Blade 2 286 2 172 1 302 Wartsila double blade for C2S
Finishing Plant Supercalenders 1 9-roll Bruderhaus 2 278 9-roll Appleton Roll Wrapping Eqt Lamb-Grays Harbor automatic Rewinders 1 Lenox 3-2 drum 156 Cameron 2-MIR 278' Cameron Sheeters 3 Hamblet Trimmers 3 Seybold
Steam/Power Power Boilers 3 Fuel Oil Gas/Bark Steam lbs hr 1 600 000 Press 400/1500 Electricity Freq phase 60 3 Installed HP 75 000 Hydroelectric 2 000 kwh day Turbogenerators 48 000 kwh/day
Water Treatment Daily Usage 28 000 Mgpd Source Lake Michigan Primary Treatment Sand filters
Effluent Treatment Primary Treatment Clarifier Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier
Products. Coated book and publication papers 1 305 tons daily Kraft hardwood market pulp 300 tons daily

MHI-00251

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U S & WORLDWIDE SOURCES
BLEACHED HARDWOOD KRAFT PULP

FILER CITY

Packaging Corp of America 49634
Tel 616-723-9951
RR C&O siding Hwys US Rte = 31
F J Fragomeli Vice Pres & Mgr
L L Huffman Prod Mgr
C F Mills Tech Dir
D J Elliott Engrg Mgr
N D Sorenson Fin Mgr
M R Mysliwiec Dir Ind Rels
R F Davis Wdlnds Mgr
Woodhandling and Preparation Roundwood Storage Capacity 26 000 Cords Barkers 1 12 x80 FMP Chippers 1 112' 12-knife Chip Screens 2 HiCap
Pulp Mill Semi-Chemical NSSC Avg Daily Prod 600 tons Continuous Digesters 3 Pandia Chemical Recovery Plant Evaporators 2 multiple-effect Recovery Boilers 1 fluidized bed unit Pulp Processing Stock Refiners 3 American Defibrator Screens 2 Washers 4 Vacuum 5 screw press
Paper Mill Stock Preparation Pulpers 3 Screens 3 Refiners 5 Jones disc 4 Sutherland Jordans 7 Miami
Paper Machines 1 Fourdrinier 174' Width 158' Trim 1200 fpm
1 Fourdrinier 172 Width 157 Trim 1300 fpm
1 Fourdrinier 160 Width 148 Trim 750 fpm
Dryers Drums 148-60 dia
Steam/Power Power Boilers 4 Fuel Oil Gas Coal Steam lbs hr 600 000 Press 610
Electricity Purchased 25 000 kwh/day Generated 475 000 kwh/day Turbogenerators 3-21 875 kva total
Water Treatment. Daily Usage 20 000 M g p d Source River Lake
Effluent Treatment Primary Treatment 2 Clarifiers Secondary Treatment Aeration pond
Products Corrugating medium 720 tons daily

KALAMAZOO

★**Allied Paper Inc** Paper Mills Div (Subs of Hanson Industries) 2030 Portage St 49001
Tel 616 345 7:3.
Headquarters Location See Executive Offices section for more details
RR ConRail sidings Hwys US Rte = IS 94 131 State Rte = 43 96
T E Flanagan Vice Pres Opers
R W Mirkin Vice Pres Sales & Mktg
S Oakleaf Prod Mgr
G Gerard Asst Prod Mgr
R Eaton Engrg Maint & Util Mgr
E O Arnold Supt Mill C
R Steadmon Supt Mill D
D C Kirk Jr Tech Dir
H D Peeters Mgr Prod Schec
G F Mahoney Natl Sales Mgr
J L Curtis Mktg Mgr
B L Rasmusson Dir Prcnsg
Tom Cadwell Traf Mgr
Paper Mill Paper Machines 1 Fourdrinier 137 Width 124 Trim
1 Fourdrinier .39 Width 126 Trim
1 Fourdrinier 14. Width 127 Trim
1 Fourdrinier 154 Width 142 Trim
1 Fourdrinier .64 Width 152 Trim
Coaters off Machine C2S Fountain Blade 126 trim
Steam/Power Power Boilers Fuel Oil/Gas
Water Treatment Source River Wells
Effluent Treatment Primary Treatment 2 clarifiers
Products Acding machine bible bond coated and uncoated book end eat foil mounting gift wrapping labe mag offset opaque sensitizing text vellum xerographic itho chart music watermark 240 tons daily Coated electrostatic base master and specialites 75 tons daily Coated two sides matte fin sr book .00 tons daily

Georgia-Pacific Corp Kalamazoo Paper Div 2425 King Hwy (PO Box 2738) 49003
Tel 616 382 2890 Telex 8.0 277 2618
RR ConRail GTW siding Hwys US Rte = I-94
David R Norman Mill Mgr
Larry Pio Prod Mgr
J Ittner Tech Dir
Fred J Shelton Plant Engr
T W Young Plant Contr
F Higdon Pur Agt
Pulp Mill Deinked Pulp Avg Daily Prod 200 tons Batch Digesters 2 lines of 10 primary and 2 secondary flotation cells 110 tpd. sidehill washers. 90 tpd
Bleach Plant Sequence 1 Hypochlorite/Hydrosulphite stage Towers 1 downflow
Paper Mill Stock Preparation Pulpers 6 Beaters 4-1500 lb 6-2500 lb 2-3500 lb Refiners 5
Paper Machines 1 Fourdrinier 142 Width 125' Trim 800 fpm (idle)
1 Fourdrinier 185 Width 170' Trim 1500 fpm
1 Fourdrinier 170' Width 150' Trim 2000 fpm
Dryers Size Presses 3
Finishing Plant Rewinders 2 95
Steam/Power Power Boilers 4 Fuel Gas/Oil Steam lbs hr 350 000 Press 450/275
Electricity Freq phase 440v 60 3 Installed H P 18 500 electric Purchased 4 000 kw Generated 12 000 kw Turbogenerators 4
Water Treatment. Daily Usage 8,000 M g p d Source River
Effluent Treatment. Primary Treatment Clarifiers joint municipal system
Products. Bond offset label postcard 400 tons daily

Hawthorne Paper Co Inc. (Sub of Gould Paper Corp) King Hwy

Paper Mill Is Dismantled

★**James River Corp.** Paperboard Packaging Group 243 E Paterson St 49007
Tel 616-383 5000
Headquarters Location See Executive Offices section for more details
RR ConRail CK & S siding Hwys US Rte = 12 13 I-94 State Rte = 43
Richard Bennett Prod Mgr Pprbd
Bruce Lurvey Supt Plt 4
Del Van Bruggen Supt Plt 7
Jim Askew Supt Plt 14
Robert A Nitz Tech Dir
Phil Zirngibil Mgr Maint & Util
Jim Heffner Engrg Supt
Wayne VanWeelden Admn Mgr
Arthur Thompson Div Contr
Mike Howe Ind Rels Mgr
Paper Mill Stock Preparation Pulpers 9 Hydrapulpers 1 Morden Slushmaker Beaters 1 continuous broke Refiners 8 Hydrafiners 2 Morden Stockmaker Screens 21 Jordans 10
Paper Machines Seven Cylinder 132 Width 120 Trim
Eight-Cylinder 154 Width 138 Trim
Coaters On Machine Air Knife 2
Extrusion Trim Width 1-76 Beloit 1 55 Egan PE coaters
Finishing Plant Other Eqt 1 76 Waldron 1 56 Inta-Roto 1 56 Mercury laminators
Steam/Power Power Boilers 4 Fuel Gas/Oil Steam lbs hr 300 000
Water Treatment Daily Usage 4 000 M g p d Source Deep well
Effluent Treatment Primary Treatment City syst
Products Folding boxboards machine clay coated solid and news lined chip plain and bending chip foil laminating grease and moisture resistant laminated polyethylene coated 400 tons daily

National Gypsum Co. 2305 E King Hwy
RR ConRail siding Hwys US Rte = 12
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 3 Sprout Waldron
Paper Machines Beloit Eight Cylinder 108 Width 100 Trim 450 fpm
Dryers Drums 110 infrared 30 Calenders 1 stack
Finishing Plant Rewinders
Steam/Power Power Boilers 2 Fuel Gas/Oil Steam lbs hr 70 000
Electricity Purchased 48 000 kwh/day
Water Treatment Daily Usage 580 M g p d Source Wells City
Effluent Treatment Primary Treatment 1 Clarifier
Products Gypsum board liner 145 tons daily Mill closed for indefinite period
Paper Mill Is Idle

L'ANSE

Celotex Corp Sub of Jim Walter Corp PO Box 86 49946
Tel 906 524 6101
RR Soo Line Hwys US Rte = 41
L W Swanson Plant Mgr
E R Johnson Gen Supt
R A Soli Plant Contr
B C Penokie Plant Engr
Paper Mill Stock Preparation Pulpers 1 continuous Hydrapulper Consistency Regulators Brammer type
Paper Machines Black Clawson Fourdrinier 172 Width 165 Trim 50 Fpm Dryer 1-450 8-deck Coe
Coaters off Machine Acrylic coater
Steam/Power Power Boilers Steam lbs hr 93 000
Electricity Purchased 100 000 kwh/day
Water Treatment. Daily Usage 1 000 M g p d Source Bay
Products Mineral board products perforated and unperforated tile other interior finish products 200 tons daily

MANISTIQUE

Manistique Papers Inc PO Box 309 49854
Tel 906 341-2175
RR Soo Line sidings Hwys US Rte = 2
Leif Christensen Pres Gen Mgr
Donald Klagsted Pulp Mill Supt
Charles Greene Paper Mchne Supt
Ray Zimmerman Plant Engr
Francis J Kasun Pur Mgr
Allen Schuster Sales Mgr
Walter Alexander Treas
Pulp Mill Deinked Pulp Avg Daily Prod cap 500 tons
Paper Mill Stock Preparation Pulpers 2 Jones Refiners 1 Claflin
Paper Machines 1 Twin-Wire former 165 width 154 trim 4200 fpm
Dryers Drums 48 60 dia Calenders 1 Reels 1 Winders 1 Beloit
Steam/Power Power Boilers Fuel Coal Steam lbs hr 145 000 Press 350
Electricity Purchased 5000 kwh/day
Water Treatment Daily Usage 2 500 M g p d Source River Primary Treatment Yes
Effluent Treatment Primary Treatment Clarifier Secondary Treatment Activated sludge system
Products Newsprint groundwood printing and groundwood converting papers 250 tons daily

MENOMINEE

Menominee Paper Co Inc (Sub of Bell Fibre Products Corp) 144 First St (PO Box 300) 49858
Tel 906 863 5595
RR C&NW CMStP&P Hwys US Rte = 41 State Rte = 173
Donald Estebo Gen Mgr
Ernest Graham Mgr Ppr Pdcts
Julius Nagy Mgr MG Ppr
Charles Vines Paper Mill Supt
Steven M Courtney Tech Dir
Alfred Bicke Chief Engr
Douglas Stemen Cnvtg Supt
Larry Eggleston Sales Mgr Board
Cal Claremont Mgr Prcnsg
Thomas J Krause Contr
Kenneth Jacobson Pers Mgr
Paper Mill Stock Preparation Pulpers 4 Hydrapulpers Refiners 2 Claflin Jordans 5
Paper Machines Black Clawson Fourdrinier 164 Width 154 Trim

MHI-00252

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO ILLINOIS 60611 • PHONE 312/664-5700
THE PAPER TIGERS

Yankee Fourdrinier 136 Width 128 Trim
Finishing Plant Supercalenders 2 Rewinders 4
Other Eqt Waxers 5
Steam/Power Power Boilers Fuel Coal Steam lbs hr 140 000
Electricity Purchased 7 000 kwh/day Generated 4 000 kwh/day Turbogenerators 2
Water Treatment Daily Usage 5 000 M g p d
Source River
Effluent Treatment Primary Treatment Yes
Products Linerboard corrugating medium tube stock waxing tissue lightweight MG 360 tons daily Waxed paper in rolls and sheets

MONROE

Monroe Paper Co 1220 E Elm Av 48161
Tel 313 241 7700
RR ConRail Detroit Toledo Shore Line Hwys Near US Rte = 1 75 Approx Mi 1 State Rte = 56
Robert J Mitchell Pres Chf Optg Ofcr
E D Redman Vice Pres
D Flotow Mill Mgr
J R VanSlambrouck Gen Supt
W J Sandretto Tech Supt Mill Engr
N D Lee Jr Dir Prcnsg
Paper Mill Stock Preparation Pulpers 1 15 Apmew Pulper 3 20 and 1 16 Hydrapulper Screens 21 Selectifier Refiners 6 32 Bauer 442 disc 2 34 S W Jordans 6 Miami 2A 2 Emerson 2 OD Cleaners 8 10 Vortrap Consistency Regulators 4 Bird
Paper Machines B C Seven Cylinder 110 Width 98 Trim 600 fpm
B C Seven Cylinder 120 Width 108 Trim 600 fpm
B C Seven Cylinder 120 Width 108 Trim 400 fpm
Dryers Drums 127 103 and 137 42 dia Reels 3 Autoflyte Winders 3 two drum
Steam/Power Power Boilers 2 Fuel Coal/Gas/Oil team lbs hr 240 000 Press 600 175 psi
ectricity Freq phase 60 3 Generated 6 000 kwh Turbogenerators 2 7500 kw 2000 kw 2 1000 kw diesel generators
Water Treatment Daily Usage 800 M g p d
Source Lake Erie Primary Treatment None
Effluent Treatment Primary Treatment 2 50 Clarifiers Secondary Treatment Municipal Syst
Products Tube and core board linerboard automotive building chip and WP chip filler and partition boards 200 tons daily

Jefferson Smurfit Corp Div of Smurfit Industries Inc (formerly Time Container) 5 W Elm Av 48161
Tel 313 241 7776
RR C&O siding Hwys US Rte = 24 75
Robert H Degraer Vice Pres Gen Mgr
A Bussell Mill Prod Mgr
Edward G Strass Tech Mgr
W Manor Chief Engr
Charles Robertson Ensng Sup
Delbert Broughton Plant Contr
E O Brien Pur Agt
E Flotow Sales Rep
G Scovronski Sales Rep
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 1 Sprout Waldron 2 Emerson Jordans 3 Shartle
Paper Machines Seven Cylinder 124 Width 110 Trim 450 fpm
Dryers Drums 104 Calenders 2 stacks Winders
Finishing Plant Rewinders 2 Trimmers 1
Steam/Power Power Boilers Fuel Gas Oil Steam lbs hr 70 000
Electricity Purchased 00
Water Treatment Daily Usage 750 M g p d
Source River
Effluent Treatment Primary Treatment Joint municipal industrial system
Products Plain chip board and tube board lightweight 35 tons daily

MUNISING

Kimberly-Clark Corp K C Technical Paper & Specialty Product Grp Pineview & Sycamore Sts (PO Box 10) 49862
Tel 906 387 2700
RR LS&I Hwys State Rte = 28 94
Walter S Servia Mill Mgr
E E Estrep Admin Mgr
Daniel F Claus Opers Mgr
R D Pratt Paper Mill Supt
G M Linquist Tech Srvcs Mgr
G C Nelson Engrg Mgr
K Z Livermore Spclties Supt
W G Stangel Mgr Fin Srvcs
R Eugene Heimerman Pur Agt
Paper Mill Stock Preparation Pulpers 4 Screens 2 Refiners 2 Jordans 2
Paper Machines 2 Fourdrinier 136 Width 120' Trim
Coaters off Machine 4 Saturators 5
Finishing Plant Supercalenders 1 94 1 68 Rewinders 5 Sheeters 3 cap 60 tpd Other Eqt 1 Embosser 1 Laminator
Steam/Power Power Boilers 2 Fuel Coal/Wood Waste Oil standby
Water Treatment Daily Usage 5 000 M g p d
Source Lake Superior
Effluent Treatment Primary Treatment Yes
Products Writing map impregnating coating base saturating coated and saturated specialties 98 tons daily

MUSKEGON

S.D Warren Co Div of Scott Paper Co 2400 Lakeshore Dr 49443
Tel 616 755 3761 Telex 510 394-4300
RR C&O siding Hwys US Rte = 16 31 196 State Rte = 46
R Furer Res Mgr
Roy Barry Prod Mgr
Dan Burling Pulp Mill Supt
John E Carlson Mgr Cust Srvc
John S Morar Mgr Srvcs
Dick Matlack Paper Mill Supt
Carl E Kilpatrick Tech Dir
W A Wrase Chief Engr
W LaPierre Ensng/Shpng Supt
William Holtzclaw Pur Agt
Marge Robidoux Traffic Mgr
P Schuiteman Ind Rels Mgr
Woodhandling and Preparation Roundwood Storage Capacity 5 000 cds Chip Storage Capacity 120 000 tons Mobile Equipment Hopto RR crane Poclain crane Flume 1 Log Handling Drag and belt conveyors Chip Handling Rader pneumatic system Sawdust Handling Rader pneumatic system Chip Unloaders Hydraulic truck dumper Barkers 1 30 cds/hr Manitowoc drum Hogs 1 Montgomery Chippers 1 15 knife Carthage Norman Chip Screens 3 Link Belt Avg Daily Use of Peeled Pulpwood 300 cds swd 200 cds hwd
Pulp Mill Kraft Avg Daily Prod Bl Swd 125 tons Bl Hwd 125 tons Continuous Digesters 1 Kamyr Chemical Recovery Plant Evaporators 1 six-effect Swenson Black Liquor Oxidation System Champion system Recovery Boilers 1 C E 750 000 lbs solids day Lime Kilns 1 Dorr Oliver Fluo Solids 70 tpd Gas Scrubbers 1 Lime Mud Washers 1 Dorr Oliver Recausticizing System Dorr Oliver
Bleach Plant Sequence C E H D Towers 4 Mixers 4 Thick Stock Pumps 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters 3 Impco Screens 3 Cowan Cleaners 1 three stage Bauer system Washers 3 9 x 16 Impco vacuum Deckers 2 9 x 16 8 x 8 Impco Other Eqt 6 pre refiners (bleached stock)
Pulp Drying Wet Machines 1 100 tpd Kamyr Cutter Layboys Hamblet Scales 1
Paper Mill Stock Preparation Pulpers 6 Vokes rotor Hydrapulper Screens 2 Selectifiers Refiners 5 Claflin 1 double disc Jordans 4 Shartle Cleaners 2 Centricleaner three stage systems with vacuum reflects Consistency Regulators 14 DeZurik 5 Fox boro Size Cookers 1 continuous 3 batch
Paper Machines Beloit Fourdrinier 163 Width 144 Trim 1100 fpm
Rice Barton Fourdrinier 222 Width 200 Trim 2000 fpm
Dryers Drums 40 and 27 48 55 and 69 60 dia Hi-Velocity 2 Size Presses 2 Calenders 4 Reels 2 Pope Winders 2 two-drum
Coaters On-Machine Trailing Blade 1 163 pud dle 1 222 Invertablade
Finishing Plant Supercalenders 3 100 1 87 1 115 1 80 Roll Wrapping Eqt D J Murray system Rewinders 3 Langston Sheeters 1 Lenox folio 3 100 to 112 Trimmers 3 100 Ream Wrapping & Cartoning Southworth system Strapping Eqt Signode system
Steam/Power Power Boilers 3 Fuel Coal/Oil Steam lbs hr 500 000 Press 500
Electricity Freq phase 60 3 Purchased 3 500 kwh/day Generated 19 000 kwh/day Turbogenerators 3 25 500 kw
Water Treatment Daily Usage 20 000 M g p d
Source Lake Primary Treatment Eimco
Effluent Treatment Primary Treatment County spray irrigation system
Products Machine coated book litho cover and matte coated papers

NILES

French Paper Co 100 French St (PO Box 398) 49120
Tel 616 683 1100
RR ConRail siding Hwys US Rte = 31 12 State Rte = 60 51
J E French Chmn Bd
B R Bigford Pres
Jerry E French Exec Vice Pres Treas
R D Clark Vice Pres Sec
David L Bruce Jr Supt
G Halliwell Chief Engr
Larry C Bristol Sales Srvc
R Etzcorn Pur Agt
Paper Mill Stock Preparation Pulpers 3 Dynapulper 1 Slushmaker Refiners 2 Claflin Jordans 4
Paper Machines B&S Fourdrinier 96 Width 84 Trim
P&J Fourdrinier 118 Width 107 Trim
Dryers Winders 3
Finishing Plant Sheeters 3 Trimmers 2 Other Eqt 2 Embossers
Steam/Power Power Boilers Fuel Coal Press 150
Electricity Freq phase 440v 60 3 Installed H P 1600 electric 1600 water
Water Treatment Daily Usage 800 M g p d
Source Deep wells
Effluent Treatment Primary Treatment Yes Secondary Treatment Yes
Products White and colored offset opaque cover embossing greeting card text and specialty papers 50 tons daily

Simplicity Pattern Co Inc 901 Wayne St 49121
Tel 616 683 4100 Telex 258459
RR ConRail Hwys US Rte = 12 31 State Rte = 60 40
Chuck Dewitt Plant Dir
Tilden Wiest Paper Mill Supt
Tom Detorrest Dir Engrg & Ppr Making
B Smith Plant Engr
K Weinberg Plant Contr
R Stewart Pur Agt
N Wilson Distrib Mgr
S Hart Ind Rels Dir
A Seaman Traf Mgr
Paper Mill Stock Preparation Pulpers 3 Dynapulpers Screens 1 Refiners 4 Jordans 1 Cleaners 5 Consistency Regulators 2 Other Eqt 2 Savealls
Paper Machines Stevens Formers 1 162 wide 150 trim 1000 fpm
Dryers Drums 8 and 12 48 dia Calenders 1 7 roll 1 2 roll Reels 1 Winders 2 Shear Cut
Steam/Power Power Boilers 1 Fuel Gas/Oil Steam lbs hr 35000 Press 100 psi
Electricity Freq phase 60 3 Installed H P 3 264 Purchased 32 000 kwh/day
Water Treatment Daily Usage 1 000 M g p d
Source Wells
Effluent Treatment Primary Treatment Yes
Products Pattern tissue 33 tons interleaving papers 40 tons daily

MHI-00253

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK N Y 10017 212 532 7300
ALL GRADES OF PULP FROM S & WORLDWIDE SOURCES
WOODPULP

ONTONAGON

Stone Container Corp Ctnrbd & Paper Div One Superior Way 49953

Tel 906 884 2021

RR Escanaba & Lake Superior Hwys US Rte # 45 State Rte # 64

Ron Howard Gen Mgr
James Walchuk Tech/Env Mgr
Anthony Granek Paper Mill Mgr
Richard Jacob Pulp/Power Mgr
Michael Peterson Indl Rels Mgr
Robert Boschee Mgr Engrg & Maint
James P Ninefeldt Contr
Robert Schon Pur Agt

Woodhandling and Preparation Chip Storage Capacity 50 000 tons Mobile Equipment 2 Pettibone Cary Lifts 1 Orton rail crane Chip Handling Rader pneumatic Sawdust Handling Rader pneumatic Hogs 1 Jacksonville Blow Hog Chippers Beloit 114 14-knife Rechippers 1 Murray Chip Screens 2 Tyler Avg Daily Use of Peeled Pulpwood Hwd 1 000 tons chips

Pulp Mill Semi Chemical Avg Daily Prod Sodium Carbonate Unbl Hwd 575 tons Continuous Digesters 2 Pandia
Chemical Recovery Plant Evaporators 1 six body four-effect Goslin Zimpro wet air oxidation unit
Pulp Processing Hot Stock Refiners 2 Sprout Waldron Washers 1 Eimco 1 Swenson

Paper Mill Stock Preparation Pulpers 3 Refiners 2 Bolton Emerson 1 Bauer 440 5 Sprout Waldron Screens 2 Bird Centriscreen Cleaners Bauer Centricleaners Consistency Regulators DeZurik
Paper Machines 1 P&J Fourdrinier 177 Width 160 Trim 1500 fpm
1 Black Clawson Fourdrinier 180 Width 162 Trim 1800 fpm
Dryers Drums 120 Calenders 2 Winders 2

Steam/Power Power Boilers 1 2 package Fuel Gas Coal Oil Bark Steam lbs hr 325 000 Press 1500/250/175/70 psi
Electricity Freq phase 60 3 Installed H P 13500 Purchased 50% Generated 50% Turbogenerators 1 GE 15 000 kw

Water Treatment Daily Usage 4 500 M g p d Source Lake Superior Primary Treatment None

Effluent Treatment Primary Treatment 1 Clarifier Secondary Treatment clarifier activated sludge gravity thickener belt filter press

Products Corrugating medium 650 tons daily

OTSEGO

Mead Corp Paperboard Products Div PO Box 187 49078

Tel 616 692 6211 Telex 810 277 7240

RR ConRail siding Hwys Near US Rte # 131 Approx Mi 2 State Rte # 89

L R White Mill Mgr
Donald B Moore Mgr Board Mill
R F Kutscher Mgr Engrg Srvcs
B Cichon Tech Dir
M L Knapp Mgr Power
H J Klein Mgr Supply & Distr
I E Johnson Mgr Shpng & Rcvng
D E Hinga Mill Contr
B Anderson Mgr Chvtg
J J Shipley Human Rsrcs Mgr
R C Powers Prod Control Mgr

Paper Mill Stock Preparation Pulpers 1 3000 lb Morden Slushmaker 3 Hydrapulpers Screens 8 Refiners 2 34 Jones DD 1 Bauer double disc Jordans 4 Cleaners Black Clawson Bird filler 1 asphalt dispersion unit
Paper Machines Eight Cylinder 140 Width 126 Trim
Dryers Drums 163 Calenders 2
Coaters Extrusion Trim Width 1 86 Egan PE extrusion coater

Steam/Power Power Boilers 3 Fuel Coal/Gas/Oil Steam lbs hr 134 000 Press 875/300 psi
Electricity Freq phase 60 3 Installed H P 8000 Purchased 41 000 kwh/day Generated 64 000 kwh/day Turbogenerators 4000 kw Westinghouse 3000 kw Stal Laval

Water Treatment Daily Usage 450 M g p d Source 4 Wells Primary Treatment Chlorination Secondary Treatment Iron stabilization

Effluent Treatment Primary Treatment 2 clarifiers Secondary Treatment 2 stabilization basins 8 aerators

Products Plain and bending chip filled and solid news jute lined woodgrain laminated specialties building polyethylene coated boards 210 tons daily

Menasha Corp Paperboard Mill N Farmer St (PO Box 155) 49078

Tel 616 692 6141

RR ConRail siding Hwys US Rte # 131 State Rte # 89

Bruce T Buchanan Gen Mgr
J Blaukamp Tech Mgr
T Clemmons Plant Engr
M Carlson Prod Mgr
D Hackler Pers Mgr
J Hall Acctg Mgr
Lester Phillips Pur Agt
L Heibel Wdlnds Mgr

Woodhandling and Preparation 2 hydraulic truck dumpers chip thickness screening Avg Daily Use of Peeled Pulpwood 500 green tons purchased chips

Pulp Mill Semi Chemical Avg Daily Prod Unbl Hwd carbonate cook 225 tons Continuous Digesters 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers Dorr Oliver fluid bed incinerator
Pulp Processing Stock Refiners 5 S W primary 3 Bauer 4 S W secondary 2 DKP dewatering presses

Paper Mill Stock Preparation Pulpers Secondary fiber prep 1 14 Hydrapulper 3 HDC s 1 fiberizer 1 Centrisorter 2 stages reverse Krofta cleaners Other Eqt 1 Impco disc filter on white water
Paper Machines 1 Fourdrinier 176 Width 163 Trim 1450 fpm 2 suction presses 54 dryers
1 Fourdrinier 92 Width 80 Trim 800 fpm 2 suction presses 41 dryers
Dryers Drums 95

Steam/Power Power Boilers 4 Fuel Coal Gas Steam lbs hr 240 000 Press 600 psi
Electricity Purchased 8000 kw Generated 4000 kw Turbogenerators 1 4000 kw/kva

Water Treatment Daily Usage 2 200 M g p d Source Wells

Effluent Treatment Secondary Treatment Aeration ponds

Products NSSC corrugating medium 400 tons daily

PALMYRA

Big M Paperboard Inc 6240 E US 223 (PO Box 135) 49268

Tel 517 263 5160

Hwys US Rte # 223

Ken Moran Pres
Merritt Sorensen Vice Pres

Paper Mill Stock Preparation Pulpers 1 10 1 12 1 16 Hydrapulpers Screens 6 P 2 pressure Refiners 2 Bauer disc Jordans 3 Other Eqt 1 1000 gpm and 1 1 500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six Cylinder 80 Width 78 Trim

Steam/Power Power Boilers Fuel Gas Press 150 psi
Electricity Freq phase 60 3 Purchased 100%

Water Treatment Daily Usage 120 M g p d Source River

Effluent Treatment Primary Treatment Yes

Products Chipboard tube and drum stock liner board 70 tons daily

PARCHMENT

★James River Corp, KVP Group Parchment & Paper Divs 100 Island Av 49004

Tel 616 383 5000

Headquarters Location See Executive Offices section for more details

RR ConRail CK & S siding Hwys US Rte # 12 131 I-94 State Rte # 43

Andrew T Muha Vice Pres Gen Mgr Ppr Div
Keith N Bartlam Vice Pres Gen Mgr Prchmt Div
Robert Huiskamp Opers Mgr Ppr
James Cole Opers Mgr
Edward Lynsky Mgr UM&E
James Butler Gen Supt Pprmkg
Lyle Alnick Mgr Mtg Srvcs
Ken Matveia Enviro Dir
Daniel E Conway Mgr Admin
Donald T Carr Ind Rels Mgr
William Roscnek Mgr Sls & Mktg Fine Ppr
Robert Russell Grp Srvcs Mgr

Paper Mill Stock Preparation Pulpers 1-6000 lb 1-2000 lb and 2-4000 lb Morden Slushmakers 1 2500 lb Pulpmaster 1 Barracuda 2 6000 lb and 1-1000 lb Hydrapulpers Beaters 2 2500 lb Vortex 3 2500 lb Horne 2 2000 lb Jones Refiners 5 34 disc (1 800 hp 4 700 hp) Screens Bird Centriscreen Jordans 8 Majestic 17 Fibremaster Other Eqt Secondary Fiber Mill 150 tons daily capacity
Paper Machines Horne Harper Fourdrinier 117 Width 104 Trim 750 fpm
P&J Fourdrinier 163 Width 148 Trim 1100 fpm
B&S Fourdrinier 165 Width 148 Trim 1200 fpm
Beloit Fourdrinier 167 Width 148 Trim 1500 fpm
1 Yankee Fourdrinier 139 Width 126 Trim 1000 fpm
1 Yankee Fourdrinier 139 Width 126 Trim 1350 fpm
Dryers Calenders 10 stacks Size Presses 4
Coaters off Machine Air Knife 1 Blade 2 Solvent 1
Finishing Plant Supercalenders 2 Rewinders 7 Sheeters 2 Trimmers 3 Other Eqt 5 parchmentizing machines 80 and 100 trim

Steam/Power Power Boilers 3 Fuel Gas/Oil Steam lbs hr 400 000

Water Treatment Daily Usage 5 000 M g p d Source Well

Effluent Treatment Primary Treatment Clarifier Secondary Treatment Aeration lagoon

Products Waterleaf vegetable parchment bond greeting card parchment coating base MG and MF waxing MG and MF foil backing MG and MF bag dry waxed dog food liner lightweight coated coated bag fluorochemical treated lightweight publishing NASTA spec book publishing pressure sensitive and hot melt release papers Mill No 1 120 tons daily Mill No 2 280 tons daily

PLAINWELL

Plainwell Paper Co, Inc (Subs of Chesapeake Corp) 200 Allegan St 49080

Tel 616 685 5851 Telex TWX 810 277-4990

RR ConRail siding Hwys US Rte # 131 State Rte # 89

Samuel Taylor Pres
Robert Green Plant Mgr
James Ishmael Dir Mfg
Dick Thomas Mgr Fnshng & Matl Hndlg
Gary N Longworth Mgr Engrg
Robert Tardiff Mgr Pdct Srvs
Kay C Woodruff Supv Testers
Alan K Bruner Supt Distr
Barbara J Bradley Prchsg Agt
Larry Henseler Contr
Leon Formanczyk Mgr nd Rels
George Lawton Dir R&D
Donald Ulsh Sls Mgr Prntg Pprs
William Jones Sls Mgr Tech Pprs
Alison K Knight Cust Srvc Mgr

Paper Mill Stock Preparation Pulpers 1 6000 lb and 1 4000 lb Hydrapulper Refiners 8 double disc Jordans 3 Stock Mixers 3 blend chests
Paper Machines 1 Fourdrinier 112 Width 98 Trim 850 fpm
1 Fourdrinier 135 Width 118 Trim 900 fpm
1 Fourdrinier 135 Width 120 Trim 2000 fpm
Dryers Size Presses 3
Coaters On Machine Trailing Blade 2 120 Capacity 120 tons daily
Finishing Plant Supercalenders 1 65 1 77' 1 126 1 130 Roll Wrapping Eqt 1 automated

MHI-00254

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
BLEACHED KRAFT PULP

line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 130,000. Press.: 265 psi.
Electricity: Freq. phase: 60, 3. Purchased: 160,000 3250,000.
Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.
Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

★**Dunn Paper Co.** Sub. of Dennison Mfg. Co. 218 Riverview St (PO Box 227) 48060
Tel: 313-984-5523 Telex: TWX: 810-231-7053
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: US Rte # I-94.
Roswell E Hubbard, Pres, CEO
Thomas E Gallagher, Exec Vice Pres, COO
James R Scony, Vice Pres, Mfg
Arthur H Hupp, Vice Pres, Tech
Peter R Hoppe, Vice Pres, Admn & Mill Opers
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Mgr, Indl Rels
J David Fleet, Mktg Mgr, OTC/Spclts
Lewis T Johnson, Sales Srvc & Traffic Mgr
Bill Hirons, Machine Supt
Frederick Lange, Machine Supt
Denny Klinkman, Machine Supt
Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans: 2.
Paper Machines. Beloit-Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
Beloit-Yankee Fourdrinier 134" Width 122" Trim 1200 fpm
Allis-Chalmers-Yankee Fourdrinier 150" Width 138" Trim 2000 fpm
Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee: 3 12', 1 18' dia. units. Size Presses: 4. Calenders: 3. Winders: 4..
Coaters. On-Machine. Blade: 3.
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.: 76,000. Press.: 600/200.
Electricity: Freq. phase: 60 3. Generated: 3 gas-fired turbines, rated at 5.8 Mw ISO each; 2 51,000 lbs/hr waste heat recovery boilers.
Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only. 170 tons daily

★**Port Huron Paper Corp.** 1700 Washington Av 48060
Tel: 313-982-0191 Telex: TWX: 810-231-6098
Headquarters Location. See Executive Offices section for more details.
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25.
James W Winn, Pres
E.J. Grys, Vice Pres, Opers
R.P. Cole, Vice Pres, Sales & Mktg
L.J. Mattila, Tech Dir
W.M. Fries, Plant Engr
L.H. Jewell, Sales Mgr, Spclty & Pckgng Pprs
L.E. Rymers, Sales Mgr, Busn Pprs
D.C. Brown, Sales Mgr, Prntg Pprs
C Lewis-Bradley, Mgr, Cust Srvcs
J.R. Beecroft, Mktg Spclst
Paper Mill Stock Preparation: Pulpers: 5. Screens: 6. Refiners: 40. Jordans: 7. Cleaners: 6.
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 116" Trim 1200 fpm
1 Fourdrinier 184" Width 156" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 7 stacks. Winders: 6..
Finishing Plant. Rewinders: 2.
Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 10,000. M.g.p.d. Source: River.
Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, tissue wrapping, grease-resistant, pan liners, twisting, lightweight printing, book, wet strength, and specialties. 235 tons daily.

QUINNESEC

Champion International Corp. PO Box 211, Norway 49870
Tel: 906-779-3270
Hwys: US Rte # 2.
Dan Sachs, Vice Pres, Opers Mgr
Edward Clem, Dir Enviro Affrs
Douglas King, Dir Emply Rels
Woodhandling and Preparation Roundwood Storage Capacity: 8,400 cds. Chip Storage Capacity: 30,000 cds:. Chippers: ebarkers: 2 Murco drum:. Hogs: hippers: 1 Murco:. Hogs: hip Screens: 2 Rotex. 1 scalper.
Pulp Mill Kraft. Avg. Daily Prod.: Bl. Hwd., 825 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel.
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film. Recovery Boilers: 1 B&W, 491,000 lbs steam/hr. Electrostatic Precipitators: 1 Research Cottrell:.
Bleach Plant. Sequence: Cd-EO-D-E-D.
Pulp Processing: Washers: 1 3-drum D-O brown stock. Screens: 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached, 4-stage Noss blchd. Deckers: 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers: 1 240" KMW. Dryers: 1 Flakt air-float. Fourdriniers: 1 224" Lamb.
Steam/Power. Power Boilers: 1 B&W. Steam, lbs hr.: 375,000.
Electricity: Turbogenerators: 1 27 Mw Stal-Laval.
Water Treatment. Daily Usage, 15,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 2 150' Elmco clarifiers. Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering.
Products. Bleached hardwood kraft market pulp. 750 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div. (Subs. of James River Corp.) 340 Mill St 48063
Tel: 313-651-8121
RR: GTW siding. Hwys: US Rte # 10. State Rte # 150.
William M Kirkland, Vice Pres, Gen Mgr
H.L. Westley, Plant Mgr
Carl W Bach Jr, Ppr Mchne Supt
Kris Brady, Cnvtg Supt
Irwin M Hutten, Tech Dir
Anthony Placnta, Plant Engr
Chuck Sorrick, Sales Mgr
Mary Lou Deaton, Cust Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters: 1-1000 lb. Screens: 1 Parker. Jordans: 2 Noble & Wood. 1 Jones Fibremaster.
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses: 1. Calenders: 1 stack..
Coaters. On-Machine. 1-62" roll saturator. 20 tons daily cap.
off Machine. 1-62" roll laminator. 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 1-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Sheridan. Sewing Machines: 1.
Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq. phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 150. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof, creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers. 18 tons daily.

ROCKFORD

RPM Board & Carton Corp. Paper Board Div. 7734 Childsdale Rd 49341
Tel: 616-866-1523
RR: Mich Nthrn. Hwys: Near US Rte # 131 Approx Mi 3.
Les Peck, Mill Mgr
Jim Henderson, Prod Mgr
Paul Brown, Mill Supt
Steven Rokos, Maint Supt
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 68" Trim 315 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters. On-Machine. Air Knife. 1 Waldron Microjet.
Finishing Plant. Trimmers: 2.
Steam/Power. Power Boilers: 1. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq. phase: 60, 3. Installed H.P. 2100 electric. 300 water. Purchased: 1500 kva.
Water Treatment. Daily Usage, 20. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 1 Clarifier with irrigation disposal.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**
Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi-Price Corp.** Building Products Group
Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St. 49097
Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Peter Lowe, Opers Mgr
David De Young, Gen Supt
Adolph Konjeczny, Ppr Mchns Supt
Chester Dobrowolski, Fnshng & Coating Supt
D Weybright, Tech Dir
C Globig, Mgr R&D
Roger Huckendubler, Chief Engr
Chet Dobrowolski, Ctg & Fnshg Supt
Rodger Watson, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Jack Page, Estrn Srvc Mgr
Pulp Mill Rags: Batch Digesters: 2 10,000 lb Rotary. Pulp Processing: Washers: 4 1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb. 2-1000 lb. Bertrams. Screens: 5. Refiners: 2 double disc Morden. Jordans: 5 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers. Drums: 122 Size Presses: 4. Calenders: 3

MHI-00255

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville, MN 55337
Phone 612/431-6336 • Telex 910-576-0234
Cable 'SBS PAPER' USA • WATS 800/328-4018

stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. (Sub. of Shoreham Packaging Group Inc.) 279 Paw Paw Av. 49098

Tel: 616-463-3141 Telex: RCA 272955
RR: C & O siding. Hwys: US Rte = I-94. State Rte = 140.
David D Stiles, Chmn & Pres
John H Carango, Exec Vice Pres, Sec
Milton F Stibal, Vice Pres, Mfg Srvcs
L.B. Dove II, Vice Pres, Fin & Treas
Lemoin M Shadduck, Vice Pres, Engrg
Terry McFall, Vice Pres, Human Rsrcs
Robert L Shive, Prod Mgr
Walter Elliott, Pprmkg Supt
James G Vidt, Dir Matls Mgmt
Marian Ostruszka, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66".
On-Machine.1 128", 1 118" Blade.
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 1 Black Clawson Laminator. 1 62" Embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000. Press.: 235.
Electricity: Installed H.P. 450 water. Purchased: 100%.
Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, foil mounting, rotogravure. 145 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099

Tel: 616-483-7601
RR: ConRail siding. Hwys: US Rte = 12.
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 6. Refiners: 5.
Paper Machines. 1 six-unit Ultraformer, 110" trim..
Dryers. Drums. 41. Calenders: 2..
Coaters, On-Machine. Air Knife, 1-110".
Finishing Plant. Rewinders: 1. Trimmers: 1-85".
Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 180,000. Press.: 500 psi..
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 250. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard, 170 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp, Curtis Paper Div.) 1000 N. Huron St. 48197

Tel: 313-482-2600 Telex: 810-223-7004
RR: ConRail siding. Hwys: US Rte = I-94.
Edward G Gremban, Vice Pres, Gen Mgr
Frank L Wright, Vice Pres Sales
Gerald Linzmeyer, Res Mgr
Dick Franklin, Div Engr
William Turner, Fnshg & Shppg Supt
Jeffrey Brown, Tech Supt
Harold Rhora, Cnvtg & Traf Mgr

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners: 1 Morden. Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm (idle)
Dryers. Drums: 52-36" 132-36". Size Presses: 1. Calenders: 1 stack. Winders: 1..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt.: Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex.
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.
Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River. Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div. Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2
RR: BN siding. Hwys: US Rte = 2,71,371.
Robert W Riley, Vice Pres, Gen Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Gary Wilson, Sales, Traffic Mgr

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 100 cds aspen.
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl. Hwd., 100 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 =185 and 3 =445 Bauer.
Paper Mill Paper Machines. Special machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..
Steam/Power. Power Boilers: 1. Fuel: Bark. Steam, lbs hr.: 14,000. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.
Water Treatment. Source: City.
Products. Standard panel and tempered hardboard (⅛" to ⅝" thickness) and special types, S2S, 100 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401

Tel: 218-828-3200 Telex: 910-561-3508
RR: Burl Nthrn. Hwys: US Rte = 210,371.
Earl J DeRocher, Plant Mgr
Harold R Smith, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Darryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shppg
Charles O Prevost, Mgr Ctg
David E Dinnam, Pur Agt
Terrance M Trettel, Mgr Traffic

Paper Mill Stock Preparation: Pulpers: 1 Morden, 3 Hydrapulpers. Refiners: 3 disc. Jordans: 1.
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 101. Size Presses: 1 112". Calenders: 3..
Coaters, off Machine. 1-112" two-station blade.
On-Machine.1 180" Billblade.
Finishing Plant. Supercalenders: 2-121", 1-80". Rewinders: 5. Sheeters: 7. Trimmers: 4.
Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.: 190,000.
Electricity: Purchased: 140,000 kwh/day. Generated: 50,000 kwh/day.
Water Treatment. Daily Usage, 2,300. M.g.p.d. Source: River. Primary Treatment: Infilco accelerator.
Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier. Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.
Products. Coated offset text and cover (gloss, matte, dull, velvet), 370 tons daily

CLOQUET

Conwed Corp. Arch and C Sts. 55720

Tel: 218-879-2800 Telex: 910-561-2110
RR: Duluth & Nrthwstrn, BN, Milw, siding. Hwys: Near US Rte = 61, IS-35 Approx Mi 3. State Rte = 33,45.
J.W. King, Vice Pres, Mfg Mgr
J.J. Polyner, Mfg Mgr, Board
R.W. Bonren, Mfg Mgr, Blanket

Paper Mill Paper Machines. 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Tufflex Mill C: 1 Former and dryer, 114" width, 100" trim..
Fabrics Mill: 1 Curlator-Rando feeder and webber, impregnator and dryer, 80" trim..
Coaters, On-Machine. Roll, 3 in board mill.
off Machine. 9 Spray and 3 curtain in board mill.
Steam/Power. Power Boilers: Fuel: Coal/Gas/Oil. Press.: 275.
Electricity: Freq, phase: 13,800v, 60, 3. Installed H.P. 34,000. Purchased: 100%.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Board mill: mineral ceiling panels and decorative tile. Tufflex Mill: Homogenous wood fiber cushioning and protective padding. Fabrics Mill: Non-woven fabrics.

★**Potlatch Corp.** Northwest Paper Div. 55720

Tel: 218-879-2300 Telex: 910-561-2113
Headquarters Location. See Executive Offices section for more details.
RR: Burl Nthrn, Duluth & Nrthestrn RR. Hwys: State Rte = 33,45.
Robert V Hershey, Vice Pres, Mfg
Kent K Roberson, Prod Mgr
Glen H Lundin, Supt. No.'s 1, 2, & 3 Ppr Mach
Michael J Paczkowski, Supt. No. 4 Ppr Mach
Lee N Rockham, Mgr Tech Srvc
William H Erickson, Mgr Ctg
Thomas A Biazzo, Mgr Pulp Mfg
Charles D Buscher, Supv. Engrg
Keith L Bing, Mgr, Maint
Robert M Kainu, Mgr Wood Prprtn
James A Nelson, Mgr Fnshg & Shppg
Charles R Williams, Mgr Empl Rels
Donald F Spoor, Pur Agt
Richard J Brenner, Plant Contr

Woodhandling and Preparation Roundwood Storage Capacity: 30,000 cds. Barkers: 1-84' drum. Chippers: 1 120", 12 knife. Chip Screens: 2. Avg. Daily

MHI-00256

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville, MN 55337
Phone 612 431-6336 • Telex 910-576-0234
Cable 'SBS PAPER USA • WATS 800/328-4018

RR: ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec

Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim Dryers. Size Presses: tub..
Finishing Plant. Sheeters: 3. Trimmers: 4.
Steam/Power. Power Boilers: 2. Fuel: Oil.
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 20 tons daily.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20.
Dick Crommett, Mills Mgr
Phillip N Wyman, Supt
Jim Boss, Supt
Bryon Mead, Chem
Ray E Menard, Plant Engr

Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..
Products. Mill No. 1: writing, text, cover, artist's, papeterie papers. Mill No. 2: Rag specialty, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★Simplex Products Group
Headquarters Location. See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Group 416 Ford Ave. 49707
Tel: 517-354-2121
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.
R.G. Brown, Plant Mgr
J.L. Rizzardi, Mgr Maint
D Hanson, Plant Engr
H Skull, Hrdbd Supt
C Smith, Mfg Supt
T.J. Kelly, Mgr Fbrctg & Fnshg
B.H Cummings, Pers Mgr
J.P Kinzler, Plant Contr
A.J. Towlerton, Plant Buyer
J.C. Lamy, Woods Mgr

Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.: 430 tons Batch Digesters: 4 Bauer Rapid-Cycle. Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones repulper Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru
Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt.. 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.. 240,000. Press.: 900/300 psi
Electricity Purchased. 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage, 1,500. M.g.p.d. Source. River. Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.
Products. S1S and S2S hardboard, 425 MMsf annually (450 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707
Tel: 517-354-2131
RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.
Allan M Fletcher, Pres, Treas
Charles S. White, Exec Vice Pres, Gen Mgr
John T Fletcher, Vice Pres.
R. Werner, Sec., Pur. Agt.
Michael J Bekes, Gen Supt
K Byers, Paper Mill Supt.
T Van Massenhove, Chief Engr.
Clifford Crevier, Fnshg Supt.
C Roberts, Traffic Mgr.
Elbert M Heath, Sales Mgr.

Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers. Screens: 2 Selectifier. Refiners: 5 Jones DD. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 750 fpm
1 Fourdrinier 112" Width 100" Trim 1200 fpm
Dryers. Drums: 62. Size Presses: 2. Calenders: 2 stacks. Winders: 2..
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity.
Finishing Plant. Sheeters: 1-67" precision. Trimmers: 3-65", 72", 85".
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 60,000. Press.: 450 psi.
Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Thunder Bay River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: City syst.
Products. Airmail and cotton fibre bond, absorbent, bible, offset, carbonizing, chart, coating base, filter, label, manifold, map, music, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 85 tons daily.

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079
Tel: 616-968-3000 Telex: 223503
RR: ConRail. Hwys: State Rte # 96. Near US Rte # IS-94 Approx Mi 8.
Ken Barker, Pres
Roger Davisson, Exec Vice Pres, Gen Mgr
Hans C Mueller, Sr Vice Pres
John Tailey, Vice Pres, Mktg
Steve R Wilber, Vice Pres, Fin
Robert Pentland, Vice Pres, Mfg
Peter K Gruber, Vice Pres, Engrg
Jim Schwoebel, Vice Pres, Human Rsrcs
Larry M Freed, Mgr, Matl Hndlg & Prchsg
Frank Wojtaseski, Maint Mgr
Kristopher J Blake, Dir, Qlty Control
Mark Battreal, Sales Engr

Pulp Mill Ground Wood, Refiner Avg. Daily Prod.. Thermomechanical: 30 tons Refiners 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper
Paper Machines. 3 molding machines of own design..
Products. Molded wood fiber products for automotive industry

Michigan Paperboard Corp. (Subs. of Field Container Corp.) 79 E Fountain St 49016
Tel: 616-963-4004
RR: ConRail, GTW, siding. Hwys: Near US Rte # I-94, I-69, 3 mi. Near State Rte # 66,37,89, 3 mi.
Terry Tiffany, Gen Mgr
C.J. Lambert, Mfg Mgr
C Tobey, Mfg Supt
Gary McMillan, Plant Engr
John Goll, Qlty Mgr
J.G. McCarthy, Contr
Jack Crabtree, Ind Rels Mgr
John Kneeland, Prchsg Mgr
Douglas Rollenhagen, Mech Buyer

Paper Mill Stock Preparation: Pulpers: 3-4000 lb Morden, 1-14', 1-20' Hydrapulper, 1-3000 lb Refiners: 1 disc. Jordans: 3. Screens. Centrisorter
Paper Machines. Stevens Formers: 1 seven unit 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 60"..
Steam/Power. Power Boilers: 2. Fuel. Gas, Oil Steam, lbs hr.. 80,000.
Products. Combination boxboard, 320 tons daily

Waldorf Corp. 177 Angell St 49016-3433
Tel: 616-693-5511
RR: ConRail, GTW siding. Hwys: US Rte # I-94, I-69 State Rte # 66,37,89.
L.M. Spurgeon, Vice Pres
Jim Adnanson, Mill Supt
Clayton Roberts, Prod Mgr
Mark Shapton, Plant Engr
Paul Stofer, Tech Supt
Mike Minger, Qlty Mgr
L.J. Hanson, Contr
J.A. Matthews, Pur Agt
Tom Thomas, Maint Supt

Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker 3-16' Hydrapulpers;. Screens 8 Centrisorter. Refiners: 4 Sprout Waldron disc. Cleaners: 3 systems.
Paper Machines. 1 six-unit Beloit Bel Bond Former, 146" width, 130" trim, 950 fpm..
Dryers. Drums: 85 60". Calenders: 3 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared. Winders. 1 Beloit..
Coaters. On-Machine. Rice Barton blade, Black Clawson air knife, 300 tpd cap.
Finishing Plant. Sheeters: 1 Clark Aiken.
Steam/Power. Power Boilers. 2. Fuel: Oil/Gas Steam, lbs hr.: 450,000.
Electricity: Purchased. 212,500 kwh/day. Generated: 37,500 kwh/day. Turbogenerators: 1 Elliott, 2000 kw/kva.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 2 flotation clarifiers. Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, bending chip, 300 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S. Main St. 49721
Tel: 616-627-5664
RR: D&M siding. Hwys: US Rte # 27
R.N. Burns, Plant Mgr

Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue

CONSTANTINE

Simplex Products Div. Centreville Rd, E 3rd St 49042
Tel: 616-435-2425 Telex: 510-398-5730
RR: ConRail siding. Hwys: US Rte # 131
Mohamed Fahmy, Plant Mgr
Steve Granam, Mill Supt
Earl Thompson, Maint Supv
Dick Thomas, Cnvtg Supt
Andrew Jiskra, Shppg/Rcvng Supv
Sandy Munson, Office Mgr

Paper Mill Stock Preparation: Pulpers. 2. Screens. 2 Refiners: 4. 1 deflaker. Other Eqt. 1 disc filter
Paper Machines. Seven-Cylinder 112" Width 100" Trim
Dryers. Drums: 4 sets hi-stack..
Finishing Plant Other Eqt.: Laminators. 2.
Steam/Power. Power Boilers: 2 Fuel Gas/Oil Press.: 150
Electricity: Freq, phase: 440 v, 60, 3 Purchased: 100%
Water Treatment. Daily Usage, 70. M.g.p.d. Source: River

MHI-00257

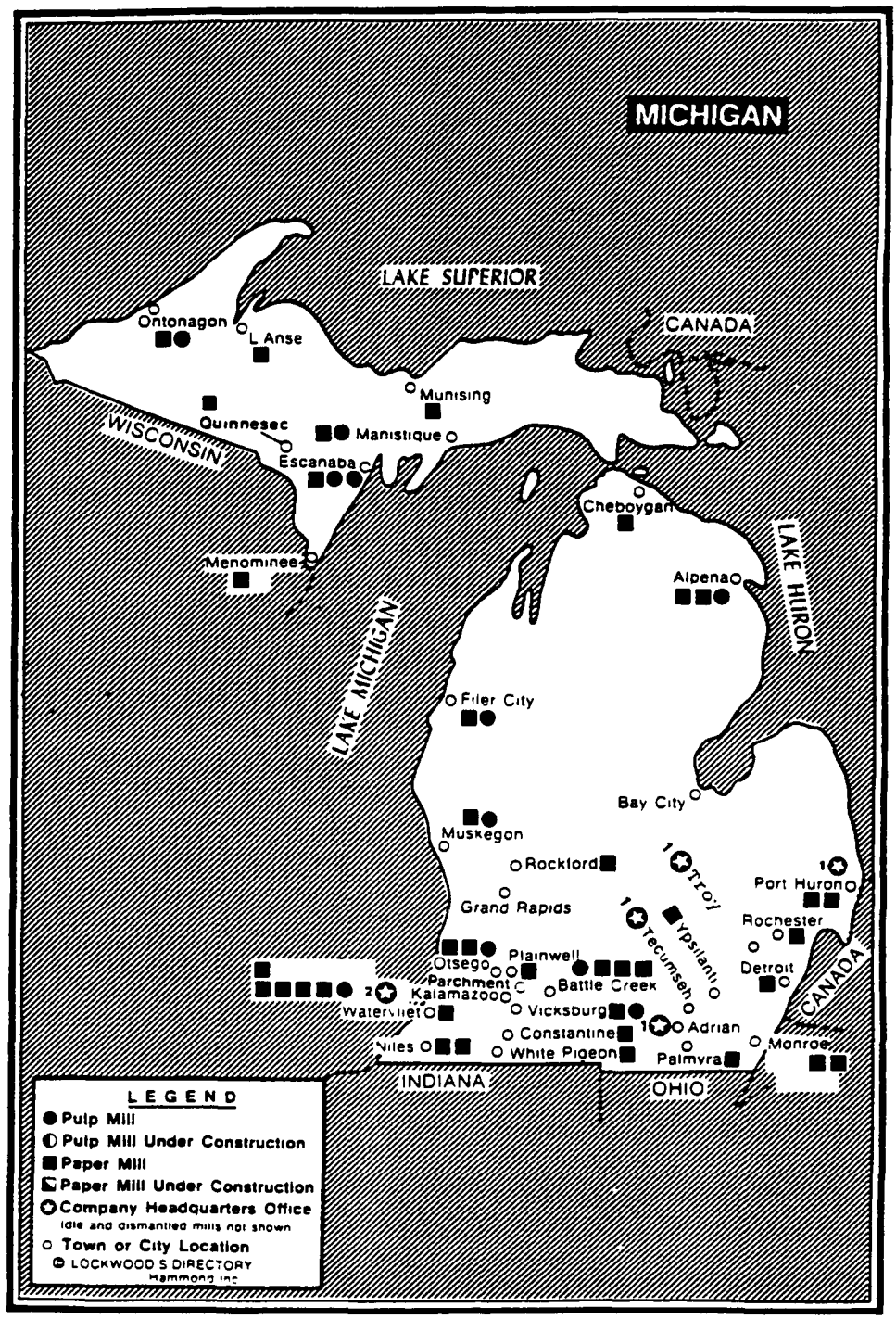
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Chipboard, test liner, 120 tons daily.

ETROIT

rt Huron Paper Corp. 9125 W Jefferson Av 48209
Tel: 313-842-0042 Telex: TWX: 810-2219-428
RR: ConRail siding, Rouge Yard. Hwys: US Rte # IS-75.
Egil R Aschim, Vice Pres, Opers
Dennis Kelly, Prod Supt
Donald Grace, Plant Engr
R.P McConkie, Pers Mgr
Karne Kone, Tech Grp Leader
Roger Schneider, Qlty Assurance Mgr
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 7 double disc, 1 Morden. Jordans: 5.
Paper Machines. 1 Yankee MG. Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 127" Trim
Dryers Yankee: 4..
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil.
Electricity: Generated: 100%.
Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: City System.
Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, coffee filter, ice cream wrapper, film base, gravure printing, interleaving, creping base, 175 tons daily

ESCANABA

Mead Corp. Publishing Paper Div. 49829
Tel: 906-786-1660
RR: C&NW, Soo Line sidings. Hwys: US Rte # 2,41. State Rte # 35.
S.S. Benedict, Pres, Gen Mgr
T.J. Morgan, Vice Pres, Admin
W.R. O'Donnell, Vice Pres, Mktg
Gary Butryn, Vice Pres, Opers Mgr
King, Pulp Mill Supt
G.W Brown, Tech Dir
Kenneth Clark, Mgr Plant Engrg & Maint
G.E. Barnes, Qual Mgr
J.L. Parr Enviro Control Tech Dir
W.H Goode, Util Mgr
J.F. Schneider, Sales Srvc Mgr
J.A. Cole, Contr
Richard E Nelson, Mgr Matls
T.J. Gregoire, Dir Human Rsrcs
R Tompkins, Pub Rels Mgr
Erm Venuto, Gen Mgr, Woodlands
Woodhandling and Preparation Log Handling: Live decks. Chip Handling Rader pneumatic system. Barkers. 2-12' x 80' drum, 1-22" Nicholson hydraulic Hogs: 1 Gruendler bark. Chippers: 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW, 1 Rader.
Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 200 tons Bl Hwd., 400 tons of which 300 tons is Market Pulp Batch Digesters: 6-6,500-cu. ft. each.
Ground Wood, Refiner Avg. Daily Prod.: Bl. Hwd., 200 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-18 disc
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators: 1 Western Precipitation Lime Kilns. 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O. Recausticizing System Dorr-Oliver
Bleach Plant Sequence: Gwd: 1 stage. Kraft: C-E-D-E-D Chlorine Dioxide System: Hooker SVP system
Pulp Processing. Knotters: Gwd: 2 A-C vibrating. Kraft SW Hooper centrifugal Drainers: Gwd: 1 Morden 1'Bauer Helipress. Stock Refiners: Gwd: 2-26" S-W Twin-Flo. Rejects Refiners: Gwd: 1 Bauer Screens: Gwd: 4 primary, 1 secondary Cowan. 2 Bird Centrisorter. Kraft: Bird Centrisorters. Cleaners Gwd: 69-body, 3-stage Bauer 606 Centricleaner Washers: Gwd: 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach. Washers: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½ x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor.
Paper Mill Stock Preparation: Pulpers. 2 Hydrapulpers, 2 continuous Morden. 2 Dynapulpers. 3 Morden broke. Screens: 6 Selectifiers, 2 Centriscreens. Refiners: 7 Claflins, 6 S-W disc, 3 Deflakers (broke). Jordans: 4. Cleaners: 4-stage Bauer Centricleaner-Deculator system.
Paper Machines. P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers. Size Presses: 2. Calenders. 2 stacks. Reels 3 Re-reelers. Winders: 3.
Coaters, off Machine. Trailing Blade. 2-286", 2-172", 1-302" Wartsila double blade for C2S Finishing Plant. Supercalenders. 1 9-roll Bruderhaus, 2-278" 9-roll Appleton. Roll Wrapping Eqt. Lamb-Grays Harbor automatic Rewinders: 1 Lenox, 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters: 3 - Hamblet. Trimmers: 3 Seybold.
Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark Steam, lbs hr.: 1,600,000. Press. 400/1500 Electricity: Freq, phase: 60, 3. Installed H.P 75,000. Hydroelectric: 2,000 kwh/day. Turbogenerators: 48,000 kwh/day
Water Treatment. Daily Usage, 28,000. M.g.p.d



MHI-00258

HOWARD ZUKER ASSOCIATES
875 NORTH MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE: 312/664-5700
THE PAPER TIGERS

Source: Lake Michigan. Primary Treatment: Sand filters
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon. Tertiary Treatment: Clarifier.
Products. Coated book and publication papers, 1305 tons daily. Kraft hardwood market pulp, 300 tons daily

FILER CITY

Packaging Corp. of America 49634
Tel: 616-723-9951
RR: C&O siding. Hwys: US Rte # 31.
F.J. Fragomeli, Vice Pres & Mgr
L.L. Huffman, Prod Mgr
C.F. Mills, Tech Dir
D.J. Elliott, Engrg Mgr
N.D. Sorenson, Fin Mgr
M.R. Mysliwiec, Dir Ind Rels
R.F. Davis, Wdlnds Mgr
Woodhandling and Preparation Roundwood Storage Capacity: 26,000 Cords. Barkers: 1 12'x80' FMP. Chippers: 1 112", 12-knife. Chip Screens: 2 HiCap.
Pulp Mill Semi-Chemical, NSSC. Avg. Daily Prod.: 600 tons Continuous Digesters: 3 Pandia.
Chemical Recovery Plant. Evaporators: 2 multiple-effect. Recovery Boilers: 1 fluidized bed unit.
Pulp Processing: Stock Refiners: 3 American Defibrator. Screens: 2. Washers: 4 Vacuum, 5 screw press.
Paper Mill Stock Preparation: Pulpers: 3. Screens: 3. Refiners: 5 Jones disc, 4 Sutherland Jordans: 7 Miami.
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1200 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 750 fpm
Dryers. Drums: 148-60" dia.
Steam/Power. Power Boilers. 4. Fuel: Oil, Gas, Coal. Steam, lbs hr.: 600,000 Press.. 610.
Electricity: Purchased 25,000 kwh/day. Generated: 475,000 kwh/day. Turbogenerators: 3-21,875 kva total.
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source River, Lake.
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.
Products. Corrugating medium, 720 tons daily.

KALAMAZOO

★**Allied Paper Inc.** Paper Mills Div. (Subs. of Hanson Industries) 2030 Portage St 49001
Tel: 616-345-7131
Headquarters Location See Executive Offices section for more details
RR: ConRail sidings Hwys US Rte # IS 94, 131. State Rte # 43.96
T.E. Flanagan, Vice Pres, Opers
R.W Mirkin, Vice Pres, Sales & Mktg
S Oakleaf, Prod Mgr
G Gerard, Asst Prod Mgr
R Eaton, Engrg, Maint & Util Mgr
E.O Arnold, Supt, Mill C
R Steadmon, Supt, Mill D
D.C Kirk Jr, Tech Dir
G Cairns, Mgr Prod Sched
G F Mahoney, Natl Sales Mgr
J.L Curtis, Mktg Mgr
M Wren Dir Prchsg
Tom Cadwell, Traf Mgr
Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim
Steam/Power. Power Boilers: Fuel Oil/Gas.
Water Treatment. Source River, Wells
Effluent Treatment. Primary Treatment: 2 clarifiers.
Products. Adding machine, bible, bond coated and uncoated book, end leaf foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 240 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Coated two sides matte finish book, 100 tons daily.

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy (PO Box 2738) 49003
Tel: 616-382-2890 Telex: 810-277-2618
RR: ConRail, GTW, siding. Hwys: US Rte # I-94.
Tom Sullivan, Mill Mgr
Larry Pio, Prod Mgr
J Ittner, Tech Dir
Fred J Shelton, Plant Engr
T.W. Young, Plant Contr
F Higdon, Pur Agt
Pulp Mill Deinked Pulp: Avg. Daily Prod.: 200 tons Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd.
Bleach Plant. Sequence: 1 Hypochlorite/Hydrosulphite stage. Towers: 1 downflow.
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb, 6-2500 lb, 2-3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm (idle)
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Rewinders: 2 95".
Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 350,000. Press.: 450/275.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw Turbogenerators: 4.
Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.
Products. Bond, offset, label, postcard, 400 tons daily

★**James River Corp.** Paperboard Packaging Group 243 E. Paterson St. 49007
Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94. State Rte # 43.
Richard M Bennett, Plant Mgr
Bruce Lurvey, Supt, Plt 4
Del Van Bruggen, Supt, Plt 7
Jim Askew, Supt, Plt 14
Robert A Nitz, Tech Dir
Phil Zirngibl, Mgr Engrg, Util, & Cnvtg
Jim Heffner, Sr Proj Mgr
Arthur Thompson, Contr
R Keith Lolley, Empl Rels Mgr
Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke Refiners: 8 Hydrafiner. Screens, 21
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 140" Trim
Coaters, On-Machine.2 Air Knife, 2 Rod.
Extrusion Trim Width, 1-76" double-head Beloit, 1-55" Egan PE coaters.
Finishing Plant. Other Eqt.. 1-76" Waldron, 1-56" Inta-Roto, laminators.
Steam/Power. Power Boilers: 4 Fuel Gas/Oil. Steam, lbs hr . 300,000
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Deep well
Effluent Treatment. Primary Treatment: City syst.
Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 500 tons daily

National Gypsum Co. 2305 E. King Hwy
RR. ConRail siding. Hwys: US Rte # 12
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners. 3 Sprout Waldron
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers Drums 110 Infrared 30 Calenders 1 stack
Finishing Plant. Rewinders 1.
Steam/Power. Power Boilers 2. Fuel Gas/Oil Steam, lbs hr.. 70,000
Electricity: Purchased: 48,000 kwh/day
Water Treatment. Daily Usage, 580 M.g.p.d Source: Wells, City
Effluent Treatment. Primary Treatment: 1 Clarifier
Products. Gypsum board liner, 145 tons daily Mill closed for indefinite period
Paper Mill is Idle.

L'ANSE

Celotex Corp. Sub of Jim Walter Corp. PO Box 86 49946
Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41
L.W. Swanson, Plant Mgr
E.R. Johnson, Gen Supt
R.A. Soli, Plant Contr
B.C. Penokie, Plant Engr
Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper. Consistency Regulators: Brammer type.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater
Steam/Power. Power Boilers: Steam, lbs hr.. 93,000
Electricity: Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay
Products. Mineral board products, perforated and unperforated tile, other interior finish products, 200 tons daily.

MANISTIQUE

Manistique Papers Inc. 453 S Mackinac 49854
Tel: 906-341-2175
RR: Soo Line sidings. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Donald Schnurer, Pur Mgr
Larry Koski, Sales Mgr
Walter Alexander, Treas
Pulp Mill Deinked Pulp: Avg. Daily Prod.: cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim, 4200 fpm..
Dryers Drums 48 60" dia. Calenders: 1. Reels: 1 Winders 1 Beloit.
Steam/Power. Power Boilers: Fuel. Coal. Steam, lbs hr.: 145,000 Press.. 350.
Electricity Purchased: 5000 kwh/day
Water Treatment. Daily Usage, 2,500 M.g.p.d. Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Newsprint, groundwood printing and groundwood converting papers, 250 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Fibre Products Corp) 144 First St (PO Box 300) 49858
Tel: 906-863-5595
RR: C&NW. CMStP&P Hwys. US Rte # 41. State Rte # 173
Donald Estebo Gen Mgr
Julius Nagy, Mgr Ppr Pdcts
Charles Vines, Paper Mill Supt
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Douglas Stemen, Cnvtg Supt
Larry Eggleston, Sales Mgr, Board
Cal Claremont Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr
John R Owens, Bd Cust Srvc Mgr, Sls Rep
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers Refiners 2 Claflin Jordans, 5

MHT-00259

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK N Y 10017 212 532-7300
ALL GRADES OF PULP FROM U S & WORLDWIDE SOURCES
BLEACHED HARDWOOD KRAFT PULP

Paper Machines Black Clawson Fourdrinier 164" Width 154 ' Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant Supercalenders 2 Rewinders 4 Other Eqt Waxers 5
Steam/Power. Power Boilers Fuel Coal Steam, lbs hr 140,000
Electricity Purchased 7,000 kwh/day Generated 4,000 kwh/day Turbogenerators 2
Water Treatment. Daily Usage 5,000 M.g.p.d Source River
Effluent Treatment. Primary Treatment: Yes
Products. Linerboard corrugating medium, tube stock waxing tissue, lightweight MG, 360 tons daily Waxed paper in rolls and sheets

MONROE

Monroe Paper Co. 1220 E Elm Av 48161
Tel 313-241-7700
RR ConRail, Detroit Toledo Shore Line Hwys Near US Rte # I-75 Approx Mi 1 State Rte # 56
Robert J Mitchell Pres, Chf Optg Ofcr
E.D Redman Vice Pres
D Flotow, Mill Mgr
J R VanSlambrouck, Gen Supt
W J Sandretto, Tech Supt, Mill Engr
N.D Lee Jr Dir, Prchsg
Paper Mill Stock Preparation Pulpers 1-15' Apmew Pulper 3-20 and 1-16 Hydrapulper Screens 21 Selectifier Refiners 6-32' Bauer 442 disc, 2-34" S-W Jordans 6 Miami 2A 2 Emerson 2-OD Cleaners 8-10" Vortrap Consistency Regulators 4 Bird
Paper Machines B-C Seven-Cylinder 110" Width 98 Trim 600 fpm
B-C Seven-Cylinder 120' Width 108" Trim 600 fpm
B-C Seven-Cylinder 120' Width 108" Trim 400 fpm
Dryers Drums 127 103 and 137-42" dia Reels 3 Autoflyte Winders 3 two-drum
Steam/Power Power Boilers 2 Fuel Coal/Gas/Oil Steam lbs hr 240,000 Press 600/175 psi
Electricity Freq phase 60 3 Generated 6,000 kwh Turbogenerators 2-7500 kw 2000 kw 2-1000 kw diesel generators
Water Treatment. Daily Usage 800 M g p d Source Lake Erie Primary Treatment None
Effluent Treatment. Primary Treatment 2 50' Clarifiers Secondary Treatment Municipal Syst
Products. Tube and core board, linerboard automotive building chip and WP chip filler and partition boards 200 tons daily

Jefferson Smurfit Corp 1151 W Elm Av 48161
Tel 313-241-7776
RR C&O siding Hwys US Rte = 24 I-75
Robert H Degraer Gen Mgr
D Gray Plant Mgr
A Bussell Mill Prod Mgr
Edward G Strass Tech Mgr
W Manor Chief Engr
Charles Robertson Fnshg Supt
Delbert Broughton Plant Contr
E O'Brien Pur Agt
E Flotow Sales Rep
G Scovronski Sales Rep
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 1 Sprout Waldron, 2 Emerson Jordans 3 Shartle
Paper Machines Seven-Cylinder 124 Width 110" Trim 450 fpm
Dryers Drums 104 Calenders 2 stacks Winders 1
Finishing Plant Rewinders 2 Trimmers 1
Steam/Power Power Boilers Fuel Gas Oil Steam lbs hr 70 000
Electricity Purchased 100%
Water Treatment. Daily Usage 750 M g p d Source River
Effluent Treatment Primary Treatment Joint municipal-industrial system
Products Plain chip can and tube board lightweight chip 135 tons daily

MUNISING

Kimberly-Clark Corp. K-C Technical Paper & Specialty Product Grp Pineview & Sycamore Sts (PO Box 10) 49862
Tel 906-387-2700
RR LS&I Hwys State Rte # 28,94
Walter S Servia, Mill Mgr
E.E Estrep, Admin Mgr
Daniel F Claus, Opers Mgr
R D Pratt, Paper Mill Supt
G M Linquist Tech Srvcs Mgr
G C Nelson, Engrg Mgr
K.Z Livermore Spclties Supt
W G Stangel Mgr Fin Srvcs
R Eugene Heimerman, Pur Agt
Paper Mill Stock Preparation Pulpers 4 Screens, 2. Refiners 2 Jordans 2
Paper Machines 2 Fourdrinier 136" Width 120" Trim
Coaters off Machine 4 Saturators 5
Finishing Plant. Supercalenders 1 94", 1-68" Rewinders 5 Sheeters 3, cap 60 tpd Other Eqt. 1 Embosser 1 Laminator
Steam/Power. Power Boilers 2 Fuel Coal/Wood Waste Oil standby
Water Treatment. Daily Usage 5,000 M.g.p d Source Lake Superior
Effluent Treatment. Primary Treatment Yes
Products. Writing map impregnating, coating base saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. Div of Scott Paper Co 2400 Lakeshore Dr 49443
Tel 616-755-3761 Telex 510-394-4300
RR C&O siding Hwys US Rte # 16,31,196 State Rte # 46
R Furer Res Mgr
Roy, Barry Prod Mgr
Dan Burling, Pulp Mill Supt
John E Carlson Mgr Cust Srvc
John S Moran Mgr Srvcs
Dick Matlack Paper Mill Supt
Carl E Kilpatrick Tech Dir
W A Wrase Chief Engr
W LaPierre, Fnshg/Shpng Supt
William Holtzclaw Pur Agt
Marge Robidoux Traffic Mgr
P Schuiteman Ind Rels Mgr
Woodhandling and Preparation Roundwood Storage Capacity 5 000 cds Chip Storage Capacity 120 000 tons Mobile Equipment Hopto RR crane Poclain crane Flume 1 Log Handling Drag and belt conveyors Chip Handling Rader pneumatic system Sawdust Handling Rader pneumatic system Chip Unloaders Hydraulic truck dumper Barkers 1-30 cds/hr Manitowoc drum Hogs 1 Montgomery Chippers 1 15 knife Carthage Norman Chip Screens 3 Link Belt Avg Daily Use of Peeled Pulpwood 300 cds swd 200 cds hwd
Pulp Mill Kraft Avg Daily Prod Bl Swd 125 tons Bl Hwd 125 tons Continuous Digesters 1 Kamyr Chemical Recovery Plant Evaporators 1 six-effect Swenson Black Liquor Oxidation System Champion system Recovery Boilers 1 C E 750 000 lbs solids/day Lime Kilns 1 Dorr Oliver Fluo-Solids 70 tpd Gas Scrubbers 1 Lime Mud Washers 1 Dorr Oliver Recausticizing System Dorr-Oliver
Bleach Plant Sequence C-E-H-D Towers 4 Mixers 4 Thick Stock Pumps 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters 3 Impco Screens 3 Cowan Cleaners 1 three-stage Bauer system Washers 3-9 x 16 Impco vacuum Deckers 2-9 x 16 8 x 8 Impco Other Eqt 6 pre-refiners (bleached stock)
Pulp Drying Wet Machines 1 100 tpd Kamyr Cutter Layboys Hamblet Scales 1
Paper Mill Stock Preparation Pulpers 6 Vokes rotor Hydrapulper Screens 2 Selectifiers Refiners 5 Claflin 1 double disc Jordans 4 Shartle Cleaners 2 Centricleaner three-stage systems with vacuum rejects Consistency Regulators 14 DeZurik 5 Foxboro Size Cookers 1 continuous 3 batch
Paper Machines Beloit Fourdrinier 163' Width 144' Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200' Trim 2000 fpm
Dryers Drums 40 and 27 48', 55 and 69 60 dia Hi-Velocity 2 Size Presses 2 Calenders 4 Reels 2 Pope Winders 2 two-drum
Coaters On-Machine Trailing Blade 1-163" pud dle 1-222 Invertablade
Finishing Plant. Supercalenders 3-100" 1-87' 1-115 1-80' Roll Wrapping Eqt. D.J Murray system Rewinders 3 Langston Sheeters. 1 Lenox folio 3 100' to 112" Trimmers. 3-100" Ream Wrapping & Cartoning Southworth system Strapping Eqt. Signode system
Steam/Power Power Boilers 3 Fuel Coal/Oil Steam, lbs hr 500 000 Press. 500
Electricity Freq, phase 60 3 Purchased 3,500 kwh/day Generated 19,000 kwh/day Turbogenerators 3-25,500 kw
Water Treatment. Daily Usage, 20,000 M.g.p d Source Lake Primary Treatment Eimco
Effluent Treatment. Primary Treatment: County spray irrigation system
Products. Machine coated book litho, cover and matte coated papers

NILES

French Paper Co 100 French St. (PO Box 398) 49120
Tel 616-683-1100
RR ConRail siding Hwys US Rte # 31,12 State Rte # 60,51
J E French Chmn Bd
B R Bigford Pres
Jerry E French Exec Vice Pres, Treas
R.D Clark Vice Pres Sec
David L Bruce Jr Supt
G Halliwell Chief Engr
Pam Lingle Sales Srvc
R Etzcorn Pur Agt
Paper Mill Stock Preparation Pulpers 3 Dynapulper, 1 Slushmaker Refiners 2 Claflin Jordans. 4
Paper Machines B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 107" Trim
Dryers Winders 3
Finishing Plant Sheeters 3 Trimmers 2 Other Eqt 2 Embossers
Steam/Power Power Boilers Fuel Coal Press 150
Electricity Freq, phase 440v 60, 3 Installed H P 1600 electric 1600 water
Water Treatment. Daily Usage, 800 M g.p d Source Deep wells
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment Yes
Products. White and colored offset, opaque, cover, embossing greeting card text and specialty papers 50 tons daily

Simplicity Pattern Co., Inc 901 Wayne St. 49121
Tel 616-683-4100 Telex 258459
RR ConRail Hwys US Rte # 12,31 State Rte # 60 40
Chuck Dewitt Plant Dir
Tilden Wiest Paper Mill Supt
Tom Deforrest Dir Engrg & Ppr Making
R DeForest Plant Engr
K Weinberg Plant Contr
R Stewart Pur Agt
N Wilson Distrib Mgr
S Hart Ind Rels Dir
A Seaman Traf Mgr
Paper Mill Stock Preparation Pulpers 3 Dynapulpers Screens 1 Refiners 4 Jordans 1 Cleaners 5 Consistency Regulators 2 Other Eqt 2 Saveallis
Paper Machines Stevens Formers 1-162" wide, 150 trim 1000 fpm
Dryers Drums 8 and 12 48" dia Calenders 1 7-roll 1 2 roll Reels 1 Winders 2 Shear-Cut
Steam/Power Power Boilers 1 Fuel Gas/Oil Steam lbs hr 35000 Press 100 psi
Electricity Freq phase 60 3 Installed H P 3,264 Purchased 32 000 kwh/day
Water Treatment. Daily Usage 1,000 M.g.p d Source Wells
Effluent Treatment. Primary Treatment Yes
Products. Pattern tissue 33 tons Interleaving papers 40 tons daily

MHI-00260

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S & WORLDWIDE SOURCES
BLEACHED KRAFT PULP

ONTONAGON

Stone Container Corp. Ctnrbd & Paper Div. One Superior Way 49953

Tel: 906-884-2021

RR: Escanaba & Lake Superior. Hwys: US Rte # 45. State Rte # 64.

Ron Howard, Gen Mgr
James Walchuk, Tech/Env Mgr
Anthony Grahek, Paper Mill Mgr
Richard Jacob, Pulp/Power Mgr
Michael Peterson, Indl Rels Mgr
Robert Boschee, Mgr, Engrg & Maint
James P Ninefeldt, Contr
Robert Schon, Pur Agt

Woodhandling and Preparation Chip Storage Capacity: 50,000 tons. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood: 1,000 tons hwd chips.

Pulp Mill Semi-Chemical, Avg. Daily Prod.: Sodium Carbonate, Unbl Hwd: 575 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant, Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit.
Pulp Processing: Hot Stock Refiners: 2 Sprout Waldron. Washers: 1 Eimco, 1 Swenson.

Paper Mill Stock Preparation: Pulpers: 3. Refiners: 2 Bolton Emerson, 1 Bauer 440, 5 Sprout-Waldron. Screens: 2 Bird Centriscreen Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. 1 P&J Fourdrinier 177" Width 160" Trim 1500 fpm
1 Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums. 120. Calenders: 2 Winders: 2..

Steam/Power. Power Boilers: 1, 2 package. Fuel: Gas, Coal Oil, Bark. Steam, lbs hr.: 325,000. Press.: 1500/250/175/70 psi
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Purchased: 50%. Generated: 50%. Turbogenerators: 1 GE, 15,000 kw.

Water Treatment. Daily Usage, 4,500. M.g.p.d. Source: Lake Superior Primary Treatment: None.

Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: clarifier, activated sludge, gravity thickener, belt filter press.

Products. Corrugating medium, 690 tons daily.

OTSEGO

Mead Corp. Paperboard Products Div 431 Helen Av 49078

Tel: 616-692-6211 Telex. FAX. 616-692-6211, ext. 245

RR: ConRail siding. Hwys Near US Rte # 131 Approx Mi 2. State Rte # 89

R.A. Davis, Mill Mgr
W.J Grilliot, Asst Mill Mgr
M T Watson, Mgr, Board Mill
J.C. Corbett, Mgr, Maint & Engr Srvcs
B.S. Cichon, Tech Dir
M.L. Knapp, Mgr Power
D.B. Moore, Prchsg Mgr
I.E. Johnson, Mgr Mtrl Hndlng
D.E Hinga Mill Contr
R.C. Anderson Mgr, Cnvtg
D Robinson, Human Rsrcs Mgr
R.C Powers, Prod Control Mgr

Paper Mill Stock Preparation Pulpers. 1-3000 lb Morden Slushmaker 3 Hydrapulpers Screens: 8 Refiners. 2 34' Jones DD 1 Bauer double disc. Jordans: 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines Eight-Cylinder 140" Width 126" Trim
Dryers. Drums 163. Calenders: 2.
Coaters. Extrusion Trim Width, 1 86" Egan PE extrusion coater

Steam/Power. Power Boilers 3 Fuel: Coal/Gas/Oil. Steam, lbs hr 134,000. Press.. 875/300 psi
Electricity: Freq, phase: 60,3 Installed H.P 8000. Purchased 41,000 kwh/day Generated: 64,000 kwh/day. Turbogenerators: 4000 kw Westinghouse. 3000 kw Stal Laval.

Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.

Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.

Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily.

Menasha Corp. Paperboard Div. 320 N Farmer St (PO Box 155) 49078

Tel: 616-692-6141

RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.

Bruce T Buchanan, Vice Pres, Gen Mgr
J Bonham, Tech Mgr
T Clemmons, Plant Engr
M Carlson, Prod Mgr
D Hackler, Pers Mgr
J Hall, Acctg Mgr
J Burliegh, Pur Agt
L Heibel, Wdlnds Mgr

Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening. Avg. Daily Use of Peeled Pulpwood: 650 green tons purchased chips

Pulp Mill Semi-Chemical, Avg. Daily Prod.: Unbl. Hwd., carbonate cook: 300 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 4 S-W secondary; 2 DKP dewatering, presses.

Paper Mill Stock Preparation: Pulpers: Secondary fiber prep: 1 14' Hydrapulper, 3 HDC's, 1 fibenzer, 1 Centrisorter, 1 stage reverse Noss and 1 stage reverse Krofta cleaners. Other Eqt.: 1 Impco disc filter on white water
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 2100 fpm, two-nip suction first and blind drilled second press 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Dryers. Drums: 95..

Steam/Power. Power Boilers: 4. Fuel: Coal, Gas. Steam, lbs hr.. 240,000. Press.: 600 psi.
Electricity: Purchased: 8000 kw. Generated: 4000 kw Turbogenerators: 1-4000 kw/kva.

Water Treatment. Daily Usage, 2,200. M.g.p.d. Source Wells

Effluent Treatment. Secondary Treatment: Aeration ponds.

Products. Corrugating medium, 550 tons daily.

PALMYRA

Big M Paperboard Inc. 6240 E US-223 (PO Box 135) 49268

Tel: 517-263-5160

Hwys. US Rte # 223

Ken Moran Pres
Merritt Sorensen, Vice Pres

Paper Mill Stock Preparation: Pulpers 1-10', 1-12', 1-16' Hydrapulpers. Screens: 6 P-12 pressure. Refiners: 2 Bauer disc Jordans. 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power. Power Boilers: Fuel Gas Press.. 150 psi
Electricity Freq, phase. 60, 3 Purchased: 100%

Water Treatment. Daily Usage, 120. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes.

Products. Chipboard, tube and drum stock, linerboard, 70 tons daily.

PARCHMENT

★**James River Corp. KVP/Dunn Paper Div.** Parchment & Paper Divs 100 Island Av 49004

Tel: 616-383-5000

Headquarters Location. See Executive Offices section for more details.

RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94 State Rte # 43.

Andrew T Muha, Vice Pres, Gen Mgr, KVP/Dunn Div
William Roschek, Vice Pres, Sls & Mktg, KVP/Dunn
Keith N Bartlam, Vice Pres, Gen Mgr, Prchmt Div
Robert Huiskamp, Vice Pres, Res Mgr, Ppr Div
Thomas E Gallagher, Vice Pres, One-Time Carbonizing
C Richard Larrick, Opers Mgr
Zigmund J Lebiecki, Mgr, UM&E
James Butler, Gen Supt Pprmkg
Lyle Alnick, Mgr Mfg Srvcs
Victor Ferguson, Enviro Dir
Dennis E Maberry, Mgr Admin
Donald T Carr, Ind Rels Mgr
Robert Russell, Grp Srvcs Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers. Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine. Air Knife. 1. Blade. 3 Solvent: 1.
Finishing Plant. Supercalenders: 2. Rewinders: 7 Sheeters: 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Well

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration lagoon

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily Mill No 2: 280 tons daily.

PLAINWELL

Plainwell Paper Co, Inc. (Subs. of Chesapeake Corp.) 200 Allegan St. 49080

Tel: 616-685-5851 Telex: TWX: 810-277-4990

RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.

Samuel Taylor, Pres
James Ishmael, Vice Pres, Mfg
Larry Henseler, Vice Pres, Fin
Robert Green, Plant Mgr
Dick Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Robert Tardiff, Mgr Pdct Srvs
Kay C Woodruff, Supv, Testers
Alan K Bruner, Supt Distr
Barbara J Bradley, Prchsg Agt
Leon Formanczyk, Mgr Ind Rels
George Lawton, Dir, R&D
F F Walrod, Dir, Mktg
Donald Ulsh, Gen Sales Mgr
Alison K Knight, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper Refiners. 8 double disc. Jordans. 3. Stock Mixers. 3 blend chests.
Paper Machines 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 2000 fpm
Dryers. Size Presses 3.
Coaters, On-Machine. Trailing Blade. 2 120"

MII-00261

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville MN 55337
Phone 612 431-6336 • Telex 910-576-0234
Cable 'SBS PAPER USA • WATS 800 328-4018

Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 1-65", 1-77", 1-126", 1-130" Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 130,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 3250,000.
Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.
Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

Dunn Paper Div of James River Corp, KVP Grp. 218 Riverview St (PO Box 227) 48060
Tel: 313-984-5523 Telex: TWX: 810-231-7053
RR: GTW siding. Hwys: US Rte # I-94.
James R Scohy, Vice Pres, Res Mgr
David Norman, Mill Mgr
Arthur H Hupp, Mgr Tech Opers
Peter R Hoppe, Mgr Fin & Adm
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Mgr, Indl Rels
J David Fleet, Mktg Mgr, OTC/Spclts
Lewis T Johnson, Sales Srvc & Traffic Mgr
Bill Hirons, Machine Supt
Frederick Lange, Machine Supt
Denny Klinkman, Machine Supt
Paper Mill Stock Preparation. Pulpers: 8. Refiners: 14. Jordans: 2
Paper Machines No 1 Beloit Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
No. 2 Beloit Yankee Fourdrinier 134" Width 121" Trim 1200 fpm
No. 3 Allis Chalmers Yankee Fourdrinier 150" Width 134" Trim 2000 fpm
No. 4 Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee. 3 12', 1 18' dia. units. Size Presses 4 Calenders. 3 variable crown. Winders: 4.
Coaters, On-Machine.2 Blade, 1 short-dwell.
Finishing Plant Rewinders: 1.
Steam/Power. Power Boilers: 3 Fuel. Oil/Gas. Steam, lbs hr., 76,000. Press.: 600/200.
Electricity: Freq, phase: 60 3. Generated: 3 gas-fired turbines, rated at 5.8 Mw ISO each; 2 51,000 lbs/hr waste heat recovery boilers.
Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

Port Huron Paper Corp. 1700 Washington Av 48060
Tel 313-982-0191 Telex. TWX 810-231-6098
RR: GTW siding Hwys Near US Rte # I-94 Approx Mi 1 State Rte # 21.25
James W Winn, Pres
Edward J Grys, Vice Pres, Opers
Richard P Cole, Vice Pres, Sales & Mktg
William M Fries, Plant Engr
Lloyd H Jewell, Sales Mgr, Spclty & Pckgng Pprs
Lee E Rymers, Sales Mgr, Busn Pprs
Donald C Brown, Sales Mgr, Prntg Pprs
Celeste Lewis-Bradley, Mgr, Cust Srvcs
John R Beecroft, Mktg Spclst
Paper Mill Stock Preparation Pulpers: 5. Screens: 6 Refiners 40 Jordans 7 Cleaners: 6
Paper Machines Yankee Fourdrinier 126" Width 120" Trim 700 fpm
Yankee Fourdrinier 132" Width 123" Trim 700 fpm
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 116" Trim 1200 fpm
1 Fourdrinier 184" Width 156" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders: 7 stacks. Winders: 6..
Finishing Plant. Rewinders: 2.
Steam/Power. Power Boilers. Steam, lbs hr.: purchased.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 10,000. M.g.p.d. Source: River.
Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, tissue wrapping, grease-resistant, pan liners, twisting, lightweight printing, book, wet strength, and specialties, 235 tons daily.

QUINNESEC

Champion International Corp. PO Box 211, Norway 49870
Tel: 906-779-3200
RR: C&NW. Hwys: US Rte # 2.
Dan Sachs, Vice Pres, Opers Mgr
Edward Clem, Dir Enviro Affrs
Steve Kadden, Mfg Mgr
Bill Stephenson, Process Control Mgr
Martin Edgar, Mtrl Srvcs
Woodhandling and Preparation Roundwood Storage Capacity: 8,400 cds. Chip Storage Capacity: 30,000 cds;. Chippers: ebarkers: 2 Murco drum;. Hogs: hippers: 1 Murco;. Hogs: hip Screens: 2 Rotex, 1 scalper.
Pulp Mill Kraft. Avg. Daily Prod.: Bl Hwd., 825 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel.
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film. Recovery Boilers: 1 B&W, 491,000 lbs steam/hr. Electrostatic Precipitators: 1 Research Cottrell;.
Bleach Plant. Sequence: Cd-EO-D-E-D
Pulp Processing: Washers: 1 3-drum D-O brown stock. Screens: 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached, 4-stage Noss bichd. Deckers: 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers: 1 240" KMW. Dryers: 1 Flakt air-float. Fourdriniers 1 224" Lamb.
Steam/Power. Power Boilers. 1 B&W. Steam, lbs hr.: 375,000.
Electricity: Turbogenerators: 1 27 Mw Stal-Laval.
Water Treatment. Daily Usage, 15,000 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 2 150' Eimco clarifiers. Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering
Products. Bleached hardwood kraft market pulp, 750 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div (Subs. of James River Corp.) 340 Mill St 48063
Tel. 313-651-8121
RR. GTW siding Hwys. US Rte # 10 State Rte # 150.
Stanley S Luczycki, Res Mgr
William M Kirkland, Mfg Mgr
Rick Lapanowski, Ppr Mchne Supt
Dennis Gualdoni, Cnvtg Supt
Kenneth G Roth Tech Dir
Anthony Piachta, Plant Engr
Robert W Murphey, Sales Mgr
Mary Lou Deaton Cust Srvc Mgr
James R McCarthy, Engrg Mgr
Paper Mill Stock Preparation Pulpers 1 Jones Hi-Lo. Beaters 1-1000 lb Screens 1 Parker Jordans. 2 Noble & Wood. 1 Jones Fibremaster
Paper Machines. 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses 1. Calenders 1 stack.
Coaters, On-Machine 1-62' roll saturator, 20 tons daily cap
off Machine 1-62" roll laminator, 12 tons daily cap
Finishing Plant Rewinders: 1-72" Cameron. Sheeters: 1-72", 1-84" Trimmers. 1-50", 1-84". Other Eqt. Punch Presses. 2. Die Cutters. 1-32x60 Sheridan Sewing Machines 1
Steam/Power. Power Boilers Fuel Oil Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Purchased 100%.
Water Treatment. Daily Usage, 150 M.g.p.d Source: Wells.
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. Div. of Midwest Folding Carton, Inc. 7734 Childsdale Rd, NE 49341
Tel: 616-866-3421
Hwys: Near US Rte # 131 Approx Mi 3.
Les Peck, Mill Mgr
Jim Henderson, Prod Mgr
Steven Rokos, Maint Supt
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 69" Trim 315 fpm
Dryers. Drums. 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1 Waldron Microjet.
Finishing Plant. Trimmers: 2.
Steam/Power. Power Boilers: 1. Fuel: Coal. Steam, lbs hr.: 50,000. Press.: 135.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva
Water Treatment. Daily Usage, 20. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TECUMSEH

★**Tecumseh Corrugated Box Co.**
Headquarters Location. See Executive Offices section for more details.

TROY

★**Abitibi-Price Corp.** Building Products Group
Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St. 49097
Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Peter Lowe, Opers Mgr
David De Young, Gen Supt
Adolph Konjeczny, Ppr Mchns Supt
Chester Dobrowolski, Fnshng & Coating Supt
D Weybright, Tech Dir
C Globig, Mgr R&D
Roger Huckendubler, Chief Engr
Chet Dobrowolski, Ctg & Fnshg Supt
Rodger Watson, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Jack Page, Estrn Srvc Mgr
Pulp Mill Rags: Batch Digesters: 2 10,000 lb Rotary. Pulp Processing: Washers 4 1000 lb rag.
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 2-1000 lb. Bertrams. Screens: 5. Refiners: 2 double disc Morden. Jordans: 5 Jones Imperial.
Paper Machines 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers. Drums. 122. Size Presses: 4. Calenders: 3 stacks Winders: 3.
Coaters, off Machine. Air Knife, 1 52", 20 tpd.

MHI-00262

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S & WORLDWIDE SOURCES
BLEACHED HARDWOOD KRAFT PULP

Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters. 3-57", 61", 61". Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers. 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. (Sub. of Shoreham Packaging Group Inc.) 279 Paw Paw Av. 49098
Tel: 616-463-3141 Telex: RCA 272955
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140
David D Stiles, Chmn & Pres
John H Carango, Exec Vice Pres, Sec
L.B. Dove II, Vice Pres, Fin & Treas
Lemoin M Shadduck, Vice Pres, Engrg
Terry McFall, Vice Pres, Human Rsrcs
Steven Bartocci, Pprmkg Supt
Craig Panse, Tech Dir
James G Vidt, Dir Matls Mgmt
Marian Ostruszka, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses. 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
On-Machine 1 128", 1 118" Blade.
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101" Trimmers. 4-85" and 100" Other Eqt.. 1 Black Clawson Laminator. 1 62" Embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr 90,000 Press.. 235
Electricity Installed H.P 450 water Purchased: 100%
Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, foil mounting, rotogravure, 145 tons daily

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel. 616-483-7601
RR: ConRail siding Hwys: US Rte # 12
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation Pulpers. 4 Hydrapulper Screens: 6. Refiners. 5
Paper Machines. 1 six-unit Ultraformer, 110" trim..
Dryers. Drums: 41. Calenders 2 .
Coaters, On-Machine Air Knife and Rod.
Finishing Plant. Rewinders: 1. Trimmers: 1-85"
Steam/Power. Power Boilers: 2 Fuel Oil/Gas. Steam, lbs hr.. 180,000. Press.. 500 psi.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 250 M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard, 170 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp. Curtis Paper Div.) 1000 N. Huron St. 48197
Tel: 313-482-2600 Telex: 810-223-7004
RR: ConRail siding. Hwys: US Rte # I-94.
Edward G Gremban, Vice Pres, Gen Mgr
Gerald Linzmeyer, Res Mgr
Dick Franklin, Div Engr
William Turner, Fnshg & Shppg Supt
Jeffrey Brown, Tech Supt
Harold Rhora, Cnvtg & Traf Mgr
Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper Refiners: 1 Morden, Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm (idle)
Dryers. Drums: 52-36" 132-36". Size Presses: 1. Calenders: 1 stack. Winders: 1.
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning. Hayssen banding unit. Other Eqt.: Embossers: 3. Printer-Embossers: 1. Pasters. 1 duplex
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130
Electricity: Freq. phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.
Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div. Midway Dr (PO Box 518) 56601
Tel. 218-751-5140,1,2
RR BN siding. Hwys US Rte # 2,71,371.
Robert W Riley, Res Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Gary Wilson Sales, Traffic Mgr
Woodhandling and Preparation Barkers 1-21" Manitowoc. Chippers. 1-12' Hansel Avg Daily Use of Peeled Pulpwood Hwd. 100 cds aspen
Pulp Mill Defibrated Wood Pulp Avg Daily Prod Unbl Hwd., 100 tons Continuous Digesters 2 30' Grenco
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer
Paper Mill Paper Machines Special machinery including 49' X 97½" dry forming and pressing equipment, and 2 drying systems.
Steam/Power. Power Boilers 1 Fuel Bark Steam. lbs hr 14 000 Press.. 200
Electricity Freq. phase 440v. 60, 3. Installed H.P 2350 electric Purchased: 30,000 kwh/day
Water Treatment. Source City
Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 100 tons daily

BRAINERD

Potlatch Corp. Northwest Paper Div Mill Av 56401
Tel: 218-828-3200 Telex: 910-561-3508
RR: Burl Nthrn. Hwys: US Rte # 210,371.
Earl J DeRocher, Plant Mgr
Richard L Paulson, Prod Mgr
Thomas J Westerback, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Daryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Empty Rels
Elmer W Walls, Mgr Fnshg & Shppg
Charles O Prevost, Mgr Ctg
David E Dinham, Pur Agt
Terrance M Trettel, Mgr Traffic
Paper Mill Stock Preparation: Pulpers. 1 Morden, 3 Hydrapulpers. Refiners: 3 disc. Jordans: 1.
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers. Drums: 101. Size Presses: 1 112". Calenders: 3..
Coaters, off Machine. 1-112" two-station blade.
On-Machine.1 180" Billblade.
Finishing Plant. Supercalenders: 2-121", 1-80". Rewinders: 5. Sheeters: 4, 3 precision. Trimmers: 2.
Steam/Power. Power Boilers: 3. Fuel: Gas/Coal. Steam, lbs hr.: 190,000
Electricity: Purchased: 140,000 kwh/day. Generated: 50,000 kwh/day.
Water Treatment. Daily Usage, 2,300. M.g.p.d. Source: River. Primary Treatment: Infilco accelerator.
Effluent Treatment. Primary Treatment: 1-90' Belort-Passavant clarifier. Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.
Products. Coated offset text and cover (gloss, matte, dull, velvet), 350 tons daily

CLOQUET

★**Potlatch Corp.** Northwest Paper Div 55720
Tel: 218-879-2300 Telex: 910-561-2113
Headquarters Location. See Executive Offices section for more details.
RR: Burl Nthrn, Duluth & Nrthestrn RR. Hwys: State Rte # 33,45.
Robert V Hershey, Vice Pres, Mfg, Cloquet Unit
Kent K Roberson, Prod Mgr
Thomas J Obeidzinski, Supt, No.'s 1, 2, & 3 Ppr Mach
William F Schroeder, Supt, No 4 Ppr Mach
Michael J Paczkowski, Supt, No. 12 Ppr Mach
Lee N Rockham, Mgr Tech Srvc
William H Erickson, Mgr Ctg
Thomas A Biazzo, Mgr Pulp Mfg
Charles D Buscher, Supv, Engrg
Glen H Lundin, Tech Supv, Ppr Mfg
Raymond E Manisto, Mgr, Maint
Robert M Kainu, Mgr Wood Prprtn
James A Nelson, Mgr Fnshg & Shppg
Charles R Williams, Mgr Empl Rels
Donald F Spoor, Pur Agt
Richard J Brenner, Div Contr
Woodhandling and Preparation Roundwood Storage Capacity: 30,000 cds. Barkers: 1-84' drum. Chippers. 1 120", 12 knife Chip Screens: 2. Avg. Daily Use of Peeled Pulpwood: 190 cds swd, 700 cds hwd.
Pulp Mill Kraft. Avg. Daily Prod.. Bl. Swd., 100 tons Bl Hwd , 420 tons Batch Digesters: 10.
Chemical Recovery Plant. Evaporators: 1 six-effect Unitech with concentrators. 1 Six-effect Swenson. Recovery Boilers: 1 B&W Lime Kilns: 1. Recausticizing System 1
Bleach Plant. Sequence C-E-D-E-D
Pulp Drying: Wet Machines: 1 Impco feltless.
Paper Mill Stock Preparation Pulpers. 4 Hydrapulpers. Refiners. 2 disc Jordans: 9
Paper Machines 1 Fourdrinier 101" Width 86" Trim 860 fpm
1 Fourdrinier 123" Width 107" Trim 950 fpm
1 Fourdrinier 124" Width 107" Trim 950 fpm
1 Fourdrinier 216" Width 192" Trim 1500 fpm
Dryers Size Presses 3.
Coaters, On-Machine.1 200" Billblade
off Machine. Trailing Blade, 1-130"
Finishing Plant Supercalenders: 1 90", 2 130" Rewinders 3 Sheeters 4 Cut-size: 1. Precision: 2. Trimmers. 4
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas-/Oil/Bark Steam lbs hr. 550,000
Electricity Purchased 200,000 kwh/day. Generated: 400,000 kwh/day

MIT-00263

HOWARD ZUKER ASSOCIATES
919 N. MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700
THE PAPER TIGERS

1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 90" Width 78" Trim
Finishing Plant. Supercalenders: 4. Sheeters: 14. Trimmers. 16. Other Eqt.: Air Dryers: 3.

Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papetene, steel plate, patent office board, gravure, 160 tons daily, total of Turner's Falls, Westfield, Woronoco, and Millers Falls mills.

Texon, USA (Div. of Emhart Corp.) Turnpike Indl Park Rd 01085

Tel: 413-562-7611 Telex: 6817393 Cable: Texon
RR. ConRail. Hwys: US Rte # 202. State Rte # 116.

Paper Mill Stock Preparation: Pulpers: 2. Jordans: 3.
Paper Machines. 2 Fourdrinier 84" Width
1 Fourdrinier 64" Width
Rotoformers: 1.

Products. Elastomeric fibre and resin saturated base material

WEST GROTON

Hollingsworth & Vose Co. 01472

Tel· 617-448-3311 Telex: 928459
RR· ConRail siding. Hwys: US Rte # 40. State Rte # 2A.
Valentine Hollingsworth, Mill Mgr
Kenneth Andrews, Gen Supt

Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4 Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 77" Width 72" Trim
Rotoformers 1 120" width, 110" trim.
Finishing Plant Rewinders· 2. Sheeters: 2. Trimmers. 2.

Steam/Power. Power Boilers 3. Fuel: Oil. Press.. 150
Electricity Freq. phase: 60, 3

Water Treatment. Daily Usage, 5,000 M.g.p d. Source· River

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment· Yes.

Products. Industrial specialty, saturating, absorbent, fiberglass automotive and heavy-duty filter, absolute filter non-woven papers, battery separator paper 50 tons daily

WEST SPRINGFIELD

★Preco Corp.

Headquarters Location Sec Executive Offices section for more details

Premoid Div. James River Corp Front St (PO Box 6001) 01090-6001

Tel 413-736-4554 Telex 4976560 FAX. 413-736-6630
RR ConRail siding Hwys US Rte = 20 Near State Rte = Mass Tnpke Approx Mi 4
William Linnell, Res Mgr
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
John Potter, Chief Engr
Mark Korovae, Prchsg Mgr

Paper Mill Stock Preparation Pulpers: 1. Screens 2 Refiners 1. Jordans. 1
Paper Machines 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant Rewinders 1 Sheeters 1 Other Eqt 1-60" two-station roto-gravure printer, 3-60" roll embossers

Water Treatment. Daily Usage, 400. M.g.p.d Source River Primary Treatment· Yes

Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.

Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, special industrial and technical papers, 30 tons daily.

Southworth Co. Front St 01089

Tel: 413-732-5141 Telex: FAX: 413-732-7118
RR: ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec

Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers. Size Presses: tub..
Finishing Plant. Sheeters: 3. Trimmers: 4.

Steam/Power. Power Boilers: 2. Fuel: Oil.

Water Treatment. Source: River.

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 20 tons daily.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111
RR: B&M Hwys: US Rte # 20.
Dick Crommett, Mills Mgr
Phillip N Wyman, Supt
Jim Boss, Supt
Bryon Mead, Chem
Ray E Menard, Plant Engr

Paper Mill Paper Machines. Equipment listed under Westfield, MA mill..

Products. Mill No. 1· writing, text, cover, artist's, papeterie papers Mill No. 2. Rag specialty, bond, writing, text and cover papers, 160 tons daily total

MICHIGAN

ADRIAN

★Simplex Products Group

Headquarters Location See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Div 416 Ford Ave 49707

Tel 517-354-2121 Telex. FAX 517-354-2121. Ext. 2297
RR Detroit & Mackinac Siding. Hwys US Rte = 23 State Rte = 32
R.G. Carovano Plant Mgr
A.J. Nadeau, Sr Maint Mgr
J.L. Rizzardi Maint Mgr
D Hanson, Plant Engr
R.D. Braidwood Hrdbd Supt
H.L. Scull Mfg Supt
T.E Ludwig, Mgr Fbrctg & Fnshg
T.J Kelly, Plant Contr
T P Clark, Plant Buyer
K.C. Nielsen, Woods Mgr

Woodhandling and Preparation Barkers 2 26" mechanical Chippers: 1-96" 12-knife. Avg Daily Use of Peeled Pulpwood· 450 cds (rough basis).

Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.. 400 tons Batch Digesters 4 Bauer Rapid-Cycle.
Pulp Processing: Stock Refiners 9 Bauer disc

Paper Mill Stock Preparation Pulpers. 1 Jones repulper Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt.. 2 20-deck presses. 1 22-deck press

Steam/Power. Power Boilers· 3 Fuel Coal/Wood Waste. Steam, lbs hr.. 240,000 Press 900/300 psi
Electricity· Purchased 100,000 kwh/day Generated: 200,000. Turbogenerators. 1 GE 7500 kva

Water Treatment. Daily Usage, 1,500 M.g.p d Source River Primary Treatment Screening

Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment: Aeration Lagoons Tertiary Treatment: Sludge dewatering and drying

Products. S1S and S2S hardboard, 360 MMsf annually (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St 49707

Tel: 517-354-2131 Telex· FAX. 517-356-6327
RR: D&M siding. Hwys. US Rte # 23. State Rte # 32
Allan M Fletcher, CEO, Treas
Charles S. White, Pres
Paul T Hoelderle, Vice Pres
R. Werner, Sec., Pur. Agt.
Michael J Bekes, Gen Supt
Clifford Crevier, Fnshg Supt.
Rick Sterling, Traffic Mgr
Elbert M Heath, Mgr. Mktg & Sls

Paper Mill Stock Preparation: Pulpers: 1 high-consistency, 3 Hydrapulpers. Screens. 2 Selectifier Refiners: 5 Jones DD. Jordans. 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 1000 fpm
1 Fourdrinier 112" Width 100" Trim 1150 fpm
Dryers. Drums· 62 Size Presses· 2 Calenders. 2 stacks. Winders. 2..
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant. Sheeters. 1-67" precision Trimmers. 2. 65" 85"

Steam/Power. Power Boilers. 2 Fuel. Gas & Oil, Coal. Steam, lbs hr 240,000 Press.· 450 psi
Electricity· Freq. phase 60. 3 Generated. 72,000 kwh/day

Water Treatment. Daily Usage. 1,100. M.g.p.d. Source: Thunder Bay River Primary Treatment: Yes

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Bible, offset, carbonizing, chart, coating base, label, manifold, map, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 85 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079

Tel: 616-968-3000 Telex· 223503
RR ConRail Hwys State Rte # 96. Near US Rte # IS-94 Approx Mi 8.
Ken Barker Pres
Roger Davisson Exec Vice Pres, Opers Mgr
Hans C Mueller, Vice Pres
John Talley, Vice Pres, Sls
Paul W Pope, Vice Pres, Fin
Fred Haberle Vice Pres Mfg
Peter K Gruber Vice Pres, Devl Engrg
Jim Schwoebel, Vice Pres Human Rsrcs
Gary Buckley Vice Pres, Matls
D Charles Delph Vice Pres, Mfg Engrg
Mary Thacker Vice Pres, Qlty Reliability

Pulp Mill Ground Wood, Refiner Avg Daily Prod., Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary

Paper Mill Stock Preparation Pulpers 1 Hydrapulper
Paper Machines 3 molding machines of own design

Products. Molded wood fiber products for automotive interior trim

Michigan Paperboard Co. (Subs of Field Container Corp.) 79 E Fountain St 49016

Tel 616-963-4004
RR. ConRail, GTW siding Hwys Near US Rte = I-94 I-69, 3 mi Near State Rte = 66,37,89, 3 mi
Terry Tiffany Gen Mgr
C J Lambert Mfg Mgr
C Tobey Mfg Supt
Gary McMillan Plant Engr
John Goll, Qlty Mgr
Mark Kohler, Contr

MHI-00264

Jack Crabtree Ind Rels Mgr
John Kneelanc Prchsg Mgr
Jack Roberts Mech Buyer

Paper Mill Stock Preparation Pulpers 3-4000 lb Morden 1 14 1-20 Hydrapulper 1 3000 lb Refiners 1 disc Jordans 3 Screens Centrisorter
Paper Machines Stevens Formers 1 seven unit 120 trim 750 fpm
1 six unit Ultraformer 98 wide 96 trim 450 fpm
Dryers Drums 60

Steam/Power Power Boilers 2 Fuel Gas Oil Steam lbs hr 80 000

Products Combination boxboard 320 tons daily

Waldorf Corp 177 Angell St 49016 3433
Tel 616-963-5511
RR ConRail GTW siding Hwys US Rte # I-94 I-69 State Rte # 66,37 89
L M Spurgeon Vice Pres
Jim Adrianson Mill Supt
Clayton Roberts Prod Mgr
Mark Shapton Plant Engr
Paul Stoter Tech Supt
Mike Minger Qlty Mgr
L J Hanson Contr
J A Matthews Pur Agt
Tom Thomas Maint Supt

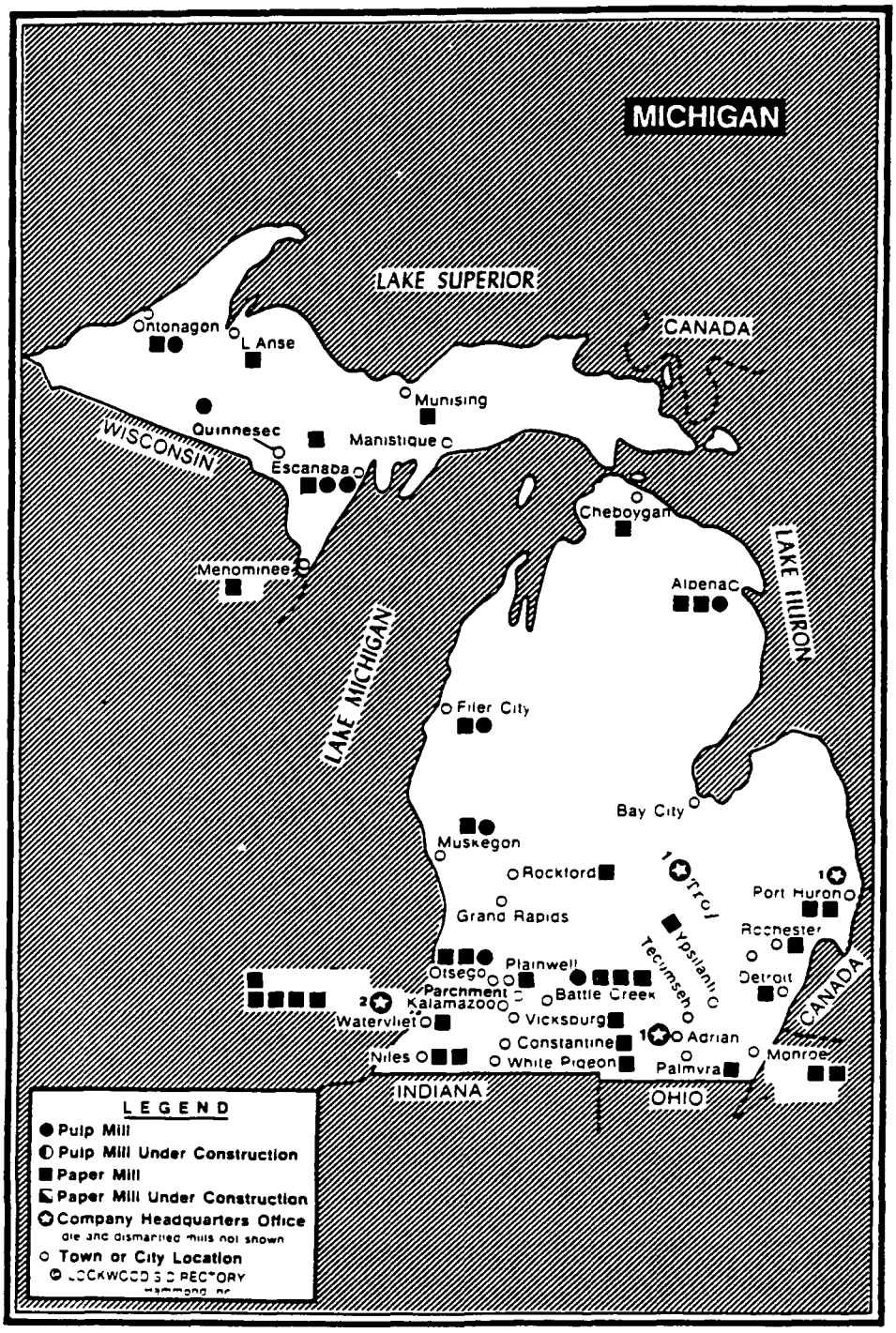
Paper Mill Stock Preparation Pulpers 1-3000 lb Morden Slushmaker 3-16 Hydrapulpers Screens 8 Centrisorter Refiners 4 Sprout Waldron disc Cleaners 3 systems
Paper Machines 1 six-unit Beloit Bel Bond Former 146 width, 130" trim 950 fpm
Dryers Drums 85 60 Calenders 3 stacks 1 breaker stack Hi-Velocity 2 gas infrared Winders 1 Beloit
Coaters On-Machine Rice Barton blade Black Clawson air knife 300 tpd cap
Finishing Plant Sheeters 1 Clark Aiken

Steam/Power Power Boilers 2 Fuel Oil/Gas Steam lbs hr 450,000
Electricity Purchased 212 500 kwh/day Generated 37,500 kwh/day Turbogenerators 1 Elliott 2000 kw/kva

Water Treatment. Daily Usage 2.500 M g p d Source River

Effluent Treatment. Primary Treatment 2 flotation clarifiers Effluent to joint industrial/municipal plant

Products. White clay coated white lined news, bending chip, tube stock 300 tons daily



CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S Main St 49721
Tel 616-627-5664
RR D&M siding Hwys US Rte # 27
R N Burns, Plant Mgr

Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue

CONSTANTINE

Simplex Products Group Centreville Rd E 3rd St 49042
Tel 616-435-2425 Telex 510-398-5730
RR ConRail siding Hwys US Rte # 131
Mohamed Fahmy, Dir Mfg, Nthn Plants
Dick Turvey Mill Supt
Earl Thompson Maint Supv
Andrew Jiskra, Shpng/Rcvng Supv
Sandy Munson, Office Mgr

Paper Mill Stock Preparation Pulpers 2 Screens, 2 Refiners 4 1 deflaker Other Eqt 1 disc filter
Paper Machines Seven-Cylinder 112" Width 100" Trim
Dryers Drums 4 sets hi-stack
Finishing Plant Other Eqt Laminators 2

Steam/Power Power Boilers 2 Fuel Gas/Oil Press 150
Electricity Freq phase 440 v 60 3 Purchased 100%

Water Treatment. Daily Usage 70 M g p d Source River

Effluent Treatment. Primary Treatment None Effluent to municipal plant

Products. Chipboard test liner 150 tons daily

DETROIT

Detroit River Paper Co. (Div of The Kapaco Group Inc) 9125 W Jefferson Av 48209
Tel 313-842-0042 Telex TWX 810-2219-428
RR ConRail siding Rouge Yard Hwys US Rte # IS-75
William Walsh Vice Pres Gen Mgr
Dennis Kelly Prod Mgr
Donald Grace Plant Engr
Louis J Sturm Mchn Mgr
Howard L Hunter Mchn Mgr
R P McConkie Pers Mgr
Karrie Kane Tech Grp Leader
Roger Schneider Qlty Assurance Mgr

Paper Mill Stock Preparation Pulpers 4 Refiners 7 double disc 1 Morden Jordans 5
Paper Machines 1 Yankee MG Fourdrinier 118' Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126 Trim
1 Yankee Fourdrinier 127' Trim
Dryers Yankee 4

Steam/Power Power Boilers 3 Fuel Gas/Oil
Electricity Generated 100%

Water Treatment Daily Usage (n a) M g p d Primary Treatment Yes

Effluent Treatment. Primary Treatment City System

Products. Foil mounting wrapping lightweight specialty papers creped specialties coffee filter ice

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville MN 55337
Phone 612 431-6336 • Telex 910-576-0234
Cable SBS PAPER USA • WATS 800 328-4018

cream wrapper, film base, gravure printing, interleaving, creping base, 175 tons daily

ESCANABA

Mead Corp. Publishing Paper Div 49829
Tel: 906-786-1660
RR: C&NW, Soo Line sidings Hwys: US Rte # 2,41, State Rte # 35
S.S. Benedict, Pres, Gen Mgr
T.J. Morgan, Vice Pres, Admin
W.R. O'Donnell, Vice Pres, Mktg
Gary Butryn, Vice Pres, Opers Mgr
L King, Pulp Mill Supt
G.W. Brown, Tech Dir
Kenneth Clark, Mgr Plant Engrg & Maint
G.E. Barnes, Qual Mgr
J.L. Parr, Enviro Control Tech Dir
W.H. Goode, Util Mgr
J.F. Schneider, Sales Srvc Mgr
J.A. Cole, Contr
Richard E Nelson, Mgr Matls
T.J. Gregoire, Dir Human Rsrcs
R Tompkins, Pub Rels Mgr
Erm Venuto, Gen Mgr, Woodlands
Woodhandling and Preparation Log Handling: Live decks. Chip Handling: Rader pneumatic system Barkers: 2-12' x 80' drum, 1-22" Nicholson hydraulic. Hogs: 1 Gruendler bark. Chippers, 2 15 knife 112" disc, 1 84" Nicholson. Chip Screens: 1 KMW, 1 Rader
Pulp Mill Kraft, Avg. Daily Prod., Bl. Swd., 200 tons Bl. Hwd., 400 tons of which 300 tons is Market Pulp. Batch Digesters: 6-6,500 cu ft. each
Ground Wood, Refiner Avg. Daily Prod., Bl Hwd., 200 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-1B disc
Chemical Recovery Plant, Evaporators 1 6-effect Swenson. Recovery Boilers 1 B&W, 2,400,000 lbs solids/day 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators. 1 Western Precipitation. Lime Kilns. 1 Allis-Chalmers Gas Scrubbers: 1 Ducon on recovery boiler 1 venturi on kiln Lime Mud Washers 1 8'x12' D-O Recausticizing System. Dorr-Oliver
Bleach Plant Sequence Gwd: 1 stage Kraft: C-E-D-E-D Chlorine Dioxide System: Hooker SVP system
Pulp Processing Knotters Gwd. 2 A-C vibrating Kraft. SW Hooper centrifugal. Drainers. Gwd. 1 Morden 1 Bauer Hellpress Stock Refiners Gwd: 2-26" S-W Twin-Flo Rejects Refiners Gwd: 1 Bauer Screens Gwd 4 primary 1 secondary Cowan 2 Bird Centrisorter Kraft Bird Centrisorters Cleaners: Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd: 1-8'x16' Impco bleach. Kraft 3-13½'x24' Impco brown stock, 5-13½ x24' Impco bleach Washers Gwd 7-48"x131" Cowan gravity, 1-12' 16-disc Hymac. Kraft 1-13½'x24' Impco
Pulp Drying: Dryers Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim 1300 fpm, 300 tpd capacity Cutter-Layboys 1 Lamb-Grays Harbor
Paper Mill Stock Preparation Pulpers 2 Hydrapulpers 2 continuous Morden 2 Dynapulpers. 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans 4 Cleaners 4-stage Bauer Centricleaner-Deculator system
Paper Machines P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers, Size Presses 2 Calenders, 2 stacks Reels 3 Re-reelers Winders, 3
Coaters off Machine Trailing Blade 2-286', 2-172" 1-302" Wartsila double blade for C2S
Finishing Plant Supercalenders 1 9-roll Bruderhaus 2-278' 9-roll Appleton Roll Wrapping Eqt. Lamb-Grays Harbor automatic Rewinders 1 Lenox 3-2 drum 156" Cameron 2-MIR - 278" Cameron Sheeters 3 - Hamblet Trimmers, 3 Seybold
Steam/Power. Power Boilers 3 Fuel Oil/Gas/Bark Steam lbs hr 1 600,000 Press 400/1500
Electricity Freq. phase 60 3 Installed H.P 75,000 Hydroelectric, 2,000 kwh/day. Turbogenerators: 48,000 kwh/day.
Water Treatment. Daily Usage, 28,000. M.g.p.d. Source, Lake Michigan. Primary Treatment: Sand filters
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment. Aeration lagoon. Tertiary Treatment: Clarifier.
Products. Coated book and publication papers, 1305 tons daily Kraft hardwood market pulp, 300 tons daily

FILER CITY

Packaging Corp. of America PO Box 316, Manistee 49660
Tel. 616-723-9951 Telex: FAX 616-723-9951, Ext. 395
RR: CSX. Hwys: US Rte # 31.
Fred J Fragomeli, Vice Pres & Mgr
Scott L Gamache, Gen Supt
Carl F Mills, Tech Dir
Richard H Mark, Engrg Mgr
Douglas C Hicks, Fin Mgr
Allen A Gagstetter, Dir, Indl Rels
Beryl G Toler, Wdlnds Mgr
Woodhandling and Preparation Roundwood Storage Capacity 20,000 Cords. Barkers. 1 12'x80' FMP drum. Chippers. 1 112", 12-knife. Chip Screens: 2 HiCap
Pulp Mill Semi-Chemical, Avg. Daily Prod., soda carbonate 600 tons Continuous Digesters. 3 Pandia. Chemical Recovery Plant. Evaporators. 2 multiple-effect Recovery Boilers. 1 fluidized bed unit.
Pulp Processing: Stock Refiners. 3 American Defibrator Washers. 1 vacuum. 6 screw press.
Paper Mill Stock Preparation: Pulpers. 3. Screens: 3. Refiners 4 Jones. 5 Sprout Waldron, disc.
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1400 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 850 fpm
Dryers. Drums. 148-60" dia.
Steam/Power. Power Boilers 4 Fuel. 1 Bark, 1 Gas, 2 Coal. Steam. lbs hr.. 600,000 Press 610 psi Electricity Purchased 305,000 kwh/day Generated 235,000 kwh/day. Turbogenerators: 3-21,875 kva total
Water Treatment. Daily Usage, 20,000 M.g.p.d. Source River, Lake
Effluent Treatment. Primary Treatment. 2 Clarifiers Secondary Treatment Aeration pond
Products. Corrugating medium, 800 tons daily

KALAMAZOO

Allied Paper Inc. Paper Mills Div (Div of Hanson Industries) 2030 Portage St 49001
Tel 616-345-7131
RR ConRail sidings Hwys. US Rte # IS 94, 131 State Rte # 43,96
T E Flanagan Vice Pres Opers
R W Mirkin Vice Pres, Sales & Mktg
S Oakleaf Prod Mgr
G Gerard Asst Prod Mgr
R Eaton Engrg, Maint & Util Mgr
E.O Arnold Supt, Mill C
R Steadmon, Supt Mill D
D.C. Kirk Jr Tech Dir
G Cairns, Mgr Prod Sched
G.F Mahoney, Natl Sales Mgr
J L Curtis Mktg Mgr
M Wren Dir Prchsg
Tom Caowell, Traf Mgr
Darrel Bushhouse Spclty Tech Sls Mgr
Paper Mill Paper Machines 1 Fourdrinier 137" Width 124' Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine C2S Fountain Blade, 126" trim
Steam/Power. Power Boilers Fuel Oil/Gas
Water Treatment. Source River, Wells
Effluent Treatment. Primary Treatment 2 clarifiers
Products. Bible, bond, uncoated book, end leaf foil mounting, gift wrapping, label map, offset, opaque sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 240 tons daily Coated electrostatic base, master and specialites, 75 tons daily

Georgia-Pacific Corp. Kalamazoo Paper Div 2425 King Hwy (PO Box 2738) 49003
Tel: 616-382-2890 Telex: 810-277-2618
RR: ConRail, GTW, siding Hwys: US Rte # I-94
Tom Sullivan, Mill Mgr
Larry Pio, Prod Mgr
J Ittner, Tech Dir
Fred J Shelton, Plant Engr
T.W. Young, Plant Contr
F Higdon, Pur Agt
Pulp Mill Deinked Pulp Avg. Daily Prod.: 200 tons Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd.
Bleach Plant Sequence 1 Hypochlorite/Hydrosulphite stage Towers, 1 downflow
Paper Mill Stock Preparation: Pulpers, 6. Beaters, 4-1500 lb, 6-2500 lb, 2-3500 lb. Refiners: 5
Paper Machines 1 Fourdrinier 142" Width 125" Trim 800 fpm (idle)
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers, Size Presses 3.
Finishing Plant Rewinders, 2 95"
Steam/Power. Power Boilers 4 Fuel: Gas/Oil. Steam, lbs hr, 350,000 Press.: 450/275. Electricity: Freq, phase: 440v, 60, 3 Installed H.P 18,500 electric. Purchased 4,000 kw Generated: 12,000 kw Turbogenerators: 4
Water Treatment. Daily Usage, 8,000 M.g.p.d Source: River
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.
Products. Bond, offset, label, postcard, 400 tons daily

★**James River Corp.** Paperboard Packaging Group 243 E Paterson St. 49007
Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S siding, Hwys: US Rte # 12, 13, I-94 State Rte # 43
Richard M Bennett, Plant Mgr
Bruce Lurvey Supt, Plt 4
Del Van Bruggen, Supt, Plt 7
Robert A Nitz, Tech Dir
Phil Zirngibil, Mgr Engrg, Util, & Cnvtg
Jim Heffner, Sr Proj Mgr
Arthur Thompson Contr
R Keith Lolley Empl Rels Mgr
Paper Mill Stock Preparation: Pulpers 9 Hydrapulpers, 1 Morden Slushmaker Beaters 1 continuous broke Refiners 8 Hydrafiner Screens, 21
Paper Machines Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 140" Trim
Coaters, On-Machine 2 Air Knife, 2 Rod
Extrusion Trim Width, 1-76" double-head Beloit, 1-55" Egan PE coaters
Finishing Plant Other Eqt 1-76" Waldron, 1-56" Inta-Roto laminators
Steam/Power Power Boilers 4 Fuel Gas/Oil. Steam lbs hr 300,000
Water Treatment. Daily Usage, 1,000 M.g.p.d. Source Deep well
Effluent Treatment. Primary Treatment: City syst
Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 500 tons daily.

Nickal Paper Co. (Subs of Nolichucky Industries Corp.) 2305 E King Hwy 49001
Tel 616-343-6669
RR: ConRail siding Hwys US Rte # 12
R A Collins Plant Mgr
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners 3 Sprout Waldron
Paper Machines Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers Drums 110 Infrared 30 Calenders: 1 stack
Finishing Plant Rewinders 1

MHI-00266

HOWARD ZUKER ASSOCIATES
919 N. MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5780
THE PAPER TIGERS

Steam/Power. Power Boilers 2 Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Recycled 69 lb. linerboard, 160 tons daily

L'ANSE

Celotex Corp. Sub. of Jim Walter Corp 49946
Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41.
C.N. Abbott, Plant Mgr
R.G. Niemala, Plant Contr
B.C. Penokie, Plant Engr
Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper. Consistency Regulators: Brammer type.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater.
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.
Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products, 200 tons daily.

MANISTIQUE

Manistique Papers Inc. 453 S Mackinac Av 49854
Tel: 906-341-2175 Telex: FAX 906-341-2175, Ext. 250
RR: Soo Line sidings. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Donald Schnurer, Pur Mgr
Larry Koski, Sales Mgr
Walter Alexander, Treas
Pulp Mill Deinked Pulp Avg. Daily Prod.: cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim, 4200 fpm..
Dryers. Drums: 48 60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit.
Steam/Power. Power Boilers: Fuel. Coal. Steam, lbs hr.. 145,000. Press.. 350
Electricity: Purchased: 5000 kwh/day
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source. River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment Activated sludge system
Products. Newsprint, groundwood printing and groundwood converting papers, 250 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Fibre Products Corp) 144 First St (PO Box 300) 49858-0300
Tel. 906-863-5595
RR C&NW, CMStP&P Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Julius Nagy, Mgr Ppr Pdcts
Charles Vines, Paper Mill Supt
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Douglas Stemen, Cnvtg Supt
Larry Eggleston, Sales Mgr, Board
Cal Claremont, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr
John R Owens, Bd Cust Srvc Mgr, Sls Rep
Mary Ann Hymann, White Ppr Cust Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt.: Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Linerboard, corrugating medium, baking cup stock, tube stock, waxing tissue, lightweight MG, 360 tons daily. Waxed paper in rolls and sheets, 60 tons daily

MONROE

Monroe Paper Co. 1220 E Elm Av 48161
Tel: 313-241-7700
RR: ConRail, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
Robert J Mitchell, Pres, Chf Optg Ofcr
J Baird, Mill Mgr
J.R. VanSlambrouck, Gen Supt
E.D. Flotow, Plant Srvcs Mgr
W.J. Sandretto, Tech Supt, Mill Engr
N.D. Lee Jr, Dir, Prchsg
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 3-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners: 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels. 3 Autoflyte. Winders: 3 two-drum..
Steam/Power. Power Boilers: 2. Fuel: Coal/Gas/Oil. Steam, lbs hr.. 240,000. Press.. 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 6,000 kwh. Turbogenerators: 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily.

Jefferson Smurfit Corp. Industrial Packaging Div 1151 W. Elm Av 48161
Tel: 313-241-7776
RR: C&O siding. Hwys: US Rte # 24, I-75
Robert H Degraer, Gen Mgr
D Gray, Plant Mgr
A Bussell, Mill Prod Mgr
Edward G. Strass, Tech Mgr
W Manor, Chief Engr
Charles Robertson, Fnshg Supt
Delbert Broughton, Plant Contr
E O'Brien, Pur Agt
E Flotow, Sales Rep
G Scovronski, Sales Rep
Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners: 1 Sprout Waldron, 2 Emerson. Jordans. 3 Shartle.
Paper Machines Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums. 104. Calenders: 2 stacks. Winders: 1.
Finishing Plant Rewinders: 2. Trimmers 1.
Steam/Power. Power Boilers. Fuel. Gas. Oil. Steam, lbs hr.. 70,000
Electricity: Purchased. 100%
Water Treatment. Daily Usage. 750 M.g.p.d Source: River
Effluent Treatment. Primary Treatment Joint municipal-industrial system
Products. Plain chip, can and tube board, lightweight chip, 130 tons daily

MUNISING

Kimberly-Clark Corp. Munising Mill E Munising Av 49862
Tel: 906-387-2700
RR: LS&I. Hwys: State Rte # 28,94
Walter S Servia, Mill Mgr
E.E. Estep, Admin Mgr
Daniel F Claus, Opers Mgr
R.D. Pratt, Paper Mill Supt
G Michael Linquist, Pdct & Proc Engrg Mgr
Joseph M Anderson, Mgr Qlty Assrnce
Parker W Gray, Mgr Busn Anlysis
G.C. Nelson, Engrg Mgr
K.Z. Livermore, Spclties Supt
W.G. Stangel, Mgr Fin Srvcs
R Eugene Heimerman, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.
Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior.
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily.

MUSKEGON

S.D. Warren Co. Div. of Scott Paper Co. 2400 Lakeshore Dr. 49443
Tel: 616-755-3761 Telex: 510-394-4300
RR: C&O siding. Hwys. US Rte # 16,31,I96. State Rte # 46.
R Furer, Res Mgr
Norman A Russell, Pulp Mill Supt
John E Carlson, Mgr, Cust Srvc
John S Moran, Chief Engr
Dick Matlack, Paper Mill Supt
Carl E Kilpatrick, Tech Dir
W.A. Wrase, P&P Cnsint
Ray Bickowski, Util Mgr
W.T. LaPierre, Fnshg/Shppg Supt
William Holtzclaw, Pur Agt
Marge Robidoux, Traffic Mgr
P Schuiteman, Ind Rels Mgr
Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane. Flume: 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system Sawdust Handling: Rader pneumatic system. Chip Unloaders. Hydraulic truck dumper. Barkers: 1-30 cds/hr Manitowoc drum. Hogs: 1 Montgomery Chippers: 1 15 knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd
Pulp Mill Kraft. Avg Daily Prod.: Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd Gas Scrubbers. 1. Lime Mud Washers: 1 Dorr-Oliver Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence. C-E-H-D. Towers: 4 Mixers: 4 Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan Cleaners: 1 three-stage Bauer system Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines. 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales, 1.
Paper Mill Stock Preparation Pulpers: 6 Vokes rotor Hydrapulper Screens 2 Selectifiers. Refiners. 5 Claflin, 1 double disc. Jordans. 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators 14 DeZurik, 5 Foxboro Size Cookers: 1 continuous, 3 batch.
Paper Machines Beloit Fourdrinier 163" Width

MHI-00267

RONALD W. SIMPSON
Executive Search for the Pulp, Paper & Gypsum Industries
1590 South Milwaukee Avenue, Suite 228, Libertyville, IL 60048
(312) 816-6767

144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum..
Coaters. On-Machine. Trailing Blade. 1-163" puddle, 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 1 Lenox folio; 3. 100" to 112". Trimmers: 3-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000 Press.: 500.
Electricity: Freq. phase: 60. 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw
Water Treatment. Daily Usage. 20,000. M.g.p.d Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, litho, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120
Tel: 616-683-1100 Telex: FAX: 616-683-3025
RR: ConRail siding Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Chmn Bd
B.R. Bigford, Pres
Jerry E French, Exec Vice Pres, Treas
Jerry Koch, Sec
David L Bruce Jr, Supt
G Halliwell, Chief Engr
Pam Lingle, Sales Srvc
Tom Tokarz, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker Refiners 2 Claflin, Jordans: 4
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 107" Trim
Dryers Winders. 3
Finishing Plant Sheeters. 2. Trimmers. 2 Other Eqt.. 2 Embossers
Steam/Power. Power Boilers. Fuel Coal. Press.. 150.
Electricity: Freq, phase 440v, 60, 3 Installed H P 1600 electric, 1600 water
Water Treatment. Daily Usage. 800. M.g.p.d. Source: Deep wells
Effluent Treatment. Primary Treatment: Yes Secondary Treatment Yes
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 50 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St 49121
Tel: 616-683-4100 Telex 258459
RR ConRail Hwys US Rte = 12,31 State Rte = 60,40
Chuck Dewitt Vice Pres Plt Dir
Tilden Wiest, Paper Mill Supt
Tom Deforrest, Dir Engrg & Ppr Making
R DeForest, Plant Engr
K Weinberg, Plant Contr
R Stewart, Pur Agt
N Wilson, Distrib Mgr
S Hart Ind Rels Dir
A Seaman, Traf Mgr
Paper Mill Stock Preparation Pulpers: 3 Dynapulpers Screens. 1 Refiners 4 Jordans. 1 Cleaners 5 Consistency Regulators 2 Other Eqt 2 Savealls
Paper Machines Stevens Formers 1-162' wide, 150" trim 1000 fpm
Dryers. Drums 8 and 12 - 48" dia Calenders 1 7-roll 1-2 roll Reels 1 Winders. 2 Shear-Cut..
Steam/Power. Power Boilers. 1 Fuel Gas/Oil Steam lbs hr 35000 Press. 100 psi
Electricity Freq phase 60. 3 Installed H P 3,264 Purchased 32 000 kwh/day
Water Treatment. Daily Usage. 1,000 M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons interleaving papers, 40 tons daily

ONTONAGON

Stone Container Corp. Ctnrbd & Paper Div. One Superior Way 49953
Tel: 906-884-2021
RR: Escanaba & Lake Superior. Hwys: US Rte # 45. State Rte # 64.
Ron Howard, Gen Mgr
Robert Boschee, Prod Mgr
J.R. Richardson, Tech/Env Mgr
Anthony Grahek, Paper Mill Mgr
Richard Jacob, Pulp/Power Mgr
Jeff Comer, Emply Rels Mgr
James Walchuk, Mgr, Engrg & Maint
James P Ninefeldt, Contr
Robert Schon, Pur Agt
Woodhandling and Preparation Chip Storage Capacity: 50,000 tons. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood: 1,000 tons hwd chips.
Pulp Mill Semi-Chemical, Avg. Daily Prod.: Sodium Carbonate, Unbl Hwd: 575 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit.
Pulp Processing: Hot Stock-Refiners: 2 Sprout Waldron. Washers: 1 Eimco, 1 Swenson.
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 2 Bolton Emerson, 1 Bauer 440, 5 Sprout-Waldron. Screens: 2 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines 1 P&J Fourdrinier 177" Width 160" Trim 1500 fpm
1 Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120 Calenders: 2 Winders: 2..
Steam/Power. Power Boilers. 1, 2 package. Fuel: Gas, Coal Oil, Bark. Steam, lbs hr.. 325,000 Press.. 1500/250/175/70 psi
Electricity: Freq, phase: 60, 3 Installed H.P. 13500 Purchased 40%. Generated: 60%. Turbogenerators 1 GE, 15,000 kw
Water Treatment. Daily Usage. 4,500 M.g.p.d. Source: Lake Superior Primary Treatment: None
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment clarifier activated sludge, gravity thickener, belt filter press
Products. Corrugating medium, 690 tons daily.

OTSEGO

Menasha Corp. Paperboard Div. 320 N Farmer St (PO Box 155) 49078
Tel 616-692-6141
RR: ConRail siding Hwys US Rte = 131 State Rte = 89
James Porter, Gen Mgr
J Bonham, Engrg & Tech Srvcs Mgr
L Holmes Opers Mgr
T Howard Acctg Mgr
J Burliegh Pur Agt
R Kuipers, Mgmt Forester
Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening Avg Daily Use of Peeled Pulpwood 650 green tons purchased chips
Pulp Mill Semi-Chemical, Avg Daily Prod. Unbl Hwd carbonate cook 310 tons Continuous Digesters 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers Dorr Oliver fluid bed incinerator
Pulp Processing Stock Refiners. 5 S-W primary, 3 Bauer 4 S-W secondary 2 DKP dewatering, presses.
Paper Mill Stock Preparation Pulpers Secondary fiber prep: 1 14' Hydrapulper, 5 HDC's, 1 fibenzer, 1 Centrisorter, 1 stage reverse Noss and 1 stage reverse Krofta cleaners. Other Eqt.. 1 Impco disc filter on white water
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 2150 fpm, two-nip suction first and blind drilled second press, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Steam/Power. Power Boilers: 4. Fuel: Coal, Gas Steam, lbs hr.. 240,000. Press.: 600 psi
Electricity: Purchased 10,000 kw. Generated 4000 kw. Turbogenerators: 1-4000 kw/kva.
Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells.
Effluent Treatment. Secondary Treatment: Aeration ponds.
Products. Corrugating medium, 550 tons daily.

Rock-Tenn Co. Paperboard Products Div. 431 Helen Av 49078
Tel: 616-692-6211 Telex: FAX: 616-692-6581
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
W.J. Grilliot, Mill Mgr
D Goodman, Mgr, Board Mill
J.C. Corbett, Mgr, Maint & Engr Srvcs
B.S. Cichon, Tech Dir
J Santana, Prchsg Mgr
D.E. Hinga, Mill Contr
R.C. Anderson, Mgr, Cnvtg
P O'Brien, Human Rsrcs Mgr
R.C. Powers, Prod Control Mgr
J Klein, Salesman
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4. Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums: 163. Calenders. 2..
Coaters. Extrusion. Trim Width, 1 86" Egan PE extrusion coater
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press.: 875/300 psi
Electricity: Freq, phase. 60,3. Installed H.P 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day. Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily.

PALMYRA

Big M Paperboard Inc. (Subs of Paperboard Industries Corp) 6240 E US-223 (PO Box 135) 49268
Tel: 517-263-5160 Telex: FAX. 517-265-3604
Hwys. US Rte # 223.
Merritt Sorensen, Vice Pres
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers Screens: 6 P-12 pressure. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers: Fuel Gas. Press . 150 psi
Electricity: Freq, phase 60, 3 Purchased 100%.
Water Treatment. Daily Usage, 120. M.g.p.d. Source River
Effluent Treatment. Primary Treatment Yes
Products. Chipboard, tube and drum stock, linerboard, 70 tons daily

PARCHMENT

★**James River Corp, KVP/Dunn Paper Div.** Parchment & Paper Divs 100 Island Av 49004
Tel 616-383-5000
Headquarters Location. See Executive Offices section for more details
RR ConRail, CK & S. siding Hwys: US Rte = 12,

MHI-00268

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville MN 55337
Phone 612 431-6336 • Telex 910-576-0234
Cable SBS PAPER USA • WATS 800 328-4018

131, I-94 State Rte # 43.
Andrew T Muha, Vice Pres, Gen Mgr, KVP/Dunn Div
William Roschek, Vice Pres, Sls & Mktg, KVP/Dunn
Keith N Bartlam, Vice Pres, Gen Mgr, Prchmt Div
Robert Huiskamp, Vice Pres, Res Mgr, Ppr Div
Thomas E Gallagher, Vice Pres, One-Time Carbonizing
C Richard Larrick, Opers Mgr
Zigmund J Lebiecki, Mgr, UM&E
James Butler, Gen Supt Pprmkg
Lyle Alrick, Mgr Mfg Srvcs
Victor Ferguson, Enviro Dir
Dennis E Maberry, Mgr Admin
Donald T Carr, Ind Rels Mgr
Robert Russell, Grp Srvcs Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders: 10 stacks. Size Presses: 4.
Coaters, off Machine. Air Knife. 1. Blade. 3 Solvent: 1
Finishing Plant. Supercalenders: 2. Rewinders. 7. Sheeters. 2 Trimmers. 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Steam/Power. Power Boilers. 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Well

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers Mill No 1: 120 tons daily, Mill No 2 280 tons daily

PLAINWELL

Plainwell Paper Co, Inc. • 200 Allegan St 49080

Tel 616-685-5851 Telex: TWX 810-277-4990
RR ConRail siding Hwys US Rte # 131 State Rte # 89
Robert Green Plant Mgr
Bryce Seidl Opers Mgr
Richard J Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Robert Tardiff, Mgr Qlty Conformance
John E Laughlin, Prod Supt
Kay C Woodruff, Supv, Testers
Gordon L Peterson, Mchn Supt
Alan K Bruner, Supt Distr
Barbara J Bradley, Prchsg Agt
Leon Formanczyk, Mgr Ind Rels
George Lawton, Tech Dir
James R Allen, Tech Supt
F F Walrod, Dir, Mktg
Donald Ulsh, Gen Sales Mgr
Alison K Knight, Cust Srvc Mgr
Harry D Cook, Mgr Pdct Devl
Harold L Jackson, Mgr New Pdct Sls
Henrietta Kaye, Compt

Paper Mill Stock Preparation Pulpers 1-6000 lb and 1-4000 lb Hydrapulper Refiners. 8 double disc Jordans. 3. Stock Mixers 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 2000 fpm
Dryers. Size Presses: 3..
Coaters, On-Machine. Trailing Blade. 2 120" Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 1-65", 1-77", 1-126", 1-130" Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 130,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 3250,000

Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

Dunn Paper Div. of James River Corp, KVP Grp. 218 Riverview St (PO Box 227) 48061-0227

Tel: 313-984-5523 Telex: TWX: 810-231-7053
RR: GTW siding. Hwys: US Rte # IS-94, IS-69.
James R Scohy, Vice Pres, Res Mgr
David Norman, Prod Mgr
Arthur H Hupp, Mgr Tech Opers
Peter R Hoppe, Mgr Fin & Adm
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Mgr, Indl Rels
Gerry Knowles, Mchne Supt, 2 & 3 PM
Denny Klinkman, Machine Supt, 1 & 4 PM

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans. 2
Paper Machines. No. 1 Beloit Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
No. 2 Beloit Yankee Fourdrinier 134" Width 121" Trim 1200 fpm
No 3 Allis Chalmers Yankee Fourdrinier 150" Width 134" Trim 2000 fpm
No 4 Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee: 3 12', 1 18' dia. units Size Presses. 4. Calenders. 3 variable crown. Winders: 4..
Coaters, On-Machine.2 Blade: 1 two-stream, 1 short-dwell.
Finishing Plant. Rewinders. 1

Steam/Power. Power Boilers 3 Fuel: Oil/Gas. Steam, lbs hr. 76,000 Press.. 600/200
Electricity Freq, phase: 60 3. Generated. 3 gas-fired turbines, rated at 5.8 Mw ISO each, 2 51,000 lbs/hr waste heat recovery boilers.

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

E.B. Eddy Paper Inc. (Affl of E.B Eddy Forest Products Ltd) 1700 Washington Av 48060

Tel 313-982-0191 Telex TWX 810-231-6098 Cable: FAX 313-982-7124
RR: GTW siding Hwys: Near US Rte # I-94 Approx Mi 1 State Rte # 21.25
William F Fredericks, Dir Opers
Larry J Janousek, Dir Mfg Srvcs
William M Fries, Dir Engrg & Capital Proj
C Dale Hoy Sec, Contr
Leonard E Schuster, Tech Mgr
Gary W Foster Engrg Mgr
Frank M Worden, Util Supt
Samuel J Porter, Maint Supt
Aris E Modon, Dir Human Rsrcs
Celeste Lewis-Bradley, Mgr Prod Cntrl
Robert L Andrews, Mgr Credit & Insrnc

Paper Mill Stock Preparation Pulpers: 5 Screens: 6 Refiners 40 Jordans 7 Cleaners 6
Paper Machines Yankee Fourdrinier 126" Width 120" Trim 700 fpm (idle)
Yankee Fourdrinier 132" Width 123" Trim 700 fpm (idle)
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 116" Trim 1200 fpm
1 Fourdrinier 184" Width 156" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83 Yankee 4 Size Presses: 5 Calenders: 7 stacks Winders. 6.
Finishing Plant Rewinders 1

Steam/Power. Power Boilers Steam, lbs hr.. purchased
Electricity: Purchased: 80%

Water Treatment. Daily Usage, 7,000 M.g.p.d. Source: St. Clair River

Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, grease-resistant, pan liners, lightweight printing, book, wet strength, and specialties, 250 tons daily

QUINNESEC

Champion International PO Box 211, Norway 49870

Tel: 906-779-3200 Telex: 234273
RR: C&NW. Hwys: US Rte # 2.
F.D. Owenby, Vice Pres, Opers Mgr
Rick Difono, Dir Enviro Affrs
Steve Hadden, Maint & Engrg Mgr
Bill Stephenson, Process Control Mgr
Martin Edgar, Cmmnty Affrs Mgr
George Curran, Matl Srvcs Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 8,400 cds. Chip Storage Capacity: 30,000 cds:. Chippers: ebarkers. 2 Murco drum:. Hogs: hippers: 1 Murco.. Hogs: hip Screens: 2 Rotex. 1 scalper.

Pulp Mill Kraft Avg. Daily Prod.: 81 Hwd., 825 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters. 1 Kamyr vapor phase, two-vessel
Chemical Recovery Plant, Evaporators: 1 five-effect Rosenblad falling film Recovery Boilers 1 B&W, 491,000 lbs steam/hr. Electrostatic Precipitators: 1 Research Cottrell..
Bleach Plant. Sequence. Cd-EO-D-E-D
Pulp Processing: Washers: 1 3-drum D-O brown stock. Screens. 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached, 4-stage Noss bldhd. Deckers: 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers 1 240" KMW Dryers: 1 Flakt air-float. Fourdriniers: 1 224" Lamb.

Steam/Power. Power Boilers: 1 B&W. Steam, lbs hr.: 375,000
Electricity: Turbogenerators: 1 27 Mw Stal-Laval

Water Treatment. Daily Usage, 15,000 M.g.p.d Source: River

Effluent Treatment. Primary Treatment: 2 150' Elmco clarifiers. Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering

Products. Bleached hardwood kraft market pulp, 750 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div (Subs of James River Corp.) 340 Mill St 48063

Tel. 313-651-8121
RR: GTW siding Hwys. US Rte # 10. State Rte # 150
Stanley S Luczycki Res Mgr
William M Kirkland, Mfg Mgr
Rick Lapanowski Ppr Mchne Supt
Rich Rowe, Ppr Mill Mgr
Dennis Gualdoni, Cnvtg Supt
Kenneth G Roth, Tech Dir
Anthony Plachta, Plant Engr
John Evans Sales Mgr
John Vens, Cust Srvc Mgr
James R McCarthy, Engrg Mgr

Paper Mill Stock Preparation Pulpers. 1 Jones Hi-Lo Beaters: 1-1000 lb Screens 1 Parker Jordans 2 Noble & Wood. 1 Jones Fibremaster
Paper Machines 1 Fourdrinier 66" Width 62" Trim Dryers Size Presses 1 Calenders: 1 stack
Coaters, On-Machine 1-62" roll saturator. 20 tons daily cap
off Machine 1-62" roll laminator 12 tons daily cap
Finishing Plant Rewinders 1-72" Cameron Sheeters 1-72", 1-84" Trimmers 1-50", 1-84" Other Eqt. Punch Presses. 2 Die Cutters: 1-32x60 Sheridan Sewing Machines: 1

Steam/Power. Power Boilers Fuel Oil Press 100 psi
Electricity Freq, phase 60, 3 Purchased 100%

MIT-00269

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
EXPORT WOODPULP

Water Treatment. Daily Usage. 150 M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. Div of Midwest Folding Carton, Inc. 7734 Childsdale Rd. NE 49341
Tel: 616-866-3421
Hwys: Near US Rte # 131 Approx Mi 3.
Les Peck, Mill Mgr
Jim Henderson, Prod Mgr
Steven Rokos, Maint Supt
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: B-C Liquid Cyclone. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 69" Trim 315 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters. On-Machine Air Knife. 1 Waldron Microjet.
Finishing Plant. Trimmers: 2.
Steam/Power. Power Boilers. 1. Fuel: Coal. Steam, lbs hr.: 50,000. Press. 135.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water. Purchased: 1500 kva.
Water Treatment. Daily Usage. 20. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TROY

★**Abitibi-Price Corp.** Building Products Div
Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St (PO Box 157) 49097
Tel: 616-649-0510 Telex: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, I-194 Approx Mi 6.
Peter Lowe, Opers Mgr
Dallas Weybright, Gen Supt
Harold Noel, Ppr Mchns Supt
Gary Vandlen, Fnshng & Coating Supt
Michael Herbert, Tech Dir
C Globig, Mgr R&D
Bruce Block, Chief Engr
Rodger Watson, Plant Contr
Tim Moore Pur Mgr
Ronald G Markan, Pers Dir
Don Nay Estrn Sls Mgr
Jack Page, Estrn Srvc Mgr
Pulp Processing. Washers: 4 1000 lb rag
Paper Mill Stock Preparation: Pulpers, 3 Jones Pulpmaster Beaters 2-1500 lb, 2-1000 lb Bertrams. Screens 5 Refiners 2 double disc Morden. Jordans. 5 Jones Imperial
Paper Machines 1 Fourdrinier 121" Width 107" Trim 300 fpm
1 Fourdrinier 132" Width 116" Trim 500 fpm
1 Fourdrinier 134" Width 119" Trim 600 fpm
Dryers Drums: 122 Size Presses 4. Calenders 3 stacks Winders 3
Coaters, off Machine. Air Knife 1 52", 20 tpd
Finishing Plant. Supercalenders 2-56" 1-48" Rewinders 6 Sheeters 3-57", 61", 61" Trimmers: 3-66", 75", 110"
Steam/Power. Power Boilers 2. Fuel: Gas/Oil. Steam, lbs hr: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage. 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover; chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papeterie, safety, photo mount, photographic base, rag translucent, tracing, reproduction, decorative laminating and overlay, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co Inc. (Subs. of Shoreham Packaging Group Inc.) 279 Paw Paw Av. 49098
Tel: 616-463-3141 Telex: RCA 272955 Cable: FAX: 616-463-3141
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140.
David D Stiles, Chmn & Pres
John H Carango, Exec Vice Pres, Sec
L.B. Dove II, Vice Pres, Fin & Treas
Lemoin M Shadduck, Vice Pres, Engrg
Terry McFall, Vice Pres, Human Rsrcs
Steven Bartocci, Pprmkg Supt
Craig Panse, Tech Dir
James G Vidt, Dir Matls Mgmt
Marian Ostruszka, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses. 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
On-Machine.1 128", 1 118" Blade.
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders. 2. Sheeters: 4-76" to 101" Trimmers: 4-85" and 100" Other Eqt. 1 Black Clawson Laminator. 1 62" Embosser
Steam/Power. Power Boilers: 3. Fuel. Coal. Steam, lbs hr. 90,000. Press.: 235.
Electricity: Installed H.P 450 water. Purchased: 100%.
Water Treatment. Daily Usage. 1,200 M.g.p.d Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, foil mounting, rotogravure. 160 tons daily

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601
RR. ConRail siding Hwys US Rte # 12
James V LaMarre Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation Pulpers 4 Hydrapulper Screens 6 Refiners: 5
Paper Machines 1 six-unit Ultraformer, 110" trim.
Dryers Drums: 41. Calenders 2.
Coaters, On-Machine. Air Knife and Rod.
Finishing Plant Rewinders: 1 Trimmers: 1-85"
Steam/Power. Power Boilers 2 Fuel Oil/Gas. Steam, lbs hr.: 180,000 Press.. 500 psi
Electricity Purchased. 100%
Water Treatment. Daily Usage. 250. M.g.p.d Source: River
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard. 180 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp, Curtis Paper Div.) 1000 N. Huron St. 48197
Tel: 313-482-2600 Telex: 810-223-7004
RR: ConRail siding Hwys: US Rte # I-94.
Edward G Gremban, Vice Pres, Gen Mgr
Gerald Linzmeyer, Div Enviro Mgr
Dick Franklin, Div Engr
Pat Theut, Mgr, Papermaking
Harold Rhora, Cnvtg & Traf Mgr
Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refipers: 1 Morden. Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm (idle)
Dryers. Drums: 52-36" 132-36". Size Presses: 1. Calenders: 1 stack. Winders: 1..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt.: Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex.
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P 1200. Purchased: 25000 kwh/day
Water Treatment. Daily Usage. 500. M.g.p.d. Source: Wells, River. Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601
Tel: 218-751-5140,1,2
RR: BN siding Hwys: US Rte # 2,71,371
Robert W Riley, Res Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Gary Wilson, Sales, Traffic Mgr
Woodhandling and Preparation Barkers 1-21" Manitowoc Chippers: 1-12' Hansel Avg. Daily Use of Peeled Pulpwood. Hwd. 100 cds aspen.
Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.: Unbl Hwd., 100 tons Continuous Digesters: 2 30' Grenco
Pulp Processing: Stock Refiners. 1 #185 and 3 #445 Bauer
Paper Mill Paper Machines Hardboard machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..
Steam/Power. Power Boilers: 1. Fuel: Bark Steam, lbs hr 14,000 Press.. 200
Electricity: Freq, phase. 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.
Water Treatment. Source. City
Products. Standard panel and tempered hardboard (¼" to ⅜" thickness) and special types, S2S, 100 tons daily

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401
Tel: 218-828-3200 Telex. 910-561-3508 Cable: FAX. 218-828-3283
RR: Burl Nthrn Hwys: US Rte # 210,371.
Earl J DeRocher, Vice Pres, Mfg
Richard L Paulson, Prod Mgr
Thomas J Westerback, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Daryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shppg

MHI-00270

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville, MN 55337
Phone 612/431-6336 • Telex 910-576-0234
Cable SBS PAPER USA • WATS 800/328-4018

lustration papers

WESTFIELD

★**Strathmore Paper Co.** S Broad St 01085

Tel: 413-568-9111 Fax: 95-5442 TWX: 710-350-1384

Headquarters Location. See Executive Offices section for more details.

Stuart Miller, Plant Supt
James E Pendergast, Plant Engr

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 21. Cleaners: 65 Dirtec, Bauer.

Paper Machines. 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 67" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 86" Width 74" Trim
1 Fourdrinier 87" Width 75" Trim
1 Fourdrinier 90" Width 79" Trim
1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 90" Width 78" Trim

Finishing Plant. Supercalenders: 4. Sheeters: 14. Trimmers: 16. Other Eqt.: Air Dryers: 3.

Products. Bond, writing, vellum, bristol, wedding, typewriter, manuscript cover, text, box cover, drawing, jeweler's bristol, papeterie, steel plate, patent office board, gravure. 160 tons daily, total of Turner's Falls, Westfield, Woronoco, and Millers Falls mills

Texon, Inc. (Div. of Emhart Corp.) Turnpike Indl Park Rd 01085

Tel: 413-562-7611 Tlx: 6817393 Cable: Texon

RR: ConRail. Hwys: US Rte # 202. State Rte # 116.

Paper Mill Stock Preparation: Pulpers: 2. Jordans: 3.

Paper Machines 2 Fourdrinier 84" Width
1 Fourdrinier 64" Width
Rotoformers. 1

Products. Elastomeric fibre and resin saturated base material

WEST GROTON

Hollingsworth & Vose Co. 01472

Tel: 508-448-3311 Tlx. 928459

RR ConRail siding. Hwys: US Rte # 40. State Rte # 2A

Kenneth Andrews Mill Mgr
Kenneth Gargan, Gen Supt

Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners. Bauer Centricleaners.

Paper Machines. 1 Fourdrinier 77" Width 72" Trim
Rotoformers. 1 120" width, 110" trim.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers. 2

Steam/Power. Power Boilers. 3. Fuel: Oil Press.: 150
Electricity Freq, phase: 60, 3

Water Treatment. Daily Usage. 5,000. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment Yes

Products. Industrial specialty, saturating, absorbent, fiberglass automotive and heavy-duty filter, absolute filter non-woven papers, battery separator paper, 50 tons daily

WEST SPRINGFIELD

★**Preco Corp.**

Headquarters Location See Executive Offices section for more details.

Premoid Div. James River Corp Front St (PO Box 6001) 01090-6001

Tel 413-736-4554 Fax: 413-736-6630 Tlx: 4976560

RR ConRail siding Hwys US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4.

William S Linnell, Vice Pres, Gen Mgr
Joseph A Cancelliere, Vice Pres, Ctd Pdcts
Franklin B Comery, Vice Pres, Sales
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
John Potter, Chief Engr
Mark Korovae, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers: 1. Screens: 2. Refiners: 1. Jordans: 1.

Paper Machines. 1 Fourdrinier 72" Width 60" Trim
Coaters, off Machine. 1-60" reverse roll, 1-60" knife, 1-60" impregnator.
Finishing Plant. Rewinders: 1. Sheeters: 1. Other Eqt.: 1-60" two-station roto-gravure printer, 3-60" roll embossers.

Water Treatment. Daily Usage, 400. M.g.p.d. Source: River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.

Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, special industrial and technical papers, 30 tons daily.

Southworth Co. Front St 01089

Tel: 413-732-5141 Fax: 413-732-7118

RR: ConRail siding. Hwys: US Rte # 91,20.

John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec

Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2.

Paper Machines. 1 Fourdrinier 85" Width 70" Trim
Dryers. Size Presses: tub..
Finishing Plant. Sheeters: 3. Trimmers: 4.

Steam/Power. Power Boilers: 2. Fuel: Oil.

Water Treatment. Source: River

Effluent Treatment. Primary Treatment: Effluent to municipal system.

Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers, 20 tons daily.

WORONOCO

Strathmore Paper Co. 01097

Tel: 413-568-9111

RR: B&M. Hwys US Rte # 20.

Dick Crommett, Mills Mgr
E.J. Smith, Supt
Jim Boss, Supt
Bryon Mead, Chem

Paper Mill Paper Machines. Equipment listed under Westfield, MA mill.

Products. Mill No. 1: writing, text, cover, artist's, papeterie papers Mill No. 2 Rag specialty, bond, writing, text and cover papers, 160 tons daily total

MICHIGAN

ADRIAN

★**Simplex Products Group**

Headquarters Location See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Div. 416 Ford Ave 49707

Tel 517-354-2121 Fax: 517-354-2121, Ext. 2297

RR Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.

R.G. Carovano, Mgr Hrdbd Opers
T.E Ludwig, Maint Mgr
D.E Hanson Opers Mgr
B.H. Cummings, Indl Rels Mgr
H.L. Scull, Mfg Mgr
T.R. Boerst, Mgr, Fbrctg
T.P Clark, Plant Contr
A.J. Towlerton, Plant Buyer
K.C. Nielsen, Wds/Engrg Mgr

Woodhandling and Preparation Barkers. 2 26" mechanical. Chippers: 1-96" 12-knife Avg Daily Use of Peeled Pulpwood. 450 cds (rough basis).

Pulp Mill Defibrated Wood Pulp. Avg Daily Prod 400 tons Batch Digesters. 4 Bauer Rapid-Cycle. Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation: Pulpers. 1 Jones repulper. Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru.

Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant Other Eqt.: 2 20-deck presses, 1 22-deck press

Steam/Power. Power Boilers. 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.

Water Treatment. Daily Usage, 1,500. M.g.p.d. Source: River. Primary Treatment: Screening.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.

Products. S1S and S2S hardboard, 360 MMsf annually (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707

Tel: 517-354-2131 Fax: 517-356-6327

RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.

Allan M Fletcher, Chmn, Treas
Paul T Hoelderle, Pres
R.F. Werner, Sec, Pur Agt
J.P. Maley III, Ppr Mill Mgr
Michael J Bekes, Opers Mgr
Rick Sterling, Traffic Mgr
Elbert M Heath, Mgr, Mktg & Sls

Chemical Recovery Plant. Tall Oil Plant: llen.

Paper Mill Stock Preparation: Pulpers: 1 high-consistency, 3 Hydrapulpers. Screens. 2 Selectifier Refiners: 5 Jones DD. Jordans: 3 Jones.

Paper Machines. 1 Fourdrinier 112" Width 100" Trim 1000 fpm
1 Fourdrinier 112" Width 100" Trim 1150 fpm
Dryers. Drums: 62. Size Presses. 2. Calenders: 2 stacks. Winders: 2.
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity.
Finishing Plant. Sheeters. 1-67" precision. Trimmers: 2, 65" 85"

Steam/Power. Power Boilers: 2. Fuel: Gas & Oil, Coal. Steam, lbs hr.: 140,000. Press.: 450 psi.
Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day.

Water Treatment. Daily Usage, 1,100. M.g.p.d. Source: Thunder Bay River Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Bible, offset, carbonizing, chart, coating base, label, manifold, map, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers, 85 tons daily.

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079

Tel: 616-968-3000 Tlx 223503

RR: ConRail Hwys: State Rte # 96 Near US Rte # IS-94 Approx Mi 8.

Ken Barker Pres
Roger Davisson, Exec Vice Pres, Opers Mgr
Hans C Mueller, Vice Pres
John Talley, Vice Pres, Sls
Paul W Pope, Vice Pres, Fin
Fred Haberle, Vice Pres, Mfg
Peter K Gruber, Vice Pres, Devl Engrg
Jim Schwoebel, Vice Pres, Human Rsrcs
Gary Buckley, Vice Pres, Matls
D Charles Delph, Vice Pres, Mfg Engrg
Mary Thacker, Vice Pres, Qlty Reliability

Pulp Mill Ground Wood, Refiner Avg Daily Prod.. Thermomechanical 30 tons Refiners: 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary

Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper

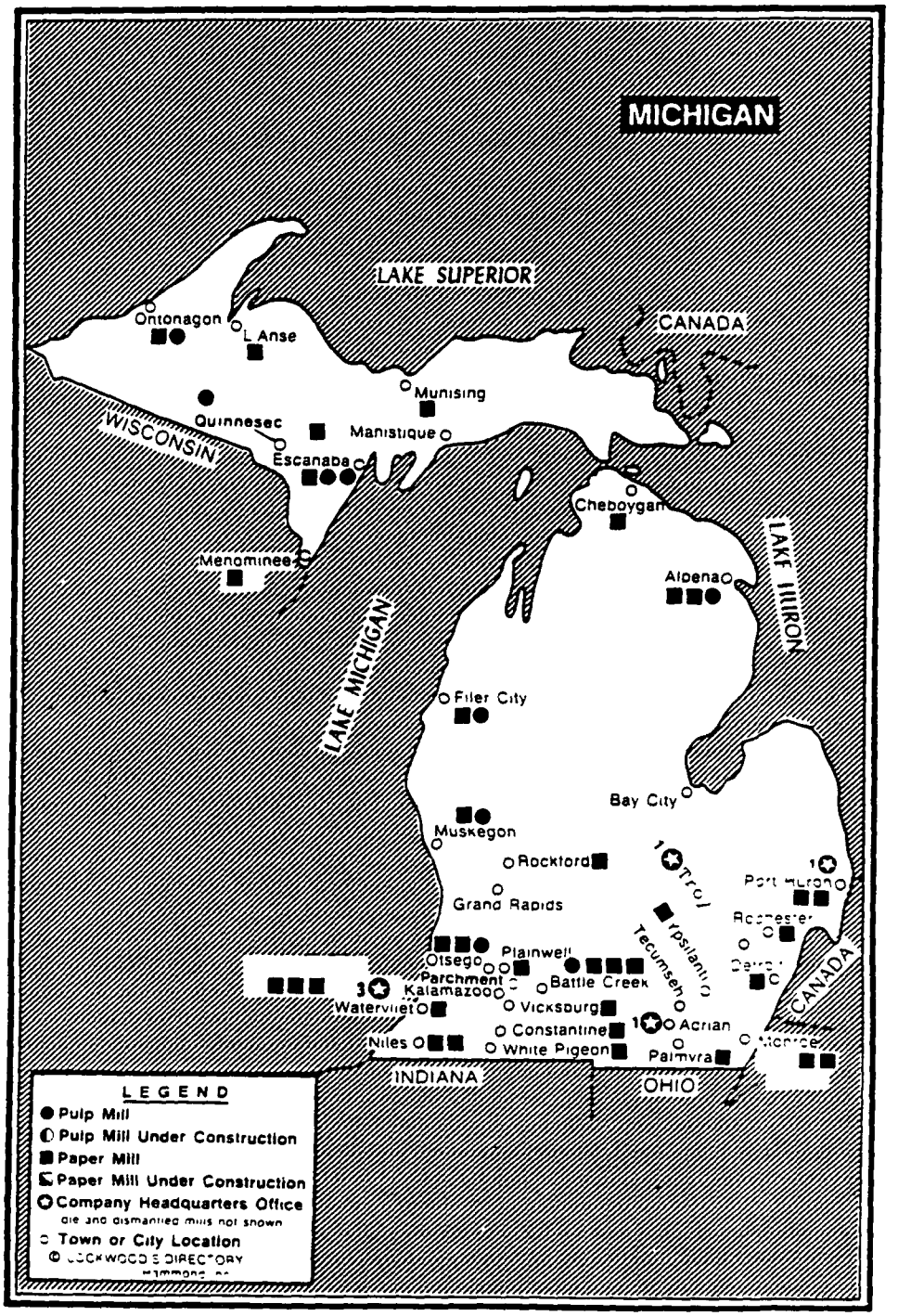
Paper Machines 3 molding machines of own de-

MHI-00271

sign
Products. Molded wood fiber products for automotive interior trim

Michigan Paperboard Co. (Subs of Field Container Corp.) 79 E Fountain St 49016
Tel 616-963-4004
RR ConRail, GTW, siding Hwys Near US Rte # I-94, I-69, 3 mi Near State Rte # 66,37,89, 3 mi
Terry Tiffany Pres
C.J Lambert Mfg Mgr
C Topey Mfg Supt
Gary McMillan, Plant Engr
John Goll, Qlty Mgr
Joseph McCarthy, Contr
Jack Crabtree, Ind Rels Mgr
John Kneeland, Prchsg Mgr
Jack Roberts, Mech Buyer
Paper Mill Stock Preparation Pulpers 3-4000 lb Morden, 1-14', 1-20 Hydrapulper 1-3000 lb Refiners, 1 disc Jordans, 3 Screens Centrisorter
Paper Machines, Stevens Formers 1 seven unit, 120" trim, 750 fpm
1 six-unit Ultraformer, 98" wide, 96" trim 450 fpm
Dryers Drums 60"
Steam/Power. Power Boilers 2 Fuel Gas Oil Steam, lbs hr.: 80,000
Products. Combination boxboard 320 tons daily

Waldorf Corp. 177 Angell St 49016-3433
Tel. 616-963-5511 Fax. 616-963-5511 Ext. 298
RR. ConRail, GTW siding. Hwys. US Rte # I-94, I-69 State Rte # 66,37,89
L.M. Spurgeon, Vice Pres
Jim Adrianson, Gen Supt
Don Opala Plant Engr
Paul Stofer Tech Supt
Mike Minger, Qlty Mgr
Chris Hansen, Contr
J.H Matthews, Mtrls Mgr
Paper Mill Stock Preparation Pulpers. 1-3000 lb Morden Slushmaker 3-16' Hydrapulpers:. Screens 8 Centrisorter Refiners 4 Sprout Waldron disc. Cleaners. 3 systems.
Paper Machines 1 six-unit Beloit Bel Bond Former 146" width, 130" trim, 950 fpm..
Dryers Drums. 85 60" Calenders: 3 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared. Winders 1 Beloit.
Coaters, On-Machine. Rice Barton blade, Black Clawson air knife. 300 tpd cap.
Finishing Plant. Sheeters: 1 Clark Aiken.
Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 450,000
Electricity: Purchased: 212,500 kwh/day. Generated: 37,500 kwh/day. Turbogenerators: 1 Elliott, 2000 kw/kva
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 2 flotation clarifiers. Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, bending chip, tube stock, 325 tons daily



CHEBOYGAN

Mosinee Paper Corp. 437 S. Main St. 49721
Tel. 616-627-5664
RR D&M siding Hwys US Rte # 27.
R.N. Burns, Plant Mgr
Pulp Mill Chemi-Mechanical, Cold Soda. Avg. Daily Prod.: Batch Digesters: einking . being installed tons
Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue, 100 tons daily

CONSTANTINE

Simplex Products Group Centreville Rd, E 3rd St 49042
Tel: 616-435-2425 Twx: 510-398-5730
RR: ConRail siding Hwys: US Rte # 131.
Mohamed Fahmy, Vice Pres, Mfg, Nthn Plants
Dick Turvey, Mill Supt
Earl Thompson, Maint Supv
Andrew Jiskra, Shpg/Rcvng Supv
Sandy Munson, Office Mgr
Paper Mill Stock Preparation: Pulpers: 2. Screens: 3. Refiners: 4, 1 deflaker Other Eqt.: 1 disc filter
Paper Machines Eight-Cylinder 112" Width 100" Trim
Dryers Drums 4 sets hi-stack..
Finishing Plant Other Eqt. Laminators: 2.
Steam/Power. Power Boilers: 2. Fuel Gas/Oil. Press 150
Electricity Freq, phase 440 v, 60, 3. Purchased: 100%
Water Treatment. Daily Usage, 70 M g.p.d. Source: River
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Chipboard, test liner, 150 tons daily.

DETROIT

Detroit River Paper Co. (Div of The Kapaco Group Inc) 9125 W Jefferson Av 48209
Tel 313-842-0042 Twx: 810-2219-428
RR ConRail siding, Rouge Yard Hwys. US Rte # IS-75
William P Roschek Vice Pres, Gen Mgr
Dennis Kelly, Prod Mgr
Donald Grace, Plant Engr
Louis J Sturm, Mchn Mgr
Mike Zajas Mchn Mgr
R P McConkie Human Rsrcs Mgr
Karrie Kane, Tech Dir

MHI-00272

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BLEACHED KRAFT PULP

Roger Schneider, Qlty Assurance Mgr

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 7 double disc, 1 Morden. Jordans: 5.
Paper Machines. 1 Yankee MG. Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 127" Trim
Dryers. Yankee: 4..

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Electricity: Generated. 100%.

Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes

Effluent Treatment. Primary Treatment: City System

Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, C1S and C2S papers, printing papers, M.G. specialties, film coated papers, grease-resistant papers, ice cream wrapper, film base, gravure printing, interleaving, creping base, 175 tons daily

ESCANABA

Mead Corp. Publishing Paper Div. PO Box 757 49829-0757

Tel: 906-786-1660 Fax: 906-789-1288

RR: C&NW, Soo Line sidings. Hwys: US Rte # 2,41.. State Rte # 35.

S.S. Benedict, Pres, Gen Mgr
L.H. Rogero, Vice Pres, Admin
W.R. O'Donnell, Vice Pres, Mktg
W.H. Goode, Vice Pres, Opers Mgr
L King, Pulp Mill Supt
G.W. Brown, Tech Dir
Kenneth Clark Mgr Plant Engrg & Maint
Robert Blake, Qual Mgr
Al Beshire, Enviro Control Tech Dir
Mike Fornetti, Util Mgr
G.E. Barnes, Sales Srvc Mgr
Kirk Bruno, Contr
Richard E Nelson, Mgr Matls
T.J. Gregoire, Dir Human Rsrcs
Dave Rood Pub Rels Mgr
James Okraszewski, Gen Mgr, Woodlands

Woodhandling and Preparation Log Handling: Live decks Chip Handling. Rader pneumatic system. Barkers 2-12' x 80' drum, 1-22" Nicholson hydraulic Hogs 1 Gruendler bark Chippers: 2 15 knife 112' disc, 1 84" Nicholson. Chip Screens: 1 KMW 1 Rader

Pulp Mill Kraft Avg Daily Prod. Bl. Swd., 200 tons Bl Hwd 400 tons of which 300 tons is Market Pulp. Batch Digesters: 6-6,500 cu. ft. each
Ground Wood. Refiner Avg. Daily Prod.: Bl. Hwd., 200 tons Refiners 4 primary, 2 secondary Sprout Waldron 42-1B disc
Chemical Recovery Plant Evaporators: 1 6-effect Swenson. Recovery Boilers. 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950° Electrostatic Precipitators. 1 Western Precipitation Lime Kilns 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers 1 8'x12' D-O. Recausticizing System Dorr-Oliver
Bleach Plant Sequence. Gwd. 1 stage. Kraft: C-E-D-E-D Chlorine Dioxide System. Hooker SVP system
Pulp Processing Knotters Gwd: 2 A-C vibrating. Kraft SW Hooper centrifugal Drainers: Gwd: 1 Morden 1 Bauer Helipress. Stock Refiners: Gwd: 2-26 S-W Twin-Flo Rejects Refiners: Gwd: 1 Bauer Screens Gwd: 4 primary, 1 secondary Cowan 2 Birc Centrisorter Kraft: Bird Centrisorters Cleaners Gwd 69-body, 3-stage Bauer 606 Centricleaner Washers Gwd 1-8'x16' Impco bleach Kraft 3-13½ x24' Impco brown stock, 5-13½ x24' Impco bleach Washers: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac Kraft 1-13½ x24' Impco
Pulp Drying Dryers. Former No 2 P&J paper machine modified for pulp drying 166" width, 155" trim 1300 fpm 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor

Paper Mill Stock Preparation Pulpers: 2 Hydrapulpers 2 continuous Morden 2 Dynapulpers, 3 Morden broke Screens 6 Selectifiers, 2 Centriscreens Refiners 7 Claflins, 6 S-W disc, 3 Deflakers (broke) Jordans: 4 Cleaners: 4-stage Bauer Centricleaner-Deculator system.
Paper Machines. P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers. Size Presses: 2. Calenders: 2 stacks. Reels: 3 Re-reelers. Winders: 3..
Coaters, off Machine. Trailing Blade, 2-286", 2-172", 1-302" Wartsila double blade for C2S.
Finishing Plant Supercalenders: 1 9-roll Bruderhaus, 2-278" 9-roll Appleton. Roll Wrapping Eqt.: Lamb-Grays Harbor automatic. Rewinders: 1 Lenox, 3-2 drum 156" Cameron, 2-MIR - 278" Cameron. Sheeters: 3 - Hamblet. Trimmers: 3 Seybold

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas/Bark. Steam, lbs hr.: 1,600,000. Press.: 400/1500. Electricity: Freq, phase: 60, 3. Installed H.P. 75,000. Hydroelectric: 2,000 kwh/day. Turbogenerators: 48,000 kwh/day.

Water Treatment. Daily Usage, 28,000. M.g.p.d. Source. Lake Michigan. Primary Treatment: Sand filters.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon. Tertiary Treatment: Clarifier

Products. Coated book and publication papers, 1480 tons daily. Kraft hardwood market pulp, 70 tons daily

FILER CITY

Packaging Corp. of America PO Box 316, Manistee 49660

Tel: 616-723-9951 Fax: 616-723-9951, Ext. 395

RR: CSX. Hwys: US Rte # 31.

Fred J Fragomeli, Vice Pres & Mgr
Charles Smith, Prod Mgr
Carl F Mills, Tech Dir
Richard H Mark, Engrg Mgr
Douglas C Hicks, Fin Mgr
Allen A Gagstetter, Dir, Indl Rels
Beryl G Toler, Wdlnds Mgr

Woodhandling and Preparation Roundwood Storage Capacity. 20,000 Cords. Barkers: 1 12'x80' FMP drum. Chippers: 1 112", 12-knife. Chip Screens: 2 HiCap

Pulp Mill Semi-Chemical, Avg. Daily Prod.: soda carbonate: 600 tons Continuous Digesters: 3 Pandia. Chemical Recovery Plant Evaporators. 2 multiple-effect. Recovery Boilers: 1 fluidized bed unit.
Pulp Processing: Stock Refiners: 3 American Defibrator Washers: 1 vacuum, 6 screw press.

Paper Mill Stock Preparation. Pulpers: 3. Screens. 3. Refiners: 4 Jones, 5 Sprout Waldron, disc.
Paper Machines 1 Fourdrinier 174" Width 158" Trim 1400 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 850 fpm
Dryers Drums: 148-60" dia.

Steam/Power. Power Boilers 4 Fuel: 1 Bark, 1 Gas, 2 Coal. Steam, lbs hr. 600,000 Press 610 psi. Electricity Purchased 305,000 kwh/day. Generated. 235,000 kwh/day Turbogenerators: 3-21,875 kva total

Water Treatment. Daily Usage, 20,000. M.g.p.d. Source River, Lake

Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond

Products. Corrugating medium, 800 tons daily

KALAMAZOO

Georgia-Pacific Corp. Kalamazoo Paper Div 2425 King Hwy 49001

Tel 616-382-2890 Twx 810-277-2618

RR ConRail, GTW, siding Hwys US Rte # I-94.

Tom Sullivan Mill Mgr
Gordy Peterson Prod Mgr
Jim Ittner Tech Dir
J Fred Shelton, Plant Engr
R H Taylor, Plant Contr
Al Campbell, Maint & Enviro Mgr
F.S. Higdon, Pur Agt
Diane Kievit, Pers Mgr

Pulp Mill Deinked Pulp Avg. Daily Prod.. 200 tons Batch Digesters: 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd; sidehill washers, 90 tpd.
Bleach Plant. Sequence: 1 Hypochlorite/Hydrosulphite stage Towers: 1 downflow

Paper Mill Stock Preparation: Pulpers: 6. Beaters. 4-1500 lb, 6-2500 lb, 2-3500 lb. Refiners: 5
Paper Machines. 1 Fourdrinier 142" Width 125" Trim 800 fpm (idle)
1 Fourdrinier 185" Width 170" Trim 1500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3..
Finishing Plant. Rewinders: 2 95"

Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 350,000. Press.: 450/275. Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.

Water Treatment. Daily Usage, 8,000. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.

Products. Bond, offset, label, postcard, 400 tons daily.

★**James River Corp.** Paperboard Packaging Group 243 E. Paterson St. 49007

Tel: 616-383-5000

Headquarters Location. See Executive Offices section for more details.

RR: ConRail, CK & S siding Hwys: US Rte # 12, 13, I-94. State Rte # 43.

Richard M Bennett, Plant Mgr
Bruce Lurvey, Supt, Plt 4
Del Van Bruggen, Supt, Plt 7
Robert A Nitz, Tech Dir
Phil Zimgibil, Mgr Engrg, Util, & Cnvtg
Jim Heffner, Sr Proj Mgr
Peter Oppenhuisen, Contr
R Keith Lolley, Empl Rels Mgr

Paper Mill Stock Preparation: Pulpers: 9 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke. Refiners: 8 Hydrafiner. Screens: 21.
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 140" Trim
Coaters, On-Machine.2 Air Knife, 2 Rod.
Extrusion. Trim Width, 1-76" double-head Beloit, 1-55" Egan PE coaters
Finishing Plant. Other Eqt.: 1-76" Waldron, 1-56" Inta-Roto, laminators.

Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 300,000.

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Deep well.

Effluent Treatment. Primary Treatment: City syst.

Products. Folding boxboards, machine clay coated, solid and news lined chip, plain and bending chip, foil laminating, grease and moisture resistant laminated, polyethylene coated, 500 tons daily.

★**The Kapaco Group Inc.**

Headquarters Location. See Executive Offices section for more details.

Nickal Paper Co. (Subs. of Nolichucky Industries Corp.) 2305 E King Hwy

RR: ConRail siding Hwys: US Rte # 12.

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums 110 Infrared: 30. Calenders: 1 stack
Finishing Plant Rewinders. 1

Steam/Power. Power Boilers 2. Fuel. Gas/Oil. Steam, lbs hr.. 70,000.
Electricity Purchased 48,000 kwh/day.

Water Treatment. Daily Usage, 580. M.g.p.d. Source Wells, City

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Recycled 69 lb. linerboard, 160 tons daily Paper Mill is idle

Performance Papers Inc. 2030 Portage St (PO Box 2528) 49003

Tel 616-345-7131 Fax: 616-345-2999

RR: ConRail sidings Hwys: US Rte # IS 94, 131.

MHI-00273

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BLEACHED HARDWOOD KRAFT PULP

State Rte # 43,96.
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Ralph W Mirkin, Exec Vice Pres
J Wayne Lamberth, Sr Vice Pres, Sec-Treas
Stanley L Oakleaf, Vice Pres, Qlty & Proc Engr
James L Curtis, Vice Pres, Sales & Mktg
Edward O Arnold, Supt, Mill C
George Gerard, Supt, Mill D
Martin L Smith Jr, Tech Dir
Gary Cairns, Mgr Prod Sched
Marilyn J Wren, Dir Prchsg
Thomas H Cadwell, Traf Mgr
Darrel R Bushhouse, Spclty Tech Sls Mgr

Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim.

Steam/Power. Power Boilers: Fuel: Oil/Gas.

Water Treatment. Source: River, Wells.

Effluent Treatment. Primary Treatment: 2 clarifiers.

Products. Bible, bond, uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 275 tons daily. Coated electrostatic base, master and specialites, 75 tons daily.

L'ANSE

Celotex Corp. 49946

Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41.
C.N. Abbott, Plant Mgr
R.G. Niemala, Plant Contr
B.C. Penokie, Plant Engr

Paper Mill Stock Preparation: Pulpers: 1 continuous Hydrapulper. Consistency Regulators: Brammer type.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater.

Steam/Power. Power Boilers. Steam, lbs hr.: 93,000
Electricity: Purchased: 100,000 kwh/day.

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay.

Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products, 200 tons daily.

MANISTIQUE

Manistique Papers Inc. 453 S Mackinac Av 49854

Tel: 906-341-2175 Fax: 906-341-2175, Ext. 250
RR: Soo Line sidings. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagsted Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Donald Schnurer, Pur Mgr
Larry Koski, Sales Mgr
Walter Alexander, Treas

Pulp Mill Deinked Pulp Avg Daily Prod., cap 500 tons

Paper Mill Stock Preparation: Pulpers: 2 Jones Refiners 1 Claflin
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim, 4200 fpm
Dryers. Drums: 48 60" dia Calenders. 1 Reels: 1. Winders 1 Beloit.

Steam/Power. Power Boilers Fuel Coal. Steam, lbs hr. 145,000 Press. 350
Electricity Purchased 5000 kwh/day

Water Treatment. Daily Usage, 2,500 M.g.p.d Source: River Primary Treatment. Yes

Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Activated sludge system

Products. Newsprint, groundwood printing and groundwood converting papers, 250 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Fibre Products Corp.) 144 First St (PO Box 300) 49858-0300

Tel: 906-863-5595
RR: C&NW, CMStP&P. Hwys: US Rte # 41. State Rte # 173
Donald Estebo, Gen Mgr
Julius Nagy, Mgr Ppr Pdcts
Charles Vines, Paper Mill Supt.
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Douglas Stemen, Cnvtg Supt
Larry Eggleston, Sales Mgr, Board
Cal Claremont, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr
John R Owens, Bd Cust Srvc Mgr, Sls Rep
Mary Ann Hymann, White Ppr Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Other Eqt.: Waxers: 5.

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
–Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.

Products. Linerboard, corrugating medium, baking cup stock, tube stock, waxing tissue, lightweight MG, 360 tons daily. Waxed paper in rolls and sheets, 60 tons daily

MONROE

Monroe Paper Co. 1220 E Elm Av 48161

Tel: 313-241-7700
RR: ConRail, Detroit Toledo Shore Line. Hwys: Near US Rte # I-75 Approx Mi 1. State Rte # 56.
Robert J Mitchell, Pres, Chf Optg Ofcr
J Baird, Plant Mgr
C.J. Arndell, Gen Supt
P.M. McBee, Plant Srvcs Mgr
J.D Sorenson, Tech Supt, Mill Engr
N.D. Lee Jr, Dir, Prchsg

Paper Mill Stock Preparation: Pulpers. 1-15' Apmew Pulper, 2-20' and 1-16' Hydrapulper. Screens. 21 Selectifier Refiners 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners. 8-10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums 127, 103, and 137-42" dia Reels: 2 Autoflyte Winders 2 two-drum.

Steam/Power. Power Boilers 2 Fuel Coal/Gas/Oil Steam, lbs hr 240,000 Press. 600/175 psi
Electricity Freq, phase 60 3 Generated: 6,000 kwh Turbogenerators. 2-7500 kw, 2000 kw, 2-1000 kw diesel generators

Water Treatment. Daily Usage, 800 M.g.p.d. Source. Lake Erie Primary Treatment: None.

Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.

Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily

Jefferson Smurfit Corp. Industrial Packaging Div 1151 W Elm Av 48161

Tel 313-241-7776
RR: C&O siding Hwys US Rte # 24, I-75
Robert H Degraer, Gen Mgr
D Gray, Plant Mgr
A Bussell, Mill Prod Mgr
Edward G. Strass, Tech Mgr
W Manor, Chief Engr
Gary VanWormer, Fnsng Supt
Delbert Broughton, Plant Contr
N Lee Jr, Pur Agt
E Flotow, Sales Rep
G Scovronski, Sales Rep

Paper Mill Stock Preparation Pulpers 2 Hydrapulper Refiners: 1 Sprout Waldron, 2 Emerson Jordans: 3 Shartle.
Paper Machines Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums: 104 Calenders: 2 stacks. Winders. 1.
Finishing Plant. Rewinders: 2 Trimmers: 1.

Steam/Power. Power Boilers: Fuel. Gas, Oil. Steam, lbs hr., 70,000
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 750. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Joint municipal-industrial system.

Products. Plain chip, can and tube board, lightweight chip, 130 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Mill 501 E Munising Av (PO Box 10) 49862-0010

Tel: 906-387-2700 Fax: 906-387-2935
RR: LS&I. Hwys: State Rte # 28,94
Walter S Servia, Mill Mgr
Eldon Estep, Dstrbtn & Plng Mgr
Joe Anderson, Paper Mill Supt
G Michael Linquist, Pdct & Proc Engrg Mgr
Mike Scott, Mgr Qlty Assrnce
Dan Sanner, Spclties Supt
Kent Boveroux, Mgr Fin Srvcs
Marvin Zuleger, Pur Agt

Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 4. Saturators: 5
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.. 1 Embosser, 1 Laminator

Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior

Effluent Treatment. Primary Treatment: Yes.

Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily.

MUSKEGON

S.D. Warren Co. Div of Scott Paper Co. 2400 Lakeshore Dr 49443

Tel: 616-755-3761 Twx: 510-394-4300
RR: C&O siding Hwys: US Rte # 16,31,I96. State Rte # 46
R Furer, Res Mgr
Norman A Russell, Pulp Mill Supt
John Holland, Mgr, Cust Srvc
John S Moran, Chief Engr
Dan Burling, Paper Mill Supt
Jack D Bultema, Tech Dir
S.J Patoprsty, Mgr Engrg
P.G Van Hoesen, Mgr Plng & Indl Engrg
W T LaPierre, Fnsng/Shpng Supt
William Holtzclaw Pur Agt
Marge Jensen, Traffic Mgr
P Schuiteman, Ind Rels Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds Chip Storage Capacity: 120,000 tons Mobile Equipment: Hopto RR crane, Poclain crane. Flume 1 Log Handling: Drag and belt conveyors Chip Handling: Rader pneumatic system Sawdust Handling. Rader pneumatic system Chip Unloaders. Hydraulic truck dumper. Barkers 1-30 cds/hr Manitowoc drum Hogs: 1 Montgomery Chippers: 1 15 knife Carthage Norman. Chip Screens. 3 Link Belt. Avg. Daily Use of Peeled Pulpwood 300 cds swd, 200 cds hwd.

Pulp Mill Kraft. Avg Daily Prod., Bl. Swd., 125 tons Bl Hwd., 125 tons Continuous Digesters. 1 Kamyr. Chemical Recovery Plant Evaporators. 1 six-effect Swenson Black Liquor Oxidation System: Champion system Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers 1 Lime Mud Washers. 1 Dorr-

MHI-00274

HOWARD ZUKER ASSOCIATES
919 N MICHIGAN AVENUE • CHICAGO ILLINOIS 60611 • PHONE 312-664-5700
THE PAPER TIGERS

Oliver Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4 Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.

Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper. Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines Beloit Fourdrinier 163" Width 144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope Winders: 2 two-drum..
Coaters. On-Machine. Trailing Blade. 1-163" puddle. 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system Rewinders: 3 Langston. Sheeters: 1 Lenox folio; 3. 100" to 112" Trimmers: 3-100" Ream Wrapping & Cartoning: Southworth system. Strapping Eqt. Signode system.

Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500
Electricity Freq, phase: 60, 3 Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.

Water Treatment. Daily Usage. 20,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.

Effluent Treatment. Primary Treatment: County spray irrigation system.

Products. Machine coated book, litho, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120
Tel. 616-683-1100 Fax: 616-683-3025
RR: ConRail siding Hwys. US Rte # 31,12. State Rte # 60,51
J.E French, Chmn Bd
B.R Bigford Pres
Jerry E French Exec Vice Pres, Treas
David L Bruce Jr. Vice Pres, Supt
Jerry Koch, Sec
Duane Bodfish, Chief Engr
Tad Kline, Sales Srvc
Tom Tokarz, Pur Agt

Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker Refiners 2 Claflin. Jordans: 4
Paper Machines B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 107" Trim
Dryers Winders 3
Finishing Plant Sheeters 2 Trimmers. 2. Other Eqt 2 Embossers

Steam/Power. Power Boilers. Fuel: Coal, Gas, Oil. Press 150
Electricity Freq phase 440v, 60, 3 Installed H.P 1600 electric, 1600 water

Water Treatment. Daily Usage, 800 M.g.p.d Source Deep wells

Effluent Treatment. Primary Treatment Yes Secondary Treatment Yes

Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers. 65 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St 49121
Tel 616-683-4100 Tlx 258459
RR ConRail Hwys US Rte # 12,31 State Rte # 60 40
Chuck Dewitt, Vice Pres, Plt Dir
Tilden Weist Paper Mill Supt
Tom DeForest Dir Engrg & Ppr Making
R DeForest, Plant Engr
T Smit, Plant Contr
R Stewart, Pur Agt
N Wilson, Distrib Mgr
S Hart, Ind Rels Dir
A Seaman, Traf Mgr

Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Savealls.
Paper Machines. Stevens Formers: 1-162" wide, 150" trim, 1000 fpm.
Dryers. Drums. 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll Reels: 1. Winders: 2 Shear-Cut..

Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.. 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day

Water Treatment. Daily Usage, 1,000. M.g.p.d. Source Wells

Effluent Treatment. Primary Treatment: Yes.

Products. Pattern tissue, 33 tons Interleaving papers, 40 tons daily

ONTONAGON

Stone Container Corp. Ctnrbd & Paper Div. One Superior Way 49953
Tel: 906-884-2021
RR: Escanaba & Lake Superior. Hwys: US Rte # 45. State Rte # 64
Ron Howard, Gen Mgr
J.R Richardson, Tech/Env Mgr
Dave Schmidt, Paper Mill Mgr
Richard Jacob, Pulp/Power Mgr
Jeff Comer, Emply Rels Mgr
James Walchuk, Mgr, Engrg & Maint
James P Ninefeldt, Contr
Robert Schon, Pur Agt

Woodhandling and Preparation Chip Storage Capacity: 50,000 tons Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife Rechippers: 1 Murray Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood. 1,000 tons hwd chips.

Pulp Mill Semi-Chemical, Avg. Daily Prod.: Sodium Carbonate. Unbl Hwd: 575 tons Continuous Digesters. 2 Pandia
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit.
Pulp Processing Hot Stock Refiners: 2 Sprout Waldron Washers 1 Eimco, 1 Swenson.

Paper Mill Stock Preparation Pulpers: 3. Refiners. 2 Bolton Emerson, 1 Bauer 440. 5 Sprout-Waldron. Screens. 2 Bird Centriscreen. Cleaners: Bauer Centricleaners Consistency Regulators: DeZurik.
Paper Machines. 1 P&J Fourdrinier 177" Width 160" Trim 1500 fpm
1 Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers Drums: 120. Calenders: 2 Winders: 2.

Steam/Power. Power Boilers: 1, 2 package. Fuel: Gas, Coal Oil, Bark Steam lbs hr 325,000 Press 1500/250/175/70 psi
Electricity Freq, phase 60 3 Installed H P 13500 Purchased 40% Generated 60%. Turbogenerators 1 GE 15,000 kw

Water Treatment. Daily Usage 4,500 M.g.p.d. Source. Lake Superior Primary Treatment: None.

Effluent Treatment. Primary Treatment. 1 Clarifier Secondary Treatment clarifier, activated sludge, gravity thickener, belt filter press

Products. Corrugating medium. 690 tons daily.

OTSEGO

Menasha Corp. Paperboard Div. 320 N Farmer St (PO Box 155) 49078-0155
Tel 616-692-6141
RR ConRail siding Hwys US Rte # 131. State Rte # 89
James Porter Gen Mgr
J Bonham Engrg & Tech Srvcs Mgr
T Howard Acctg Mgr
J Burliegh, Pur Agt
R Kuipers, Mgmt Forester

Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening Avg. Daily Use of Peeled Pulpwood. 650 green tons purchased chips.

Pulp Mill Semi-Chemical, Avg. Daily Prod Unbl Hwd., carbonate cook: 310 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers. Dorr Oliver fluid bed incinerator
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 4 S-W secondary, 2 DKP dewatering presses.

Paper Mill Stock Preparation: Pulpers: Secondary fiber prep. 1 14' Hydrapulper, 5 HDC's, 1 fibenzer, 1 Centrisorter, 1 stage reverse Noss and 1 stage reverse Krofta cleaners. Other Eqt.. 1 Impco disc filter on white water.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 2150 fpm, two-nip suction first and blind drilled second press, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers

Steam/Power. Power Boilers: 4. Fuel: Coal, Gas. Steam, lbs hr.: 240,000. Press.: 600 psi.
Electricity: Purchased: 10,000 kw Generated: 4000 kw. Turbogenerators: 1-4000 kw/kva.

Water Treatment. Daily Usage, 2,200 M.g.p.d. Source: Wells.

Effluent Treatment. Secondary Treatment: Aeration ponds.

Products. Corrugating medium, 550 tons daily.

Rock-Tenn Co. Paperboard Products Div. 431 Helen Av 49078
Tel: 616-692-6211 Fax: 616-692-6581
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89
Walter K Lancaster, Mill Mgr
D Goodman, Plant Mill Supt
B.S. Cichon, Tech Dir
J Santana, Prchsg Mgr
D.E. Hinga, Mill Contr
P O'Brien, Human Rsrcs Mgr
J Klein, Salesman

Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8 Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers Drums. 163. Calenders. 2.
Coaters. Extrusion Trim Width, 1 86" Egan PE extrusion coater

Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.. 134,000 Press.. 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval

Water Treatment. Daily Usage, 450 M.g.p.d. Source 4 Wells Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.

Effluent Treatment. Primary Treatment. 2 clarifiers. Secondary Treatment. 2 stabilization basins, 8 aerators.

Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily.

PALMYRA

Big M Paperboard Inc. (Subs. of Paperboard Industries Corp.) 6240 E US-223 (PO Box 135) 49268
Tel. 517-263-5160 Fax 517-265-3604
Hwys. US Rte # 223.
Merritt Sorensen Vice Pres
Cathleen Sorenson, Admn Mgr

Paper Mill Stock Preparation Pulpers. 1-10', 1-12', 1-16' Hydrapulpers Screens: 6 P-12 pressure. Refiners 2 Bauer disc. Jordans. 3. Other Eqt.. 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power. Power Boilers: Fuel: Gas. Press.. 150 psi
Electricity Freq, phase 60, 3. Purchased. 100%.

Water Treatment. Daily Usage, 120. M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes

MHI-00275

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville MN 55337
Phone 612 431-6336 • Telex 910-576-0234
Cable SBS PAPER USA • WATS 800 328-4018

Products. Chipboard, tube and drum stock, linerboard, 85 tons daily.

PARCHMENT

James River Corp. KVP/Dunn Paper Div. KVP Paper Mill 100 Island Av 49004

Tel: 616-383-5000
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94. State Rte # 43.
Robert Huiskamp, Vice Pres, Res Mgr, Ppr Div
C Richard Larrick, Opers Mgr
Zigmund J Lebiecki, Mgr, UM&E
James Butler, Gen Supt Pprmkg
Lyle Alrick, Mgr Mfg Srvcs
Victor Ferguson, Enviro Dir
Dennis E Maberry, Mgr Admin
Donald T Carr, Ind Rels Mgr
Donald Lewis, Gen Supt, Ctrs & Yankees
Willard Thompson, Prchsg Agt
Martin Reschner, Supt Prchmt Mchns
Jerry Buchheit, Tech Dir
Thomas Bezigian, Tech Dir
K.J. Blake, Mgr Tech Srvcs
Robert Russell, Grp Srvcs Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1200 fpm
Beloit Fourdrinier 167" Width 148" Trim 1500 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1000 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers Calenders: 10 stacks. Size Presses: 4..
Coaters, off Machine. Air Knife: 1. Blade: 3 Solvent: 1.
Finishing Plant. Supercalenders: 2. Rewinders: 7 Sheeters: 2 Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim

Steam/Power. Power Boilers: 3 Fuel: Gas/Oil. Steam, lbs hr 400,000

Water Treatment. Daily Usage, 5,000 M.g.p.d. Source Well

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.

Products. Waterleaf vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers Mill No 1 120 tons daily Mill No 2 280 tons daily

PLAINWELL

Simpson Plainwell Paper Co. 200 Allegan St. 49080

Tel 616-685-6504 Twx 810-277-4990
RR ConRail siding Hwys US Rte # 131. State Rte # 89
Bryce Seidl, Opers Mgr
Robert Green Prod Mgr
Bryce Seidl, Opers Mgr
Richard J Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Robert Tardiff Mgr Qlty Confrnce
John E Laughlin, Prod Supt
Kay C Woodruff Supv, Testers
Gordon L Peterson Mchn Supt
Alan K Bruner, Supt Distr
Barbara J Bradley Prchsg Agt
Bruce Bracken Mgr Emply Rels
George Lawton, Tech Dir
James R Allen, Tech Supt
Harry D Cook, Mgr Pdct Devl
Harold L Jackson, Mgr New Pdct Sls
Hennetta Kaye, Compt

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper. Refiners: 8 double disc. Jordans: 3. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 2000 fpm
Dryers. Size Presses: 3..
Coaters, On-Machine. Trailing Blade, 2 120" Capacity: 120 tons daily.
Finishing Plant. Supercalenders: 1-65", 1-77", 1-126", 1-130". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 3. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 130,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 3250,000.

Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

Dunn Paper Div of James River Corp. KVP Grp. 218 Riverview St (PO Box 227) 48061-0227

Tel: 313-984-5523 TWX: 810-231-7053
RR: GTW siding. Hwys: US Rte # IS-94, IS-69.
James R Scohy, Vice Pres, Res Mgr
David Norman, Prod Mgr
Arthur H Hupp, Mgr Tech Opers
Peter R Hoppe, Mgr Fin & Adm
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
James E Ramsey, Mgr, Indl Rels
Gerry Knowles, Mchne Supt, 2 & 3 PM
Denny Klinkman, Machine Supt, 1 & 4 PM

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14. Jordans: 2
Paper Machines. No. 1 Beloit Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
No. 2 Beloit Yankee Fourdrinier 134" Width 121" Trim 1200 fpm
No. 3 Allis Chalmers Yankee Fourdrinier 150" Width 134" Trim 2000 fpm
No. 4 Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers Yankee. 3 12'. 1 18' dia. units. Size Presses. 4 Calenders. 3 variable crown. Winders: 4.
Coaters, On-Machine.2 Blade 1 two-stream, 1 short-dwell
Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas Steam, lbs hr 76,000 Press.. 600/200.
Electricity Freq, phase: 60 3. Generated: 3 gas-fired turbines, rated at 5.8 Mw ISO each; 2 51,000 lbs/hr waste heat recovery boilers.

Products. Lightweight coated, release treated, foil mounting, twisting, one-time carbonizing and other MG bleached semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

E.B. Eddy Paper Inc. (Affl of E.B Eddy Forest Products Ltd.) 1700 Washington Av 48060

Tel: 313-982-0191 Fax: 313-982-7124 Twx: 810-231-6098
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1 State Rte # 21,25
William F Fredericks, Dir Opers
Larry J Janousek, Dir Mfg Srvcs
William M Fries, Dir Engrg & Capital Proj
C Dale Hoy, Sec. Contr
Leonard E Schuster, Tech Mgr
Gary W Foster, Engrg Mgr
Frank M Worden, Util Supt
Samuel J Porter, Maint Supt
Ans E Modon, Dir Human Rsrcs
Celeste Lewis-Bradley, Mgr Prod Cntrl
Robert L Andrews, Mgr Credit & Insrnc

Paper Mill Stock Preparation Pulpers. 5. Screens: 6 Refiners: 40. Jordans. 7. Cleaners: 6
Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm (idle)
Yankee Fourdrinier 132" Width 123" Trim 700 fpm (idle)
Yankee Fourdrinier 143" Width 127" Trim 1200 fpm
1 Fourdrinier 132" Width 116" Trim 1200 fpm
1 Fourdrinier 184" Width 156" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 83. Yankee: 4. Size Presses: 5. Calenders. 7 stacks. Winders: 6..
Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased.
Electricity: Purchased: 80%.

Water Treatment. Daily Usage, 7,000. M.g.p.d. Source: St. Clair River

Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, grease-resistant, pan liners, lightweight printing, book, wet strength, and specialties, 250 tons daily.

QUINNESEC

Champion International PO Box 211, Norway 49870-0211

Tel: 906-779-3200 Fax: 906-779-3307 Tlx: 234273
RR: C&NW Hwys: US Rte # 2
F.D. Owenby, Vice Pres, Opers Mgr
Dick Difonio, Dir Enviro Affrs
John Myers, Maint & Engrg Mgr
Bill Stephenson, Process Control Mgr
Martin Edgar, Cmmnty Affrs Mgr
George Curran, Matl Srvcs Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 8,400 cds. Chip Storage Capacity: 30,000 cds:. Barkers: 2 Murco drum;. Chippers: 1 Murco;. Chip Screens: 2 Rotex, 1 Rader scalper.

Pulp Mill Kraft. Avg. Daily Prod.. Bl. Hwd., 825 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel.
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film Recovery Boilers: 1 B&W, 491,000 lbs steam/hr Electrostatic Precipitators: 1 Research Cottrell;.
Bleach Plant. Sequence Cd-EO-D-E-D.
Pulp Processing Washers 1 3-drum D-O brown stock. Screens. 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached. 4-stage Noss bichd. Deckers: 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers. 1 240" KMW. Dryers: 1 Flakt air-float. Cutter-Layboys: 1 224" Lamb.

Steam/Power. Power Boilers: 1 B&W Steam, lbs hr.: 375,000
Electricity: Turbogenerators: 1 27 Mw Stal-Laval.

Water Treatment. Daily Usage, 15,000. M.g.p.d. Source: River

Effluent Treatment. Primary Treatment: 2 150' Elmco clarifiers Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering.

Products. Bleached hardwood kraft market pulp, 750 tons daily

ROCHESTER

James River-Rochester Inc. Rochester Div (Subs. of James River Corp.) 340 Mill St 48063

Tel: 313-651-8121
RR: GTW siding Hwys US Rte # 10 State Rte # 150
Stanley S Luczycki, Res Mgr
William M Kirkland, Mfg Mgr
Rick Lapanowski, Ppr Mchne Supt
Rich Rowe, Ppr Mill Mgr
Dennis Gualdoni, Cnvtg Supt
Kenneth G Roth, Tech Dir
Wayne Broadhead, Plant Engr
John Evans, Sales Mgr
John Vens, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo. Beaters. 1-1000 lb Screens. 1 Parker. Jordans: 2 Noble & Wood, 1 Jones Fibremaster.
Paper Machines 1 Fourdrinier 66" Width 62" Trim Dryers. Size Presses 1 Calenders. 1 stack.

MHI-00276

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S & WORLDWIDE SOURCES
SEMI-BLEACHED KRAFT PULP

Coaters. On-Machine.1-62" roll saturator, 20 tons daily cap.
off Machine. 1-62" roll laminator, 12 tons daily cap
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 1-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Shendan. Sewing Machines: 1.
Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 150. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. Div. of Midwest Folding Carton, Inc. 7734 Childsdale Rd, NE (PO Box 560) 49341

Tel: 616-866-3421
Hwys: Near US Rte # 131 Approx Mi 3.
James Isabell, Mill Mgr
Jim Henderson, Prod Mgr
Steven Rokos, Maint Supt

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: Black Clawson low-intensity with X-clone on filler system. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 69" Trim 350 fpm
Dryers. Drums. 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine. Air Knife, 1 Waldron Microjet.
Finishing Plant Trimmers: 1.
Steam/Power. Power Boilers: 1. Fuel: Coal. Steam, lbs hr.: 50,000. Press.. 135.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water Purchased: 1500 kva.
Water Treatment. Daily Usage, 20. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line.
Products. Boxboard. clay-coated, chip, news, lined and solid kraft, food grade 100 tons daily

TROY

★**Abitibi-Price Corp.** Building Products Div

Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St (PO Box 157) 49097

Tel 616-649-0510 Twx: 810-277-1710
RR. ConRail siding Hwys Near US Rte # 131, I-194 Approx Mi 6
Peter Lowe, Opers Mgr
Dallas Weybright, Gen Supt
Harold Noel Ppr Mcnns Supt
Gary Vandlen Fnshng & Coating Supt
Michael Herbert, Tech Dir
C Globig, Mgr R&D
Bruce Block, Chief Engr
Bruce Kraeze, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr

Paper Mill Stock Preparation: Pulpers. 3 Jones Pulpmaster Beaters: 2-1500 lb. 2-1000 lb Bertrams Screens 5 Refiners 3 double disc Morden Jordans: 5 Jones Imperial
Paper Machines. 1 Fourdrinier 121" Width 105" Trim 300 fpm
1 Fourdrinier 132" Width 112" Trim 500 fpm
1 Fourdrinier 134" Width 114" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters, off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity Purchased: 100%.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, papetene, safety, photo mount, photographic base, rag translucent, tracing, reproduction, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Watervliet Paper Co. (Div. of The Kapaco Group Inc.) 279 Paw Paw Av, 49098

Tel: 616-463-3141 Fax: 616-463-3141
RR: C & O siding. Hwys: US Rte # I-94. State Rte # 140.

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
On-Machine.1 128", 1 118" Blade.
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 4-76" to 101". Trimmers: 4-85" and 100". Other Eqt.: 1 Black Clawson Laminator. 1 62" Embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.. 90,000. Press.: 235.
Electricity: Installed H.P 450 water Purchased: 100%
Water Treatment. Daily Usage, 1,200. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, foil mounting, rotogravure, 160 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099

Tel: 616-483-7601
RR: ConRail siding Hwys. US Rte # 12
James V LaMarre, Pres
William Schmidt, Mill Mgr
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner Sales Srvc Mgr

Paper Mill Stock Preparation Pulpers. 4 Hydrapulper. Screens: 6 Refiners: 5
Paper Machines 1 six-unit Ultraformer, 110" trim..
Dryers. Drums 41 Calenders: 2.
Coaters, On-Machine. Air Knife and Rod.
Finishing Plant. Rewinders. 1. Trimmers: 1-85".
Steam/Power. Power Boilers. 2 Fuel: Oil/Gas. Steam, lbs hr.. 180,000 Press.: 500 psi.
Electricity Purchased: 100%.
Water Treatment. Daily Usage, 250 M.g.p.d Source: River
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins
Products. Clay-coated boxboard, 180 tons daily

YPSILANTI

Peninsular Paper Co. (Sub. of James River Corp, Curtis Paper Div.) 1000 N. Huron St. 48197

Tel: 313-482-2600 Twx: 810-223-7004
RR: ConRail siding. Hwys: US Rte # I-94.
Edward G Gremban, Vice Pres, Gen Mgr
Ted Johnson, Res Mgr
Gerald Linzmeyer, Div Enviro Mgr
Dick Franklin, Div Engr
Pat Theut, Mgr, Papermaking
Harold Rhora, Cnvtg & Traf Mgr

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Refiners: 1 Morden. Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm (idle)
Dryers. Drums: 52-36" 132-36". Size Presses: 1. Calenders: 1 stack. Winders: 1..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt.: Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex.
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.
Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River. Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Superwood Corp. Nu-Ply Div Midway Dr (PO Box 518) 56601

Tel: 218-751-5140,1,2
RR: BN siding. Hwys: US Rte # 2,71,371.
Robert W Riley, Res Mgr
Richard C Brown, Plant Supt
Donovan Gould, Master Mech
Gary Wilson, Sales, Traffic Mgr

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: Hwd, 100 cds aspen.
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl. Hwd.. 100 tons Continuous Digesters: 2 30' Grenco.
Pulp Processing: Stock Refiners: 1 #185 and 3 #445 Bauer
Paper Mill Paper Machines. Hardboard machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems..
Steam/Power. Power Boilers: 1. Fuel: Bark. Steam, lbs hr 14,000. Press.: 200.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.
Water Treatment. Source: City
Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 100 tons daily.

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401

Tel 218-828-3200 Fax: 218-828-3283 Twx: 910-561-3508
RR: Burl Nthrn. Hwys: US Rte # 210,371.
Richard L Paulson, Vice Pres, Mfg
Roderick W Petron, Prod Mgr, Info Sys Mgr
Thomas J Westerback, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Daryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels

MHI-00277

HOWARD ZUKER ASSOCIATES
919 N MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700
THE PAPER TIGERS

William C Blanker, Pres & CEO
Charles H Blanker, Vice Pres, Treas
Ann H Blanker, Sec
Chris McInerney, Vice Pres, Sales
Richard F Matulewicz, Dir, Tech Srvcs
John H Helbig Jr, Mgr, Cust Srvcs
Stephen L Straining Gen Supt
Joseph P Lucas, Plant Engr

Pulp Mill Rags: Batch Digesters, 2 Rotary.
Pulp Processing Washers: 2-2200 lb rag. Pulpers: 1.
Paper Mill Stock Preparation: Beaters, 2 1500 lb Bertram, 1 1500 lb breaker. Refiners, 1 disc. Jordans: 1.
Paper Machines, 1 Fourdrinier 123" Width 110" Trim
Dryers, Drums 14. Size Presses 3. Calenders: 1.
Finishing Plant. Supercalenders, 3-38", 43", 56".
Rewinders: 2. Sheeters, 1 Lenox cut-size. 6. 35", 35", 34", 38", 34", 44" Trimmers: 3-57", 57", 52".
Steam/Power. Power Boilers: 4. Fuel: Oil. Steam, lbs hr.: 24,000. Press., 225 psi.
Electricity: Freq, phase: 480 v, 60, 3. Purchased: 10,200 kwh/day Generated: 1,800 kwh/day. Turbogenerators, 1 229 kw, 1 300 kw turbines.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier, flotation saveall, effluent to municipal plant.
Products. Cotton-content and 100% chemical wood pulp bond and writing, erasable, onion skin, tracing, technical, chart, airmail, manifold, diazo intermediate base, sensitizing, saturating, transparentizing base papers, 20 tons daily

Strathmore Paper Co. 01376
Tel: 413-863-4333
Hwys: Near US Rte # 2 Approx Mi 1
Gary F Regan, Mills Mgr
A.J. Kopinsky, Plant Supt
Bruce Raymond, Tech Supv
R.J. Pasteris, Chem
David Heller, Plant Engr
Paper Mill Paper Machines Equipment listed under Westfield, MA mill.
Products. Bond, writing, text, cover, drawing and illustration papers

WESTFIELD

★**Strathmore Paper Co.** S Broad St 01085
Tel: 413-568-9111 Fax 95-5442 TWX 710-350-1384
Headquarters Location See Executive Offices section for more details
Paper Mill Stock Preparation Pulpers 4 Refiners 21 Cleaners 65 Dirtec, Bauer
Paper Machines 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 68" Trim
1 Fourdrinier 80" Width 70" Trim
1 Fourdrinier 83" Width 72" Trim
1 Fourdrinier 87" Width 74" Trim
1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 110" Width 86" Trim
Finishing Plant Supercalenders 4 Sheeters 14 Trimmers 16 Other Eqt. Air Dryers, 3
Products. Bond writing, vellum, bristol, wedding, typewriter manuscript cover, text, box cover, drawing, jeweler s bristol, papeterie, steel plate, patent office board gravure 190 tons daily, total of Turner s Falls Woronoco, and Millers Falls mills

Texon USA (Div of Emhart Corp.) Turnpike Indl Park Rd 01085
Tel 413-562-7611 Tlx 6817393 Cable Texon
RR ConRail Hwys US Rte # 202 State Rte # 116
Peter Edge Plant Supt
Paper Mill Stock Preparation Pulpers 2 Jordans 3
Paper Machines 2 Fourdrinier 84" Width
1 Fourdrinier 64" Width
Rototormers 1
Products. Elastomeric fibre and resin saturated base material

WEST GROTON

Hollingsworth & Vose Co. Townsend Rd 01472
Tel: 508-448-3311 Fax: 508-448-5072
RR. ConRail siding. Hwys: Near State Rte # 2A. Near US Rte # 40
Kenneth Gargan, Mill Mgr
Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners. Bauer Centricleaners.
Paper Machines 1 Fourdrinier 77" Width 72" Trim
Rototormers. 1 120" width, 110" trim.
Finishing Plant. Rewinders. 2. Sheeters: 2. Trimmers. 2
Steam/Power. Power Boilers: 3. Fuel: Oil. Press.: 150
Electricity: Freq, phase: 60, 3.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, fiberglass automotive and heavy-duty filter, absolute filter, non-woven papers, battery separator paper, 50 tons daily

WEST SPRINGFIELD

James River Corp. Premoid Div/Decorative Busn. Front St (PO Box 6001) 01090-6001
Tel: 413-736-4554 Fax: 413-736-6630 Tlx: 4976560
RR: ConRail siding. Hwys US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4
William S Linnell, Vice Pres, Gen Mgr
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
John Potter Chief Engr
Mark Korovae, Prchsg Mgr
Paper Mill Stock Preparation Pulpers. 1. Screens: 2. Refiners 1 Jordans 1
Paper Machines 1 Fourdrinier 72" Width 63" Trim
Coaters, off Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator
Finishing Plant Rewinders. 1. Sheeters. 1. Other Eqt., 1-60" two-station roto-gravure printer, 3-60" roll embossers
Water Treatment. Daily Usage, 400 M.g.p.d. Source River Primary Treatment Yes
Effluent Treatment. Primary Treatment None. Effluent to municipal plant
Products. Absorbent papers, latex treated paper and board latex saturated artificial leather base, vinyl coated papers, box cover, flat back tape base, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089
Tel 413-732-5141 Fax 413-732-7118
RR ConRail siding Hwys US Rte # 91,20
John H Southworth, Pres
Kent Tarrant Exec Vice Pres
Jack E Moffett Vice Pres, Sales
Elio Viecelli Supt
John F Hamel Treas
David C Southworth, Sec
Paper Mill Stock Preparation Pulpers 2 Refiners, 2 disc Jordans, 2
Paper Machines 1 Fourdrinier 85" Width 70" Trim
Dryers Size Presses tub
Finishing Plant Sheeters 3 Trimmers: 4
Steam/Power Power Boilers 2 Fuel Oil
Water Treatment. Source River
Effluent Treatment. Primary Treatment Effluent to municipal system
Products. Rag content bond, typewriter onionskin, manuscript cover writing papers, 25 tons daily

WORONOCO

Strathmore Paper Co. 01097
Tel 413-568-9111
RR: B&M. Hwys. US Rte # 20
Dick Crommett, Mills Mgr
E.J. Smith, Supt
Jim Boss, Supt
F.D. Witek Chem
Bryon Mead, Chem
Paper Mill Paper Machines Equipment listed under Westfield, MA mill.
Products. Mill No 1 writing, text, cover, artist's, papeterie papers Mill No 2 Rag specialty, bond writing, text and cover papers, 160 tons daily total

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location See Executive Offices section for more details.

ALPENA

Abitibi-Price Corp. Building Products Div 416 Ford Ave 49707
Tel: 517-354-2121 Fax 517-354-2121, Ext. 2297
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32
R.G Carovano, Gen Mgr
T.E. Ludwig, Maint Mgr
D.E Hanson, Opers Mgr
B.H Cummings, Indl Rels Mgr
H.L. Scull, Mfg Mgr
T.R Boerst, Mgr, Fbrctg
T.P. Clark, Plant Contr
A.J. Towlerton, Plant Buyer
K.C Nielsen, Wds/Engrg Mgr
Woodhandling and Preparation Barkers, 2 26" mechanical Chippers: 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod., 400 tons Batch Digesters: 4 Bauer Rapid-Cycle.
Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones repulper Refiners: 3 Bauer, 2 Sprout-Waldron pumpthru.
Paper Machines 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses, 1 22-deck press
Steam/Power. Power Boilers 3. Fuel. Coal/Wood Waste Steam, lbs hr. 240,000 Press., 900/300 psi
Electricity Purchased 100,000 kwh/day Generated. 200,000 Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage, 1,500 M.g.p.d. Source River Primary Treatment: Screening
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration Lagoons Tertiary Treatment: Sludge dewatering and drying
Products. S1S and S2S hardboard, 360 MMsf annually (400 tons daily)

Fletcher Paper Co. 318 W Fletcher St 49707
Tel: 517-354-2131 Fax 517-356-6327
RR D&M siding Hwys US Rte # 23. State Rte # 32
Allan M Fletcher, Chmn, Treas
Paul T Hoelderle Pres
R.F Werner, Sec, Pur Agt
J.P Maley III, Ppr Mill Mgr
Michael J Bekes, Opers Mgr
Rick Sterling, Traffic Mgr
Elbert M Heath, Mgr, Mktg & Sls
Chemical Recovery Plant Tall Oil Plant: Ilen
Paper Mill Stock Preparation Pulpers: 1 high-consistency, 3 Hydrapulpers Screens, 2 Selectifier. Refiners 5 Jones DD Jordans 3 Jones
Paper Machines, 1 Fourdrinier 112" Width 100" Trim 1000 fpm
1 Fourdrinier 112" Width 100" Trim 1150 fpm
Dryers Drums 62 Size Presses 2. Calenders, 2 stacks Winders, 2
Coaters off Machine 1-60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant Sheeters 1-67" precision Trim-

MHI-00278

mers 2 65 85

Steam/Power Power Boilers 2 Fuel Gas & Oil Coal Steam lbs hr 140 000 Press 450 psi Electricity Freq phase 60 3 Generated 72 000 kwh/day

Water Treatment Daily Usage 1 100 M g p d Source Thunder Bay River Primary Treatment Yes

Effluent Treatment. Primary Treatment 1 Clarifier

Products Bible offset carbonizing chart coating base label manifold map onionskin opaque bond release saturating sensitizing technical wet strength and writing papers 85 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015 1079

Tel 616 968 3000 Fax 616-968-0198

RR ConRail Hwys State Rte # 96 Near US Rte # IS-94 Approx Mi 8

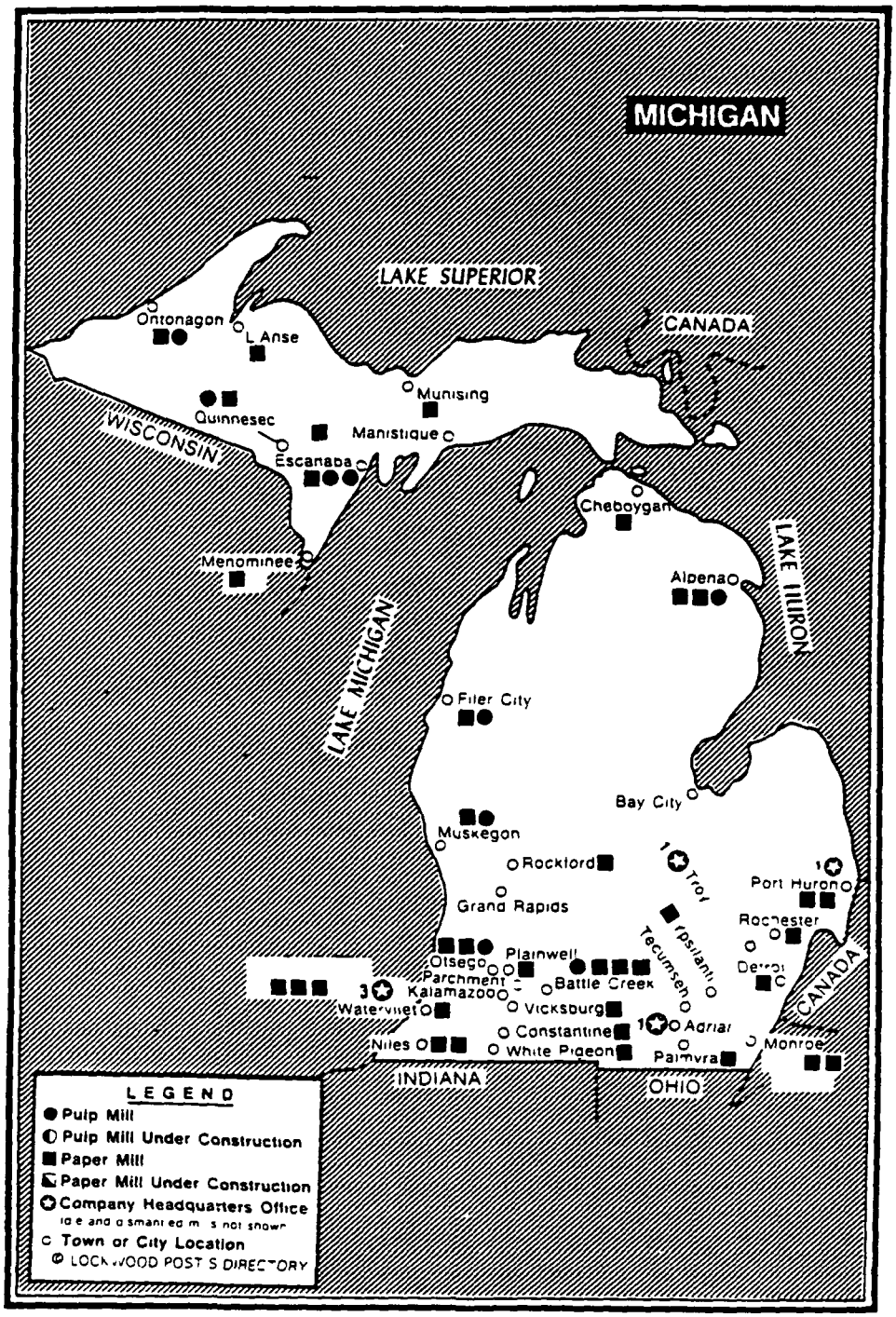
C Roger Davisson Pres
James D Schwoebel Vice Pres Admn
H Christian Mueller Vice Pres Sls
Gregory A Worsnop Vice Pres Fin
Peter K Gruber Vice Pres Cust & Liaison Engrg
Charles Delph Plant Mgr
Gary Buckley Mgr Matls
Marv Thacker Mgr Qlty Reliability
Jim Rop Mgr Mfg Engrg

Pulp Mill Ground Wood Refiner Avg Daily Prod Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary 1 200 hp ROP 20 secondary

Paper Mill Stock Preparation Pulpers 1 Hydrapulper

Paper Machines 3 molding machines of own design

Products. Molded wood fiber products for automotive interior trim



Michigan Paperboard Co. (Subs of Field Container Corp) 79 E Fountain St 49016

Tel 616-963-4004

RR ConRail GTW siding Hwys Near US Rte # I-94 I-69 3 mi Near State Rte # 66,37 89 3 mi

Terry Tiffany Pres
James M Lambert Mfg Mgr
C Tobey Mfg Supt
Gary McMillan Plant Engr
John Goll Qlty Mgr
Joseph McCarthy Contr
Jack Crabtree Ind Rels Mgr
Neil Hannan Prchsg Mgr
Jack Roberts Mech Buyer

Paper Mill Stock Preparation Pulpers 3-4000 lb Morden 1-14 1-20 Hydrapulper 1-3000 lb Refiners 1 disc Jordans 3 Screens Centrisorter

Paper Machines Stevens Formers 1 seven unit 120' trim 750 fpm

1 six-unit Ultraformer 98' wide, 96" trim, 450 fpm

Dryers Drums 60'

Steam/Power Power Boilers 2 Fuel Gas, Oil Steam lbs hr 80 000

Products. Combination boxboard 320 tons daily

Waldorf Corp. 1177 Angell St 49015-1958

Tel 616-963-5511 Fax 616-963-5564

RR ConRail GTW siding Hwys US Rte # I-94, I-69 State Rte # 66 37 89

L.M Spurgeon Vice Pres
Jim Oswald Opers Mgr
Don Opala Plant Engr
Paul Stofer Tech Supt
Mike Minger Qlty Mgr
Chris Hansen Contr
J H Matthews Mtrls Mgr

Paper Mill Stock Preparation Pulpers 1-3000 lb Morden Slushmaster 3-16 Hydrapulpers, Screens 8 Centrisorter Refiners 4 Sprout Waldron disc Cleaners 3 systems

Paper Machines 1 six-unit Beloit Bel Bond Former 146 width 130' trim 950 fpm

Dryers Drums 85 60" Calenders 3 stacks 1 breaker stack Hi-Velocity 2 gas infrared Winders 1 Beloit

Coaters On-Machine Rice Barton blade, Black Clawson air knife 300 tpd cap

Finishing Plant Sheeters 1 Clark Aiken

Steam/Power Power Boilers 2 Fuel Oil/Gas Steam lbs hr 450 000

Electricity Purchased 212 500 kwh/day Generated 37 500 kwh/day Turbogenerators 1 Elliott 2000 kw/kva

Water Treatment. Daily Usage 2,500 M g p d Source River

Effluent Treatment Primary Treatment 2 flotation clarifiers Effluent to joint industrial/municipal plant

Products. White clay coated white lined news bending chip tube stock 325 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co 437 S Main St

RR D&M siding Hwys US Rte # 27

Paper Mill Paper Machines Yankee Fourdrinier 136 Width 130 Trim

Yankee Fourdrinier 136 Width 130' Trim

Products Sanitary tissue 100 tons daily

Paper Mill Is Idle

CONSTANTINE

Simplex Products Group Centreville Rd E 3rd St 49042

Tel 616-435 2425 Twx 510 398 5730

RR ConRail siding Hwys US Rte # 131

Mohamed Fahmy Vice Pres Mfg, Nthn Plants
Dick Turvey Mill Supt
Ken Hartman Maint Supv
Andrew Jiskra Shpng/Rcvng Supv

MHI-00279

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
EXPORT WOODPULP

Sandy Munson, Office Mgr
David Erickson, Tech Mgr

Paper Mill Stock Preparation: Pulpers: 2. Screens: 3. Refiners: 4, 1 deflaker Other Eqt.. 1 disc filter.
Paper Machines. Eight-Cylinder 112" Width 100" Trim
Dryers. Drums: 4 sets hi-stack..
Finishing Plant. Other Eqt.: Laminators: 2.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Press.: 150.
Electricity: Freq, phase: 440 v, 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 70. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Chipboard, test liner, 150 tons daily.

DETROIT

Detroit River Paper Co. (Div of The Kapaco Group Inc.) 9125 W Jefferson Av 48209
Tel: 313-842-0042 Fax: 313-842-1055
RR: ConRail siding, Rouge Yard. Hwys: US Rte # IS-75.
William R Walsh Jr, Vice Pres, Mfg
Michael B Zajas, Prod Mgr
Donald Grace, Eng Mgr
David Angnello Mchn Mgr
Paul Zajas, Mchn Mgr
Kris Brady, Prchsg Mgr
Cindy Cornish, Cust Srvc Mgr
Darrell J Dick, Plant Engr
Douglas A Murray, Contr
R.P. McConkie, Human Rsrcs Mgr
Louis J Sturm, Tech Mgr
Roger Schneider, Qlty Assurance Mgr
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 7 double disc, 1 Morden. Jordans: 5.
Paper Machines. 1 Yankee MG. Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 127" Trim
Dryers Yankee 4
Steam/Power. Power Boilers: 3. Fuel. Gas/Oil. Electricity Generated. 100%
Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes
Effluent Treatment. Primary Treatment: City System
Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, C1S and C2S papers, printing papers, M.G. specialties, film coated papers, grease-resistant papers, ice cream wrapper, film base, gravure printing, interleaving, creping base, 175 tons daily

ESCANABA

Mead Corp. Publishing Paper Div. PO Box 757 49829-0757
Tel 906-786-1660 Fax 906-789-1288
RR C&NW WI Cntrl sidings Hwys. US Rte # 2,41 State Rte # 35
S S Benedict Pres Gen Mgr
L H Rogero Vice Pres, Admin
W R O'Donnell Vice Pres, Mktg
W H Goode Vice Pres, Opers Mgr
L King, Pulp Mill Supt
G W Brown, Tech Dir
Kenneth Clark Mgr Plant Engrg & Maint
Robert Blake Qual Mgr
Rich Abbott, Enviro Control Tech Dir
Mike Fornetti Util Mgr
G E Barnes Sales Srvc Mgr
Kirk Bruno Contr
Richard E Nelson Mgr Matls
T J Gregoire Dir Human Rsrcs
Dave Rood Pub Rels Cnsltnt
James Okraszewski Gen Mgr Woodlands
Woodhandling and Preparation Log Handling: Live decks Chip Handling: Rader pneumatic system Barkers 2-12' x 80' drum 1-22" Nicholson hydraulic Hogs 1 Gruendler bark Chippers. 2 15 knife 112" disc. 1 84" Nicholson. Chip Screens: 1 KMW, 1 Rader
Pulp Mill Kraft. Avg Daily Prod.: Bl. Swd., 400 tons Bl. Hwd., 650 tons of which up to 300 bl hwd tons is Market Pulp Batch Digesters. 6-6,500 cu. ft. each
Ground Wood, Refiner. Avg Daily Prod.: Bl. Hwd., 250 tons Refiners: 4 primary, 2 secondary Sprout Waldron 42-1B disc.
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson. Recovery Boilers: 1 B&W, 2,400,000 lbs solids/day, 300,000 lbs steam/hr at 1500 psi, 950°. Electrostatic Precipitators: 1 Western Precipitation. Lime Kilns: 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 1 venturi on kiln. Lime Mud Washers: 1 8'x12' D-O Recausticizing System: Dorr-Oliver
Bleach Plant. Sequence. Gwd: 1 stage. Kraft: C-E-D-E-D. Chlorine Dioxide System: Hooker SVP system.
Pulp Processing: Knotters: Gwd: 2 A-C vibrating. Kraft: SW Hooper centrifugal. Drainers: Gwd: 1 Morden, 1 Bauer Helipress. Stock Refiners. Gwd: 2-26" S-W Twin-Flo. Rejects Refiners: Gwd: 1 Bauer. Screens. Gwd: 4 primary, 1 secondary Cowan, 2 Bird Centrisorter. Kraft: Bird Centrisorters. Cleaners: Gwd: 69-body, 3-stage Bauer 606 Centricleaner. Washers: Gwd: 1-8'x16' Impco bleach. Kraft: 3-13½'x24' Impco brown stock, 5-13½'x24' Impco bleach Washers: Gwd: 7-48"x131" Cowan gravity, 1-12', 16-disc Hymac. Kraft: 1-13½'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor
Paper Mill Stock Preparation. Pulpers: 2 Hydrapulpers, 2 continuous Morden, 2 Dynapulpers, 3 Morden broke Screens: 6 Selectifiers, 2 Centriscreens. Refiners: 7 Claflins, 6 S-W disc, 3 Deflakers (broke). Jordans: 4 Cleaners: 4-stage Bauer Centricleaner-Deculator system.
Paper Machines P&J Fourdrinier 166" Width 155" Trim 2000 fpm
Beloit Fourdrinier 300" Width 274" Trim 3000 fpm
1 Valmet Fourdrinier 320" Width 305" Trim 3000 fpm
Dryers Size Presses: 2. Calenders. 2 stacks. Reels: 3 Re-reelers Winders: 3..
Coaters. off Machine Trailing Blade, 2-286", 2-172" 1-302" Wartsila double blade for C2S.
Finishing Plant Supercalenders 1 9-roll Bruderhaus, 2-278" 9-roll Appleton Roll Wrapping Eqt.. Lamb-Grays Harbor automatic. Rewinders. 1 Lenox, 3-2 drum 156" Cameron, 2-MIR - 278" Cameron Sheeters 3 - Hamblet Trimmers. 3 Seybold
Steam/Power. Power Boilers. 3 Fuel: Oil/Gas/Bark Steam, lbs hr 1,600,000 Press. 400/1500 Electricity Freq, phase 60, 3 Installed H P 75,000 Hydroelectric: 2,000 kwh/day Turbogenerators. 48,000 kwh/day
Water Treatment. Daily Usage, 28,000 M.g.p.d. Source: Lake Michigan Primary Treatment: Sand filters
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment Aeration lagoon Tertiary Treatment Clarifier
Products. Coated book and publication papers, 1480 tons daily Kraft hardwood market pulp, 70 tons daily

FILER CITY

Packaging Corp. of America PO Box 316, Manistee 49660
Tel 616-723-9951 Fax 616-723-9951, Ext 395
RR: CSX Hwys: US Rte # 31
Fred J Fragomeli Vice Pres & Mgr
Charles D Smith, Prod Mgr
Carl F Mills, Tech Dir
Richard H Mark, Engrg Mgr
Douglas C Hicks Fin Mgr
Allen A Gagstetter Dir, Indl Rels
Beryl G Toler Wdlnds Mgr
Woodhandling and Preparation Roundwood Storage Capacity 20 000 Cords Barkers 1 12'x80' FMP drum. Chippers 1 112", 12-knife. Chip Screens 2 HiCap
Pulp Mill Semi-Chemical Avg Daily Prod. soda carbonate: 600 tons Continuous Digesters. 3 Pandia
Chemical Recovery Plant Evaporators. 2 multiple-effect. Recovery Boilers. 1 fluidized bed unit
Pulp Processing: Stock Refiners 3 American Defibrator Washers: 1 vacuum, 6 screw press
Paper Mill Stock Preparation: Pulpers. 3. Screens: 3 Refiners: 4 Jones, 5 Sprout Waldron, disc
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1400 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 850 fpm
Dryers Drums 148-60" dia..
Steam/Power. Power Boilers: 4. Fuel: 1 Bark, 1 Gas, 2 Coal. Steam, lbs hr.. 600,000. Press.: 610 psi. Electricity: Purchased. 305,000 kwh/day. Generated. 235,000 kwh/day. Turbogenerators: 3-21,875 kva total
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: River, Lake
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.
Products. Corrugating medium, 800 tons daily.

KALAMAZOO

Georgia-Pacific Corp. Kalamazoo Paper Div. 2425 King Hwy 49001
Tel: 616-382-2890 Fax. 616-343-9428
RR: ConRail, GTW, siding. Hwys. US Rte # I-94
Tom Sullivan, Gen Mgr
Gordy Peterson, Prod Mgr
Jim Ittner, Tech Dir
J Fred Shelton, Plant Engr
R.H. Taylor, Plant Contr
Al Campbell, Maint & Enviro Mgr
F.S. Higdon, Pur Agt
Diane Kievit, Pers Mgr
Pulp Mill Deinked Pulp. Avg. Daily Prod.: 200 tons Batch Digesters. 2 lines of 10 primary and 2 secondary flotation cells, 110 tpd.
Bleach Plant Sequence: 1 Hypochlorite/Hydrosulphite stage. Towers. 1 downflow
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb. 6-2500 lb. 2-3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 185" Width 163" Trim 2500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 3.
Coaters. off Machine. 1 Billblade.
Finishing Plant Rewinders 1 95"
Steam/Power. Power Boilers: 4 Fuel: Gas/Oil. Steam. lbs hr., 350,000 Press., 450/275.
1 standby Fuel Coal, Gas. Steam, lbs hr.: 245,000. Press. 875 psi
Electricity Freq, phase 440v, 60, 3. Installed H.P. 18,500 electric. Purchased 4,000 kw. Generated: 12,000 kw. Turbogenerators 4
Water Treatment. Daily Usage, 5,000 M.g.p.d. Source River
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system
Products. Bond, offset, label, coated and recycled grades, 400 tons daily

★**James River Corp.** Paperboard Packaging Group 243 E. Paterson St. 49007
Tel. 616-383-5000
Headquarters Location See Executive Offices section for more details.
RR: ConRail, CK & S siding Hwys: US Rte # 12, 13, I-94 State Rte # 43
Richard M Bennett, Plant Mgr
Tony Earles, Supt Plt 4
Del Van Bruggen, Supt, Plt 7
Robert A Nitz, Tech Dir
Phil Zirngibl, Mgr Engrg, Util & Cnvtg
Jim Heffner, Sr Proj Mgr
Peter Oppenhuisen, Contr
R Keith Lolley, Empl Rels Mgr
Paper Mill Stock Preparation Pulpers. 9 Hydrapulpers, 1 Morden Slushmaker Beaters: 1 continuous broke Refiners 8 Hydrafiner Screens: 21
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 140" Trim
Coaters On-Machine.2 Air Knife, 2 Rod
Extrusion Trim Width, 1-76" double-head Beloit, 1-55" Egan PE coaters
Finishing Plant Other Eqt. 1-76" Waldron, 1-56" Inta-Roto laminators

MHI-00280

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y. 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
BLEACHED HARDWOOD KRAFT PULP

Steam/Power. Power Boilers. 4. Fuel: Gas/Oil. Steam, lbs hr.: 300,000.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Deep well.
Effluent Treatment. Primary Treatment: City syst.
Products. Machine clay-coated folding boxboards, foil laminating, moisture resistant laminated, polyethylene coated, 500 tons daily.

★The Kapaco Group Inc.

Headquarters Location. See Executive Offices section for more details.

Nickal Paper Co. 2305 E. King Hwy

RR: ConRail siding. Hwys: US Rte # 12.
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack..
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage. 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clanfier.
Products. Recycled 69 lb. linerboard. 160 tons daily Paper Mill is idle.

Performance Papers Inc. 2030 Portage St

RR: ConRail sidings Hwys: US Rte # IS 94, 131. State Rte # 43.96.
Michael J Gallenberger, Pres, CEO
Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim
Steam/Power. Power Boilers: Fuel: Oil/Gas.
Water Treatment. Source: River, Wells.
Effluent Treatment. Primary Treatment: 2 clanfiers.
Products. Bible, bond, uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 275 tons daily. Coated electrostatic base, master and specialites, 75 tons daily Paper Mill is idle.

L'ANSE

Celotex Corp. 49946

Tel: 906-524-6101
RR. Soo Line Hwys. US Rte # 41
C.N. Abbott, Plant Mgr
R.G Niemala, Plant Contr
B.C. Penokie, Plant Engr
Paper Mill Stock Preparation Pulpers. 1 continuous Hydrapulper Consistency Regulators Brammer type
Paper Machines Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters off Machine Acrylic coater
Steam/Power. Power Boilers Steam, lbs hr. 93,000
Electricity Purchased 100,000 kwh/day.
Water Treatment. Daily Usage. 1,000 M.g.p.d. Source: Bay
Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products, 200 tons daily

MANISTIQUE

Manistique Papers Inc. 453 S Mackinac Av 49854

Tel: 906-341-2175 Fax: 906-341-5635
RR: Soo Line siding, WI Cntrl. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Donald Schnürer, Pur Mgr
Larry Koski, Sales Mgr
Walter Alexander, Treas
Pulp Mill Deinked Pulp: Avg. Daily Prod.: cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim, 4200 fpm..
Dryers. Drums: 48 60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 145,000. Press.. 350.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage. 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clanfier. Secondary Treatment: Activated sludge system.
Products. Newsprint, groundwood printing and groundwood converting papers, 250 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Packaging Corp.) 144 First St (PO Box 310) 49858-0300

Tel: 906-863-5595
RR: ELS. Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Julius Nagy, Mgr Ppr Pdcts
Donald E Beason, Gen Mgr, Scndry Fibre
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Douglas Stemen, Cnvtg Supt
Larry Eggleston, Sales Mgr, Board
Cal Claremont, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr
John R Owens, Bd Cust Srvc Mgr, Sls Rep
Mary Ann Nyman, White Ppr Cust Srvc Mgr
Dave Nielsen, Traf & Shppg Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers Refiners 2 Claflin, Jordans, 5
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Slitter/Rewinders. 3. Other Eqt.. Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr. 140,000
Electricity Purchased. 7,000 kwh/day Generated: 4,000 kwh/day Turbogenerators: 2
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source River
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment. Yes
Products. Linerboard, corrugating medium, tube stock, bag stock 360 tons daily Baking cup stock, waxing tissue, lightweight MG, 60 tons daily Waxed paper in rolls, sheets, and bags.

MONROE

Monroe Paper Co. 1220 E Elm Av 48161

Tel. 313-241-7700
RR: ConRail, Grand Trunk Hwys: Near US Rte = IS-75, 1 mi. State Rte # 50.
Robert J Mitchell, Pres, Chf Optg Ofcr
J Henderson, Plant Mgr
P M. McBee, Plant Srvcs Mgr
J.D. Sorenson, Tech Supt, Mill Engr
N.D Lee Jr, Dir, Prchsg
Paper Mill Stock Preparation. Pulpers. 1-15' Apmew Pulper, 2-20' and 1-16' Hydrapulper Screens: 21 Selectifier Refiners. 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cl[illegible] ers: 8-10" Vortrap. Consistency Regulators: 4 B[illegible]
Paper Machines B-C Seven-Cylinder 110" W[illegible] 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 6[illegible] fpm
B-C Seven-Cylinder 120" Width 108" Trim 4[illegible] fpm
Dryers. Drums: 127, 103, and 137-42" dia. R[illegible] 2 Autoflyte. Winders: 2 two-drum .
Steam/Power. Power Boilers: 2. Fuel: Coal/Gas/O[illegible] Steam, lbs hr.. 240,000. Press.: 600/175 psi[illegible]
Electricity: Freq, phase: 60, 3. Generated: 6,00[illegible] kwh Turbogenerators: 2-7500 kw. 2000 k[illegible] 2-1000 kw diesel generators.
Water Treatment. Daily Usage. 800. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 5[illegible] Clanfiers. Secondary Treatment: Municipal Syst[illegible]
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partic[illegible] boards, 200 tons daily

Jefferson Smurfit Corp. Industrial Packaging Di[illegible] 1151 W. Elm Av 48161

Tel: 313-241-7776
RR: C&O siding. Hwys: US Rte # 24, I-75.
Robert H Degraer, Gen Mgr
D Gray, Plant Mgr
A Bussell, Mill Prod Mgr
Edward G. Strass, Tech Mgr
W Manor, Chief Engr
Gary VanWormer, Fnshg Supt
Delbert Broughton, Plant Contr
N Lee Jr, Pur Agt
E Flotow, Sales Rep
G Scovronski, Sales Rep
Paper Mill Stock Preparation: Pulpers: 2 Hy[illegible] drapulper Refiners: 1 Sprout Waldron, 2 Emerson Jordans: 3 Sharties
Paper Machines. Seven-Cylinder 124" Width 110[illegible] Trim 450 fpm
Dryers. Drums: 104. Calenders: 2 stacks. Winders: 1.
Finishing Plant. Rewinders: 2. Trimmers: 1.
Steam/Power. Power Boilers: Fuel: Gas, Oil. Steam, lbs hr.: 70,000
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 750. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system.
Products. Plain chip, can and tube board, lightweight chip, 130 tons daily

MUNISING

Kimberly-Clark Corp. Munising Mill 501 E Munising Av (PO Box 10) 49862-0010

Tel: 906-387-2700 Fax: 906-387-2935
RR: LS&I. Hwys: State Rte # 28.94
Walter S Servia, Mill Mgr
Eldon Estep, Dstrbtn & Plng Mgr
Joe Anderson, Paper Mill Supt
G Michael Linquist, Pdct & Proc Engrg Mgr
Mike Scott, Mgr Qlty Assrnce
Dan Sanner, Spclties Supt
Kent Boveroux, Mgr Fin Srvcs
Marvin Zuleger, Pur Agt
Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners. 2. Jordans. 2
Paper Machines 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 4 Saturators 5.
Finishing Plant. Supercalenders: 1 94", 1-68" Rewinders. 5. Sheeters. 3, cap. 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator
Steam/Power. Power Boilers 2 Fuel: Coal/Wood Waste Oil standby
Water Treatment. Daily Usage. 5,000. M.g.p.d. Source. Lake Superior
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. (Subs of Scott Paper Co.) 2400 Lakeshore Dr 49443

Tel 616-755-3761 Twx. 510-394-4300

MHI-00281

SB Schmidt Paper Company
Paper and Pulp: Domestic and Foreign
1020 East 146th Street • Burnsville, MN 55337
Phone 612/431-6336 • Telex 910-576-0234
Cable 'SBS PAPER' USA • WATS 800/328-4018

siding. Hwys: US Rte # 16,31,196. State Rte # 46.
Al Furer, Vice Pres, Res Mgr
Pulp Util Mgr
Mgr, Cust Srvc
Chief Engr
Ppr Mill Fnshg Mgr
Tech Dir
Mgr Engrg
Mgr Plng & Indl Engrg
Pur Agt
Traffic Mgr
Ind Rels Mgr
and Preparation Roundwood Storage 75,000 cds. Chip Storage Capacity: 000 tons. Mobile Equipment: Hopto RR crane, crane. Flume: 1. Log Handling: Drag and conveyors. Chip Handling: Rader pneumatic Sawdust Handling: Rader pneumatic sys- Unloaders: Hydraulic truck dumper. 30 cds/hr Manitowoc drum. Hogs: 1 Chippers: 1 15 knife Carthage Nor- Screens: 3 Link Belt. Avg. Daily Use of Pulpwood: 300 cds swd, 200 cds hwd.
Kraft. Avg. Daily Prod.: Bl. Swd., 125 tons 125 tons Continuous Digesters: 1 Kamyr. Recovery Plant. Evaporators: 1 six-effect Black Liquor Oxidation System: Cham- System. Recovery Boilers: 1 C-E, 750,000 lbs Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr- Causticizing System: Dorr-Oliver.
Plant. Sequence: C-E-H-D. Towers: 4. Mix- Thick Stock Pumps: 1. Chlorine Dioxide Sys- process.
Processing: Knotters: 3 Impco. Screens: 3 Co- Cleaners: 1 three-stage Bauer system. Wash- 2-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' Impco. Other Eqt.: 6 pre-refiners (bleached
Drying: Wet Machines: 1-100 tpd Kamyr. Cut- Layboys: Hamblet. Scales: 1.
Mill Stock Preparation: Pulpers: 6 Vokes rotor Pulper. Screens: 2 Selectifiers. Refiners: 5 1 double disc. Jordans: 4 Shartle. Cleaners: Centricleaner three-stage systems with vacuum Consistency Regulators: 14 DeZurik, 5 Fox- Size Cookers: 1 continuous, 3 batch.
Machines. Beloit Fourdrinier 163" Width 44" Trim 1100 fpm
Barton Fourdrinier 222" Width 200" Trim 000 fpm
Drums: 40 and 27 48", 55 and 69 60" dia. Velocity: 2. Size Presses: 2. Calenders: 4. Reels: Pope. Winders: 2 two-drum..
On-Machine. Trailing Blade, 1-163" pud- 1-222" Invertablade.
Plant. Supercalenders: 3-100", 1-87", 115", 1-80". Roll Wrapping Eqt.: D.J. Murray Rewinders: 3 Langston. Sheeters: 1 Lenox 100" to 112". Trimmers: 3-100". Ream & Cartoning: Southworth system. Strap- Eqt.: Signode system.
Power. Power Boilers: 3. Fuel: Coal/Oil. lbs hr.: 500,000. Press.: 500. Freq, phase: 60, 3. Purchased: 3,500 Generated: 19,000 kwh/day. Turbogen- 3-25,500 kw.
Treatment. Daily Usage, 20,000. M.g.p.d. Lake. Primary Treatment: Eimco.
Treatment. Primary Treatment: County irrigation system.
Machine coated book, cover and matte papers

ES

Paper Co. 100 French St. (PO Box 398) 9120
816-683-1100
ConRail siding. Hwys: US Rte = 31,12. State Rte 60,51.
French, Chmn Bd
Bigford, Pres
E French, Exec Vice Pres, Treas
L Bruce Jr, Vice Pres, Supt
Koch, Sec
Bodfish, Chief Engr
Tad Kline, Sales Srvc
Tom Tokarz, Pur Agt

Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim
P&J Fourdrinier 118" Width 107" Trim
Dryers. Winders: 3..
Finishing Plant. Sheeters: 2. Trimmers: 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal, Gas, Oil. Press.: 150.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 65 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel: 616-683-4100 Tlx: 258459
RR: ConRail. Hwys: US Rte # 12,31. State Rte # 60,40.
Chuck Dewitt, Vice Pres, Plt Dir
Tilden Weist, Paper Mill Supt
Tom DeForest, Dir Engrg & Ppr Making
R DeForest, Plant Engr
T Smit, Plant Contr
R Stewart, Pur Agt
N Wilson, Distrib Mgr
S Hart, Ind Rels Dir
A Seaman, Traf Mgr

Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Savealls.
Paper Machines. Stevens Formers: 1-162" wide, 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1. Winders: 2 Shear-Cut..
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons. Interleaving papers, 40 tons daily

ONTONAGON

Stone Container Corp. Ctnrbd & Paper Div. One Superior Way 49953
Tel: 906-884-2021
RR: Escanaba & Lake Superior. Hwys: US Rte # 45. State Rte # 64.
Ron Howard, Gen Mgr
J.R. Richardson, Tech/Env Mgr
Dave Schmidt, Paper Mill Mgr
Richard Jacob, Pulp/Power Mgr
Jeff Comer, Emply Rels Mgr
James Waichuk, Mgr, Engrg & Maint
James P Ninefeldt, Contr
Robert Schon, Pur Agt

Woodhandling and Preparation Chip Storage Capacity: 50,000 tons. Mobile Equipment: 2 Pettibone Cary-Lifts, 1 Orton rail crane. Chip Handling: Rader pneumatic. Sawdust Handling: Rader pneumatic. Hogs: 1 Jacksonville Blow Hog. Chippers: Beloit 114", 14-knife. Rechippers: 1 Murray. Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood: 1,000 tons hwd chips.

Pulp Mill Semi-Chemical. Avg. Daily Prod.: Sodium Carbonate. Unbl Hwd: 575 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Zimpro wet-air oxidation unit.
Pulp Processing: Hot Stock Refiners: 2 Sprout Waldron. Washers: 1 Eimco, 1 Swenson.

Paper Mill Stock Preparation: Pulpers: 3. Refiners: 2 Bolton Emerson, 1 Bauer 440, 5 Sprout-Waldron. Screens: 2 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZunk.
Paper Machines. 1 P&J Fourdrinier 177" Width 160" Trim 1500 fpm
1 Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120. Calenders: 2. Winders: 2..
Steam/Power. Power Boilers: 1, 2 package. Fuel: Gas, Coal Oil, Bark. Steam, lbs hr.: 325,000. Press.: 1500/250/175/70 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Purchased: 40%. Generated: 60%. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 4,500. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: clarifier, activated sludge, gravity thickener, belt filter press.
Products. Corrugating medium, 690 tons daily.

OTSEGO

Menasha Corp. Paperboard Div. 320 N Farmer St (PO Box 155) 49078-0155
Tel: 616-692-6141 Fax: 616-692-2060
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.
James Porter, Gen Mgr
J Bonham, Engrg & Tech Srvcs Mgr
T Howard, Acctg Mgr
J Burliegh, Pur Agt
R Kuipers, Mgmt Forester

Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening. Avg. Daily Use of Peeled Pulpwood: 650 green tons purchased chips.

Pulp Mill Semi-Chemical. Avg. Daily Prod.: Unbl. Hwd., carbonate cook: 310 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver fluid bed incinerator.
Pulp Processing: Stock Refiners: 5 S-W primary; 3 Bauer, 4 S-W secondary; 2 DKP dewatering, presses.

Paper Mill Stock Preparation: Pulpers: Secondary fiber prep: 1 14' Hydrapulper, 5 HDC's, 1 fibenzer, 1 Centrisorter, 1 stage reverse Noss and 1 stage reverse Krofta cleaners. Other Eqt.: 1 Impco disc filter on white water.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 2150 fpm, two-nip suction first and blind drilled second press, 54 dryers
1 Fourdrinier 92" Width 80" Trim 800 fpm, 2 suction presses, 41 dryers
Steam/Power. Power Boilers: 4. Fuel: Coal, Gas. Steam, lbs hr.: 240,000. Press.: 600 psi.
Electricity: Purchased: 10,000 kw. Generated: 4000 kw. Turbogenerators: 1-4000 kw/kva.
Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells.
Effluent Treatment. Secondary Treatment: Aeration ponds.
Products. Corrugating medium, 550 tons daily.

Rock-Tenn Co. Paperboard Products Div. 431 Helen Av 49078
Tel: 616-692-6211 Fax: 616-692-6581
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
Walter K Lancaster, Mill Mgr
D Goodman, Ppr Mill Supt
B.S. Cichon, Tech Dir
J Santana, Prchsg Mgr
T Thompson, Cnvtg Mgr
D.E. Hinga, Mill Contr
J Klein, Salesman

Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4. Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums: 163. Calenders: 2..
Coaters. Extrusion. Trim Width, 1 86" Egan PE extrusion coater.
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press.: 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day. Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.

MHI-00282

HOWARD ZUKER ASSOCIATES
919 N MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700
THE PAPER TIGERS

Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.

Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 210 tons daily.

PALMYRA

Big M Paperboard Inc. (Subs. of Paperboard Industries Corp.) 6240 E US-223 (PO Box 135) 49268

Tel: 517-263-5160 Fax: 517-265-3604

Hwys: US Rte # 223.

Merritt Sorensen, Vice Pres

Cathleen Sorenson, Admn Mgr

Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Screens: 6 P-12 pressure. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.

Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi.

Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 120. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Yes.

Products. Chipboard, tube and drum stock, linerboard, 85 tons daily.

PARCHMENT

★**James River Corp.** Spclty Cnvtg & Pckg Pprs Grp. 100 Island Av 49004

Tel: 616-383-5000

Headquarters Location. See Executive Offices section for more details.

RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94. State Rte # 43.

Robert Huiskamp, Vice Pres, Opers

C Richard Larrick, Opers Mgr

Zigmund J Lebiecki, Mgr, UM&E

James Butler, Gen Supt Pprmkg

Lyle Alrick, Mgr Mfg Srvcs

Victor Ferguson, Enviro Dir

Dennis E Maberry, Mgr Admin

Donald T Carr, Ind Rels Mgr

Donald Lewis, Gen Supt, Ctrs & Yankees

Willard Thompson, Prchsg Agt

Martin Rescnner, Supt Prchmt Mchns

Jerry Buchneit, Tech Dir

Thomas Bezigian, Tech Dir

K.J. Blake, Mgr Tech Srvcs

Robert Russell, Grp Srvcs Mgr

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt.: Secondary Fiber Mill, 150 tons daily capacity.

Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm

P&J Fourdrinier 163" Width 148" Trim 1100 fpm

B&S Fourdrinier 165" Width 148" Trim 1400 fpm

Beloit Fourdrinier 167" Width 148" Trim 1800 fpm

1 Yankee Fourdrinier 139" Width 126" Trim 1100 fpm

1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm

Dryers. Calenders: 5. Size Presses: 5..

Coaters, off Machine. Air Knife: 1. Blade: 3 Solvent: 1.

Finishing Plant. Supercalenders: 2. Rewinders: 7. Sheeters: 2. Trimmers: 3. Other Eqt.: 5 parchmentizing machines, 80" and 100" trim.

Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Well.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.

Products. Waterleaf, vegetable parchment, bond, greeting card parchment, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1: 120 tons daily. Mill No 2: 280 tons daily.

PLAINWELL

Simpson Plainwell Paper Co. 200 Allegan St. 49080

Tel: 616-685-5851 Fax: 616-685-6504

RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.

R Bryce Seidl, Opers Mgr

Robert Green, Prod Mgr

Dennis Kelly, Gen Supt, Ppr Mgr

Phil Anglin, Mchn Supt No. 16 & No. 17

Scott Sleeman, Mchn Supt No. 18

Richard J Thomas, Mgr Fnshng & Matl Hndlg

Gary N Longworth, Mgr Engrg

Wendell Chichester, Mgr, Mfg Srvcs

Alan K Bruner, Supt Distr

Barbara J Bradley, Prchsg Agt

Robert Tardiff, Mgr, Qlty Confrnce

Kay C Woodruff, Supv, Testers

Bruce Bracken, Mgr, Emply Rels

George Lawton, Tech Dir

James R Allen, Tech Supt

Henrietta Kaye, Compt

Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper. Refiners: 8 double disc. Jordans: 3. Stock Mixers: 3 blend chests.

Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm

1 Fourdrinier 135" Width 118" Trim 900 fpm

1 Fourdrinier 135" Width 120" Trim 2000 fpm

Dryers. Size Presses: 3..

Coaters, On-Machine. Trailing Blade. 2 120" Capacity: 140 tons daily.

Finishing Plant. Supercalenders: 1-126", 1-130". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 4. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 205,000. Press.: 265 psi.

Electricity: Freq, phase: 60, 3. Purchased: 160,000 3250,000.

Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

E.B. Eddy Paper Inc. (Affl. of E.B. Eddy Forest Products Ltd.) 1700 Washington Av 48060

Tel: 313-982-0191 Fax: 313-982-7124

RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21,25.

A Richard Wagner, Res Mgr

Kirk S Olson, Dir Opers

Joseph C Fiedler, Mtrls Mgr

William M Fries, Dir Engrg & Capital Proj

C Dale Hoy, Sec, Contr

Howard L Hunter, Tech Dir

Gary W Foster, Engrg Mgr

Frank M Worden, Util Supt

Kenneth A Wood, Maint Mgr

Aris E Mogon, Dir Human Rsrcs

Celeste Lewis-Bradley, Mgr Prod Cntrl

Robert L Andrews, Mgr Budget & Insrnc

Paper Mill Stock Preparation: Pulpers: 5. Screens: 6. Refiners: 40. Jordans: 7. Cleaners: 6.

Paper Machines. Yankee Fourdrinier 126" Width 120" Trim 700 fpm (idle)

Yankee Fourdrinier 132" Width 123" Trim 700 fpm (idle)

Yankee Fourdrinier 143" Width 127" Trim 1200 fpm

1 Fourdrinier 132" Width 116" Trim 1200 f

1 Fourdrinier 184" Width 156" Trim 1800 f

Yankee Fourdrinier 210" Width 186" Trim 23 fpm

Dryers. Drums: 83. Yankee: 4. Size Presses: 5. lenders: 7 stacks. Winders: 6..

Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: Steam, lbs hr.: chased.

Electricity: Purchased: 80%.

Water Treatment. Daily Usage, 7,000. M.g.p Source: St. Clair River.

Products. Carbonizing, coil winding, coating foil mounting, interleaving, kraft specialties, nating, offset, opaque, grease-resistant, pan li lightweight printing, book, wet strength, and cialties, 270 tons daily.

James River Corp. Spclty Cnvtg & Pckg Pprs Grp. 2 Riverview St 48060

Tel: 313-984-5523 TWX: 810-231-7053

RR: GTW siding. Hwys: US Rte # IS-94, IS-69.

James R Scony, Vice Pres, Res Mgr

Brent Earnshaw, Mgr Tech Opers

Peter R Hoppe, Mgr Fin & Adm

Gregory A Howe, Contr

Alan C Crawford, Mgr, Prchsg

Robert Ferguson, Mgr, Indl Rels

Gerry Knowles, Mchne Supt, Wet End Opers

Denny Klinkman, Machine Supt, Dry End Opers

Paper Mill Stock Preparation: Pulpers: 8. Refine 14. Jordans: 2.

Paper Machines. No. 1 Beloit Yankee Fourdrin 137" Width 124" Trim 1500 fpm

No. 2 Beloit Yankee Fourdrinier 134" Width 12 Trim 1200 fpm

No. 3 Allis Chalmers Yankee Fourdrinier 15 Width 134" Trim 2000 fpm

No. 4 Yankee Fourdrinier 137" Width 124" Tr 1200 fpm

Dryers. Yankee: 3 12', 1 18' dia. units. S Presses: 4. Calenders: 3 variable crown. Winde 4..

Coaters. On-Machine.2 Blade: 1 two-stream, short-dwell.

Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: 3. Fuel: Oil/Ga Steam, lbs hr.: 76,000. Press.: 600/200. -

Electricity: Freq, phase: 60 3. Generated: 3 g fired turbines, rated at 5.8 Mw ISO each; 2 51,00 lbs/hr waste heat recovery boilers.

Products. Lightweight coated, release treated, mounting, twisting, one-time carbonizing and oth MG bleached, semi-bleached and unbleached sp cialties in jumbo rolls only, 170 tons daily

QUINNESEC

Champion International PO Box 211, Norw 49870-0211

Tel: 906-779-3200 Fax: 906-779-3307 T 234273

RR: C&NW. Hwys: US Rte # 2.

Jeffrey A Hearn, Vice Pres, Opers Mgr

Dick Diforio, Dir Enviro Affrs (Stamford)

John Myers, Maint & Engrg Mgr

Bill Stephenson, Process Control Mgr

Jeffrey W Weber, Cmmnty Affrs Mgr

George Curran, Matl Srvcs Mgr

Joe Deschene, Rcvry & Util Mgr

John Rhode, Pulp Prcsg Mgr

Steve Perry, Pdct Srvcs

Gary Hayward, No. 41 Ppr Mach Mgr

Scott Lipinski, Admn/Human Rsrcs

Woodhandling and Preparation Roundwood Stora Capacity: 8,400 cds. Chip Storage Capacity 30,000 cds:. Barkers: 2 Murco drum:. Chippers: Murco:. Chip Screens: 2 Rotex, 1 Rader scalper.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Hwd., 825 b tons of which 750 tons is Market Pulp. Continuou Digesters: 1 Kamyr vapor phase, two-vessel. Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film. Recovery Boilers: 1 B&W 491,000 lbs steam/hr. Electrostatic Precipitators 1 Research Cottrell:.

Bleach Plant. Sequence: Cd-EO-D-E-D.

Pulp Processing: Washers: 1 3-drum D-O brown stock. Screens: 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached, 4-stage Nos blend. Deckers: 2 D-O unbl. 1 Rauma valveless. Pulp Drying: Fourdriniers: 1 240" KMW. Dryers: Flakt air-float. Cutter-Layboys: 1 224" Lamb.

Paper Mill Paper Machines. No. 4 1 Beloit Fourdrinier 280" Trim 3500 fpm, being installed

MHT-00283

CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300
ES OF PULP FROM
ORLDWIDE SOURCES
BLEACHED KRAFT PULP

On-Machine.2
Power. Power Boilers: 1 B&W. Steam, lbs hr.: 00.
Turbogenerators: 1 27 Mw Stal-Laval.
Daily Usage, 15,000. M.g.p.d.
Primary Treatment: 2 150' Secondary Treatment: 2 aeration 190' clarifiers, sludge dewatering.
Bleached hardwood kraft market pulp, daily. Coated free sheet, 750 tons daily,

TER

Specialty Industrial Busn. 340 Mill
-8121
Hwys: US Rte # 10. State Rte #
Luczycki, Res Mgr
Mgr, Admin & Plnng
Ppr Mchne Supt
Mgr, Pdctn & Schdlg
Tech Dir
Plant Engr
Sales Mgr
Cust Srvc Mgr
Stock Preparation: Pulpers: 1 Jones Hi-Lo. 1-1000 lb. Screens: 1 Parker. Jordans: 2 Wood, 1 Jones Fibremaster.
Machines. 1 Fourdrinier 66" Width 62" Trim Size Presses: 1 Calenders: 1 stack..
On-Machine.1-62" roll saturator, 20 tons
1-62" roll laminator, 12 tons daily
Plant. Rewinders. 1-72" Cameron. Sheeters: 1-72", 1-84". Trimmers. 1-50", 1-84". Other Punch Presses: 2. Die Cutters: 1-32x60 Sheri- Sewing Machines: 1.
Power. Power Boilers: Fuel: Oil. Press.: 100
Freq, phase: 60, 3. Purchased: 100%.
Treatment. Daily Usage, 150. M.g.p.d. Wells.
Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Absorbent, blotting, cover, impregnating, and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic filter papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily

OCKFORD

Paperboard Co. Div of Midwest Folding Inc. 7734 Childsdale Rd, NE (PO Box 560)
616-866-3421
Near US Rte # 131 Approx Mi 3
Isabell, Mill Mgr
Parmer, Prod Mgr
Rokos, Maint Supt
Fox, Prod Supt
Mill Stock Preparation Pulpers 4 Hydrapulper. Screens 8 Refiners 3 S-W Cleaners Clawson low-intensity with X-clone on filler Consistency Regulators DeZurik Other Eqt.: filled clay mixing eqt
Machines Eight-Cylinder 76' Width 69" 350 fpm
Dryers. Drums: 115-42", 12-36 dia Calenders. 3
On-Machine 1 Waldron Microjet air knife, Rahler rod
Plant Trimmers 1
Power. Power Boilers: 1 Fuel Coal Steam, 50,000 Press 135
Freq, phase: 60, 3 Installed H P 2100 300 water Purchased 1500 kva
Treatment. Daily Usage, 20 M.g.p.d. Source

Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line.
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TROY

★Abitibi-Price Corp. Building Products Div.
Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St (PO Box 157) 49097
Tel: 616-649-0510 Twx: 810-277-1710
RR: ConRail siding. Hwys: Near US Rte # 131, IS-194, IS-94, 6 mi.
Peter Lowe, Opers Mgr
Dallas Weybright, Gen Supt
Jeff Honour, Ppr Mchns Supt
Gary Vandlen, Fnshng & Coating Supt
Michael Herbert, Tech Dir
C Globig, Mgr R&D
Bruce Block, Chief Engr
Bruce Kraeze, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 2-1000 lb. Bertrams. Screens 5 Refiners: 3 double disc Morden. Jordans: 5 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 105" Trim 300 fpm
1 Fourdrinier 132" Width 112" Trim 500 fpm
1 Fourdrinier 134" Width 114" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders. 3..
Coaters. off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders 6 Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110"
Steam/Power. Power Boilers: 2. Fuel. Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover linen finish, playing card, safety, photo mount, photographic base, rag translucent, tracing, reproduction, and 100% recycled text papers, 100 tons daily

WATERVLIET

Watervliet Paper Co. (Div. of The Kapaco Group Inc.) 279 Paw Paw Av 49098
Tel. 616-463-3141 Fax. 616-463-3141
RR. C & O siding Hwys US Rte # I-94 State Rte # 140
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans. 1 Jones.
Paper Machines 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers Drums 85. Size Presses. 2. Calenders. 2 Winders 2
Coaters off Machine Air Knife, 4: 92", 88", 70" 66"
On-Machine 1 128", 1 118" Blade
Finishing Plant Supercalenders 5. 119", 66", 80", 86" 96 Rewinders. 2. Sheeters. 4-76" to 101" Trimmers 4-85" and 100" Other Eqt.. 1 Black Clawson Laminator 1 62" Embosser.
Steam/Power. Power Boilers. 3 Fuel. Coal. Steam, lbs hr.: 90,000 Press.. 235
Electricity: Installed H.P 450 water Purchased 100%
Water Treatment. Daily Usage. 1,200 M.g.p.d Source: wells
Effluent Treatment. Primary Treatment: Spray irrigation.
Products. Coated: book and offset, C1S litho, cover, postcard, playing card stock, C1S label, greeting card, embossed papers, foil mounting, rotogravure, 160 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601
RR: ConRail siding. Hwys: US Rte # 12.
William Schmidt, Pres
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes, Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 6. Refiners: 5.
Paper Machines. 1 seven-unit Ultraformer, 110" trim..
Dryers. Drums: 41. Calenders: 2..
Coaters. On-Machine. Air Knife and Rod.
Finishing Plant. Rewinders: 1. Trimmers: 1-85".
Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 180,000. Press.: 500 psi.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 250. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard, 185 tons daily

YPSILANTI

James River Corp. Curtis/Premium Mills Div. 1000 N. Huron St. 48197
Tel: 313-482-2600 Twx: 810-223-7004
RR: ConRail siding. Hwys: US Rte # I-94.
Edward G Gremban, Vice Pres, Gen Mgr
Ted Johnson, Res Mgr
Gerald Linzmeyer, Div Enviro Mgr
Richard Franklin, Div Engr
Pat Theut, Mgr, Papermaking
Harold Rhora, Cnvtg & Traf Mgr
Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper Refiners: 1 Morden Jordans: 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.
Paper Machines Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Black Clawson Fourdrinier 66" Width 58" Trim 265 fpm (idle)
Dryers. Drums: 52-36" 132-36". Size Presses: 1. Calenders: 1 stack Winders: 1..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet Trimmers. 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt: Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex
Steam/Power. Power Boilers 1 Fuel: Gas/Oil. Steam, lbs hr. 40,000 Press. 130
Electricity Freq, phase 60, 3. Installed H.P. 1200. Purchased. 25000 kwh/day
Water Treatment. Daily Usage. 500 M.g.p.d. Source Wells, River Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MHI-00284

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE: NEW YORK, N.Y. 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
WOODPULP

John C Genzabella, Vice Pres, Opers
Joseph J Byrne, Vice Pres, Mktg
Manendra Menta, Mgr, Tech
David S Paul, Mgr, Fin
Cathy M Defoe, Willow Supt
Michael J Williams, Laurel Supt
Dennis W Hankey, Willow Mill Mgr
Alan L Boska, Laurel Mill Mgr
Donald E Moffatt, Mgr, Mfg Srvcs
George Yakum, Mgr Engrg Srvcs
Scott M Hollander, Mgr Human Rsrcs
Marilyn P Haus, Mgr Mkt Devl
Maurice E Larrivee, Mgr Prchsg

Paper Mill Stock Preparation: Pulpers: Willow Mill: 2-500 lb Jones, 1-2000 lb Jones Hi-Lo, 3-2000 lb Morden. Beaters: 1-2000 lb. Screens: 2. Refiners: 1 Claflin, 3 disc. Jordans: 2.
Pulpers: Laurel Mill: 2-2000 lb Morden, 2-2000 lb Jones Hi-Lo. Beaters: 3 2000 lb. Screens: 1. Refiners: 4 disc. Jordans: 2.
Paper Machines. Willow Mill: 1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 72" Width 64" Trim
Laurel Mill: 1 Fourdrinier 128" Width 115" Trim
Finishing Plant. Supercalenders: 1. Rewinders: 4. Sheeters: 1. Trimmers: 1. Roll Wrapping Eqt.: 2. Roll Wrapping Eqt.: 2.
Steam/Power. Power Boilers: Willow Mill: 2. Fuel: Oil. Press.: 100 psi.
Electricity: Freq, phase: 550v, 60, 3. Generated: 100 kw. Purchased: 2500 kva.
Power Boilers: Laurel Mill: 2. Fuel: Oil. Press.: 250 psi.
Electricity: Freq, phase: 550/2300v, 60, 3. Purchased: 3000 kva.
Products. Absorbent, decorative laminating; resin saturating; coffee, industrial and inorganic filter, inorganic industrial, synthetic fiber, overlay, calender roll, pipe wrap insulation, flame retardent and low pressure papers. Willow Mill: 30 tons daily. Laurel Mill: 40 tons daily.

THORNDIKE

Cascades Diamond Inc. Church St (PO Box 627) 01079
Tel: 413-283-8301 Fax: 413-283-4756
RR: ConRail. Hwys: Near US Rte # I-90 Approx Mi 3.
Laurent Lemaire, Vice Pres
Alain Ducharme, Gen Mgr
Ron Beaumont, Mill Mgr
Robert R Authier, Prod Supt
Helen N Opielowski, Pur Agt
Edward F Clark, Tech Mgr
Thomas R Arnold, Maint Mgr
Paper Mill Paper Machines. Special pulp molding machines..
Steam/Power. Power Boilers: Fuel: Oil. Press.: 15.
Electricity: Freq, phase: 560v,60, 3. Installed H.P. 6750 kva. Purchased: 90%. Generated: 10%. Hydroelectric: 852 kva.
Products. Molded pulp egg cartons

TURNERS FALLS

Esleeck Manufacturing Co. Inc. Canal St (PO Box 717) 01376
Tel: 413-863-4326 Fax: 413-863-3196
Hwys: Near US Rte # 91, 3 mi. State Rte # 2A.
William C Blanker, Pres & CEO
Charles H Blanker, Vice Pres, Treas
Ann H Blanker, Sec
Chris McInerney, Vice Pres, Sales
Richard F Matulewicz, Dir, Tech Srvcs
John H Helbig Jr, Mgr, Cust Srvcs
Joseph P Lucas, Plant Engr
Pulp Mill Rags: Batch Digesters: 2 Rotary.
Pulp Processing: Washers: 2-2200 lb rag. Pulpers: 1.
Paper Mill Stock Preparation: Beaters: 2 1500 lb Bertram, 1 1500 lb breaker. Refiners: 1 disc. Jordans: 1.
Paper Machines. 1 Fourdrinier 123" Width 110" Trim
Dryers. Drums: 14. Size Presses: 3. Calenders: 1..
Finishing Plant. Supercalenders: 3-38", 43", 56". Rewinders: 2. Sheeters: 1 Lenox cut-size. 6: 35", 35", 34", 38", 34", 44". Trimmers: 3-57", 57", 52".
Steam/Power. Power Boilers: 4. Fuel: Oil. Steam, lbs hr.: 24,000. Press.: 225 psi.
Electricity: Freq, phase: 480 v, 60, 3. Purchased: 10,200 kwh/day. Generated: 1,800 kwh/day. Turbogenerators: 1 229 kw, 1 300 kw turbines.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier, flotation saveall, effluent to municipal plant.
Products. Cotton-content and 100% chemical wood pulp bond and writing, erasable, onion skin, tracing, technical, chart, airmail, manifold, diazo intermediate base, sensitizing, saturating, transparentizing base papers, 20 tons daily.

Strathmore Paper Co. Canal St 01376
Tel: 413-863-4333
Hwys: Near US Rte # 2 Approx Mi 1.
Gary F Regan, Mills Mgr
A.J. Kopinsky, Plant Supt
R.J. Pastens, Chem
Paper Mill Paper Machines. 3 Fourdrinier. Equipment listed under Westfield, MA mill..
Products. Bond, writing, text, cover, drawing and illustration papers

WESTFIELD

★**Strathmore Paper Co.** Central Finishing, Whse & Dstbtn Ctr. S Broad St 01085
Tel: 413-568-9111
Headquarters Location. See Executive Offices section for more details.
Paper Mill Stock Preparation: Pulpers: 7. Refiners: and Jordans: 23.
Paper Machines. 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77" Width 68" Trim
1 Fourdrinier 90" Width 80" Trim
1 Fourdrinier 83" Width 72" Trim
1 Fourdrinier 87" Width 74" Trim
1 Fourdrinier 94" Width 80" Trim
1 Fourdrinier 94" Width 80" Trim
1 Fourdrinier 110" Width 96" Trim
Dryers. Winders: 8. Air Dryers: 2..
Finishing Plant. Supercalenders: 1. Sheeters: 10. Trimmers: 10. Embossers: 3.
Products. Bond, writing, vellum, bristols, wedding, typewriter, manuscript cover, text and cover, art, drawing, papeteries, greeting card, deckle-edge, embossed, plate-finish, watermarked, business and printing papers, duplex boards, 141 tons daily, total of Turner s Falls, Woronoco, and Millers Falls mills.

WEST GROTON

Hollingsworth & Vose Co. Townsend Rd 01472
Tel: 508-448-3311 Fax: 508-448-5072
RR: ConRail siding. Hwys: Near State Rte # 2A. Near US Rte # 40.
George Faircloth, Mill Mgr
Kenneth Gargan, Mill Supt
Michael Richardson, Qlty Mgr
Ronald Dean, Mtrls Mgr
Barbara Dominick, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 77" Width 72" Trim
Rotoformers: 1 120" width, 110" trim.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2.
Steam/Power. Power Boilers: 3. Fuel: Oil. Press.: 150.
Electricity: Freq, phase: 60, 3.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, fiberglass automotive and heavy-duty : lute filter, non-woven papers, battery se: per, 50 tons daily.

WEST SPRINGFIELD

Decorative Specialties International Inc. Pre (Subs. of Specialty Coatings Group Inc.) Fr: Box 6001) 01090-6001
Tel: 413-736-4554 Fax: 413-736-6630
RR: ConRail siding. Hwys: US Rte # 20. N. Rte # Mass Tnpke Approx Mi 4.
William S Linnell, Vice Pres, Gen Mgr
Robert J DeGeorge, Gen Supt
Ludwig A Wax, Tech Dir
John Potter, Chief Engr
Mark Korovae, Prchsg Mgr
Rick D Plaut, Sls Mgr
Kathy M Meyer, Mkt Devl Mgr
Paper Mill Stock Preparation: Pulpers: 1. Scr Refiners: 1. Jordans: 1.
Paper Machines. 1 Fourdrinier 72" Width 6 Coaters, off Machine. 1-60" reverse rol: knife, 1-60" impregnator.
Finishing Plant. Rewinders: 1. Sheeters: : Eqt.: 1-60" two-station roto-gravure printe: roll embossers.
Water Treatment. Daily Usage, 400. M Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Nc fluent to municipal plant.
Products. Absorbent papers, latex treated pac board, latex saturated artificial leather base coated papers, special industrial and techni: pers, 30 tons daily.

Southworth Co. Front St 01089
Tel: 413-732-5141 Fax: 413-732-7118
RR: ConRail siding. Hwys: US Rte # 91,20.
John H Southworth, Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
David C Southworth, Sec
Paper Mill Stock Preparation: Pulpers: 2. Refine disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Dryers. Size Presses: tub..
Finishing Plant. Sheeters: 3. Trimmers: 4.
Steam/Power. Power Boilers: 2. Fuel: Oil.
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluer municipal system.
Products. Rag content bond, typewriter, onions manuscript cover, writing papers, 25 tons da:

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111
RR: B&M. Hwys: US Rte # 20.
E.J. Smith, Supt, Mill No. 1
Jim Boss, Supt, Mill No. 2
F.D. Witek, Chem
Brian Meade, Chem
Paper Mill Paper Machines. 3 Fourdrinier. Equipm listed under Westfield, MA mill..
Products. Mill No. 1: writing, text, cover, artis papeterie papers. Mill No. 2: Rag specialty, bo writing, text and cover papers

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location. See Executive Offices sect for more details.

ALPENA

Abitibi-Price Corp. Building Products Div 416 Ave. 49707
Tel: 517-354-2121 Fax: 517-354-2121. 2297

MHI-00285

Detroit & Mackinac Siding. Hwys: US Rte # 23. State Rte # 32.
Carovano, Gen Mgr
Ludwig, Maint Mgr
Hanson, Opers Mgr
Cummings, Indl Rels Mgr
Scull, Mtg Mgr
Boerst, Mgr, Fbrctg
Clark, Plant Contr
Tewerton, Plant Buyer
Nielsen, Wds/Engrg Mgr

Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers: 1-96" 12-knife. Avg. Daily Use Peeled Pulpwood: 450 cds (rough basis).

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 200 tons Batch Digesters: 4 Bauer Rapid-Cycle.

Pulp Processing: Stock Refiners: 9 Bauer disc.

Paper Mill Stock Preparation: Pulpers: 1 Jones repulper. Refiners: 3 Bauer, 2 Sprout-Waldron pump-refiners.

Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
Hardboard Fourdrinier 50" Width 48" Trim
Finishing Plant. Other Eqt.: 2 20-deck presses. 1 22-deck press.

Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Steam, lbs hr.: 240,000. Press.: 900/300 psi.

Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.

Water Treatment. Daily Usage, 1,500. M.g.p.d. Source: River. Primary Treatment: Screening.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.

Products. S1S and S2S hardboard, 360 MMsf annually (400 tons daily)

Fletcher Paper Co. 318 W. Fletcher St. 49707
Tel: 517-354-2131 Fax: 517-356-6327
RR: D&M siding. Hwys: US Rte # 23. State Rte # 32.
Allan M Fletcher, Chmn, Treas
Paul T Hoelderle, Pres
Larry Simpson, CFO, Sec
J.P. Maley III, Ppr Mill Mgr
Michael J Bekes, Opers Mgr
Jay Robbins, Chief Engr
Bill England, Pur Agt
Tom Woods, Traffic Mgr
Elbert M Heath, Mgr, Mktg & Sls

Paper Mill Stock Preparation: Pulpers: 1 high-consistency, 3 Hydrapulpers. Screens: 2 Selectifier. Refiners: 5 Jones DD. Jordans: 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 1000 fpm
1 Fourdrinier 112" Width 100" Trim 1150 fpm
Dryers. Drums: 62. Size Presses: 2. Calenders: 2 stacks. Winders: 2.
Coaters, off Machine. 1-60" Roll-Blade-Gravure, 10 tpd capacity.
Finishing Plant. Sheeters: 1-67" precision. Trimmers: 2. 65" 85".

Steam/Power. Power Boilers: 2. Fuel: Gas & Oil, Coal. Steam, lbs hr.: 140,000. Press.: 450 psi. Electricity: Freq, phase: 60, 3. Generated: 72,000 kwh/day.

Water Treatment. Daily Usage, 1,100. M.g.p.d. Source: Thunder Bay River. Primary Treatment: Yes.

Effluent Treatment. Primary Treatment: 1 Clarifier.

Products. Bible, offset, carbonizing, chart, coating base, label, manifold, flame retardant, mold inhibiting, pattern, map, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers. 85 tons daily.

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079
Tel: 616-968-3000 Fax: 616-968-0198
RR: ConRail. Hwys: State Rte # 96. Near US Rte # I-94 Approx Mi 8.
C Roger Davisson, Pres
James D Schwoebel, Vice Pres, Admn
H Christian Mueller, Vice Pres, Sls
Gregory A Worsnop, Vice Pres, Fin
Peter K Gruber, Vice Pres, Cust & Liaison Engrg
Charles Delph, Plant Mgr
Gary Buckley, Mgr, Matls
Mary Thacker, Mgr, Qlty Reliability
Jim Rop, Mgr, Mfg Engrg

Pulp Mill Ground Wood, Refiner. Avg. Daily Prod.: Thermomechanical: 30 tons Refiners: 1 1250 hp L36 Defibrator primary. 1 200 hp ROP 20 secondary.

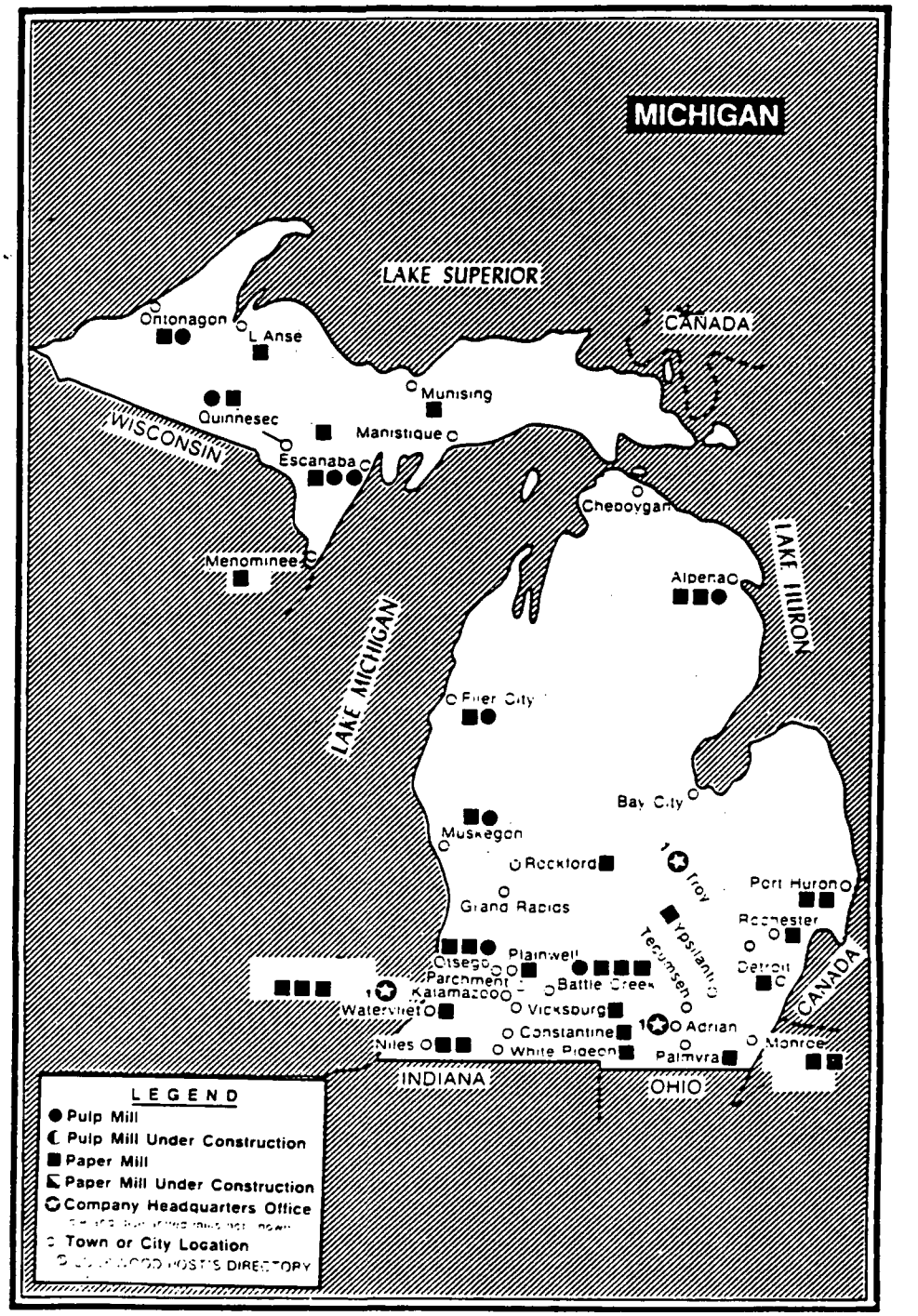
Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper.
Paper Machines. 3 molding machines of own design..

Products. Molded wood fiber products for automotive interior trim

Michigan Paperboard Co. (Subs. of Field Container Corp.) 79 E Fountain St 49016
Tel: 616-963-4004
RR: ConRail, GTW, siding. Hwys: Near US Rte # I-94, I-69, 3 mi. Near State Rte # 66,37,89, 3 mi.
Terry Tiffany, Pres
James M Lambert, Mfg Mgr
C Tobey, Mfg Supt
Gary McMillan, Plant Engr
John Goll, Qlty Mgr
Joseph McCarthy, Contr
Jack Crabtree, Ind Rels Mgr
Neil Hannan, Prchsg Mgr
Jack Roberts, Mech Buyer

Paper Mill Stock Preparation: Pulpers: 3-4000 lb Morden, 1-14', 1-20' Hydrapulper. 1-3000 lb. Refiners: 1 disc. Jordans: 3. Screens: Centrisorter.
Paper Machines. Stevens Formers: 1 seven unit, 120" trim, 750 fpm.
1 six-unit Ultraformer, 98" wide, 96" trim, 450 fpm..
Dryers. Drums: 60"..

Steam/Power. Power Boilers: 2. Fuel: Gas, Oil. Steam, lbs hr.: 80,000.



MHI-00286

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE, NEW YORK, N.Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
BLEACHED HARDWOOD KRAFT PULP

Products. Combination boxboard, 320 tons daily

Waldorf Corp. 177 Angell St 49015-1958
Tel: 616-963-5511 Fax: 616-963-5564
RR: ConRail, GTW siding. Hwys: US Rte # I-94, I-69. State Rte # 66,37,89.
L.M. Spurgeon, Vice Pres
Mark Shapton, Opers Mgr
Don Opala, Plant Engr
Paul Stofer, Tech Supt
Mike Minger, Qlty Mgr
Chris Hansen, Contr
J.H. Matthews, Mgr, Ppr Recycling
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker 3-16' Hydrapulpers;. Screens: 8 Centrisorter Refiners: 4 Sprout Waldron disc. Cleaners: 3 systems.
Paper Machines. 1 six-unit Beloit Bel Bond Former, 146" width, 130" trim, 950 fpm..
Dryers. Drums: 85 60". Calenders: 3 stacks, 1 breaker stack. Hi-Velocity: 2 gas infrared. Winders: 1 Beloit..
Coaters. On-Machine. Rice Barton blade, Black Clawson air knife, 300 tpd cap.
Finishing Plant. Sheeters: 1 Clark Aiken.
Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr.: 450,000.
Electricity: Purchased: 212,500 kwh/day. Generated: 37,500 kwh/day Turbogenerators: 1 Elliott, 2000 kw/kva
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: 2 flotation clarifiers Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined news, bending chip, tube stock, 335 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S. Main St.
RR: D&M siding Hwys: US Rte # 27
Paper Mill Paper Machines. Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim
Products. Sanitary tissue, 100 tons daily
Paper Mill is idle

CONSTANTINE

Simplex Products Group Centreville Rd, E 3rd St 49042
Tel: 616-435-2425 Twx: 510-398-5730
RR: ConRail siding. Hwys. US Rte # 131
Mohamed Fanmy, Vice Pres, Mfg, Nthn Plants
Dick Turvey, Mill Supt
Ken Hartman, Maint Supv
Andrew Jiskra, Shpng/Rcvng Supv
Sandy Munson, Office Mgr
David Erickson, Tech Mgr
Paper Mill Stock Preparation. Pulpers: 2 Screens: 3 Refiners: 4 1 deflaker Other Eqt.. 1 disc filter
Paper Machines Eight-Cylinder 112" Width 100" Trim
Dryers. Drums 4 sets hi-stack
Finishing Plant Other Eqt. Laminators. 2
Steam/Power. Power Boilers 2 Fuel Gas/Oil. Press 150
Electricity Freq, phase. 440 v, 60, 3 Purchased. 100%
Water Treatment. Daily Usage. 70 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment None Effluent to municipal plant
Products. Chipboard, test liner, 150 tons daily.

DETROIT

IVEX Corp. Paper Mill Div. 9125 W Jefferson Av 48209
Tel: 313-842-0042 Fax: 313-842-1055
RR: ConRail siding, Rouge Yard. Hwys: US Rte # IS-75.
Thomas Ellsworth, Mgr
Michael B Zajas, Prod Mgr
Donald Grace, Engrg Mgr
David Ariganello, Mchn Mgr
Paul Zajas, Mchn Mgr
Louis J Sturm, Tech Mgr
Cindy Cornish, Cust Srvc Mgr
James Zajas, Mfg Srvcs Mgr
Kris Brady, Human Rsrcs Mgr
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 7 double disc, 1 Morden. Jordans: 5.
Paper Machines. 1 Yankee MG. Fourdrinier 118" Trim
1 Yankee MG Fourdrinier 124" Trim
1 Yankee Fourdrinier 126" Trim
1 Yankee Fourdrinier 127" Trim
Dryers. Yankee: 4..
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil.
Electricity: Generated: 100%.
Water Treatment. Daily Usage, (n.a.). M.g.p.d. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: City System.
Products. Foil mounting, wrapping, lightweight specialty papers, creped specialties, C1S and C2S papers, printing papers, M.G. specialties, film coated papers, grease-resistant papers, ice cream wrapper, film base, gravure printing, interleaving, creping base, 175 tons daily

ESCANABA

Mead Corp. Publishing Paper Div. PO Box 757 49829-0757
Tel. 906-786-1660 Fax: 906-789-1288
RR: C&NW, WI Cntrl sidings. Hwys: US Rte # 2,41. State Rte # 35
Gary L Butryn, Pres, Gen Mgr
Kirk D Bruno, Vice Pres, Admin
W.R. O'Donnell, Vice Pres, Mktg
W.H. Goode, Dir, Mfg Opers
L King, Gen Supt of Pulping
G.W. Brown, Dir, Prod Tchnlgy
Robert Blake, Mgr, Qlty Assrnc
Rich Abbott, Enviro Control Tech Dir
Mike Fornetti, Util Mgr
Mark H Miller, Mgr, Mktg Srvcs
Michael R Crabill, Contr
Joseph P Hodge, Mgr, Prchsg Srvcs
T.J. Gregoire, Dir Human Rsrcs
Dave Rood, Pub Rels Cnsltnt
James Okraszewski, Gen Mgr, Woodlands
Woodhandling and Preparation Chip Handling: Rader pneumatic system Barkers: 2 14.5'x80' drum Hogs 1 Gruendler bark, 1 Gauld shredder Chippers: 2 116" B.C Chip Screens: 1 screening and slicing system Kone de-icing conveyor
Pulp Mill Kraft Avg Daily Prod. Bl Swd., 875 tons Bl Hwd., 1060 tons of which 50 tons is Market Pulp. Batch Digesters: 8 6,500 cu.ft.
Ground Wood. Refiner Avg Daily Prod. Bl. Hwd., 250 tons Refiners. 4 primary, 2 secondary, 1 rejects. Bauer 48" 4500 hp
Chemical Recovery Plant. Evaporators: 1 6-effect Swenson Recovery Boilers. 1 B&W, 2,800,000 lbs solids/day, 500,000 lbs steam/hr at 1475 psi, 950° Electrostatic Precipitators 1 Koppers on rcvry boiler 1 PCW on No 11 power boiler. Lime Kilns. 1 Allis-Chalmers. Gas Scrubbers: 1 Ducon on recovery boiler, 2 Chemco on No 9 boiler, 1 venturi on kiln. Lime Mud Washers. 1 40'x55' Dorr-Oliver, 9x9 mixer Recausticizing System Dorr-Oliver
Bleach Plant Sequence Gwd 1 stage Kraft: D&C/D-E/O-D-E-D Chlorine Dioxide System: Albright & Wilson R8
Pulp Processing: Screens. RMP 4 Model 100, 1 Model 400 Bird Centrisorter Cleaners: five-stage Noss system Washers 1 13.5'x20' Dorr-Oliver drum filter Deckers 1 12'x19' Dorr-Oliver disc. Drainers: 1 Thune press. Stock Refiners. 2 3-26" Sprout-Waldron Twin-Flo
Screens. Kraft: 2 pnm., 2 sec., 1 tert. Bird trisorter Washers: 4 13.5'x24' Impco brown 5 13.5'x24' Impco bldhd stock Decker 13.5'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper chine modified for pulp drying: 166" width, trim, 1300 fpm, 300 tpd capacity. Cutter-Layer 1 Lamb-Grays Harbor.
Paper Mill Stock Preparation: Pulpers: 3 Hydra ers, 2 continuous Morden, 1 Beloit Jones, 2 drapulper broke. Screens: 6 Centriscreen, 2 Refiners: 13 Sprout-Waldron disc, 5 Defi (broke). Cleaners: 3 five-stage Bauer Centricle Deculator systems.
Paper Machines. P&J Fourdrinier 166" Width Trim 2300 fpm
1 Beloit Fourdrinier 300" Width 274" Trim fpm
1 Valmet Fourdrinier 320" Width 304" Trim fpm
Dryers. Winders: 3 Jagenberg single-drum, 1 C eron MIR, 1 Wartsila two-drum, 1 Cameron drum..
Coaters, off Machine. Trailing Blade, 1-2 1-172", 1-302".
Finishing Plant. Supercalenders: 2 9-roll Bru haus, 2 12-roll Kleinewefers, 2 9-roll Appleto Frame. Roll Wrapping Eqt.: Lamb-Grays Ha automatic with double crimp and header lines. winders: 1 Lenox, 1 Cameron, 1 Jagenberg drum.
Steam/Power. Power Boilers: 4. Fuel: oil, gas, coal. Steam, lbs hr.: 1,600,000. 400/1500 psig.
Electricity: Freq, phase: 60, 3. Installed 100,000. Hydroelectric: 3,000 kwh/day. Tur generators: 70,000 kwh/day.
Water Treatment. Daily Usage, 40,000. M.g. Source: Lake Michigan. Primary Treatment: filters, Marley four-cell cooling tower.
Effluent Treatment. Primary Treatment: Clari Secondary Treatment: Aeration lagoon. Terti Treatment: Clarifier. Activated sludge, 5 Win sludge presses.
Products. Coated book and publication paper 1480 tons daily. Kraft hardwood market pulp, tons daily

FILER CITY

Packaging Corp. of America PO Box 316, Manis 49660
Tel: 616-723-9951 Fax: 616-723-9951, Ext. 39
RR: CSX. Hwys: US Rte # 31.
Fred J Fragomeli, Vice Pres & Mgr
Charles D Smith, Prod Mgr
Carl F Mills, Tech Dir
Richard H Mark, Engrg Mgr
Douglas C Hicks, Fin Mgr
Allen A Gagstetter, Dir, Indl Rels
Beryl G Toler, Wdlnds Mgr
Woodhandling and Preparation Roundwood Stora Capacity 20,000 Cords. Barkers: 1 12'x80' Fl drum. Chippers: 1 112", 12-knife. Chip Screens: HiCap
Pulp Mill Semi-Chemical, Avg. Daily Prod.: soda ca bonate: 600 tons Continuous Digesters: 3 Pand Chemical Recovery Plant. Evaporators: 2 multiple effect. Recovery Boilers: 1 fluidized bed unit.
Pulp Processing: Stock Refiners: 3 American De brator Washers: 1 vacuum, 6 screw press.
Paper Mill Stock Preparation: Pulpers: 3. Screens: Refiners 4 Jones, 5 Sprout Waldron, disc.
Paper Machines. 1 Fourdrinier 174" Width 158 Trim 1400 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 850 fpm
Dryers Drums: 148-60" dia..
Steam/Power. Power Boilers: 4 Fuel: 1 Bark, 1 Ga 2 Coal Steam, lbs hr.: 600,000 Press.. 610 ps
Electricity: Purchased: 305,000 kwh/day. Generated 235,000 kwh/day. Turbogenerators: 3-21,875 kva total.
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: River, Lake.
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.
Products. Corrugating medium, 800 tons daily.

MHI-00287

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U S & WORLDWIDE SOURCES
BLEACHED KRAFT PULP

Paper Machines Seven-Cylinder 124" Width 110' Trim 450 fpm
Dryers Drums 104 Calenders 2 stacks Winders 1
Finishing Plant Rewinders 2 Trimmers 1
Steam/Power Power Boilers Fuel Gas, Oil Steam, lbs hr 70 000
Electricity Purchased 100%
Water Treatment. Daily Usage 750 M g p d Source River
Effluent Treatment. Primary Treatment Joint *municipal-industrial system*
Products Plain chip can and tube board, lightweight chip 130 tons daily

MUNISING

Kimberly-Clark Corp Munising Mill 501 E Munising Av (PO Box 10) 49862-0010
Tel 906-387-2700 Fax 906-387-4767
RR Wis Central Hwys State Rte # M28, M94
Mark Kerstetter Mill Mgr
Eldon Estep Dstrbtn & Plng Mgr
Mike Lindquist Paper Mill Supt
Dave Hultman Pdct & Proc Engrg Mgr
Bill Mills Mgr Qlty Assrnce
Mike Scott Spclties Supt
Gregg Benrud Mgr Fin Srvcs
Richard Bornslaeger Pur Agt
Paper Mill Stock Preparation Pulpers 4 Screens 2 Refiners 2 Jordans 2
Paper Machines 2 Fourdrinier 136 Width 120" Trim
Coaters off Machine 4 Saturators 5
Finishing Plant Supercalenders 1 94" 1-68' Rewinders 5 Sheeters 3 cap 60 tpd Other Eqt 1 Embosser 1 Laminator
Steam/Power Power Boilers 2 Fuel Coal/Wood Waste Oil standby
Water Treatment. Daily Usage 5 000 M g p d Source Lake Superior
Effluent Treatment. Primary Treatment Yes
Products Writing map impregnating coating base saturating coated and saturated specialties 98 tons daily

MUSKEGON

S.D Warren Co (Subs of Scott Paper Co) 2400 Lakeshore Dr 49443
Tel 616 755 3761 Twx 510 394-4300
RR C&O siding Hwys US Rte = 16 31 196 State Rte = 46
Richard N Furer Vice Pres Res Mgr
Don Booker Pulp Util Mgr
John Holland Mgr Cust Srvc
John S Moran Chief Engr
Norm Russell Ppr Mill Fnsng Mgr
Jack D Bultema Tech Dir
S J Patoprsty Mgr Engrg
P G Van Hoesen Mgr Plng & Indl Engrg
William Holtzclaw Pur Agt
Jim Ware Traffic Mgr
P Schulteman Ind Rels Mgr
Woodhandling and Preparation Roundwood Storage Capacity 5 000 cds Chip Storage Capacity 120 000 tons Mobile Equipment Hopto RR crane Poclain crane Flume 1 Log Handling Drag and belt conveyors Chip Handling Rader pneumatic system Sawdust Handling Rader pneumatic system Chip Unloaders Hydraulic truck dumper Barkers 1 30 cds/hr Manitowoc drum Hogs 1 Montgomery Chippers 1 15 knife Carthage Norman Chip Screens 3 Link Belt Avg Daily Use of Peeled Pulpwood 300 cds swd 200 cds hwd
Pulp Mill Kraft Avg Daily Prod Bl Swd 125 tons Bl Hwd 125 tons Continuous Digesters 1 Kamyr Chemical Recovery Plant Evaporators 1 six-effect Swenson Black Liquor Oxidation System Champion system Recovery Boilers 1 C E 750 000 lbs solids/day Lime Kilns 1 Dorr Oliver Fluo-Solids 70 tpd Gas Scrubbers 1 Lime Mud Washers 1 Dorr Oliver Recausticizing System Dorr Oliver Bleach Plant Sequence C E H D Towers 4 Mixers 4 Tank Stock Pumps 1 Chlorine Dioxide System Solvay process
Pulp Processing Knotters 3 Impco Screens 3 Cowan Cleaners 1 three-stage Bauer system Washers 3-9 x 16 Impco vacuum Deckers 2-9 x 16 8 x 8 Impco Other Eqt. 6 pre-refiners (bleached stock)
Pulp Drying Wet Machines 1-100 tpd Kamyr Cutter-Layboys Hamblet Scales 1
Paper Mill Stock Preparation Pulpers 6 Vokes rotor Hydrapulper Screens 2 Selectifiers Refiners 5 Claflin, 1 double disc Jordans 4 Shartle Cleaners 2 Centricleaner three-stage systems with vacuum rejects Consistency Regulators 14 DeZurik, 5 Foxboro Size Cookers 1 continuous, 3 batch
Paper Machines Beloit Fourdrinier 163" Width 144 Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers Drums 40 and 27 48", 55 and 69 60" dia Hi-Velocity 2 Size Presses 2 Calenders 4 Reels 2 Pope Winders 2 two-drum
Coaters, On-Machine Trailing Blade, 1-163" puddle 1-222" Invertablade
Finishing Plant Supercalenders 3-100" 1-87", 1-115", 1-80" Roll Wrapping Eqt D.J Murray system Rewinders 3 Langston Sheeters 1 Lenox folio, 3 100" to 112" Trimmers 3-100" Ream Wrapping & Cartoning Southworth system Strapping Eqt Signode system
Steam/Power Power Boilers 3 Fuel Coal/Oil Steam lbs hr 500 000 Press 500
Electricity Freq, phase 60 3 Purchased 3,500 kwh/day Generated 19 000 kwh/day Turbogenerators 3-25 500 kw
Water Treatment. Daily Usage 20 000 M g p d Source Lake Primary Treatment Eimco
Effluent Treatment. Primary Treatment County spray irrigation system
Products Machine coated book cover and matte coated papers

NILES

French Paper Co *100 French St (PO Box 398)* 49120
Tel 616-683-1100
RR ConRail siding Hwys US Rte # 31 12 State Rte # 60 51
J E French Chmn Bd
B R Bigford Pres
Jerry E French Exec Vice Pres Treas
David L Bruce Jr Vice Pres Supt
Jerry Koch Sec
Duane Bodfish Chief Engr
Tad Kline Sales Srvc
Tom Tokarz Pur Agt
Paper Mill Stock Preparation Pulpers 3 Dynapulper 1 Slushmaker Refiners 2 Claflin Jordans 4
Paper Machines B&S Fourdrinier 96 Width 84' Trim
P&J Fourdrinier 118' Width 107 Trim
Dryers Winders 3
Finishing Plant Sheeters 2 Trimmers 2 Other Eqt 2 Embossers
Steam/Power Power Boilers Fuel Coal Gas Oil Press 150
Electricity Freq, phase 440v 60 3 Installed H P 1600 electric 1600 water
Water Treatment Daily Usage 800 M g p d Source Deep wells
Effluent Treatment Primary Treatment Yes Secondary Treatment Yes
Products White and colored offset opaque cover embossing greeting card text and specialty papers 65 tons daily

Simplicity Pattern Co , Inc 901 Wayne St 49121
Tel 616-683-4100 Tlx 258459
RR ConRail Hwys US Rte # 12 31 State Rte # 60 40
Chuck Dewitt Vice Pres Plt Dir
Tilden Weist Paper Mill Supt
Tom DeForest Dir Engrg & Ppr Making
R DeForest Plant Engr
T Smit Plant Contr
R Stewart Pur Agt
N Wilson Distrib Mgr
S Hart Ind Rels Dir
A Seaman Traf Mgr
Paper Mill Stock Preparation Pulpers 3 Dynapulpers Screens 1 Refiners 4 Jordans 1 Cleaner Consistency Regulators 2 Other Eqt 2 Save
Paper Machines Stevens Formers 1 162 150' trim 1000 fpm
Dryers Drums 8 and 12 - 48 dia Calender 7-roll 1-2 roll Reels 1 Winders 2 Shear Cu
Steam/Power Power Boilers 1 Fuel Gas, Steam lbs hr 35000 Press 100 psi
Electricity Freq, phase 60 3 Installed H P 3 2
Purchased 32 000 kwh/day
Water Treatment. Daily Usage 1 000 M g p Source Wells
Effluent Treatment. Primary Treatment Yes
Products. Pattern tissue 33 tons Interleaving p pers 40 tons daily

ONTONAGON

Stone Container Corp Ctnrbd & Paper Div One S perior Way 49953
Tel 906-884-2021
RR Escanaba & Lake Superior Hwys US Rte # 4 State Rte # 64
Ron Howard Gen Mgr
Richard Jakob Prod Mgr
J R Richardson Tech/Env Mgr
Dave Schmidt Paper Mill Mgr
Mark Szczepanik Pulp/Power Mgr
Peter J Whiteneck Emply Rels Mgr
James Walchuk Mgr Engrg & Maint
James P Ninefeldt Contr
Robert Schon Pur Agt
Woodhandling and Preparation Chip Storag Capacity 50 000 tons Mobile Equipment 1 Pet bone Cary-Lift 2 D-7 dozers Chip Handling Rade pneumatic Sawdust Handling Rader drag chain Orton rail crane Chip Screens three-stage Rade disc Avg Daily Use of Peeled Pulpwood 1100 ton purchased hwd chips
Pulp Mill Semi-Chemical Avg Daily Prod Sodium Carbonate Unbl Hwd 520 tons Continuous Digest ers 2 Pandia
Chemical Recovery Plant Evaporators 1 six-body four-effect Goslin Copeland fluidized bed reactor
Pulp Processing Hot Stock Refiners 2 Sunds Washers 1 Eimco 1 Swenson
Paper Mill Stock Preparation Pulpers 3 Refiners Bolton Emerson 5 Sprout-Waldron Screens 1 Bi Centriscreen Cleaners Bauer Centricleaners Con sistency Regulators DeZurik
Paper Machines 1 P&J Fourdrinier 177' Width 160 Trim 1500 fpm
1 Black Clawson Fourdrinier 180' Width 162 Trim 1800 fpm
Dryers Drums 120 Calenders 2 Winders 2
Steam/Power Power Boilers 1 3 package Fuel Gas Coal Oil Bark Press 350 000 Press 1500/250/175/70 psi
Electricity Freq phase 60 3 Installed H P 13500 Purchased 40% Generated 60% Turbo generators 1 GE 15 000 kw
Water Treatment Daily Usage 4 500 M g p d Source Lake Superior Primary Treatment None
Effluent Treatment *Primary Treatment 1 Clarifier* Secondary Treatment clarifier activated sludge gravity thickener belt filter press
Products Semichemical corrugating medium 680 tons daily

OTSEGO

Menasha Corp Paperboard Div 320 N Farmer St (PO Box 155) 49078-0155
Tel 616-692 6141 Fax 616-692 2060
RR ConRail siding Hwys US Rte # 131 State Rte # 89
James Porter Gen Mgr
J Bonham Engrg & Tech Srvcs Mgr
T Howard Acctg Mgr
J Burliegh Pur Agt
R Kuipers Mgmt Forester
Woodhandling and Preparation 2 hydraulic truck dumpers chip thickness screening Avg Daily Use of Peeled Pulpwood 650 green tons purchased chips
Pulp Mill Semi Chemical Avg Daily Prod Unbl Hwd carbonate cook 310 tons Continuous Digest ers 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers Dorr Ol

MHI-00288

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THE PAPER TIGERS

KALAMAZOO

Kimberly-Pacific Corp. Communication Papers Div. 2305 King Hwy 49001
Tel: 616-382-2890 Fax: 616-343-9428
RR: ConRail, GTW, siding. Hwys: US Rte # I-94.
Pres: Sullivan, Gen Mgr
Pulp Mill Deinked Pulp: Avg. Daily Prod.: 2 lines of 110 primary and 2 secondary flotation cells, 110 tons
Bleach Plant. Sequence: 1 hydrosulphite stage. **Towers:** 1 downflow.
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 6-1500 lb, 6-2500 lb, 2-3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 185" Width 163" Trim 2500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm
Dryers. Size Presses: 1..
Coaters, off Machine. 1 Billblade.
Steam/Power. Power Boilers: 1. Fuel: Coal, Gas.
Steam, lbs hr.: 245,000. Press.: 875 psi.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.
Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Clarifiers. Joint municipal system.
Products. Bond, offset, label, coated and recycled grades, 400 tons daily.

James River Corp. Paperboard Div. 243 E. Paterson 49007
Tel: 616-383-5000 Fax: 616-383-5413
Headquarters Location. See Executive Offices section for more details.
RR: ConRail, CK & S siding. Hwys: US Rte # 12, 13, I-94, State Rte # 43.
Richard M Bennett, Plant Mgr
Tony Earles, Supt, Plt 4
Robert Zapf, Supt, Plt 7
Rudy Ortiz Jr, Supt, Plt 14 (Cnvtg)
Robert A Nitz, Tech Dir
Phil Zimgibl, Mgr Engrg, Util
Jim Heffner, Sr Proj Mgr
Joseph Gasperetti, Maint Mgr
Peter Oppenhuisen, Contr
R Keith Lolley, Empl Rels Mgr
Paper Mill Stock Preparation: Pulpers: 7 Hydrapulpers, 1 Morden Slushmaker. Screens: 21.
Paper Machines. Seven-Cylinder 132" Width 120" Trim
Eight-Cylinder 154" Width 140" Trim
Coaters. On-Machine.2 Air Knife, 2 Rod.
Extrusion. Trim Width, 1-76" double-head Beloit PE coater.
Finishing Plant. Other Eqt.: 1 56" Inta-Roto laminator.
Steam/Power. Power Boilers: 4. Fuel: Gas/Oil. Steam, lbs hr.: 300,000.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Deep well.
Effluent Treatment. Primary Treatment: City syst.
Products. Machine clay-coated folding boxboards, foil laminating, moisture resistant laminated, polyethylene coated, 540 tons daily.

Nickel Paper Co. 2305 E. King Hwy
RR: ConRail siding. Hwys: US Rte # 12.
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack..
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage, 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Recycled 69 lb. linerboard, 160 tons daily Paper Mill is idle.

Performance Papers Inc. 2030 Portage St
RR: ConRail sidings. Hwys: US Rte # IS 94, 131. State Rte # 43,96.
Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim
1 Fourdrinier 139" Width 126" Trim
1 Fourdrinier 141" Width 127" Trim
1 Fourdrinier 154" Width 142" Trim
1 Fourdrinier 164" Width 152" Trim
Coaters, off Machine. C2S Fountain Blade, 126" trim.
Steam/Power. Power Boilers: Fuel: Oil/Gas.
Water Treatment. Source: River, Wells.
Effluent Treatment. Primary Treatment: 2 clarifiers.
Products. Bible, bond, uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 275 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Paper Mill is idle.

★Silverleaf Paper Corp.
Headquarters Location. See Executive Offices section for more details.

L'ANSE

The Celotex Corp. 49946
Tel: 906-524-6101
RR: Soo Line. Hwys: US Rte # 41.
C.N. Abbott, Plant Mgr
Paper Mill Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 Fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater.
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100%.
Water Treatment. Source: Bay.
Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products, 270 tons daily.

MANISTIQUE

Manistique Papers Inc. (Subs. of Kruger Inc.) 453 S Mackinac Av 49854
Tel: 906-341-2175 Fax: 906-341-5635
RR: Soo Line siding, WI Cntrl. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagsted, Pulp Mill Supt
Charles Greene, Paper Mchne Supt
Ray Zimmerman, Plant Engr
Donald Schnurer, Pur Mgr
Larry Koski, Sales Mgr
John G Erickson, Tech Dir
Walter Alexander, Treas
Pulp Mill Deinked Pulp: Avg. Daily Prod.: cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin.
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim, 4200 fpm..
Dryers. Drums: 48 60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit..
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 145,000. Press.: 350.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Recycled and colored newsprint, groundwood printing and groundwood converting papers, 250 tons daily.

MENOMINEE

Menominee Paper Co Inc. (Sub. of Bell Packaging Corp.) 144 First St (PO Box 310) 49858-0300
Tel: 906-863-5595
RR: ELS. Hwys: US Rte # 41. State Rte # 173.
Donald Estebo, Gen Mgr
Julius Nagy, Mgr Ppr Pdcts
Donald E Beason, Gen Mgr, Sondry Fibre
Steven M Courtney, Tech Dir
Alfred J Bickel, Chief Engr
Douglas Stemen, Cnvtg Supt
Larry Eggleston, Sales Mgr, Board
Cal Claremont, Mgr Prchsg
Thomas J Krause, Contr
Kenneth Jacobson, Pers Mgr
John R Owens, Bd Cust Srvc Mgr, Sls Rep
Mary Ann Nyman, White Ppr Cust Srvc Mgr
Dave Nielsen, Traf & Shpng Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin, Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Slitter/Rewinders: 3. Other Eqt.: Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Linerboard, corrugating medium, tube stock, bag stock, 360 tons daily. Baking cup stock, waxing tissue, lightweight MG, 60 tons daily. Waxed paper in rolls, sheets, and bags.

MONROE

Monroe Paper Co. 1220 E Elm Av 48161
Tel: 313-241-7700
RR: ConRail, Grand Trunk. Hwys: Near US Rte # IS-75, 1 mi. State Rte # 50.
Robert J Mitchell, Pres, Chf Optg Ofcr
J Henderson, Plant Mgr
P.M. McBee, Plant Srvcs Mgr
J.D. Sorenson, Tech Supt, Mill Engr
N.D. Lee Jr, Dir, Prchsg
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 2-20' and 1-16' Hydrapulper. Screens: 21 Selectifier. Refiners: 6-32" Bauer 442 disc, 2-34" S-W. Jordans: 6 Miami 2A, 2 Emerson 2-OD. Cleaners: 8-10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. B-C Seven-Cylinder 110" Width 98" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums: 127, 103, and 137-42" dia. Reels: 2 Autoflyte. Winders: 2 two-drum..
Steam/Power. Power Boilers: 2. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 240,000. Press.: 600/175 psi.
Electricity: Freq, phase: 60, 3. Generated: 6,000 kwh. Turbogenerators: 2-7500 kw, 2000 kw, 2-1000 kw diesel generators.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily.

Jefferson Smurfit Corp. Industrial Packaging Div. 1151 W. Elm Av. 48161
Tel: 313-241-7776
RR: C&O siding. Hwys: US Rte # 24, I-75.
Robert H Degraer, Reg Mgr
A Bussell, Mill Prod Mgr
Edward G. Strass, Tech Mgr
W Manor, Chief Engr
Gary VanWormer, Fnsng Supt
Greg Keefer, Plant Contr
N Lee Jr, Pur Agt
E Flotow, Sales Rep
G Scovronski, Sales Rep
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 1 Sprout Waldron, 2 Emerson. Jordans: 3 Shartle.

MHI-00289

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THE PAPER TIGERS

ver fluid bed incinerator
Pulp Processing Stock Refiners 5 S-W primary 3 Bauer 4 S-W secondary 2 DKP dewatering presses
Paper Mill Stock Preparation Pulpers Secondary fiber prep 1 14 Hydrapulper 5 HDC s 1 fiberizer 1 Centrisorter 1 stage reverse Noss and 1 stage reverse Krofta cleaners Other Eqt 1 Impco disc filter on white water
Paper Machines 1 Fourdrinier 176' Width 163' Trim 2150 fpm two-nip suction first and blind drilled second press 54 dryers
1 Fourdrinier 92 Width 80 Trim 800 fpm 2 suction presses 41 dryers
Steam/Power Power Boilers 4 Fuel Coal, Gas Steam lbs hr 240 000 Press 600 psi Electricity Purchased 10 000 kw Generated 4000 kw Turbogenerators 1-4000 kw/kva
Water Treatment Daily Usage 2 200 M g p d Source Wells
Effluent Treatment. Secondary Treatment. Aeration ponds
Products. Corrugating medium 550 tons daily

ck-Tenn Co. Paperboard Products Div 431 Helen Av 49078
Tel 616-692 6211 Fax 616-692-6581
RR ConRail siding Hwys Near US Rte # 131 Approx Mi 2 State Rte # 89
Walter K Lancaster Mill Mgr
D Goodman Ppr Mill Supt
B.S. Cichon Tech Dir
J Santana Prchsg Mgr
Jack Harvey Plant Engr
Dave Johnson Mgr Prod Control
T Thompson Cnvtg Mgr
J Klein Salesman
Paper Mill Stock Preparation Pulpers 1 3000 lb Morden Slushmaker 3 Hydrapulpers Screens 8 Refiners 2 34 Jones DD 1 Bauer double disc Jordans 4 Cleaners Black Clawson Bird filler 1 asphalt dispersion unit
Paper Machines Eight Cylinder 140 Width 126 Trim
Dryers Drums 163 Calenders 2
Coaters Extrusion Trim Width 1 86 Egan PE extrusion coater
Steam/Power Power Boilers 3 Fuel Coal/Gas/Oil Steam lbs hr 134 000 Press 875/300 psi Electricity Freq phase 60 3 Installed H P 8000 Purchased 41 000 kwh/day Generated 64 000 kwh/day Turbogenerators 4000 kw Westing house 3000 kw Stal Laval
Water Treatment Daily Usage 450 M g p d Source 4 Wells Primary Treatment Chlorination Secondary Treatment iron stabilization
Effluent Treatment. Primary Treatment 2 clarifiers Secondary Treatment 2 stabilization basins 8 aerators
Products Plain and bending chip filled and solid news jute lined woodgrain laminated specialties building polyethylene coated boards 250 tons daily

PALMYRA

Sorenson Paperboard Corp (formerly Big M Paperboard) 6240 E US 223 (PO Box 135) 49268
Tel 517 263 5160 Fax 517 265 3604
Hwys US Rte = 223
Merritt Sorensen Pres
Cathleen Sorenson Vice Pres Sec
Judith Sorenson Treas
Paper Mill Stock Preparation Pulpers 1 10 1 12 1 16 Hydrapulpers Screens 6 P 12 pressure Refiners 2 Bauer disc Jordans 3 Other Eqt 1 1000 gpm and 1 1500 gpm Sveen Pedersen savealls
Paper Machines Beloit Six Cylinder 80 Width 78 Trim
Steam/Power Power Boilers Fuel Gas Press 150 psi
Electricity Freq phase 60 3 Purchased 100%
Water Treatment. Daily Usage 120 M g p d Source River
Effluent Treatment Primary Treatment Yes
Products. Chipboard white-lined kraft-lined can tube and drum stock pad stock 85 tons daily

PARCHMENT

James River Corp. Packaging Papers Mill 100 Island Av 49004
Tel 616-383 5000
RR ConRail CK & S siding Hwys US Rte # 12 131 I-94 State Rte # 43
Robert Huiskamp Vice Pres Opers
Zigmund J Lebiecki Mgr UM&E
James Butler Gen Supt Pprmkg
Brent Schriener Mgr Mfg Srvcs
Donald Lewis Gen Supt Ctrs & Yankees
Martin Reschner Supt Prchmt Mchns
Jerry Buchheit Tech Dir
Paper Mill Stock Preparation Pulpers 1-6000 lb 1 2000 lb and 2-4000 lb Morden Slushmakers 1-2500 lb Pulpmaster 1 Barracuda 2-6000 lb and 1 1000 lb Hydrapulpers Beaters 2 2500 lb Vortex 3 2500 lb Horne 2 2000 lb Jones Refiners 5 34 disc (1 800 hp 4 700 hp) Screens Bird Centriscreen Jordans 8 Majestic 17 Fibremaster Other Eqt Secondary Fiber Mill 150 tons daily capacity
Paper Machines Horne Harper Fourdrinier 117" Width 104 Trim 750 fpm
P&J Fourdrinier 163' Width 148' Trim 1100 fpm
B&S Fourdrinier 165' Width 148 Trim 1400 fpm
Beloit Fourdrinier 167 Width 148 Trim 1800 fpm
1 Yankee Fourdrinier 139 Width 126 Trim 1100 fpm
1 Yankee Fourdrinier 139 Width 126' Trim 1350 fpm
Dryers Calenders 5 Size Presses 5
Coaters off Machine Air Knife 1 Blade 3 Solvent 1
Finishing Plant Supercalenders 2 Rewinders 7 Sheeters 2 Trimmers 3 Other Eqt 5 parchmentizing machines 80 and 100 trim
Steam/Power Power Boilers 3 Fuel Gas/Oil Steam lbs hr 400 000
Water Treatment. Daily Usage 5 000 M g p d Source Well
Effluent Treatment. Primary Treatment Clarifier Secondary Treatment Aeration lagoon
Products. Waterleaf vegetable parchment bond greeting card parchment coating base MG and MF waxing MG and MF foil backing MG and MF bag dry waxed dog food liner lightweight coated coated bag fluorochemical treated lightweight publishing NASTA spec book publishing pressure sensitive and hot melt release papers Mill No 1 100 tons daily Mill No 2 320 tons daily

PLAINWELL

Simpson Plainwell Paper Co 200 Allegan St 49080
Tel 616 685 5851 Fax 616 685 6504
RR ConRail siding Hwys US Rte = 131 State Rte = 89
Robert Green Prod Mgr
Dennis Kelly Gen Supt Ppr Mfg
Scott Sleeman Mchn Supt No 18
Richard J Thomas Mgr Fnshng & Matl Hndlg
Gary N Longworth Mgr Engrg
Wendell Chichester Mgr Mfg Srvcs
Alan K Bruner Supt Distr
Barbara J Bradley Prchsg Agt
Robert Tardiff Mgr Qlty Confrnce
Kay C Woodruff Supv Testers
Bruce Bracken Mgr Emply Rels
George Lawton Tech Dir
James R Allen Tech Supt
Henrietta Kaye Compt
Paper Mill Stock Preparation Pulpers 1 6000 lb and 1 4000 lb Hydrapulper Refiners 8 double disc Jordans 3 Stock Mixers 3 blend chests
Paper Machines 1 Fourdrinier 112 Width 98 Trim 850 fpm
1 Fourdrinier 135 Width 118 Trim 900 fpm
1 Fourdrinier 135 Width 120 Trim 2000 fpm
Dryers Size Presses 3
Coaters On-Machine Trailing Blade 2 120 Capacity 140 tons daily
Finishing Plant Supercalenders 1 126 1 130 Roll Wrapping Eqt 1 automated line Rewinders 2 Sheeters 3 Trimmers 2 Other Eqt 1 60 dual roll embosser
Steam/Power Power Boilers 4 Fuel Coal Gas/Oil Steam lbs hr 205 000 Press 265 psi Electricity Freq phase 60 3 Purchased 160 000 3250 000
Water Treatment. Daily Usage 2 700 M g p d Source wells
Effluent Treatment. Primary Treatment. 1-Clarifier Secondary Treatment Attisholz activated sludge process
Products. Coated and uncoated book and cover release base technical specialties 260 tons daily

PORT HURON

E.B. Eddy Paper Inc. (Affl of E B Eddy Forest Products Ltd) 1700 Washington Av 48060
Tel 313-982 0191 Fax 313-982 7124
RR GTW siding Hwys Near US Rte # I 94 Approx Mi 1 State Rte # 21 25
A Richard Wagner Res Mgr
Kirk S Olson Dir Opers
Joseph C Fiedler Mtrls Mgr
William M Fries Dir Engrg & Capital Proj
C Dale Hoy Sec Contr
Howard L Hunter Tech Dir
Gary W Foster Engrg Mgr
Frank M Worden Util Supt
Kenneth A Wood Maint Mgr
Ans E Modon Dir Human Rsrcs
Celeste Lewis-Bradley Mgr Prod Cntrl
Robert L Andrews Mgr Budget & Insrnc
Paper Mill Stock Preparation Pulpers 5 Screens 6 Refiners 40 Jordans 7 Cleaners 6
Paper Machines Yankee Fourdrinier 126 Width 120 Trim 700 fpm (idle)
Yankee Fourdrinier 132 Width 123' Trim 700 fpm (idle)
Yankee Fourdrinier 143 Width 127 Trim 1200 fpm
1 Fourdrinier 132 Width 116 Trim 1200 fpm
1 Fourdrinier 184 Width 156 Trim 1800 fpm
Yankee Fourdrinier 210 Width 186' Trim 2500 fpm
Dryers Drums 83 Yankee 4 Size Presses 5 Calenders 7 stacks Winders 6
Finishing Plant Rewinders 1
Steam/Power Power Boilers Steam lbs hr purchased
Electricity Purchased 80%
Water Treatment Daily Usage 7 000 M g p d Source St Clair River
Products Carbonizing coil winding coating base foil mounting interleaving kraft specialties laminating offset opaque grease resistant pan liners lightweight printing book wet strength and specialties 270 tons daily

James River Corp Packaging Papers Mill 218 River view St 48060
Tel 313 984 5523 TWX 810 231-7053
RR GTW siding Hwys US Rte # IS-94 IS-69
James R Scony Vice Pres Res Mgr
Brent Earnshaw Mgr Tech Opers
Peter R Hoppe Mgr Fin & Adm
Gregory A Howe Contr
Alan C Crawford Mgr Prchsg
Robert Ferguson Mgr Indl Rels
Denny Klinkman Machine Supt Dry End Opers
Paper Mill Stock Preparation Pulpers 8 Refiners 14 Jordans 2
Paper Machines No 1 Beloit Yankee Fourdrinier 137 Width 124 Trim 1500 fpm
No 2 Beloit Yankee Fourdrinier 134 Width 121 Trim 1200 fpm
No 3 Allis Chalmers Yankee Fourdrinier 150 Width 134 Trim 2000 fpm
No 4 Yankee Fourdrinier 137 Width 124 Trim 1200 fpm
Dryers Yankee 3 12 1 18 dia units Size Presses 4 Calenders 3 variable crown Winders 4
Coaters On Machine 2 Blade 1 two-stream 1 short dwell
Finishing Plant Rewinders 1
Steam/Power Power Boilers 3 Fuel Oil/Gas Steam lbs hr 76 000 Press 600/200
Electricity Freq phase 60 3 Generated 3 gas-fired turbines rated at 5 8 Mw ISO each 2 51 000

MHI-00290

HOWARD ZUKER ASSOCIATES
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THE PAPER TIGERS

lbs/hr waste heat recovery boilers.
Products. Lightweight coated, release treated, foil mounting, twisting, soft calendered, double side coated, MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

QUINNESEC

Champion International PO Box 211, Norway 49870-0211
Tel 906-779-3200 Fax: 906-779-3307 Tlx: 234273
RR: C&NW Hwys: US Rte # 2.
Jeffrey A Hearn, Vice Pres, Opers Mgr
Dick Diforio, Dir Enviro Affrs (Stamford)
Eddie Plemmons, Maint & Engrg Mgr
Bill Stephenson, Process Control Mgr
Mark F Pontti, Cmmnty Affrs Mgr
George Curran, Matl Srvcs Mgr
Joe Deschene, Rcvry & Util Mgr
Jack Louthain, Plt Contr
Steve Perry, Pdct Srvcs
Randal Lorenz, Admn/Human Rsrcs
Woodhandling and Preparation Roundwood Storage Capacity 8,400 cds. Chip Storage Capacity: 30,000 cds;. Barkers: 2 Murco drum;. Chippers: 1 Murco;. Chip Screens: 2 Rotex, 1 Rader scalper.
Pulp Mill Kraft. Avg. Daily Prod.: Bl. Hwd., 845 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film Recovery Boilers: 1 B&W, 491,000 lbs steam/hr Electrostatic Precipitators: 1 Research Cottrell,.
Bleach Plant Sequence. Cd-E/O-D-D
Pulp Processing: Washers: 1 3-drum D-O brown stock. Screens 3 primary, 1 secondary Bird. Cleaners Bauer Centricleaner unbleached, 4-stage Noss bichd Deckers. 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers: 1 240" KMW Dryers: 1 Flakt air-float. Cutter-Layboys: 1 224" Lamb
Paper Mill Paper Machines No 41 Beloit Fourdrinier 280" Trim 3500 fpm.
Coaters, On-Machine.2
Steam/Power. Power Boilers: 1 B&W, 1 C-E package Steam lbs hr. 675,000
Electricity Turbogenerators, 1 30 Mw Stal-Laval
Water Treatment. Daily Usage, 15,000 M g.p.d Source River
Effluent Treatment. Primary Treatment: 2 150' Eimco clarifiers Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering.
Products. Bleached hardwood kraft market pulp, 750 tons daily Coated free sheet, 750 tons daily

ROCHESTER

Custom Papers Group Inc. (Subs of Specialty Coatings Group Inc.) 340 Mill St 48307
Tel 313-651-8121
RR GTW siding Hwys US Rte # 10 State Rte # 150
Stanley S Luczycki, Res Mgr
Jan Ceselli Mgr Admin
Rick Lapanowski Ppr Mchne Supt
Gregg Hunsager Mgr, Pdctn & Schdlg
Kenneth G Roth Tech Dir
Wayne Broadhead Plant Engr
Michael Quick, Cust Srvc Mgr
Paper Mill Stock Preparation Pulpers 1 Jones Hi-Lo Beaters 1-1000 lb Screens 1 Parker Jordans 2 Noble & Wood 1 Jones Fibremaster
Paper Machines 1 Fourdrinier 66" Width 62" Trim
Dryers Size Presses 1 Calenders 1 stack
Coaters On-Machine 1-62' roll saturator, 20 tons daily cap
off Machine 1-62" roll laminator, 12 tons daily cap
Finishing Plant Rewinders 1-72" Cameron Sheeters 1-72' 1-84 Trimmers 1-50" 1-84" Other Eqt Punch Presses 2 Die Cutters 1-32x60 Sheridan Sewing Machines 1
Steam/Power. Power Boilers Fuel Oil Press 100 psi
Electricity Freq, phase 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 150 M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens, speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. Div. of Midwest Folding Carton, Inc. 7734 Childsdale Rd, NE (PO Box 560) 49341
Tel: 616-866-3421
Hwys: Near US Rte # 131 Approx Mi 3.
James Isabell, Gen Mgr
Ron Fox, Mill Mgr
Eric Stevens, Maint Supt
Craig Linderman, Prod Supt
Joan Beineman, Sales Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: Black Clawson low-intensity with X-clone on filler system. Consistency Regulators: DeZurik. Other Eqt.: allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 69" Trim 350 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks..
Coaters, On-Machine.1 Waldron Microjet air knife, 1 Kohler rod
Finishing Plant. Trimmers: 1.
Steam/Power. Power Boilers: 1. Fuel: gas. Steam, lbs hr.. 60,000. Press.. 150 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water Purchased: 1500 kva.
Water Treatment. Daily Usage, 20. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade 100 tons daily

TROY

★**Abitibi-Price Corp.** Building Products Div
Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St (PO Box 157) 49097
Tel 616-649-0510 Twx 810-277-1710
RR ConRail siding Hwys Near US Rte # 131, IS-194, IS-94, 6 mi
Roger Huckendubler Opers Mgr
Dallas Weybright Gen Supt
Jeff Honour Ppr Mchns Supt
Gary Vandlen Fnshng & Coating Supt
Michael Herbert Tech Dir
C Globig, Mgr R&D
Bruce Block, Plant Engr
Bruce Kroeze, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan Pers Dir
Don Nay, Estrn Sls Mgr
Paper Mill Stock Preparation Pulpers 3 Jones Pulpmaster Beaters 2-1500 lb, 2-1000 lb Bertrams. Screens 5 Refiners 3 double disc Morden Jordans 5 Jones Imperial
Paper Machines 1 Fourdrinier 121" Width 105" Trim 300 fpm
1 Fourdrinier 132" Width 112" Trim 500 fpm
1 Fourdrinier 134" Width 114" Trim 600 fpm
Dryers Drums 122 Size Presses 4 Calenders: 3 stacks Winders 3
Coaters, off Machine Air Knife, 1 52
Finishing Plant. Supercalenders 2-56
winders: 6 Sheeters 3-57", 61", 61"
3-66" 75", 110"
Steam/Power. Power Boilers 2 Fuel
Steam, lbs hr.. 80,000
Electricity Purchased: 100%
Water Treatment. Daily Usage, 2,500
Source River, Wells
Effluent Treatment. Primary Treatment
Secondary Treatment: Aeration basin, spra tion.
Products. Blueprint, rag and sulphite bond
pasted bristol, check, book (antique, eggs MF, SC, coated, offset), collotype, cove diazo, embossing, rag and sulphite drawing ing card, duplicator, guide stock, ledger, cover, linen finish, playing card, safety mount, photographic base, rag translucent, reproduction, writing, and 100% recycled pers, 100 tons daily

WATERVLIET

Silver Leaf Paper Corp. (formerly Watervliet Co.) 279 Paw Paw Av 49098
Tel: 616-463-3141 Fax: 616-463-2850
RR: siding, Hwys: US Rte # I-94, State Rte
Elmer Beale, Pres
Paper Mill Stock Preparation: Pulpers: 4 Refine Sprout Waldron, 4 Hydradisc Jordans 1 Jor
Paper Machines, 1 Fourdrinier 124" Width 1 Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000
Dryers, Drums: 85, Size Presses, 2, Calender Winders: 2..
Coaters, off Machine Air Knife, 4, 92", 88", 66"
On-Machine.1 128", 1 118" Blade
Finishing Plant. Supercalenders: 5, 119", 6 80", 86", 96" Rewinders: 2, Sheeters: 4-76" 101" Trimmers: 4-85" and 100" Other Eqt. Black Clawson Laminator 1 62" Embosser
Steam/Power. Power Boilers: 3. Fuel: Coal. Ste lbs hr 90,000 Press., 235
Electricity Installed H P 450 water Purchas 100%.
Water Treatment. Daily Usage, 1,200 M.g.p. Source: wells.
Effluent Treatment. Primary Treatment: Spray gation
Products. Coated: book and offset, C1S litho, co postcard, playing card stock, C1S label, greet card, embossed papers, foil mounting, rotogravu 160 tons daily.

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601
RR ConRail siding Hwys: US Rte # 12
William Schmidt, Pres
Russell Gave, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane Plant Contr
Patsy Brown, Prchsg Mgr
Roger Cholometes Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation Pulpers 4 Hy drapulper Screens 6 Refiners 5
Paper Machines 1 seven-unit Ultraformer, 1 trim
Dryers Drums 41 Calenders 2
Coaters On-Machine Air Knife and Rod
Finishing Plant Rewinders 1 Trimmers 1-85
Steam/Power. Power Boilers 2 Fuel Oil/Ga
Steam, lbs hr. 180,000 Press. 500 psi
Electricity Purchased 100%
Water Treatment. Daily Usage, 250 M g p d
Source River
Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment 6 Settling Basins
Products. Clay-coated boxboard, 185 tons daily

YPSILANTI

James River Corp Ypsilanti Mill, Curtis Div 1000 Huron St 48197
Tel: 313-482-2600 Twx: 810-223-7004
RR: ConRail siding Hwys. US Rte # I-94
Edward G Gremban Vice Pres

MHI-00291

• CENTRAL NATIONAL–GOTTESMAN INC. •
100 PARK AVENUE NEW YORK, N Y 10017 212-532-7300
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
EXPORT WOODPULP

Ted Johnson, Res Mgr
Addison D Mooken, Tech Dir
Gerald Linzmeyer, Enviro Mgr
Richard Franklin, Plant Engr
Steven D Schultz, Pdct Devl Mgr
John Burrows, Mgr, Papermaking
Harold Rhora, Logstcs Mgr

Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper. Renners: 1 Morden. Jordans. 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistancy Regulators: Fischer Porter. Stock Mixers: Lightin' agitators.

Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm

Dryers. Drums: 29-36". Size Presses: 1. Calenders: 1 stack. Winders: 1..

Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning: Hayssen banding unit. Other Eqt.: Embossers: 3. Printer-Embossers: 1. Pasters: 1 duplex.

Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 130.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.

Water Treatment. Daily Usage. 500. M.g.p.d. Source: Wells. River. Primary Treatment: yes.

Effluent Treatment. Primary Treatment: City sewer system.

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Georgia-Pacific Corp. Hardboard Plant 280 Nymore Rd NE (PO Box 518) 56601

Tel: 218-751-5140 Fax: 218-751-5831
RR: BN siding. Hwys: US Rte # 2,71,371.
Robert W Riley, Res Mgr
Richard C Brown, Plant Supt

Woodhandling and Preparation Barkers: 1-21" Manitowoc. Chippers: 1-12' Hansel Avg. Daily Use of Peeled Pulpwood. 100 cds aspen.

Pulp Mill Defibrated Wood Pulp Avg. Daily Prod.: Unbl. Hwd., 100 tons Continuous Digesters: 2 30' Grenco.

Paper Mill Paper Machines. Hardboard machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems.

Steam/Power. Power Boilers. 1. Fuel: Bark. Steam, lbs hr., 14,000 Press 200
Electricity: Freq, phase: 440v, 60, 3 Installed H.P 2350 electric. Purchased 30,000 kwh/day

Water Treatment. Source. City

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types. S2S. 290 Msf daily cap. (100 tons daily)

BRAINERD

Potlatch Corp. Northwest Paper Div Mill Av 56401

Tel 218-828-3200 Fax 218-828-3283 Twx. 910-561-3508
RR Burl Nthrn Hwys US Rte # 210,371.
Richard L Paulson, Vice Pres, Mfg
Roderick W Petron, Mgr Qlty Srvcs
Thomas J Westerback, Mgr Ppr Mfg
Erwin D Kosloski, Mgr Tech Srvc
Daryl L Hartman Mgr Mech Srvc
Robert A Krell, Mgr Emply Rels
Elmer W Walls, Mgr Fnshg & Shppg
Charles O Provost, Mgr Ctg
David E Dinham Pur Agt
Terrance M Trettel, Mgr Traffic

Paper Mill Stock Preparation Pulpers 4 Hydrapulpers. Refiners 3 disc Jordans 1
Paper Machines. 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm
Dryers Size Presses 1 112" Calenders. 2
Coaters, off Machine 1-112" two-station blade On-Machine.1 180" Billblade.
Finishing Plant. Supercalenders. 2-130", 2-121" 1-80" Rewinders: 7. Sheeters: 6. 4 precision. Trimmers. 1

Steam/Power. Power Boilers: 4 Fuel: Gas/Coal. Steam, lbs hr., 260,000
Electricity: Purchased: 140,000 kwh/day. Generated: 50,000 kwh/day

Water Treatment. Daily Usage. 2,300. M.g.p.d. Source: River. Primary Treatment: Infilco accelerator

Effluent Treatment. Primary Treatment: 1-90' Beloit-Passavant clarifier. Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier.

Products. Coated offset text and cover (gloss, matte, dull) 395 tons daily

CLOQUET

★**Potlatch Corp.** Northwest Paper Div. 55720

Tel: 218-879-2300 Fax: 218-879-2349 Twx: 910-561-2113
Headquarters Location. See Executive Offices section for more details.
RR: Burl Nthrn, Duluth & Nrthestrn RR. Hwys: State Rte # 33,45.
David A Olsen, Vice Pres, Mfg, Cloquet Unit
Kent K Roberson, Prod Mgr, Pulp, Pwr & Rcvry
Jerry L Morton, Mgr, Pulp Mfg
Thomas G Palkie, Mgr, Paper Mfg
Charles E Hartley, Mgr, Pwr Rcvry & Chem Prep
David F Peterson, Mgr Tech Srvc
Leland N Rockvam, Prod Mgr, Ppr Cnvrsn
Robert R Becker, Prod Mgr, Info Sys
William H Erickson, Mgr Ctg
Michael R Mangan, Supv, Engrg
Michael A Rossing, Mgr, Maint
Robert M Kainu, Mgr Wood Prprtn
Ronald J Dvorak, Mgr Fnshg & Shppg
James E Buchner, Mgr Empl Rels
Jack E Munter, Pur Agt
Richard J Brenner, Div Contr

Woodhandling and Preparation Roundwood Storage Capacity 30,000 cds. Barkers: 1-84' drum. Chippers. 1 120", 12 knife. Chip Screens: 2. Avg. Daily Use of Peeled Pulpwood: 190 cds swd, 700 cds hwd

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 100 tons Bl. Hwd., 420 tons Batch Digesters: 10
Chemical Recovery Plant. Evaporators: 1 six-effect Unitech with concentrators. 1 Six-effect Swenson. Recovery Boilers: 1 B&W. Lime Kilns: 1. Recausticizing System 1
Bleach Plant. Sequence C-E-D-E-D.
Pulp Drying Wet Machines 1 Impco feltless.

Paper Mill Stock Preparation Pulpers: 4 Hydrapulpers. Refiners 6 disc Jordans. 3.
Paper Machines. 1 Fourdrinier 216" Width 192" Trim 1500 fpm
1 Fourdrinier 216" Width 196" Trim 2500 fpm
Coaters. On-Machine.2 200" Billblade.
off Machine Trailing Blade. 1-200"
Finishing Plant Supercalenders: 2 194" Rewinders 3 Sheeters. 2 Precision. 3 Trimmers. 3

Steam/Power. Power Boilers: 3 Fuel. Coal/Gas-/Oil/Bark Steam, lbs hr 550,000
Electricity Purchased 200,000 kwh/day Generated 400 000 kwh/day

Water Treatment. Daily Usage. 13,000. M.g.p.d. Source River Lake Superior

Effluent Treatment. Primary Treatment: discharge into P O T W

Products. Coated offset text and cover, coated web papers 540 tons daily

USG Interiors Inc. 35 Arch St 55720

Tel 218-879-2800 Fax 218-879-3673
RR Duluth & Nrthwstrn, BN, Milw, siding. Hwys. Near US Rte # 61 IS-35 Approx Mi 3. State Rte # 33 45
Ray Lorenz Plant Mgr
Ray Nyholm Mfg Mgr, Board
E.C. Erickson, Engrg Srvcs Mgr
J.A Manisto Qlty Cntrl Mgr

Paper Mill Paper Machines 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim
Coaters. On-Machine.3 roll

Steam/Power. Power Boilers: Fuel Coal/Gas/Oil Press.: 275 psi
Electricity: Freq, phase. 13,800v, 60, 3 Purchased: 100%.

Water Treatment. Source: River.

Effluent Treatment. Primary Treatment: Yes

Products. Board mill: mineral ceiling panels and decorative tile.

DULUTH

Georgia-Pacific Corp. Hardboard Plant 14th Av W and Waterfront St. 55802

Tel: 218-727-6891
RR: Burl Nthn, CNW, siding. Hwys: US Rte # 2,53,61. Near State Rte # IS-35 Approx Mi 1.5.
D.E. Coons, Gen Mgr
Phil Sutula, Plant Mgr
Bruce Ellefson, Traffic Mgr
Dick Chambers, Mfg Mgr
David Fredrickson, Engrg
Wayne Johanson, Tech Dir

Woodhandling and Preparation Chippers: 1 10-knife. Chip Screens: 2. Avg. Daily Use of Peeled Pulpwood: 325 cds (rough basis).

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 350 tons Continuous Digesters: 1 Asplund Defibrator and 3 42" 1CP Sprout Waldron refiners.
Pulp Processing: Stock Refiners: 6 36-2 Sprout Waldron

Paper Mill Paper Machines. 4 Hardboard Formers, with 1-4'x8', 1-5'x9', 1-4'x16' and 1-5.5'x16' presses..

Steam/Power. Power Boilers: 5. Fuel: Gas, Oil, Woodwaste. Steam, lbs hr.: 80,000. Press.. 200. Electricity: Freq, phase: 60, 3. Installed H.P. 6200. Purchased: 100%

Water Treatment. Daily Usage, 222. M.g.p.d. Primary Treatment: Chlorination Source: Lake.

Effluent Treatment. Primary Treatment. Concentrated white water to molasses via evaporator, with distillate to joint industrial/municipal plant.

Products. Standard treated hardboard, S1S, 350 tons daily (835 Msf, 1/8" basis)

Lake Superior Paper Industries (Joint venture of Subs. of Pentair Inc. & Minnesota Power) 100 N Central Av (PO Box 7308) 55807-2400

Tel: 218-628-5100 Fax: 218-628-5301 Twx: 910-240-8397
RR: BN Hwys: US Rte # IS 35, Central Av & Hwy 2 in W Duluth.
Ritter J Humphrey, Pres
David L Beal, Vice Pres, Mfg
Thomas R Kroll, Vice Pres, Tech Srvcs
John C Hosler, Vice Pres, Fin
Jack H LaVoy, Vice Pres, Public & Govt Affrs
Ted E Smith, Vice Pres, Human Rsrcs
Mark G Swenson, Ppr Mill Mgr
Paul Clancy, Dir Sales & Mktg
Robert G Johnson, Mgr Wd Prcmt

Pulp Mill Ground Wood, Stone. Avg. Daily Prod.: 440 tons Grinders: 6 73 tpd Tampella pressurized.
Pulp Processing: Washers. 2 Rauma pressure.

Paper Mill Paper Machines 1 Voith twin-wire, 317" Width 295" Trim, 4600 fpm.
Dryers. Winders. 2 Jagenberg Vari-top
Finishing Plant Rewinders. 1 Jagenberg Vari-roll. Supercalenders 3 12-roll Wartsila-Appleton.

Steam/Power. Power Boilers Press 800 psig steam supplied from adjacent Minn Power's Hibbard power plant
Electricity Turbogenerators. 1 9000 kw Turbodyne

Products. Premium supercalendered (SCA) groundwood printing papers, 600 tons daily

GRAND RAPIDS

Blandin Paper Co. (Subs of Fletcher Challenge Canada Ltd.) 115 First St SW 55744-3699

Tel. 218-327-6200 Fax 218-327-6212
RR Burl Nrthrn siding. Hwys: US Rte # 2,169. State Rte # 38
A.C. Wallace, Pres, CEO
Brian M Vergin, Sr Vice Pres, Mktg
A.E Radecki, Sr Vice Pres, Fin & Admn

MHI-00292

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ALL GRADES OF PULP FROM
ALL & WORLDWIDE SOURCES
WOODPULP

WESTFIELD

Strathmore Paper Co Central Finishing Whse & Distbtn Ctr S Broad St 01085

Tel 413-568-9111
Headquarters Location See Executive Offices section for more details
Norman W Brown Plant Mgr
Gary R Bourdeau Asst Plant Mgr
Paper Mill Stock Preparation Pulpers 7 Refiners and Jordans 23
Paper Machines 1 Fourdrinier 66" Width 56" Trim
1 Fourdrinier 77' Width 68' Trim
1 Fourdrinier 90' Width 80' Trim
1 Fourdrinier 83' Width 72" Trim
1 Fourdrinier 87 Width 74 Trim
1 Fourdrinier 94" Width 80' Trim
1 Fourdrinier 94" Width 80" Trim
1 Fourdrinier 110" Width 96' Trim
Dryers Winders 8 Air Dryers 2
Finishing Plant. Supercalenders 1 Sheeters 10 Trimmers 10 Embossers 3
Products. Bond writing vellum bristols wedding, typewriter text and cover art drawing, papeteries greeting card deckle-edge embossed, plate-finish, watermarked business and printing papers, duplex boards 141 tons daily total of Turner s Falls, Woronoco and Millers Falls mills

WEST GROTON

Hollingsworth & Vose Co Townsend Rd 01472

Tel 508-448 3311 Fax 508-448-5072
RR ConRail siding Hwys Near State Rte # 2A Near US Rte # 40
George Faircloth Mill Mgr
Kenneth Gargan Mill Supt
Michael Richardson Qlty Mgr
Ronald Dean Mtrls Mgr
Barbara Dominick Pur Agt
Paper Mill Stock Preparation Pulpers 3 Jordans 4 Cleaners Bauer Centricleaners
Paper Machines 1 Fourdrinier 77 Width 72" Trim Rotoformers 1 120 width 110' trim
Finishing Plant Rewinders 2 Sheeters 2 Trimmers 2
Steam/Power Power Boilers 3 Fuel Oil Press 150
Electricity Freq phase 60 3
Water Treatment. Daily Usage 5 000 M g p d Source River
Effluent Treatment Primary Treatment Yes Secondary Treatment Yes
Products. Industrial specialty saturating absorbent fiberglass automotive and heavy-duty filter absolute filter non-woven papers battery separator paper 50 tons daily

WEST SPRINGFIELD

Decorative Specialties International Inc Premoid Div (Subs of Specialty Coatings Group Inc) Front St (PO Box 6001) 01090 6001

Tel 413 736-4554 Fax 413-736 6630
RR ConRail siding Hwys US Rte # 20 Near State Rte # Mass Tnpke Approx Mi 4
William S Linnell Vice Pres Gen Mgr
Robert J DeGeorge Gen Supt
Ludwig A Wax Tech Dr
John Potter Chief Engr
Mark Korovae Prchsg Mgr
Rick D Plaut Sls Mgr
Kathy M Meyer Mkt Devl Mgr
Paper Mill Stock Preparation Pulpers 1 Screens 2 Refiners 1 Jordans 1
Paper Machines 1 Fourdrinier 72 Width 63 Trim Coaters off Machine 1 60 reverse roll 1-60 knife 1 60 impregnator
Finishing Plant Rewinders 1 Sheeters 1 Other Eqt 1 60 two station roto-gravure printer 3-60 roll embossers
Water Treatment. Daily Usage 400 M g.p d Source River Primary Treatment Yes
Effluent Treatment. Primary Treatment: None Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board latex saturated artificial leather base vinyl coated papers special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089

Tel 413-732 5141 Fax 413-732-7118
RR ConRail siding Hwys US Rte # 91.20
John H Southworth Pres
Kent Tarrant, Exec Vice Pres
Jack E Moffett, Vice Pres Sales
David C Southworth Vice Pres, Sec
Elio Viecelli Supt
John F Hamel Treas
Paper Mill Stock Preparation Pulpers. 2 Refiners. 2 disc Jordans 2
Paper Machines 1 Fourdrinier 85" Width 70" Trim Dryers Size Presses tub
Finishing Plant Sheeters 3 Trimmers 4
Steam/Power Power Boilers 2 Fuel Oil
Water Treatment. Source River
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Rag content bond, typewriter onionskin, manuscript cover writing papers, 25 tons daily

WORONOCO

Strathmore Paper Co 01097

Tel 413-568 9111 Fax 413-568-9429
RR B&M Hwys US Rte # 20
E J Smith Supt Mill No 1
James A Stevens Supt Mill No 2
F D Witek Chem
Brian Meade Chem
Sherri L LaPorte Chem
Paper Mill Paper Machines 3 Fourdrinier Equipment listed under Westfield MA mill
Products. Mill No 1 writing, text cover artist's, papeterie papers Mill No 2 Rag specialty bond writing text and cover papers

MICHIGAN

ADRIAN

★**Simplex Products Group**

Headquarters Location See Executive Offices section for more details

ALPENA

Abitibi-Price Corp Building Products Div 416 Ford Ave 49707

Tel 517 354-2121 Fax 517 356-2504
RR Detroit & Mackinac Siding Hwys US Rte # 23 State Rte # 32
R G Carovano Gen Mgr
T E Ludwig Sr Maint Mgr
J L Rizzardi Maint Mgr
H L Scull Plant Supt
L M Plowman Mgr R&D
A R Dean Mfg Supt
D E Hanson Mgr Tech Srvcs
R W Murdock Engrg Supt
A N Taratula Power Plt Supt
T J Kelly Pers Mgr
L E Springer Asst Contr
W H Hunter Plant Buyer
D A Werblow Enviro Supt
Woodhandling and Preparation Barkers 2 26' mechanical Chippers 1-96 12-knife Avg Daily Use of Peeled Pulpwood 450 cds (rough basis)
Pulp Mill Defibrated Wood Pulp Avg Daily Prod 400 tons Batch Digesters 4 Bauer Rapid Cycle Pulp Processing Stock Refiners 9 Bauer disc
Paper Mill Stock Preparation Pulpers 1 Jones repulper Refiners 3 Bauer 2 Sprout-Waldron pump-thru
Paper Machines 1 Hardboard Fourdrinier 160 Width 156 Trim
1 Hardboard Fourdrinier 50 Width 48 Trim
Finishing Plant. Other Eqt. 2 20-deck presses 1 22-deck press
Steam/Power Power Boilers 3 Fuel Coal/Wood Waste Steam lbs hr 240,000 Press 900/300 psi
Electricity Purchased 100 000 kwh/day Generated 200 000 Turbogenerators 1 GE 7500 kva
Water Treatment. Daily Usage 1,500 M g.p d Source River Primary Treatment: Screening
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: Aeration Lagoons Tertiary Treatment: Sludge dewatering and drying
Products. S1S and S2S hardboard 360 MMsf annually (400 tons daily)

Fletcher Paper Co 318 W Fletcher St. 49707

Tel 517 354-2131 Fax 517-356-6327
RR D&M siding Hwys US Rte # 23 State Rte # 32
Allan M Fletcher Chmn Treas
Paul T Hoelderle Pres
Larry Simpson CFO Sec
James A Kelley Ppr Mill Mgr
Michael J Bekes Opers Mgr
Jay Robbins Chief Engr
Bill England Pur Agt
Tom Woods, Traffic Mgr
Rick W Sterling, Mgr Mktg & Sls
Carl Bourdelais Mgr Ctd Pdcts
Harry Bryant Instr Supv
Paper Mill Stock Preparation Pulpers 1 high-consistency 3 Hydrapulpers Screens 2 Selectifier Refiners 5 Jones DD Jordans 3 Jones
Paper Machines 1 Fourdrinier 112" Width 100" Trim 1000 fpm
1 Fourdrinier 112" Width 100' Trim 1150 fpm
Dryers Drums 62 Size Presses 2 Calenders 2 stacks Winders 2
Coaters, off Machine 1-60 Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant Sheeters 1-67' precision Trimmers 2 65' 85
Steam/Power Power Boilers 2 Fuel Gas & Oil, Coal Steam lbs hr 140 000 Press 450 psi
Electricity Freq, phase 60 3 Generated 72,000 kwh/day
Water Treatment. Daily Usage 1,100 M g p d Source Thunder Bay River Primary Treatment Yes
Effluent Treatment. Primary Treatment 1 Clarifier
Products. Bible offset carbonizing chart coating base label manifold flame retardant mold inhibiting, pattern map onionskin opaque bond release saturating sensitizing technical wet strength and writing papers 85 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079

Tel 616-968-3000 Fax 616-968-0198
RR ConRail Hwys State Rte # 96 Near US Rte # IS-94 Approx Mi 8
C Roger Davisson Pres
James D Schwoebel, Vice Pres Admn
H Christian Mueller Vice Pres Sls
Gregory A Worsnop Vice Pres Fin
D Allan Hicks Plant Mgr
Gary Buckley Mgr Matls
Mary Thacker Mgr Qlty Reliability
Jim Rop Mgr Mfg Engrg
Pulp Mill Ground Wood Refiner Avg Daily Prod Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation Pulpers 1 Hydrapulper
Paper Machines 3 molding machines of own design
Products. Molded wood fiber products for automotive interior trim

Michigan Paperboard Co A Field Container company 79 E Fountain St 49016

Tel 616-963-4004 Fax 616-963 1306
RR ConRail GTW siding Hwys Near US Rte = I-94 I 69 3 mi Near State Rte = 66 37 89 3 mi
Terry Tiffany Pres
James M Lambert Mfg Mgr
C Tobey Mfg Supt

MHI-00293

Gary McMillan Plant Engr
John Goll Qlty Mgr
Joseph McCarthy Contr
Jack Crabtree Ind Rels Mgr
Neil Hannan Prchsg Mgr
Jack Roberts Mech Buyer

Paper Mill Stock Preparation Pulpers 3-4000 lb Morden 1 14 1 20 Hydrapulper 1 3000 lb Refiners 1 disc Jordans 3 Screens Centrisorter
Paper Machines Stevens Formers 1 seven unit 120 trim 750 fpm
1 six-unit Ultraformer 98 wide 96 trim 450 fpm
Dryers Drums 60

Steam/Power Power Boilers 2 Fuel Gas Oil Steam lbs hr 80 000

Products Combination boxboard 340 tons daily

Waldorf Corp. 177 Angell St 49015-1958
Tel 616-963-5511 Fax 616-963-5564
RR ConRail GTW siding Hwys US Rte # I-94 I-69 State Rte # 66 37 89
Mark Shapton, Opers Mgr
Don Opala Plant Engr
Paul Stofer Tech Supt
Mike Minger Qlty Mgr
Chris Hansen Contr
J H Matthews Mgr Ppr Recycling
Dale Blanchard Prod Supt
William Dever Maint Supt
Cheryl Schwanz Prchsg Supv

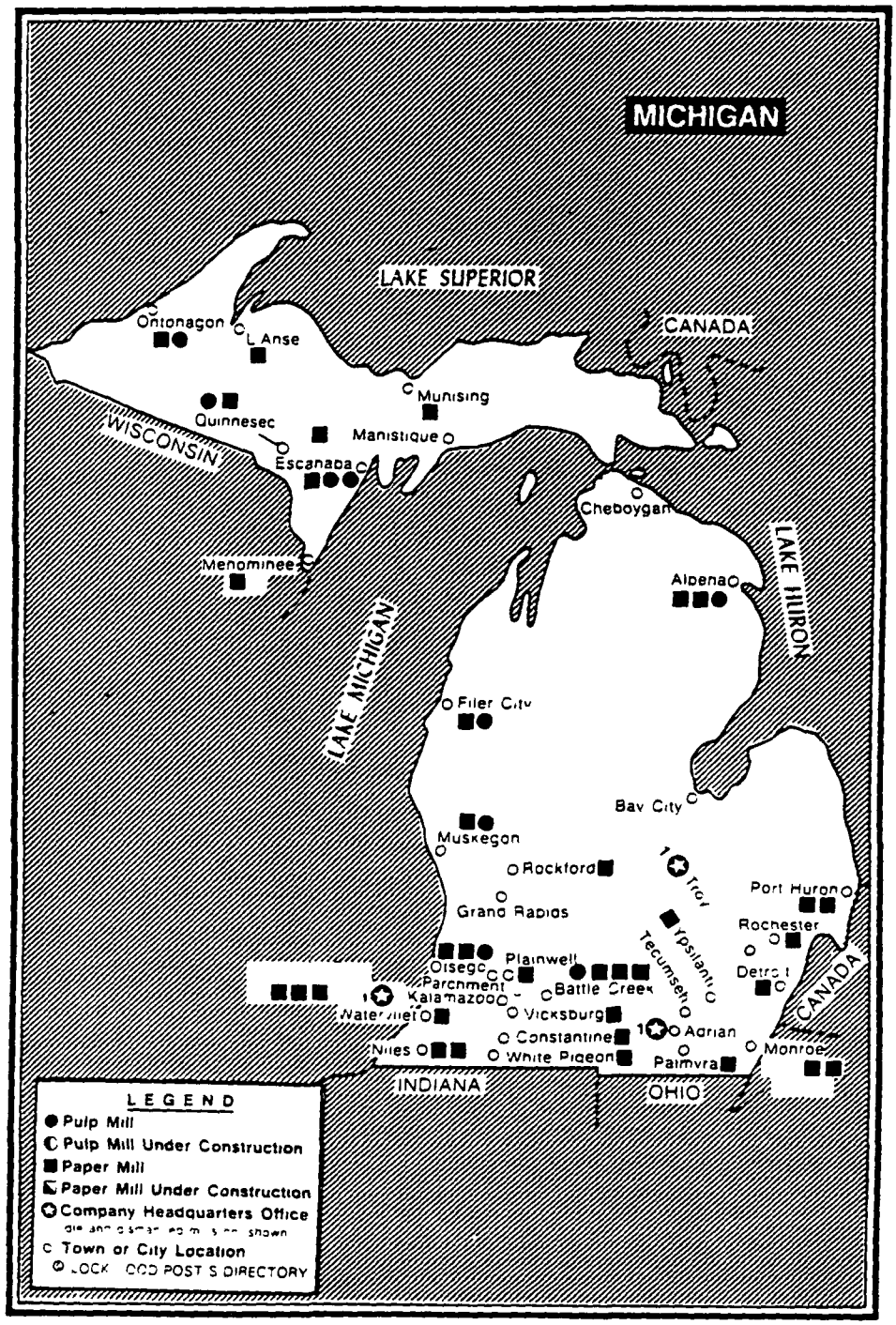
Paper Mill Stock Preparation Pulpers 1 3000 lb Morden Slushmaker 3-16 Hydrapulpers Screens 8 Centrisorter Refiners 4 Sprout Waldron disc Cleaners 3 systems
Paper Machines 1 six-unit Beloit Bel Bond Forme 146 width 130 trim 950 fpm
Dryers Drums 85 60 Calenders 3 stacks breaker stack Hi-Velocity 2 gas infrared Winders 1 Beloit
Coaters, On-Machine Rice Barton blade Black Clawson air knife 300 tpd cap
Finishing Plant. Sheeters 1 Clark Aiken

Steam/Power Power Boilers 2 Fuel Oil/Gas Steam lbs hr 140,000
Electricity Purchased 212,500 kwh/day Generated 37 500 kwh/day Turbogenerators 1 Elliott 2000 kw/kva

Water Treatment. Daily Usage 2,500 M g p d Source River

Effluent Treatment. Primary Treatment. 2 flotation clarifiers Effluent to joint industrial/municipal plant

Products. White clay coated white lined news, bending chip 345 tons daily



CHEBOYGAN

Procter & Gamble Paper Products Co. 437 S Main St
RR D&M siding Hwys US Rte # 27

Paper Mill Paper Machines Yankee Fourdrinier 136" Width 130" Trim
Yankee Fourdrinier 136" Width 130" Trim

Products. Sanitary tissue, 100 tons daily
Paper Mill Is Idle

CONSTANTINE

Simplex Products Group Centreville Rd, E 3rd St 49042
Tel 616-435-2425 Fax 616-435-7510
RR ConRail siding Hwys US Rte # 131
Mohamed Fahmy Vice Pres, Mfg, Nthn Plants
Ross Collins Mill Supt
Barry Lusk Maint Supv
Andrew Jiskra Shpg/Rcvng Supv
Sandy Munson Office Mgr
David Erickson Tech Mgr

Paper Mill Stock Preparation Pulpers, 2 Screens 3 Refiners 4 1 deflaker Other Eqt 1 disc filter
Paper Machines 1 Eight-Cylinder 112" Width 100" Trim
Dryers Drums 4 sets hi-stack
Finishing Plant Other Eqt Laminators 2

Steam/Power Power Boilers 2 Fuel Gas/Oil Press 150 psi
Electricity Freq phase 440 v 60 3 Purchased 100%

Water Treatment. Daily Usage 70 M g p d Source River

Effluent Treatment. Primary Treatment None Effluent to municipal plant

Products. Chipboard test liner, 150 tons daily

DETROIT

IPMC Inc. (IVEX Packaging Mill Corp) 9125 W Jefferson Av 48209
Tel 313-842-0042 Fax 313-842-1055
RR ConRail siding Rouge Yard Hwys US Rte # IS-75
James V Painter Vice Pres Mill Mgr
Michael B Zajas Prod Mgr
Paul Zajas Prod Mgr
Donald Grace Engrg Mgr
Gasper Calandrino Maint Mgr
David Ariganello Mchn Mgr
Louis J Sturm Tech Mgr
Cindy Cornish Cust Srvc Mgr
Carol Klopter Human Rsrcs Mgr
Douglas A Murray Contr
J David Fleet Sales Mgr
Kris E Brady Logstcs Mgr

Paper Mill Stock Preparation Pulpers 5 Refiners 9 double disc
Paper Machines 1 Yankee Fourdrinier 133 ' Width 123 Trim 900 fpm
1 Yankee Fourdrinier 135 Width 124" Trim 1500 fpm
1 Yankee Fourdrinier 137" Width 126 ' Trim 1300 fpm
1 Yankee Fourdrinier 144' Width 127" Trim 2200

MHI-00294

Pg 83 is Missing!

Products. Bible, bond, uncoated book, end leaf, foil mounting, gift wrapping, label, map, offset, opaque, sensitizing, text, vellum, xerographic, litho, chart, music, watermark, 275 tons daily. Coated electrostatic base, master and specialites, 75 tons daily. Paper Mill is idle.

Silver Leaf Paper Corp.

Headquarters Location. See Executive Offices section for more details.

L'ANSE

The Celotex Corp. PO Box 167 49946

Tel: 906-524-6101 Fax: 906-524-6613
RR: Soo Line. Hwys: US Rte # 41.
C.N. Abbott, Plant Mgr
L.E. Tollesson, Board Mill Supv
B.J. Stolarz, Plt Engr
R.G. Niemele, Plt Contr

Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper.
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 fpm. Dryer: 1-450' 8-deck Coe
Coaters, off Machine. Acrylic coater.
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay
Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products, 270 tons daily.

MANISTIQUE

Manistique Papers Inc. (Subs. of Kruger Inc.) 453 S Mackinac Av 49854

Tel: 906-341-2175 Fax: 906-341-5635
RR: Wis. Cntrl, siding. Hwys: US Rte # 2.
Leif Christensen, Pres, Gen Mgr
Donald Klagstad, Pulp Mill Supt
Tony Martin, Paper Mchne Supt
Jon Johnson, Plant Engr
Donald Schnurer, Pur Mgr
E.A. Bourdo, Mgr Rcyclg Opers
Larry Koski, Sales Mgr
John G Erickson, Tech Dir
Linda Benedetto, Contr

Pulp Mill Deinked Pulp: Avg. Daily Prod.: cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones Refiners: 1 Claflin.
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim, 4200 fpm
Dryers. Drums: 48 60" dia. Calenders: 1. Reels. 1. Winders: 1 Beloit.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr. 145,000 Press. 350 psi
Electricity: Purchased: 5000 kwh/day
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source. River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Recycled and colored newsprint, groundwood printing and groundwood converting papers, 250 tons daily

MENOMINEE

Menominee Paper Co Inc. (Sub of Bell Packaging Corp.) 144 First St (PO Box 310) 49858-0310

Tel 906-863-5595 Fax 906-864-3320
RR: ELS Hwys. US Rte # 41. State Rte # 173.
Marshall Schneider, Vice Pres, Gen Mgr
Dick Peterson Prod Mgr
Jules Nagy, Gen Mgr Ppr Pdcts
Larry Eggleston, Gen Mgr, Bd Sls, Mktg & Plng
Ginny Abel, Contr
Kenneth Jacobson, Human Rsrcs
Anita Doepke, Dir, Enviro Affrs
Dave Nielsen, Qlty Imprvmt Proc Admn
Victoria Mock, Tech Dir
Ed Bush, Maint Supt
Donald E Beason, Mtrls Mgr
Joe Brabender, Plant Engr
Craig Grajeda, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. Black Clawson Fourdrinier 164" Width 154" Trim
Yankee Fourdrinier 136" Width 128" Trim
Finishing Plant. Supercalenders: 2. Rewinders: 4. Slitter/Rewinders. 3. Other Eqt.: Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Linerboard, corrugating medium, tube stock, bag stock, 360 tons daily. Baking cup stock, waxing tissue, lightweight MG, 60 tons daily. Waxed paper in rolls, sheets, and bags.

MONROE

Jefferson Smurfit Corp. Industrial Packaging Div. 1151 W. Elm Av 48161

Tel. 313-241-7776
RR: C&O siding. Hwys: US Rte # 24, I-75.
Robert H Degraer, Reg Mgr
A Bussell, Mill Prod Mgr
Edward G. Strass, Tech Mgr
W Manor, Chief Engr
Gary VanWormer, Fnshg Supt
Greg Keefer, Plant Contr
N Lee Jr, Pur Agt
E Flotow, Sales Rep
G Scovronski, Sales Rep

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 1 Sprout Waldron, 2 Emerson. Jordans: 3 Shartle.
Paper Machines. Seven-Cylinder 124" Width 110" Trim 450 fpm
Dryers. Drums: 104. Calenders: 2 stacks. Winders: 1.
Finishing Plant. Rewinders. 2 Trimmers: 1.
Steam/Power. Power Boilers: Fuel: Gas, Oil. Steam, lbs hr.. 70,000
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 750. M.g.p.d. Source River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system
Products. Plain chip, can and tube board, lightweight chip, 130 tons daily.

Jefferson Smurfit Corp. Industrial Packaging Div (formerly Monroe Paper Co.) 1205 E Elm Av 48161

Tel: 313-241-7700 Fax: 313-241-6493
RR: ConRail, Grand Trunk. Hwys: Near US Rte # IS-75, 1 mi. State Rte # 50
T Amedro, Plant Mgr
Robert H Degraer, Reg Mgr
Patrick M McBee, Plant Srvcs Mgr
G Parker, Mach Supt
Allan L Loux, Tech Mgr
W Manor Tech Supt, Mill Engr
Robert W Fay, Plant Engr
John Zorn, Plant Acct

Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 2-20' and 1-16' Hydrapulper. Screens: 14 Selectifier Refiners. 2-34" S-W. Jordans: 2 Emerson 2-OD Cleaners. 8-10" Vortrap. Consistency Regulators: 4 Bird
Paper Machines B-C Seven-Cylinder 120" Width 108" Trim 600 fpm
B-C Seven-Cylinder 120" Width 108" Trim 400 fpm
Dryers. Drums 103, and 137-42" dia. Reels: 2 Autoflyte Winders 2 two-drum..
Steam/Power. Power Boilers. 2. Fuel Coal/Gas/Oil. Steam, lbs hr.. 240,000 Press.: 600/175 psi
Electricity: Freq, phase. 60, 3 Generated: 6,000 kwh. Turbogenerators. 2-7500 kw. 2000 kw. 2-1000 kw diesel generators
Water Treatment. Daily Usage. 800 M.g.p.d. Source: Lake Erie. Primary Treatment: None
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Mill 501 E Munising Av (PO Box 10) 49862-0010

Tel: 906-387-2700 Fax: 906-387-4767
RR: Wis Central. Hwys: State Rte # M28, M94.
Mark Kerstetter, Mill Mgr
Jon Holztrager, Admn Mgr
Mike Lindquist, Paper Mill Supt

Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans. 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim
Coaters, off Machine. 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator.
Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source: Lake Superior.
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily.

MUSKEGON

S.D. Warren Co. (Subs. of Scott Paper Co.) 2400 Lakeshore Dr (PO Box 119) 49443

Tel: 616-755-3761 Fax: 616-759-5234
RR: C&O siding. Hwys: US Rte # 16,31,196. State Rte # 46.
L.J. Barry, Vice Pres, Gen Mgr
Don Booker, Pulp Util Mgr
John Holland, Mgr, Cust Srvc
John S Moran, Chief Engr
Norm Russell, Ppr Mill Fnshg Mgr
Jack D Bultema, Tech Dir
Raymond Bickowski, Mgr Util
P.G. Van Hoesen, Mgr Plng & Indl Engrg
John Shanks, Pur Agt
Jim Ware, Traffic Mgr
Jeff Fern, Human Rsrcs Mgr

Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane Flume. 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system. Sawdust Handling: Rader pneumatic system Chip Unloaders Hydraulic truck dumper. Barkers. 1-30 cds/hr Manitowoc drum. Hogs: 1 Montgomery Chippers 1 15 knife Carthage Norman Chip Screens 3 Link Belt. Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system Recovery Boilers. 1 C-E, 750,000 lbs solids/day. Lime Kilns. 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers. 1 Lime Mud Washers. 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant Sequence: C-E-H-D Towers: 4. Mixers. 4 Thick Stock Pumps. 1. Chlorine Dioxide System: Solvay process
Pulp Processing. Knotters: 3 Impco. Screens: 3 Cowan. Cleaners. 1 three-stage Bauer system Washers. 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock)
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys Hamblet Scales. 1.

Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper Screens. 2 Selectifiers Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro Size Cookers 1 continuous, 3 batch.
Paper Machines Beloit Fourdrinier 163" Width

MHI-00295

• CENTRAL NATIONAL-GOTTESMAN INC. •
Three Manhattanville Road, Purchase, NY 10577-2110 Tel: 914-696-9000 Fax: 914-696-1066
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES
SEMI-BLEACHED KRAFT PULP

144" Trim 1100 fpm
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum..
Coaters. On-Machine. Trailing Blade. 1-163" puddle. 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 1 Lenox folio; 3. 100" to 112". Trimmers: 3-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500 psi.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120
Tel: 616-683-1100 Fax: 616-683-3025
RR: ConRail siding. Hwys: US Rte # 31,12. State Rte # 60,51.
J.E. French, Chmn Bd
B.R. Bigford, Pres
Jerry E French, Exec Vice Pres, Treas
David L Bruce Jr, Vice Pres, Supt
Jerry Koch, Vice Pres, Sec
Duane Bodfish, Chief Engr
Tad Kline, Sales Srvc
Tom Tokarz, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. B&S Fourdrinier 96" Width 84" Trim (idle)
P&J Fourdrinier 118" Width 107" Trim
Dryers. Winders: 2..
Finishing Plant. Sheeters: 2. Trimmers: 2. Other Eqt.: 2 Embossers.
Steam/Power. Power Boilers: Fuel: Coal, Gas, Oil. Press.: 150 psi.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 1600 electric, 1600 water.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 65 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel: 616-683-4100 Tlx: 258459
RR: ConRail. Hwys: US Rte # 12,31. State Rte # 60,40.
Chuck Dewitt, Vice Pres, Plt Dir
Tilden Weist, Paper Mill Supt
Tom DeForest, Dir Engrg & Ppr Making
R DeForest, Plant Engr
T Smit, Plant Contr
R Stewart, Pur Agt
N Wilson, Distrib Mgr
S Hart, Ind Rels Dir
A Seaman, Traf Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Savealls.
Paper Machines. Stevens Formers: 1-162" wide. 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1. Winders: 2 Shear-Cut..
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons. Interleaving papers, 40 tons daily

ONTONAGON

Stone Container Corp. Ctnrbd & Paper Div. One Superior Way 49953
Tel: 906-884-2021
RR: Escanaba & Lake Superior. Hwys: US Rte # 45. State Rte # 64.
Ron Howard, Gen Mgr
Richard Jakob, Prod Mgr
J.R. Richardson, Tech/Enviro Mgr
Dave Schmidt, Paper Mill Supt
J.E. Asiala, Ppr Mach Supt
S.G. Domitrovich, Ppr Mach Supt
Greg Anderson, Pulp Supt
Mark Szczepanik, Supt, Pwr & Util
Peter J Whiteneck, Emply Rels Mgr
James Walchuk, Mgr, Engrg & Maint
Robert Anttila, Maint Supt
James P Ninefeldt, Contr
Robert Schon, Mtrls Mgr
Woodhandling and Preparation Chip Storage Capacity: 50,000 tons. Mobile Equipment: 1 Pettibone Cary-Lift, 2 D-7 dozers. Chip Handling: Rader pneumatic. Sawdust Handling: Rader drag chain. Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood: 1100 tons purchased hwd chips.
Pulp Mill Semi-Chemical, Avg. Daily Prod.: Sodium Carbonate, Unbl Hwd: 520 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Copeland fluidized bed reactor.
Pulp Processing: Hot Stock Refiners: 2 Sunds. Washers: 1 Eimco, 1 Swenson.
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 4 Bolton Emerson, 5 Sprout-Waldron. Screens: 1 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. 1 P&J Fourdrinier 177" Width 160" Trim 1500 fpm
1 Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120. Calenders: 2. Winders: 2..
Steam/Power. Power Boilers: 1, 3 package. Fuel: Gas, Coal Oil, Bark. Press.: 350,000. Press.: 1500/250/175/70 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 13500. Purchased: 35%. Generated: 65%. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 4,500. M.g.p.d. Source: Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 1 Clarifier. Secondary Treatment: clarifier, activated sludge, gravity thickener, belt filter press.
Products. Semichemical corrugating medium, 700 tons daily.

OTSEGO

Menasha Corp. Paperboard Div. 320 N Farmer St (PO Box 155) 49078-0155
Tel: 616-692-6141 Fax: 616-692-2060
RR: ConRail siding. Hwys: US Rte # 131. State Rte # 89.
James Porter, Gen Mgr
John Bonham, Opers Mgr
Paul Jachim, Engrg/Tech Srvcs Mgr
Jay Thiessen, Pulping Mgr
Luke Arendasn, Maint Mgr
Tim Howard, Acctg Mgr
Jeff Burliegh, Pur Agt
Jeff Volker, Human Rsrc Mgr
Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening. Avg. Daily Use of Peeled Pulpwood: 750 green tons purchased chips.
Pulp Mill Semi-Chemical, Avg. Daily Prod.: Unbl. Hwd., carbonate cook: 320 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver (SLI) fluid bed reactor.
Pulp Processing: Stock Refiners: 3 S-W primary. Washers: Black Clawson brown stock.
Paper Mill Stock Preparation: Pulpers: Secondary fiber system 1: 1 14' Hydrapulper, 5 HDC's, 1 fiberizer, 2 barrier screens, 1 deflaker, three-stage cleaning.
Pulpers: Secondary fiber system 2: 1 16' Hydrapulper, 3 HDC's, 2 LDC's, screening, multiple stage reverse cleaning. Total capacity of both systems, 700 tpd.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 300 fpm, 1 600 pli suction press, 1 8500 pli Extended Nip press, 54 dryers
1 Fourdrinier 92" Width 80" Trim 900 fpm, 2 suction presses, 41 dryers
Steam/Power. Power Boilers: 3. Fuel: Coal, Gas. Steam, lbs hr.: 240,000. Press.: 600 psi.
Electricity: Purchased: 20,000 kw.
Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells.
Effluent Treatment. Secondary Treatment: Aeration pond.
Products. Semichemical corrugating medium, 830 tons daily.

Rock-Tenn Co. Paperboard Products Div. 431 Helen Av 49078
Tel: 616-692-6211 Fax: 616-692-6581
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
Walter K Lancaster, Gen Mgr
Don Goodman, Ppr Mill Supt
Jack Harvey, Plant Engr
Dave Johnson, Mgr, Prod Control
T Thompson, Cnvtg Mgr
John Klein, Salesman
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 2 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4. Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. Eight-Cylinder 140" Width 126" Trim
Dryers. Drums: 163. Calenders: 2..
Coaters. Extrusion. Trim Width, 1 86" Egan PE extrusion coater.
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press.: 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day. Turbogenerators: 4000 kw Westinghouse, 3000 kw Stal Laval.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 250 tons daily.

PALMYRA

Sorenson Paperboard Corp. (formerly Big M Paperboard) 6240 E US-223 (PO Box 135) 49268
Tel: 517-263-5160 Fax: 517-265-3604
Hwys: US Rte # 223.
Merritt Sorensen, Pres
Cathleen Sorenson, Vice Pres, Sec
Judith Sorenson, Treas
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Screens: 6 P-12 pressure. Refiners: 2 Bauer disc. Jordans: 3. Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen savealls.
Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 120. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Chipboard, white-lined, kraft-lined, can, tube and drum stock, pad stock, 80 tons daily.

MHI-00296

PARCHMENT

James River Corp. Packaging Papers Mill 100 Island Av 49004

Tel: 616-384-6408 Fax: 616-384-6217
RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94. State Rte # 43.
Robert Huiskamp, Opers Mgr
Jim Buroker, Mgr, UM&E
James Butler, Gen Supt Pprmkg
Brent Schriener, Mgr Mfg Srvcs
Thomas P DeWolff, Total Qlty Mgr
John J Drenth, Dir Engrg
Victor R Ferguson, Dir R&D
Donald Lewis, Gen Supt
Phil Picard, Gen Supt
Denise Trainer, Tech Dir
Roy W Kemppainen, Mgr Pdct Devl
Willard M Thompson, Pur Agt

Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster. Other Eqt. Secondary Fiber Mill, 150 tons daily capacity.
Paper Machines. Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
P&J Fourdrinier 163" Width 148" Trim 1100 fpm
B&S Fourdrinier 165" Width 148" Trim 1400 fpm
Beloit Fourdrinier 167" Width 148" Trim 1800 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1100 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm
Dryers. Calenders: 5. Size Presses: 5..
Coaters, off Machine. Air Knife: 1. Blade. 3 Solvent: 1.
Finishing Plant Supercalenders: 2. Rewinders: 7 Sheeters. 2. Trimmers: 3

Steam/Power. Power Boilers. 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000

Water Treatment. Daily Usage. 5,000 M.g.p.d. Source: Well.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment. Aeration lagoon

Products. Waterleaf, bond, greeting card, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1. 100 tons daily Mill No 2 320 tons daily.

PLAINWELL

Simpson Plainwell Paper Co. 200 Allegan St. 49080

Tel: 616-685-5851 Fax 616-685-6504
RR ConRail siding Hwys. US Rte # 131. State Rte # 89
Roger Huckendubler, Opers Mgr
Robert Green Prod Mgr
Dennis Kelly Gen Supt, Ppr Mfg
Scott Sleeman, Mchn Supt No 18
Richard J Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Wendell Chichester, Mgr, Mfg Srvcs
Alan K Bruner Supt Distr
Barbara J Bradley, Prchsg Agt
Robert Tardiff, Mgr, Qlty Contrnce
Kay C Woodruff, Supv, Testers
Bruce Bracken, Mgr, Emply Rels
George Lawton, Tech Dir
James R Allen, Tech Supt
Henrietta Kaye, Compt

Paper Mill Stock Preparation Pulpers 1-6000 lb and 1-4000 lb Hydrapulper Refiners 8 double disc. Jordans 3. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm
1 Fourdrinier 135" Width 120" Trim 2000 fpm
Dryers. Size Presses 3
Coaters, On-Machine. Trailing Blade, 2 120" Capacity. 140 tons daily
Finishing Plant. Supercalenders: 1-126", 1-130". Roll Wrapping Eqt.. 1 automated line. Rewinders: 2. Sheeters: 3 Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.

Steam/Power. Power Boilers: 4. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 205,000. Press.: 265 psi.
Electricity: Freq, phase. 60, 3. Purchased: 160,000 3250,000

Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

E.B. Eddy Paper Inc. (Affl. of E.B. Eddy Forest Products Ltd.) 1700 Washington Av (PO Box 5003) 48061-5003

Tel: 313-982-0191 Fax: 313-982-7124
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. State Rte # 21.25 Near State Rte # 21,25I-69.
A Richard Wagner, Vice Pres, Res Mgr
Joseph C Fiedler, Mtrls Mgr
William M Fries, Dir Engrg & Capital Proj
C Dale Hoy, Sec, Contr
Howard L Hunter, Tech Dir
Gary W Foster, Engrg Mgr
Randall L McNeely, Util Supt
Kenneth A Wood, Maint Mgr
Hal Henry, Ppr Mach Supt
Larry Thomas, Ppr Mach Supt
S.J. Bentley, Asst Ppr Mach Supt
Alan D Cutcher, Dir Human Rsrcs
Celeste Lewis-Bradley, Mgr Prod Cntrl
Robert L Andrews, Mgr Budget & Insmc
Richard P Cole, Gen Sls Mgr
Leon E Rymers, Mgr, Pdct Devl

Paper Mill Stock Preparation: Pulpers: 5. Screens: 4. Refiners. 15. Cleaners: 6
Paper Machines. Yankee Fourdrinier 143" Width 127" Trim 1500 fpm
1 Fourdrinier 132" Width 116" Trim 1200 fpm
1 Fourdrinier 184" Width 156" Trim 1800 fpm
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 79. Yankee: 2. Size Presses: 4. Calenders. 4 stacks. Winders 4..
Finishing Plant. Roll Wrapping Eqt.: automatic. Rewinders: 1.

Steam/Power. Power Boilers Steam, lbs hr.: purchased
Electricity Purchased. 80%

Water Treatment. Daily Usage, 5,000. M.g.p.d. Source. St Clair River.

Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, grease-resistant, pan liners, lightweight printing, book, wet strength, and specialties, 270 tons daily

James River Corp. Packaging Papers Mill 218 Riverview St 48060

Tel 313-984-5523 Fax 313-984-5830
RR. GTW siding Hwys US Rte # IS-94, IS-69
James R Scohy, Res Mgr
Brent Earnshaw, Mgr Tech Opers
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
Robert Ferguson, Mgr, Indl Rels
Robert A Wright, Machine Supt
Scott P McNutt, Mgr Proc Engrg

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14 Jordans. 2
Paper Machines No 1 Beloit Yankee Fourdrinier 137" Width 124" Trim 1500 fpm
No. 2 Beloit Yankee Fourdrinier 134" Width 121" Trim 1200 fpm
No 3 Allis Chalmers Yankee Fourdrinier 150" Width 134" Trim 2000 fpm
No 4 Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers. Yankee 3 12', 1 18' dia units Size Presses 4. Calenders: 3 variable crown Winders 4..
Coaters. On-Machine.2 Blade. 1 two-stream, 1 short-dwell.
Finishing Plant. Rewinders: 1.

Steam/Power. Power Boilers: 3 Fuel Oil/Gas Steam, lbs hr.: 76,000 Press.: 600/200 psi
Electricity: Freq, phase 60 3 Generated 3 gas-fired turbines, rated at 5.8 Mw ISO each, 2 51,000 lbs/hr waste heat recovery boilers

Products. Lightweight coated, release treated, foil mounting, twisting, soft calendered, double side coated, MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily

QUINNESEC

Champion International PO Box 211, Norway 49870-0211

Tel: 906-779-3200 Fax: 906-779-3307 Tlx 234273
RR: C&NW. Hwys: US Rte # 2.
Jeffrey A Hearn, Vice Pres, Opers Mgr
Dick Difono, Dir Enviro Affrs (Stamford)
Eddie Piemmons, Maint & Engrg Mgr
Bill Stephenson, Process Control Mgr
Mark F Pontti, Cmmnty Affrs Mgr
George Curran, Matl Srvcs Mgr
Joe Deschene, Rcvry & Util Mgr
Jack Louthain, Plt Contr
Steve Perry, Pdct Srvcs
Randal Lorenz, Admn/Human Rsrcs

Woodhandling and Preparation Roundwood Storage Capacity 8,400 cds Chip Storage Capacity 30,000 cds:. Barkers. 2 Murco drum,. Chippers: 1 Murco:. Chip Screens: 2 Rotex, 1 Rader scalper.

Pulp Mill Kraft Avg. Daily Prod.: Bl. Hwd., 845 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel.
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film Recovery Boilers: 1 B&W, 491,000 lbs steam/hr. Electrostatic Precipitators: 1 Research Cottrell;.
Bleach Plant. Sequence: Cd-E/O-D-D.
Pulp Processing: Washers: 1 3-drum D-O brown stock. Screens: 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached. 4-stage Noss blchd. Deckers: 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers: 1 240" KMW. Dryers: 1 Flakt air-float. Cutter-Layboys: 1 224" Lamb.

Paper Mill Paper Machines. No. 4 1 Beloit Fourdrinier 280" Trim 3500 fpm.
Coaters, On-Machine.2.

Steam/Power. Power Boilers: 1 B&W, 1 C-E package. Steam, lbs hr. 675,000.
Electricity Turbogenerators: 1 30 Mw Stal-Laval

Water Treatment. Daily Usage. 15,000. M.g.p.d Source River

Effluent Treatment. Primary Treatment: 2 150' Elmco clarifiers. Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering

Products. Bleached hardwood kraft market pulp, 750 tons daily Coated free sheet, 750 tons daily

ROCHESTER

Custom Papers Group Inc. (Subs of Specialty Coatings International Inc.) 340 Mill St 48307

Tel. 313-651-8121 Fax 313-651-2792
RR GTW siding. Hwys. US Rte # 10. State Rte # 150
Stanley S Luczycki, Res Mgr
Richard Marciniak, Mgr Admin
Rick Lapanowski, Ppr Mchne Supt
Gregg Hunsager Mgr Pdctn & Schdlg
Steve Ziolkowski, Tech Dir
Wayne Broadhead, Plant Engr
Dennis Gualdoni Cnvtg Supt
Ron Richmond, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers: 1 Jones Hi-Lo Beaters 1-1000 lb Screens: 1 Parker Jordans. 2 Noble & Wood, 1 Jones Fibremaster
Paper Machines 1 Fourdrinier 66" Width 62" Trim
Dryers. Size Presses 1 Calenders. 1 stack.
Coaters. On-Machine.1-62" roll saturator, 20 tons daily cap
off Machine 1-62" roll laminator, 12 tons daily cap
Finishing Plant Rewinders. 1-72" Cameron. Sheeters: 1-72", 1-84" Trimmers 1-50", 1-84" Other

HOWARD ZUKER ASSOCIATES
919 N. MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5780
THE PAPER TIGERS

Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Sheridan Sewing Machines: 1.
Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 150. M.g.p.d. Source: Wells
Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.
Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties, glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. 7734 Childsdale Rd, NE (PO Box 560) 49341
Tel: 616-866-3421 Fax: 616-866-1114
Hwys: Near US Rte # 131 Approx Mi 3.
James Isabell, Pres
Ron Fox, Gen Mgr
Eric Stevens, Maint Supt
Craig Linderman, Prod Supt
C.A. Dufon, Sales Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W. Cleaners: Black Clawson low-intensity with X-clone on filler system Consistency Regulators: DeZurik. Other Eqt.. Allied clay mixing eqt.
Paper Machines. Eight-Cylinder 76" Width 69" Trim 350 fpm
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks.
Coaters. On-Machine.1 Waldron Microjet air knife. 1 Konier rod.
Finishing Plant. Trimmers: 1.
Steam/Power. Power Boilers: 1. Fuel. gas. Steam, lbs hr.. 60,000. Press.. 150 psi.
Electricity: Freq, phase 60, 3. Installed H.P 2100 electric. 300 water Purchased: 1500 kva.
Water Treatment. Daily Usage. 20. M.g.p.d. Source River
Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line
Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily

TROY

★**Abitibi-Price Corp.** Building Products Div.
Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St (PO Box 157) 49097
Tel 616-649-0510 Fax: 616-649-1516
RR ConRail siding Hwys: Near US Rte # 131, IS-194 IS-94 6 mi
Don Ulsh Opers Mgr
Dallas Weybright Gen Supt
Jeff Honour Ppr Mchns Supt
Gary Vandien Fnshng & Coating Supt
Michael Herbert, Tech Dir
Claus Globig, Mgr R&D
Bruce Block, Plant Engr
Stanley Martin, Mgr Qlty Cntrl
Bruce Kroeze Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir
Don Nay, Estrn Sls Mgr
Paper Mill Stock Preparation: Pulpers 3 Jones Pulpmaster Beaters. 2-1500 lb, 2-1000 lb Bertrams. Screens. 5 Refiners 3 double disc Morden. Jordans. 5 Jones Imperial
Paper Machines 1 Fourdrinier 121" Width 105" Trim 300 fpm
1 Fourdrinier 132" Width 112" Trim 500 fpm
1 Fourdrinier 134" Width 114" Trim 600 fpm
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3..
Coaters. off Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61" Trimmers: 3-66", 75", 110"
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000
Electricity: Purchased: 100%.
Water Treatment. Daily Usage. 2,500. M.g.p.d. Source: River, Wells.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.
Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, safety, photo mount, photographic base, rag translucent, tracing, reproduction, writing, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Silver Leaf Paper Corp. (formerly Watervliet Paper Co.) 279 Paw Paw Av 49098
Tel: 616-463-3141 Fax: 616-463-2850
RR: siding Hwys: US Rte # I-94. State Rte # 140.
Elmer C Beale, Pres, CEO
Harold Jennings Jr, Chf Fin Ofcr
Richard H Jones, Vice Pres, Sls & Mktg
Gordon Peterson, Vice Pres, New Busn Devl
Donald L Kirkpatrick, Vice Pres, Sls
George Lawton, Tech Mgr
Jim Maurer, Emply Rels Mgr
Terry Zimmerman, Paper Mill Supt
Alex Rogel, Ctg Mill Supt
John Pasquill, Matls Mgr
Kork Klimp, Maint & Engrg Mgr
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines 1 Fourdrinier 124" Width 114" Trim 1000 fpm
1 Fourdrinier 138" Width 126" Trim 1000 fpm
Dryers. Drums. 85 Size Presses: 2. Calenders: 2. Winders. 2..
Coaters, off Machine. Air Knife, 4: 92", 88", 70" 66"
On-Machine.1 128"
Finishing Plant. Supercalenders. 5: 119", 66", 80", 86", 96" Rewinders. 2 Sheeters: 3: 76" to 101" Trimmers: 2 85", 1 100" Other Eqt.: 1 Black Clawson Laminator 1 62" Embosser.
Steam/Power. Power Boilers. 3. Fuel. Coal. Steam, lbs hr 90,000 Press. 235 psi.
Electricity Installed H.P 450 water Purchased: 100%
Water Treatment. Daily Usage. 700 M.g.p.d. Source wells
Effluent Treatment. Primary Treatment: and Secondary Treatment
Products. No 1 & No. 2 offset enamel text and cover with 50% recycled fiber and 20% post-consumer waste, playing card stock, greaseproof, moldproof, wet strength C1S label, coated recycled papers for commercial printing and flexible packaging, 160 tons daily

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel 616-483-7601 Fax: 616-483-9989
RR: ConRail siding Hwys. US Rte # 12.
William Schmidt, Pres
Len Eggleston, Gen Supt
Frank Black, Supt
Ronald Hamilton Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
David DiBiaggio Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation Pulpers 4 Hydrapulper. Screens. 6 Refiners: 5
Paper Machines 1 seven-unit Ultraformer, 110" trim..
Dryers. Drums. 41 Calenders 2
Coaters, On-Machine. Air Knife and Rod
Finishing Plant Rewinders: 1 Trimmers: 1-85"
Steam/Power. Power Boilers 2 Fuel Oil/Gas Steam, lbs hr.. 180,000 Press.. 500 psi
Electricity. Purchased. 100%
Water Treatment. Daily Usage. 250. M.g.p.d Source River
Effluent Treatment. Primary Treatment. Clarifier Secondary Treatment: 6 Settling Basins
Products. Clay-coated boxboard, 200 tons daily

YPSILANTI

James River Corp. Ypsilanti Mill, Curtis Div. 1000 N Huron St. 48197
Tel: 313-482-2600 Fax: 313-482-1288
RR: ConRail siding. Hwys: US Rte # I-94.
Ted Johnson, Res Mgr
Addison D Mooken, Tech Dir
Gerald Linzmeyer, Enviro Mgr
Richard Franklin, Plant Engr
Pat Kittle, Prod Mgr
Steven D Schultz, Pdct Devl Mgr
Harold Rhora, Logstcs Mgr
John Burrows, Plant Supt
Paper Mill Stock Preparation: Pulpers: 2-2000 lb Hydrapulper Refiners. 1 Morden. Screens: 1 Bird pressure Jordans. 2 Jones Standard. Cleaners: Bauer Centricleaners. Consistency Regulators. Fischer Porter. Stock Mixers: Lightin agitators.
Paper Machines. Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Dryers. Drums. 29-36". Size Presses: 1 Calenders. 1 stack. Winders. 1..
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston Sheeters. 1-85", 65" Hamblet. Trimmers: 1-110" Lawson, 1-85" Seybold. Ream Wrapping & Cartoning Hayssen banding unit. Other Eqt.: Embossers: 3. Printer-Embossers. 1. Pasters: 1 duplex
Steam/Power. Power Boilers 1. Fuel Gas/Oil Steam, lbs hr.. 40,000 Press. 130 psi
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day
Water Treatment. Daily Usage. 500 M.g.p.d. Source. Wells, River Primary Treatment: yes
Effluent Treatment. Primary Treatment: City sewer system
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 40 tons daily

MINNESOTA

BEMIDJI

Georgia-Pacific Corp. Hardboard Plant 280 Nymore Rd NE (PO Box 518) 56601
Tel: 218-751-5140 Fax: 218-751-5831
RR: BN siding. Hwys: US Rte # 2,71,371
Robert W Riley, Res Mgr
Richard C Brown, Plant Supt
Gary Wilson, Mgr, Traf & Sls
Woodhandling and Preparation Barkers 1-21" Manitowoc Chippers. 1-12' Hansel. Avg Daily Use of Peeled Pulpwood 100 cds aspen
Pulp Mill Defibrated Wood Pulp Avg Daily Prod. Unbl Hwd , 100 tons Continuous Digesters 2 30' Grenco
Paper Mill Paper Machines Hardboard machinery including 49" X 97½' dry forming and pressing equipment, and 2 drying systems.
Steam/Power. Power Boilers 1 Fuel: Bark Steam, lbs hr 14,000 Press 200 psi.
Electricity: Freq, phase 440v 60, 3 Installed H.P 2350 electric Purchased 30,000 kwh/day
Water Treatment. Source: City
Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S. 290 Msf daily cap. (100 tons daily)

MHI-00298

TRYG R ANGELL LTD
SEARCH PLACEMENT
TRYG R ANGELL
2885 MAIN STREET • STRATFORD, CT 06497
Tel: 203-377-4541 Fax: 203-377-4545

Electricity: Freq, phase: 560v,60, 3. Installed H.P. 6750 kva. Purchased: 90%. Generated: 10%. Hydroelectric: 852 kva.
Products. Molded pulp egg cartons.

TURNERS FALLS

Esleeck Manufacturing Co. Inc. Canal St (PO Box 717) 01376
Tel: 413-863-4326 Fax: 413-863-3196
Hwys: Near US Rte # 91, 3 mi. State Rte # 2A.
William C Blanker, Chmn Bd, CEO
Charles H Blanker, Pres, COO, Treas
Ann H Blanker, Sec
Lon R Chub, Vice Pres, Mfg
Chris McInerney, Vice Pres, Sales
Richard F Matulewicz, Mgr, Tech Srvcs
Joseph P Lucas, Plant Engr
John H Helbig Jr, Mgr, Cust Srvcs
Glenn C Bechard, Sls Mgr, Busn Pprs
Pulp Mill Rags: Batch Digesters: 2 Rotary.
Pulp Processing: Washers: 2-2200 lb rag. Pulpers: 1.
Paper Mill Stock Preparation: Beaters: 2 1500 lb Bertram, 1 1500 lb breaker. Refiners: 3 disc. Jordans: 1.
Paper Machines. 1 Fourdrinier 123" Width 112" Trim.
Dryers. Drums: 14. Size Presses: 2. Calenders: 2. Finishing Plant. Supercalenders: 3: 38", 43", 56". Rewinders: 2. Sheeters: 1 Lenox cut-size. 6: 35", 35", 34", 38", 34", 44". Trimmers: 3: 57", 57", 52".
Steam/Power. Power Boilers: 4. Fuel: Oil. Steam, lbs hr.: 24,000. Press.. 225 psi.
Electricity: Freq, phase: 480 v, 60, 3. Purchased: 10,200 kwh/day. Generated: 1,800 kwh/day. Turbogenerators: 1 229 kw.
Water Treatment. Daily Usage. 1,000. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier, flotation saveall, effluent to municipal plant.
Products. Cotton-content and 100% chemical wood pulp bond and writing, erasable, onion skin, tracing, technical, chart, airmail, manifold, diazo intermediate base, sensitizing, saturating, transparentizing base papers, 26 tons daily.

Strathmore Paper Co. Canal St 01376
Tel: 413-863-4333 Fax: 413-863-3035
Hwys: Near US Rte # 2 Approx Mi 1.
Timothy Griffin, Plant Supt
Frank Ribeiro, Area Mgr
R.J. Pasteris, Chem
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill
Products. Bond, writing, text, cover, drawing and illustration papers.

WESTFIELD

★**Strathmore Paper Co.** Central Finishing, Whse & Dstbtn Ctr. S Broad St 01085
Tel: 413-568-9111
Headquarters Location See Executive Offices section for more details
Hwys: Near US Rte # 90, 91.
Norman W Brown, Plant Mgr
Gary R Bourdeau, Asst Plant Mgr
Paper Mill Stock Preparation: Pulpers: 7 Refiners: and Jordans. 23
Paper Machines 1 Fourdrinier 66" Width 56" Trim (idle).
1 Fourdrinier 77" Width 68" Trim (idle)
1 Fourdrinier 90" Width 80" Trim.
1 Fourdrinier 83" Width 72" Trim
1 Fourdrinier 87" Width 74" Trim
1 Fourdrinier 94" Width 80" Trim.
1 Fourdrinier 94" Width 80" Trim
1 Fourdrinier 110" Width 96" Trim
1 Fourdrinier 124" Width 110" Trim.
Dryers Winders: 7
Finishing Plant Supercalenders: 1 Sheeters: 10. Trimmers 10 Embossers 3.
Products. Bond, writing, vellum, bristols, wedding, typewriter, text and cover, art, drawing, papeteries, greeting card, deckle-edge, embossed, plate-finish, watermarked, business and printing papers, duplex boards, 141 tons daily, total of Turner's Falls, Woronoco, and Millers Falls mills.

WEST GROTON

Hollingsworth & Vose Co. Townsend Rd 01472
Tel: 508-448-3311 Fax: 508-448-5072
RR: ConRail siding. Hwys: Near State Rte # 2A. Near US Rte # 40.
Kenneth Andrews, Vice Pres, Mfg
John Fawcett, Opers Mgr
Jeffrey McCann, Qlty Mgr
Kenneth Fausaucht, Admin Srvcs Mgr
Barbara Dominick, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3. Jordans: 4. Cleaners: Bauer Centricleaners.
Paper Machines. 1 Fourdrinier 77" Width 72" Trim. Rotoformers: 1 120" width, 110" trim.
Finishing Plant. Rewinders: 2. Sheeters: 2. Trimmers: 2
Steam/Power. Power Boilers: 3. Fuel: Oil. Press.: 150.
Electricity: Freq, phase: 60, 3.
Water Treatment. Daily Usage. 5,000. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Industrial specialty, saturating, absorbent, fiberglass automotive and heavy-duty filter, absolute filter, non-woven papers, battery separator paper, 50 tons daily.

WEST SPRINGFIELD

Decorative Specialties International Inc. Front St (PO Box 6001) 01090-6001
Tel: 413-736-4554 Fax: 413-736-6630
RR: ConRail siding. Hwys: US Rte # 20. Near State Rte # Mass Tnpke Approx Mi 4
William S Linnell, Vice Pres, Gen Mgr
Robert J DeGeorge, Plant Mgr
Ludwig A Wax, Tech Dir
John Potter, Chief Engr
Leroy Ferguson, Prchsg Mgr
Pat L Sliva, Dir Mktg
Paper Mill Stock Preparation. Pulpers: 1. Screens: 2. Refiners: 1. Jordans: 1.
Paper Machines 1 Fourdrinier 72" Width 63" Trim. Coaters, Off-Machine 1-60" reverse roll, 1-60" knife, 1-60" impregnator.
Finishing Plant Rewinders: 1. Sheeters: 1. Other Eqt.: 1-60" two-station roto-gravure printer, 3-60" roll embossers.
Water Treatment. Daily Usage. 400. M.g.p.d. Source: River Primary Treatment. Yes
Effluent Treatment. Primary Treatment: None. Effluent to municipal plant.
Products. Absorbent papers, latex treated paper and board, latex saturated artificial leather base, vinyl coated papers, special industrial and technical papers, 30 tons daily

Southworth Co. Front St 01089
Tel. 413-732-5141 Fax: 413-732-7118
RR: ConRail siding. Hwys. US Rte # 91,20
John H Southworth, Chmn
Kent Tarrant, Pres
David C Southworth, Exec Vice Pres
Jack E Moffett, Vice Pres, Sales
Elio Viecelli, Supt
John F Hamel, Treas
Paper Mill Stock Preparation: Pulpers. 2. Refiners. 2 disc. Jordans: 2.
Paper Machines. 1 Fourdrinier 85" Width 70" Trim. Dryers Size Presses: tub
Finishing Plant. Sheeters. 3 Trimmers 4
Steam/Power. Power Boilers. 2 Fuel. Oil.
Water Treatment. Source. River
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Rag content bond, typewriter, onionskin, manuscript cover writing papers, 25 tons daily.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111 Fax: 413-568-9429
RR: B&M. Hwys: US Rte # 20
James A Stevens, Supt. Mill No. 2
Carl Bednarsky, Asst Supt
Brian Meade, Chem
Sherri L LaPorte, Chem
Paper Mill Paper Machines. Equipment listed under Westfield, MA mill
Products. Mill No. 1. writing, text, cover, artist's, papeterie papers (idle) Mill No. 2: Rag specialty, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location. See Executive Offices section for more details.

ALPENA

ABTco, Inc. Abitibi Building Products 416 Ford Ave. 49707
Tel: 517-354-2121 Fax: 517-356-2504
RR: Detroit & Mackinac Siding. Hwys: US Rte # 23 State Rte # 32.
K.C. Nielsen, Plant Mgr
T.E. Ludwig, Sr Maint Mgr
H.L. Scull, Plant Supt
L.M Plowman, Mgr Pdct & Process Devl
A.R. Dean, Mfg Supt
R.W. Murdock, Engrg Supt
A.J. Nadeau, Power Prod & Enviro Supt
L.E. Springer, Contr
W.H. Hunter, Plant Buyer
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers. 1-96" 12-knife. Avg. Daily Use of Peeled Pulpwood: 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 400 tons Batch Digesters: 4 Bauer Rapid-Cycle.
Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones repulper. Refiners. 3 Bauer, 2 Sprout-Waldron pumpthru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim
1 Hardboard Fourdrinier 50" Width 48" Trim.
Finishing Plant. Other Eqt.. 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.. 240,000 Press.. 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000 Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage. 1,500. M.g.p.d. Source: River Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.
Products. S1S and S2S hardboard, 360 MMsf annually (400 tons daily)

★**Fletcher Paper Co.** 318 W Fletcher St. 49707
Tel 517-354-2131 Fax. 517-356-6327
Headquarters Location See Executive Offices section for more details
RR: D&M siding Hwys. US Rte # 23. State Rte # 32.
Allan M Fletcher, Chmn, Treas
Paul T Hoelderle, Pres
Larry Simpson, CFO, Sec
James A Kelley, Ppr Mill Mgr
Michael J Bekes, Opers Mgr
Jay Robbins, Chief Engr
Bill England, Pur Agt
Tom Woods, Traffic Mgr
Rick W Sterling, Mgr Mktg & Sls
Carl Bourdelais Mgr Ctd Pdcts
Harry Bryant, Instr Supv
Paper Mill Stock Preparation: Pulpers 1 high-consistency, 3 Hydrapulpers. Screens. 2 Selectifier. Refiners. 5 Jones DD Jordans: 3 Jones
Paper Machines 1 Fourdrinier 112" Width 100" Trim 1000 fpm.
1 Fourdrinier 112" Width 100" Trim 1150 fpm.
Dryers. Drums: 62 Size Presses: 2. Calenders: 2 stacks Winders: 2
Coaters, Off-Machine 1-60" Roll-Blade-Gravure, 10 tpd capacity

MHI-00299

Finishing Plant Sheeters 1-67" precision Trimmers 2 65" 85
Steam/Power. Power Boilers 2 Fuel Gas & Oil, Coal Steam lbs hr 140,000 Press. 450 psi Electricity Freq phase 60, 3 Generated 72,000 kwh/day
ater Treatment. Daily Usage 1,100 M.g.p d Source Thunder Bay River Primary Treatment. Yes
Effluent Treatment. Primary Treatment: 1 Clarifier
Products Bible offset carbonizing, chart, coating base label manifold flame retardant, mold inhibiting, pattern map onionskin opaque bond, release saturating, sensitizing technical, wet strength and writing papers 85 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd 49015-1079
Tel 616-968-3000 Fax 616-968-0198
RR ConRail Hwys State Rte # 96 Near US Rte # IS-94 Approx Mi 8
C Roger Davisson Pres
Daniel W Schoenbeck Vice Pres Opers
James D Schwoebel Vice Pres, Admn
H Christian Mueller Vice Pres, Sls
Gregory A Worsnop Vice Pres, Fin
Dave Bennett, Vice Pres Engrg
Pulp Mill Ground Wood, Refiner Avg Daily Prod Thermomechanical 30 tons Refiners 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation Pulpers 1 Hydrapulper
Paper Machines Rotoformers 3 pulp molding machines of own design
Products. Molded wood fiber products for automotive interior trim

Michigan Paperboard Co. 79 E Fountain St 49017
Tel 616-963-4004 Fax 616-963-1306
RR ConRail GTW siding Hwys Near US Rte # I-94 I-69 3 mi Near State Rte # 66,37 89 3 mi
Terry Tiffany Pres
James M Lambert Mfg Mgr
C Tobey Mfg Supt
Gary McMillan Plant Engr
Jonn Goll Qlty Mgr
Joseph McCarthy Contr
Jack Crabtree Ind Rels Mgr
Neil Hannan Prchsg Mgr
Jack Roberts Mech Buyer
Paper Mill Stock Preparation Pulpers 3-4000 lb Morden 1-14 1-20 Hydrapulper 1-3000 lb Refiners 1 disc Jordans 3 Screens Centrisorter
Paper Machines 1 Stevens Former Seven-Cylinder 120 Trim 750 fpm
1 Ultraformer Six-Cylinder 98' Width 96" Trim 450 fpm
Dryers Drums 60
Steam/Power Power Boilers 2 Fuel Gas Oil Steam lbs hr 80 000
Products. Combination boxboard 340 tons daily

Waldorf Corp. 177 Angell St 49015-1958
Tel 616 963-5511 Fax 616-963-5564
RR ConRail GTW siding Hwys US Rte # I-94 I-69 State Rte # 66 37 89
Mark Shapton Opers Mgr
Nelson Gainache Plant Engr
Paul Stofer Tech Supt
Mike Minger Qlty Mgr
Chris Hansen Contr
Dale Blanchard Prod Supt
William Dever Maint Supt
Cheryl Schwanz Prchsg Supv
Paper Mill Stock Preparation Pulpers 1-3000 lb Morden Slushmaker 3-16 Hydrapulpers Screens 8 Centrisorter Refiners 4 Sprout Waldron disc Cleaners 3 systems
Paper Machines 1 Beloit Bel-Bond Six-Cylinder 146 Width 130 Trim 1064 fpm
Dryers Drums 85 60" Calenders 3 stacks 1 breaker stack Hi-Velocity 2 gas infrared Winders 1 Beloit
Coaters On-Machine Kohler blade Black Clawson air knife 450 tpd cap
Finishing Plant Sheeters 1 Clark Aiken
Steam/Power Power Boilers 2 Fuel Oil/Gas Steam lbs hr 140 000
Electricity Purchased 212 500 kwh/day Generated 37 500 kwh/day Turbogenerators 1 Elliott 2000 kw/kva

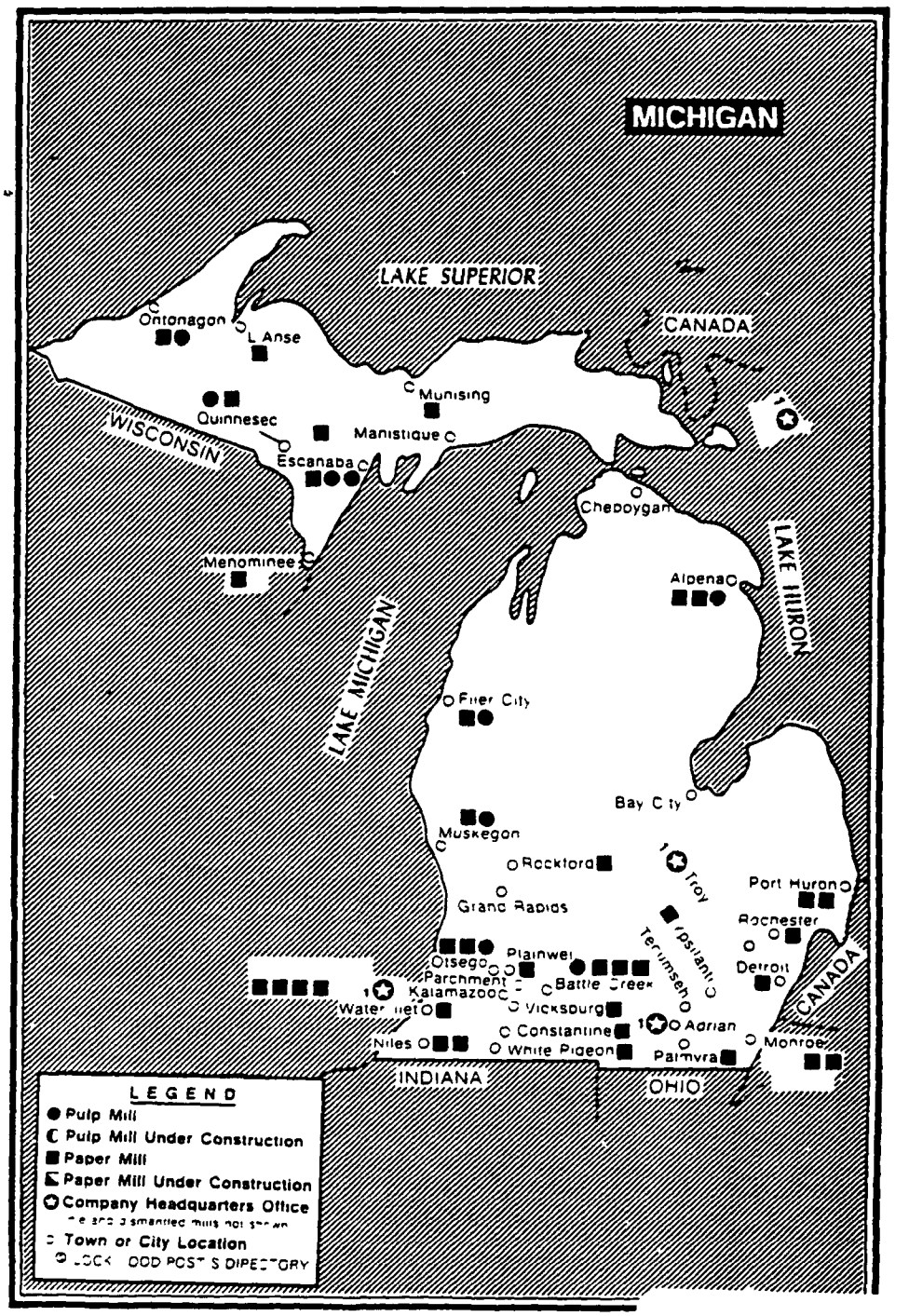
Water Treatment. Daily Usage 750 M g p d Source River
Effluent Treatment. Primary Treatment 2 flotation clarifiers Effluent to joint industrial/municipal plant
Products White clay coated white lined news bending chip 450 tons daily

CHEBOYGAN

Procter & Gamble Paper Products Co 437 S Main St
RR D&M siding Hwys US Rte # 27
Paper Mill Paper Machines 1 Yankee Fourdrinier 136" Width 130" Trim
1 Yankee Fourdrinier 136' Width 130" Trim
Products. Sanitary tissue 100 tons daily
Paper Mill is Idle

CONSTANTINE

Simplex Products Group Centreville Rd E 3rd St 49042
Tel 616-435-2425 Fax 616-435-7510
RR ConRail siding Hwys US Rte # 131
Ross Collins Mill Supt
Barry Lusk Maint Supv
Andrew Jiskra Shpng/Rcvng Supv
Sandy Munson Office Mgr
David Erickson Tech Mgr
Paper Mill Stock Preparation Pulpers 2 Screens 3 Refiners 4 1 deflaker Other Eqt 1 disc filter
Paper Machines 1 Eight-Cylinder 112 Width 100' Trim
Dryers Drums 4 sets hi-stack
Finishing Plant Other Eqt Laminators 2
Steam/Power Power Boilers 2 Fuel Gas/Oil Press 150 psi
Electricity Freq, phase 440 v 60 3 Purchased 100%
Water Treatment. Daily Usage 70 M g p d Source River
Effluent Treatment. Primary Treatment. None Effluent to municipal plant
Products. Chipboard test liner 150 tons daily



• CENTRAL NATIONAL-GOTTESMAN INC. •
Three Manhattanville Road, Purchase, NY 10577-2110 Tel: 914-696-9000 Fax: 914-696-1066
ALL GRADES OF PULP FROM U.S. & WORLDWIDE SOURCES BLEACHED HARDWOOD KRAFT PULP

DETROIT

IPMC Inc. (IVEX Paper Mill Corp.) 9125 W Jefferson Av 48209
Tel: 313-842-0042 Fax: 313-842-1055
RR: ConRail siding, Rouge Yard. Hwys: US Rte # IS-75.
James V Painter, Vice Pres, Mill Mgr
Michael B Zajas, Prod Mgr
Paul Zajas, Prod Mgr
Darrell Dick, Engrg Mgr
Gasper Calandrino, Maint Mgr
David Anganello, Mchn Mgr
Louis J Sturm, Tech Mgr/ISO Mgr
Cindy Cornish, Cust Srvc Mgr
Carol Klopfer, Human Rsrcs Mgr
Douglas A Murray, Contr
J David Fleet, Sales Mgr
Kris E Brady, Logstcs Mgr
Paper Mill Stock Preparation: Pulpers: 6. Refiners: 9 double disc.
Paper Machines. 1 Yankee Fourdrinier 133" Width 123" Trim 900 fpm.
1 Yankee Fourdrinier 135" Width 124" Trim 1500 fpm
1 Yankee Fourdrinier 137" Width 126" Trim 1300 fpm.
1 Yankee Fourdrinier 144" Width 130" Trim 2200 fpm.
Dryers. Drums: 22 drums. Yankee: 4. Calenders: 4 stacks. Winders: 4
Finishing Plant. Rewinders: 1. Roll Wrapping Eqt.: automatic
Steam/Power. Power Boilers: 3. Fuel: Gas/Oil. Electricity: Generated: 65%. Purchased: 35%.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system
Products. Lightweight MG papers (8.5-35 lb basis weights) for waxing, twisting, foil lamination, packaging, and specialties; recycled papers, bleached, natural and colored kraft converting specialties, creped specialty grades (16-50 lb basis weights), 175 tons daily

ESCANABA

Mead Corp. Publishing Paper Div PO Box 757 49829-0757
Tel. 906-786-1660 Fax: 906-789-3222
RR: C&NW, WI Cntrl sidings. Hwys: US Rte # 2.41 State Rte # 35
Gary L Butryn, Pres, Gen Mgr
Kirk D Bruno, Vice Pres, Admin
Michael T Mack, Vice Pres, Mktg
W.H. Goode, Dir, Mfg Opers
L King, Gen Supt of Pulping
G.W Brown, Dir Prod Tchnlgy
Robert Blake Mgr, Qlty Assrnc
Dave Bonistall, Enviro Control Tech Dir
Mike Fornetti, Util Mgr
Mark H Miller Mgr Mktg Srvcs
Michael R Crabill Contr
Joseph P Hooge Mgr Prchsg Srvcs
Mike McDonald, Dir Human Rsrcs
Eugene Malarsky, Natl Sls Mgr
Kel Smyth Pub Rels Cnsltnt
James Okraszewski, Gen Mgr Woodlands
Woodhandling and Preparation Chip Handling: Rader pneumatic system Barkers: 2 14.5'x80' drum. Hogs 1 Gruendler bark, 1 Gauld shredder Chippers 2 116" B C Chip Screens. 1 screening and slicing system Kone de-icing conveyor
Pulp Mill Kraft Avg. Daily Prod.. Bl Swd., 875 tons Bl Hwd . 1060 tons of which 50 tons is Market Pulp. Batch Digesters: 8 6,500 cu.ft
Ground Wood, Refiner Avg. Daily Prod.: Bl. Hwd., 250 tons Refiners. 4 primary, 2 secondary, 1 rejects, Bauer 48" 4500 hp
Chemical Recovery Plant Evaporators: 1 6-effect Swenson Recovery Boilers. 1 B&W, 2,800,000 lbs solids/day, 500,000 lbs steam/hr at 1475 psi, 950° Electrostatic Precipitators: 1 Koppers on rcvry boiler, 1 PCW on No 11 power boiler Lime Kilns 1 Allis-Chalmers Gas Scrubbers: 1 Ducon on recovery boiler 2 Chemco on No 9 boiler, 1 venturi on kiln. Lime Mud Washers: 1 40'x55' Dorr-Oliver, 9x9 mixer Recausticizing System. Dorr-Oliver.
Bleach Plant. Sequence Gwo: P stage. Kraft: (D&C)-E/O-D-E-D. Chlorine Dioxide System: Albright & Wilson R8.
Pulp Processing: Screens: RMP: 4 Model 100, 1 Model 400 Bird Centrisorter. Cleaners: five-stage Noss system. Washers: 1 13.5'x20' Dorr-Oliver drum filter. Deckers: 1 12'x19' Dorr-Oliver disc. Drainers: 1 Thune press. Stock Refiners: 2 34", 1 26" Sprout-Waldron Twin-Flo.
Screens: Kraft: 2 prim., 2 sec., 1 tert. Bird Centrisorter. Washers: 4 13.5'x24' Impco brown stock; 5 13.5'x24' Impco blchd stock. Deckers: 1 13.5'x24' Impco.
Pulp Drying: Dryers: Former No 2 P&J paper machine modified for pulp drying: 166" width, 155" trim, 1300 fpm, 300 tpd capacity. Cutter-Layboys: 1 Lamb-Grays Harbor.
Paper Mill Stock Preparation: Pulpers: 3 Hydrapulpers, 2 continuous Morden, 1 Beloit Jones, 2 Hydrapulper broke. Screens: 6 Centriscreen, 2 broke. Refiners: 13 Sprout-Waldron disc, 5 Deflakers (broke). Cleaners: 3 five-stage Bauer Centricleaner-Deculator systems.
Paper Machines. 1 Pusey & Jones Fourdrinier 166" Width 151" Trim 2300 fpm.
1 Beloit Fourdrinier 300" Width 274" Trim 3300 fpm
1 Valmet Fourdrinier 320" Width 304" Trim 3500 fpm.
Dryers. Winders: 3 Jagenberg single-drum, 1 Cameron MIR, 1 Wartsila two-drum, 1 Cameron two-drum.
Coaters. Off-Machine. Trailing Blade, 1-286", 1-172", 1-302".
Finishing Plant Supercalenders: 2 9-roll Bruderhaus. 2 12-roll Kleinewefers, 2 10-roll Appleton A-Frame. Roll Wrapping Eqt.: Lamb-Grays Harbor automatic with double crimp and header lines. Rewinders: 1 Lenox, 1 Cameron, 1 Jagenberg two-drum.
Steam/Power. Power Boilers: 4 Fuel: oil, gas, bark, coal. Steam, lbs hr.: 1,600,000. Press.: 400/1500 psig.
Electricity: Freq, phase. 60, 3. Installed H.P. 100,000. Hydroelectric: 3,000 kwh/day. Turbogenerators: 70,000 kwh/day.
Water Treatment. Daily Usage, 40,000. M.g.p.d. Source: Lake Michigan. Primary Treatment: Sand filters, Marley four-cell cooling tower
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon and activated sludge, secondary clarifier, unaerated lagoon Tertiary Treatment: Clarifier 5 Winkle sludge presses.
Products. Coated book and publication papers, 1480 tons daily Kraft hardwood market pulp, 50 tons daily

FILER CITY

Packaging Corp. of America Corrugated Products Div PO Box 316, Manistee 49660
Tel: 616-723-9951 Fax: 616-723-1395
RR CSX. Hwys. US Rte # 31
Fred J Fragomeli, Vice Pres & Mgr
Charles D Smith, Prod Mgr
Carl F Mills, Cust Srvc Mgr
G.R Haw, Tech Dir
Richard H Mark, Engrg Mgr
Joseph S Oleniczak, Maint Mgr
Douglas C Hicks, Fin Mgr
D.L. Bell, Prchsg Mgr
Allen A Gagstetter, Dir, Indl Rels
Beryl G Toler, Wdlnds Mgr
Kenneth C Bauer, Power Supt
Woodhandling and Preparation Roundwood Storage Capacity 20,000 Cords. Barkers, 1 12'x80' FMP drum Chippers. 1 112", 12-knife. Chip Screens: 2 HiCap
Pulp Mill Semi-Chemical, Avg. Daily Prod.. soda carbonate: 600 tons Continuous Digesters. 3 Pandia. Chemical Recovery Plant. Evaporators. 2 multiple-effect. Recovery Boilers 1 fluidized bed unit.
Pulp Processing: Stock Refiners 3 American Defibrator Washers 1 vacuum, 6 screw press
Paper Mill Stock Preparation Pulpers. 3. Screens. 3 Refiners: 4 Jones. 5 Sprout Waldron, disc
Paper Machines. 1 Fourdrinier 174" Width 158" Trim 1400 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm
1 Fourdrinier 160" Width 148" Trim 850 fpm
Dryers. Drums 148-60" dia
Steam/Power. Power Boilers: 4 Fuel 1 Bark, 1 Gas, 2 Coal. Steam, lbs hr.: 600,000 Press.. 610 psi Electricity: Purchased: 305,000 kwh/day. Generated 235,000 kwh/day Turbogenerators. 3-21,875 kva total
Water Treatment. Daily Usage, 20,000 M.g.p.d. Source. River, Lake
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment: Aeration pond.
Products. Semichemical corrugating medium, 800 tons daily.

KALAMAZOO

Georgia-Pacific Corp. Communication Papers Div. 2425 King Hwy 49001
Tel: 616-382-2890 Fax: 616-343-9428
RR: ConRail, GTW, siding. Hwys: US Rte # I-94. Near State Rte # 96
Thomas F Sullivan, Gen Mgr
C.R. Larrick, Prod Mgr
Pulp Mill Deinked Pulp: Avg. Daily Prod.: 2 lines of 10 primary and 2 secondary flotation cells, 110 tons Bleach Plant. Sequence: 1 peroxide, 1 hydrosulphite stage. Towers. 1 downflow.
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4-1500 lb. 6-2500 lb, 2-3500 lb Refiners: 5.
Paper Machines. 1 Fourdrinier 185" Width 163" Trim 2500 fpm
1 Fourdrinier 170" Width 150" Trim 2000 fpm.
Dryers. Size Presses. 1
Coaters. On-Machine. 1 Billblade.
Steam/Power. Power Boilers: 1. Fuel: Coal, Gas. Steam, lbs hr.: 245,000. Press.. 875 psi.
Electricity: Freq, phase. 440v, 60, 3. Installed H.P 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.
Water Treatment. Daily Usage, 4,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system
Products. Bond, offset, label, coated and recycled grades, 400 tons daily

★**James River Corp.** Paperboard Packaging Group 243 E Paterson St 49007
Tel: 616-383-5000 Fax: 616-383-5454
Headquarters Location. See Executive Offices section for more details.
RR: ConRail. Hwys: US Rte # 12, 13, I-94. State Rte # 43.
Stephen Beach, Plant Mgr, Pprbd
Mark Reed, Prod Mgr K-1 Mchn
Fay Beebe, Supt, Plt 4
Jeff Lawler, Supt, Plt 14 (Cnvtg)
Richard Bennett, Tech Dir
Phil Zirngibl, Mgr Engrg, Util
Peter Oppenhuisen, Contr
R Keith Lolley, Empl Rels Mgr
Paper Mill Stock Preparation: Pulpers, 10 Hydrapulpers, 1 Morden Slushmaker Beaters: 1 continuous broke
Paper Machines 1 pressure former Seven-Cylinder 132" Width 120" Trim
1 K-1 triple-ply board machine, with 2 Ply-Former top fourdriniers on Tampella base Fourdrinier 162" Width 146" Trim with Tamformer S top dewatering unit on middle Ply-Former, TamSec press section, 75 72" dryers
Coaters, On-Machine, 2 Air Knife, 2 Bar
Extrusion Trim Width, 1-76" double-head Beloit PE coater
Finishing Plant, Other Eqt: 1 56" Inta-Roto laminator
Steam/Power. Power Boilers 3 Fuel: Gas/Oil Steam, lbs hr 450 000
Water Treatment. Daily Usage, 2,000 M.g.p.d. Source: Deep well
Effluent Treatment. Secondary Treatment: via municipal syst
Products. Machine clay-coated folding boxboards, foil laminating, grease and moisture resistant laminated, polyethylene coated, 800 tons daily.

Nickal Paper Co. 2305 E. King Hwy
RR ConRail siding Hwys US Rte # 12

MHI-00301

HOWARD ZUKER ASSOCIATES
919 N MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700 • FAX 312-944-1471
THE PAPER TIGERS

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 3 Sprout Waldron.
Paper Machines. Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm.
Dryers. Drums: 110. Infrared: 30. Calenders: 1 stack.
Finishing Plant. Rewinders: 1.
Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 48,000 kwh/day.
Water Treatment. Daily Usage. 580. M.g.p.d. Source: Wells, City.
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Recycled 69 lb. linerboard, 160 tons daily. Paper Mill is idle.

Portage Paper Co. Inc. 2030 Portage St (PO Box 2048) 49003
Tel: 616-345-7131 Fax: 616-345-1609
RR: ConRail sidings. Hwys: US Rte # IS 94, 131. State Rte # 43.96.
Jim Cole, Mill Mgr
Paper Mill Paper Machines. 1 Fourdrinier 137" Width 124" Trim (idle).
1 Fourdrinier 139" Width 126" Trim (idle).
1 Fourdrinier 141" Width 127" Trim (idle).
1 Fourdrinier 154" Width 142" Trim.
1 Fourdrinier 164" Width 152" Trim (idle).
Coaters, Off-Machine. C2S Fountain Blade, 126" trim
Steam/Power. Power Boilers: Fuel: Oil/Gas.
Water Treatment. Source: River, Wells.
Effluent Treatment. Primary Treatment: 2 clarifiers.
Products. Recycled kraft papers, 70-75 tons daily.

★**Silver Leaf Paper Corp.**
Headquarters Location. See Executive Offices section for more details.

L'ANSE

The Celotex Corp. PO Box 167 49946
Tel: 906-524-6101 Fax: 906-524-6613
RR. Soo Line. Hwys: US Rte # 41.
C.N Abbott, Plant Mgr
L.E. Tollesson, Board Mill Supv
B.J Stolarz, Plt Engr
R.G. Niemele, Plt Contr
Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper
Paper Machines. Black Clawson Fourdrinier 172" Width 165" Trim 50 fpm. Dryer: 1-450' 8-deck Coe.
Coaters, Off-Machine. Acrylic coater.
Steam/Power. Power Boilers Steam, lbs hr.: 93,000.
Electricity: Purchased: 100%
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Bay
Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products. 270 tons daily.

MANISTIQUE

Manistique Papers Inc. 453 S Mackinac Av 49854
Tel 906-341-2175 Fax 906-341-5635
RR: Wis. Cntrl. siding Hwys: US Rte # 2.
Leif Christensen Pres, Gen Mgr
Tony Martin, Paper Mchne Supt
Jon Jonnson, Plant Engr
Donald Schnurer, Pur Mgr
E.A Bourdo Mgr Rcyclg Opers
Larry Koski, Sales Mgr
Jason Panek, Tech Dir
Linda Benedetto, Contr
Pulp Mill Deinked Pulp: Avg. Daily Prod., cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners 1 Claflin
Paper Machines. 1 Twin-Wire former, 165" width, 154" trim 4200 fpm
Dryers. Drums: 48 60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 145,000. Press.: 350 psi.
Electricity: Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River. Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Recycled and colored newsprint, groundwood printing and groundwood converting papers, 275 tons daily.

MENOMINEE

Menominee Paper Co Inc. 144 First St (PO Box 310) 49858-0310
Tel: 906-863-5595 Fax: 906-864-3320
RR: ELS. Hwys: US Rte # 41. State Rte # 173.
Marshall Schneider, Vice Pres, Gen Mgr
Dick Peterson, Prod Mgr
Jules Nagy, Gen Mgr, Ppr Pdcts
Larry Eggleston, Gen Mgr, Bd Sls, Mktg & Plng
Ginny Abel, Contr
Kenneth Jacobson, Human Rsrcs
Anita Doepke, Dir, Enviro Affrs
Randy Barstow, Qlty Imprvmt Proc Admn
Victoria Mock, Tech Dir
Ed Bush, Maint Supt
Dave Nielsen, Mtrls Mgr
Russ Horsley, Plant Engr
Craig Grajeda, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners. 2 Claflin. Jordans: 5.
Paper Machines. 1 Black Clawson Fourdrinier 164" Width 154" Trim with ENP-C press.
1 Yankee Fourdrinier 136" Width 128" Trim.
Finishing Plant. Supercalenders: 2. Rewinders: 4. Slitter/Rewinders: 3. Other Eqt.: Waxers: 5.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.. 140,000
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day Turbogenerators: 2
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source. River
Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.
Products. Linerboard, corrugating medium, tube stock, bag stock, 450 tons daily. Baking cup stock, waxing tissue, lightweight MG, 60 tons daily. Waxed paper in rolls, sheets, and bags.

MONROE

Jefferson Smurfit Corp. Industrial Packaging Div. 1151 W Elm Av 48161
Tel. 313-241-7776 Fax: 313-241-2189
RR: C&O siding Hwys: US Rte # 24, I-75.
Douglas Banks, Reg Mgr
Dave Briere, Mill Prod Mgr
Edward G. Strass, Tech Mgr
D Lalor, Chief Engr
Gary VanWormer, Fnshg Supt
Greg Keefer Plant Contr
E Flotow, Sales Rep
J Zimmerman, Sales Rep
Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper Refiners. 1 Sprout Waldron, 2 Emerson. Jordans 3 Shartle
Paper Machines 1 Seven-Cylinder 124" Width 110" Trim 450 fpm.
Dryers. Drums. 104. Calenders. 2 stacks. Winders: 1
Finishing Plant. Rewinders. 2. Trimmers: 1
Steam/Power. Power Boilers Fuel: Gas, Oil. Steam, lbs hr 70,000
Electricity: Purchased: 100%
Water Treatment. Daily Usage, 750 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: Joint municipal-industrial system
Products. Plain chip, can and tube board, lightweight chip, 130 tons daily

Jefferson Smurfit Corp. Industrial Packaging Div 1220 East Elm Av 48161
Tel: 313-241-7700 Fax: 313-241-6493
RR: ConRail, Grand Trunk. Hwys: Near US Rte # IS-75, 1 mi. State Rte # 50
Robert Wright, Plant Mgr
Patrick M McBee, Plant Srvcs Mgr
A Bussell, Mchn Supt
Allan L Loux, Tech Mgr
W Manor, Tech Supt, Mill Engr
Greg Keefer, Plant Acct
Paper Mill Stock Preparation: Pulpers: 1-15' Apmew Pulper, 2-20' and 1-16' Hydrapulper. Screens: 14 Selectifier. Refiners. 2-34" S-W. Jordans: 2 Emerson 2-OD. Cleaners: 8-10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. 1 Black Clawson Seven-Cylinder 120" Width 108" Trim 600 fpm.
1 Seven-Cylinder 120" Width 108" Trim 400 fpm.
Dryers. Drums: 103, and 137-42" dia. Reels: 2 Autoflyte. Winders: 2 two-drum.
Steam/Power. Power Boilers: 2. Fuel: Gas, Oil. Steam, lbs hr.: 140,000. Press.: 600/175 psi.
Electricity: Purchased: 100%.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Lake Erie. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.
Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards, 200 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Mill 501 E Munising Av (PO Box 10) 49862-0010
Tel: 906-387-2700 Fax: 906-387-4767
RR: Wis Central. Hwys: State Rte # M28, M94.
Mark Kerstetter, Mill Mgr
Jon Holztrager, Admn Mgr
Mike Kerwin, Human Rsrc Mgr
Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim.
Coaters, Off-Machine. 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser, 1 Laminator
Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste Oil standby
Water Treatment. Daily Usage. 5,000. M.g.p.d. Source. Lake Superior
Effluent Treatment. Primary Treatment: Yes.
Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties, 98 tons daily

MUSKEGON

S.D. Warren Co. 2400 Lakeshore Dr (PO Box 119) 49443
Tel: 616-755-3761 Fax: 616-759-5234
RR: C&O siding Hwys: US Rte # 16,31,I96. State Rte # 46.
L.J. Barry, Vice Pres, Gen Mgr
Don Booker, Pulp Util Mgr
John Holland, Mgr Cust Srvc
John S Moran, Chief Engr
Norm Russell, Ppr Mill Fnshg Mgr
Jack D Bultema, Tech Dir
Raymond Bickowski, Mgr Util
P G Van Hoesen, Mgr Plng & Indl Engrg
John Shanks, Pur Agt
Jim Ware, Traffic Mgr
Jeff Fern, Human Rsrcs Mgr
Woodhandling and Preparation Roundwood Storage Capacity 5,000 cds Chip Storage Capacity: 120,000 tons Mobile Equipment: Hopto RR crane, Poclain crane Flume. 1. Log Handling: Drag and belt conveyors Chip Handling: Rader pneumatic system Sawdust Handling Rader pneumatic system Chip Unloaders Hydraulic truck dumper. Barkers 1-30 cds/hr Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15 knife Carthage Norman Chip Screens 3 Link Belt. Avg. Daily Use of Peeled Pulpwood. 300 cds swd, 200 cds hwd.
Pulp Mill Kraft Avg. Daily Prod.: Bl. Swd., 125 tons Bl Hwd., 125 tons Continuous Digesters: 1 Kamyr Chemical Recovery Plant. Evaporators: 1 six-effect Swenson Black Liquor Oxidation System: Champion system Recovery Boilers 1 C-E, 750,000 lbs solids/day Lime Kilns 1 Dorr Oliver Fluo-Solids, 70

MHI-00302

• CENTRAL NATIONAL-GOTTESMAN INC. •
Three Manhattanville Road, Purchase, NY 10577-2110 Tel: 914-696-9000 Fax: 914-696-1066
ALL GRADES OF PULP FROM
U.S. & WORLDWIDE SOURCES
BLEACHED KRAFT PULP

tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3-9' x 16' Impco vacuum. Deckers: 2-9' x 16', 8' x 8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Layboys: Hamblet. Scales: 1.
Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper. Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines. Beloit Fourdrinier 163" Width 144" Trim 1100 fpm.
Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm.
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum.
Coaters. On-Machine. Trailing Blade. 1-163" puddle. 1-222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-87", 1-115", 1-80". Roll Wrapping Eqt.: D.J. Murray system. Rewinders: 3 Langston. Sheeters: 1 Lenox folio; 3. 100" to 112". Trimmers: 3-100". Ream Wrapping & Cartoning: Southworth system. Strapping Eqt.: Signode system.
Steam/Power. Power Boilers: 3. Fuel: Coal/Oil. Steam, lbs hr.: 500,000. Press.: 500 psi.
Electricity: Freq, phase: 60, 3. Purchased: 3,500 kwh/day. Generated: 19,000 kwh/day. Turbogenerators: 3-25,500 kw.
Water Treatment. Daily Usage, 20,000. M.g.p.d. Source: Lake. Primary Treatment: Eimco.
Effluent Treatment. Primary Treatment: County spray irrigation system.
Products. Machine coated book, cover and matte coated papers

NILES

French Paper Co. 100 French St. (PO Box 398) 49120
Tel: 616-683-1100 Fax. 616-683-3025
RR: ConRail siding. Hwys. US Rte # 31.12. State Rte # 60.51.
J.E. French, Chmn Bd
Jerry E French, Pres, Treas
David L Bruce Jr, Vice Pres, Supt
Jerry Koch, Vice Pres, Sec
Duane Bodfish, Chief Engr
Tad Kline, Sales Srvc
Tom Tokarz, Pur Agt
Paper Mill Stock Preparation: Pulpers: 3 Dynapulper, 1 Slushmaker Refiners: 2 Claflin. Jordans: 4
Paper Machines P&J Fourdrinier 118" Width 107" Trim.
Dryers. Winders: 2
Finishing Plant Sheeters. 2 Trimmers: 2. Other Eqt.. 2 Embossers.
Steam/Power. Power Boilers Fuel: Coal, Gas, Oil. Press. 150 psi
Electricity Freq, phase 440v, 60, 3. Installed H.P. 1600 electric, 1600 water.
Water Treatment. Daily Usage, 800. M.g.p.d. Source: Deep wells
Effluent Treatment. Primary Treatment Yes. Secondary Treatment: Yes
Products. White and colored offset, opaque, cover, embossing, greeting card, text and specialty papers, 65 tons daily

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel: 616-683-4100 Tlx. 258459
RR: ConRail Hwys: US Rte # 12.31. State Rte # 60.40
Chuck Dewitt, Vice Pres, Plt Dir
Tilden Weist, Paper Mill Supt
Tom DeForest, Dir Engrg & Ppr Making
R DeForest, Plant Engr
T Smit, Plant Contr
R Stewart, Pur Agt
N Wilson, Distrib Mgr
S Hart, Ind Rels Dir
A Seaman, Traf Mgr
Paper Mill Stock Preparation: Pulpers: 3 Dynapulpers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners: 5. Consistency Regulators: 2. Other Eqt.: 2 Saveall.
Paper Machines. 1 Stevens Former, 162" wide, 150" trim, 1000 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7-roll, 1-2 roll. Reels: 1. Winders: 2 Shear-Cut.
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day.
Water Treatment. Daily Usage, 1,000. M.g.p.d. Source: Wells.
Effluent Treatment. Primary Treatment: Yes.
Products. Pattern tissue, 33 tons. Interleaving papers, 40 tons daily.

ONTONAGON

Stone Container Corp. Ctnrbd & Paper Div. One Superior Way 49953
Tel: 906-884-2021
RR: Escanaba & Lake Superior. Hwys: US Rte # 45. State Rte # 64.
Ron Howard, Gen Mgr
Richard Jakob, Prod Mgr
J.R. Richardson, Tech/Enviro Mgr
Dave Schmidt, Paper Mill Supt
J.E. Asiala, Ppr Mach Supt
S.G. Domitrovich, Ppr Mach Supt
Greg Anderson, Pulp Supt
Mark Szczepanik, Supt, Pwr & Util
Peter J Whiteneck, Emply Rels Mgr
James Walchuk, Mgr, Engrg & Maint
Robert Anttila, Maint Supt
Wayne Boucher, Supt, I & E
James P Ninefeldt, Contr
Robert Schon, Mtrls Mgr
Woodhandling and Preparation Chip Storage Capacity: 50,000 tons. Mobile Equipment: 1 Pettibone Cary-Lift, 2 D-7 dozers. Chip Handling: Rader pneumatic. Sawdust Handling: Rader drag chain. Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood: 1100 tons purchased hwd chips.
Pulp Mill Semi-Chemical, Avg. Daily Prod.: Sodium Carbonate. Unbl Hwd: 520 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Copeland fluidized bed reactor.
Pulp Processing: Hot Stock Refiners: 2 Sunds. Washers: 1 Eimco, 1 Swenson.
Paper Mill Stock Preparation: Pulpers: 3. Refiners: 4 Bolton Emerson, 5 Sprout-Waldron. Screens: 1 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. 1 Pusey & Jones Fourdrinier 177" Width 160" Trim 1500 fpm.
1 Black Clawson Fourdrinier 180" Width 162" Trim 1800 fpm
Dryers. Drums: 120. Calenders: 2. Winders: 2.
Steam/Power. Power Boilers: 1, 3 package. Fuel: Gas, Coal Oil, Bark Steam, lbs hr.: 350,000. Press. 1500/250/175/70 psi.
Electricity Freq, phase: 60, 3. Installed H.P 13500. Purchased: 35% Generated: 65%. Turbogenerators: 1 GE, 15,000 kw.
Water Treatment. Daily Usage, 4,500. M.g.p.d. Source. Lake Superior. Primary Treatment: None.
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment: clarifier, activated sludge, gravity thickener, belt filter press
Products. Semichemical corrugating medium, 720 tons daily

OTSEGO

Menasha Corp. Paperboard Div. 320 N Farmer St (PO Box 155) 49078-0155
Tel: 616-692-6141 Fax: 616-692-2060
RR: ConRail siding Hwys. US Rte # 131. State Rte # 89.
John Bonham, Gen Mgr
Jack Bray, Production Mgr
David Merkel, Tech Mgr
Andre Fischbach, Maint Mgr
Tim Howard, Acctg Mgr
Jeff Burliegh, Pur Agt
Jeff Volker, Human Rsrc Mgr
Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening. Avg. Daily Use of Peeled Pulpwood: 750 green tons purchased chips.
Pulp Mill Semi-Chemical, Avg. Daily Prod.: Unbl. Hwd., carbonate cook: 320 tons Continuous Digesters: 1 vertical Asplund Defibrator.
Chemical Recovery Plant. Recovery Boilers: Dorr Oliver (SLI) fluid bed reactor.
Pulp Processing: Stock Refiners: 3 S-W primary. Washers: Black Clawson brown stock.
Paper Mill Stock Preparation: Pulpers: Secondary fiber system 1: 1 14' Hydrapulper, 5 HDC's, 1 fiberizer, 2 barrier screens, 1 deflaker, three-stage cleaning.
Pulpers: Secondary fiber system 2: 1 16' Hydrapulper, 3 HDC's, 2 LDC's, screening, multiple stage reverse cleaning. Total capacity of both systems, 700 tpd.
Paper Machines. 1 Fourdrinier 176" Width 163" Trim 300 fpm, 1 600 pli suction press, 1 8500 pli Extended Nip press, 54 dryers.
1 Fourdrinier 92" Width 80" Trim 900 fpm, 2 suction presses, 41 dryers.
Steam/Power. Power Boilers: 3. Fuel: Coal, Gas. Steam, lbs hr.: 240,000. Press.: 600 psi.
Electricity: Purchased: 20,000 kw.
Water Treatment. Daily Usage, 2,200. M.g.p.d. Source: Wells.
Effluent Treatment. Secondary Treatment: Aeration pond.
Products. Semichemical corrugating medium, 830 tons daily.

Rock-Tenn Co. Paperboard Products Div. 431 Helen Av 49078
Tel: 616-692-6211 Fax: 616-692-6581
RR: ConRail siding. Hwys: Near US Rte # 131 Approx Mi 2. State Rte # 89.
Walter K Lancaster, Vice Pres, Gen Mgr
Joe Damico, Ppr Mill Supt
Jack Harvey, Plant Engr
Dave Johnson, Mgr, Prod Control
T Thompson, Cnvtg Mgr
John Klein, Salesman
Paper Mill Stock Preparation: Pulpers: 1-3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. 1 Eight-Cylinder 140" Width 126" Trim.
Dryers Drums: 163. Calenders: 2.
Coaters, Extrusion. Trim Width, 1 86" Egan PE extrusion coater.
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000 Press.: 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P. 8000. Purchased: 41,000 kwh/day Generated: 64,000 kwh/day Turbogenerators. 4000 kw Westinghouse, 3000 kw Stal Laval.
Water Treatment. Daily Usage, 450. M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: Iron stabilization.
Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators
Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 250 tons daily.

PALMYRA

Sorenson Paperboard Corp. 6240 E US-223 (PO Box 135) 49268
Tel: 517-263-5160 Fax: 517-265-3604
Hwys: US Rte # 223.
Merritt Sorensen, Pres
Cathleen Sorenson, Vice Pres, Sec
Judith Sorenson, Treas
Paper Mill Stock Preparation: Pulpers: 1-10', 1-12', 1-16' Hydrapulpers. Screens: 6 P-12 pressure. Refiners: 2 Bauer disc. Jordans: 3 Other Eqt.: 1-1000 gpm and 1-1500 gpm Sveen Pedersen saveall.

MHI-00303

TRYG R ANGELL LTD
ARCH PLACEMENT
TRYG R ANGELL
2885 MAIN STREET • STRATFORD, CT 06497
Tel: 203-377-4541 Fax: 203-377-4545

Paper Machines. Beloit Six-Cylinder 80" Width 78" Trim.
Steam/Power. Power Boilers: Fuel: Gas. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.
Water Treatment. Daily Usage, 120. M.g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Yes.
Products. Chipboard, white-lined, kraft-lined, can, tube and drum stock, pad stock, 80 tons daily.

PARCHMENT

James River Corp. Packaging Papers Mill 100 Island Av 49004-1394
Tel: 616-383-5000 Fax: 616-384-6217
RR: ConRail, CK & S, siding. Hwys: US Rte # 12, 131, I-94, State Rte # 43.
James Burokev, Opers Mgr
John J Drenth, Mgr, UM&E
Willy Beckman, Mgr Mfg Srvcs
Thomas P DeWolff, Total Qlty Mgr
Donald Lewis, Gen Supt
Phil Picard, Gen Supt
Denise Trainer, Tech Dir
Roy W Kemppainen, Mgr Pdct Devl
Carne Kovtan, Contr
Robert H Russel, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers: 1-6000 lb, 1-2000 lb. and 2-4000 lb. Morden Slushmakers, 1-2500 lb Pulpmaster, 1 Barracuda, 2-6000 lb and 1-1000 lb. Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb Horne, 2 2000 lb. Jones. Refiners: 5 34" disc (1 800 hp, 4 700 hp). Screens: Bird Centriscreen Jordans: 8 Majestic, 17 Fibremaster.
Paper Machines. 1 Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm.
1 P&J Fourdrinier 163" Width 148" Trim 1100 fpm.
1 B&S Fourdrinier 165" Width 148" Trim 1400 fpm.
1 Beloit Fourdrinier 167" Width 148" Trim 1800 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1100 fpm
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm.
Dryers Calenders: 5. Size Presses: 5.
Coaters, Off-Machine. Air Knife: 1. Blade: 3 Solvent: 1
Finishing Plant Supercalenders: 2. Rewinders: 2. Sheeters 2 Trimmers: 3.
Steam/Power. Power Boilers. 3. Fuel: Gas/Oil. Steam, lbs hr.: 400,000.
Water Treatment. Daily Usage, 5,000. M.g.p.d. Source Well
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon
Products. Waterleaf, bond, greeting card, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, dog food liner, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release papers. Mill No 1 100 tons daily Mill No 2: 320 tons daily

PLAINWELL

Simpson Plainwell Paper Co. 200 Allegan St. 49080
Tel 616-685-5851 Fax 616-685-6504
RR ConRail siding Hwys. US Rte # 131, State Rte # 89
Roger Huckendubler, Opers Mgr
Robert Green, Prod Mgr
Dennis Kelly, Gen Supt, Ppr Mfg
Scott Sleeman Mchn Supt No. 18
Richard J Thomas, Mgr Fnshng & Matl Hndlg
Gary N Longworth, Mgr Engrg
Wendell Chichester, Mgr, Mfg Srvcs
Alan K Bruner Supt Distr
Barbara J Bradley, Prchsg Agt
Robert Tardiff Mgr Qlty Confrnce
Kay C Woodruff Supv Testers
Bruce Bracken, Mgr Emply Rels
George Lawton Tech Dir
James R Allen, Tech Supt
Hennetta Kaye, Compt
Paper Mill Stock Preparation: Pulpers: 1-6000 lb and 1-4000 lb Hydrapulper. Refiners: 8 double disc. Jordans. 3. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm.
1 Fourdrinier 135" Width 118" Trim 900 fpm.
1 Fourdrinier 135" Width 120" Trim 2000 fpm.
Dryers. Size Presses: 3.
Coaters, On-Machine. Trailing Blade, 2 120" Capacity: 140 tons daily.
Finishing Plant. Supercalenders: 1-126", 1-130". Roll Wrapping Eqt.: 1 automated line. Rewinders: 2. Sheeters: 3. Trimmers: 2. Other Eqt.: 1-60" dual roll embosser.
Steam/Power. Power Boilers: 4. Fuel: Coal, Gas/Oil. Steam, lbs hr.: 205,000. Press.: 265 psi.
Electricity: Freq, phase: 60, 3. Purchased: 160,000 3250,000.
Water Treatment. Daily Usage, 2,700. M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.
Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily.

PORT HURON

E.B. Eddy Paper Inc. 1700 Washington Av (PO Box 5003) 48061-5003
Tel: 313-982-0191 Fax: 313-982-7124
RR: GTW siding. Hwys: Near US Rte # I-94 Approx Mi 1. Near State Rte # I-69. Near Prov Hwy # 402, 2 mi.
A Richard Wagner, Vice Pres, Res Mgr
Michael G Hevenor, Dir Opers
Joseph C Fiedler, Mtrls Mgr
William M Fries, Dir Engrg & Capital Proj
C Dale Hoy, Sec, Contr
Howard L Hunter, Tech Dir
Gary W Foster, Engrg Mgr
Randall L McNeely, Util Supt
Kenneth A Wood, Maint Mgr
Hal Henry, Ppr Mach Supt
Larry Thomas, Ppr Mach Supt
S.J. Bentley, Asst Ppr Mach Supt
Scott Fruwirth, Asst Ppr Mach Supt
Alan D Cutcher, Dir Human Rsrcs
Celeste Lewis-Bradley, Mgr Prod Cntrl
Robert L Andrews, Mgr Budget & Insrnc
Richard P Cole, Gen Sls Mgr
Leon E Rymers, Mgr, Pdct Devl
Paper Mill Stock Preparation: Pulpers: 5. Screens: 4. Refiners: 15 Cleaners: 6.
Paper Machines. Yankee Fourdrinier 143" Width 127" Trim 1500 fpm.
1 Fourdrinier 132" Width 116" Trim 1200 fpm.
1 Fourdrinier 184" Width 156" Trim 1800 fpm.
Yankee Fourdrinier 210" Width 186" Trim 2500 fpm.
Dryers. Drums 79 Yankee: 2. Size Presses: 4. Calenders 4 stacks Winders: 4
Finishing Plant Roll Wrapping Eqt.: automatic. Rewinders. 1
Steam/Power. Power Boilers: Steam, lbs hr., purchased
Electricity Purchased: 80%
Water Treatment. Daily Usage, 4,500. M.g.p.d. Source: St Clair River
Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, grease-resistant, pan liners, lightweight printing, book, wet strength, and specialties, 270 tons daily.

James River Corp. Packaging Papers Mill 218 Riverview St 48060
Tel 313-984-5523 Fax: 313-984-5830
RR GTW siding. Hwys: US Rte # IS-94, IS-69.
James R Scony, Res Mgr
Brent Earnshaw, Mgr Tech Opers
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
Robert Ferguson, Mgr, Indl Rels
Robert A Wright, Machine Supt
Scott P McNutt, Mgr, Proc Engrg
Paper Mill Stock Preparation: Pulpers: 8 Refiners: 14. Jordans: 2.
Paper Machines. No 1 Beloit Yankee Fourdrinier 137" Width 124" Trim 1500 fpm.
No. 2 Beloit Yankee Fourdrinier 134" Width 121" Trim 1200 fpm.
No. 3 Allis Chalmers Yankee Fourdrinier 150" Width 134" Trim 2000 fpm
No. 4 Yankee Fourdrinier 137" Width 124" Trim 1200 fpm.
Dryers. Yankee. 3 12', 1 18' dia. units. Size Presses: 4. Calenders: 3 variable crown. Winders: 4
Coaters, On-Machine. 2 Blade: 1 two-stream, 1 short-dwell.
Finishing Plant. Rewinders. 1
Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr.: 76,000. Press.: 600/200 psi.
Electricity: Freq, phase: 60 3. Generated: 3 gas-fired turbines, rated at 5.8 Mw ISO each; 2 51,000 lbs/hr waste heat recovery boilers.
Products. Lightweight coated, release treated, foil mounting, twisting, soft calendered, double side coated, MG bleached, semi-bleached and unbleached specialties in jumbo rolls only, 170 tons daily.

QUINNESEC

Champion International Corp. PO Box 211, Norway 49870-0211
Tel: 906-779-3200 Fax. 906-779-3307 Tlx: 234273
RR: C&NW. Hwys: US Rte # 2.
Jeffrey A Hearn, Vice Pres, Opers Mgr
Steve List, Mgr, Enviro Affrs
Eddie Plemmons, Maint & Engrg Mgr
Bill Stephenson, Process Control Mgr
Mark F Pontti, Cmmnty Affrs Mgr
George Curran, Matl Srvcs Mgr
Don Hubbard, Rcvry & Util Mgr
Jack Louthain, Plt Contr
Steve Perry, Pdct Srvcs
Randal Lorenz, Admn/Human Rsrcs
Woodhandling and Preparation Roundwood Storage Capacity: 8,400 cds. Chip Storage Capacity: 30,000 cds:. Barkers: 2 Murco drum;. Chippers: 1 Murco;. Chip Screens: 2 Rotex, 1 Rader scalper.
Pulp Mill Kraft. Avg. Daily Prod.: Bl. Hwd., 845 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel.
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film. Recovery Boilers. 1 B&W, 491,000 lbs steam/hr. Electrostatic Precipitators: 1 Research Cottrell,.
Bleach Plant. Sequence: Cd-E/O-D-D.
Pulp Processing: Washers. 1 3-drum D-O brown stock. Screens: 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached, 4-stage Noss blchd. Deckers: 2 D-O unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers. 1 240" KMW. Dryers: 1 Flakt air-float. Cutter-Layboys: 1 224" Lamb.
Paper Mill Paper Machines 1 No 41: Beloit Fourdrinier 280" Trim 3500 fpm.
Coaters, On-Machine. 2
Steam/Power. Power Boilers: 1 B&W, 1 C-E package. Steam, lbs hr.: 675,000.
Electricity: Turbogenerators. 1 30 Mw Stal-Laval.
Water Treatment. Daily Usage, 15,000. M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 2 150' Elmco clarifiers Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering.
Products. Bleached hardwood kraft market pulp, 750 tons daily. Coated free sheet, 750 tons daily.

ROCHESTER

Custom Papers Group Inc. 340 Mill St 48307
Tel. 313-651-8121 Fax 313-651-2792
RR: GTW siding. Hwys. US Rte # 10 State Rte # 150
Stanley S Luczycki, Res Mgr
Richard Marciniak, Mgr Admin
Rick Lapanowski, Ppr Mchne Supt
Gregg Hunsager, Mgr, Pdctn & Schdlg
Steve Ziolkowski, Tech Dir
Wayne Broadhead, Plant Engr
Mike Quick, Cnvtg Supt
Ron Richmond, Cust Srvc Mgr
Paper Mill Stock Preparation: Pulpers. 1 Jones Hi-Lo. Beaters. 1-1000 lb Screens 1 Parker Jordans: 2 Noble & Wood, 1 Jones Fibremaster
Paper Machines. 1 Fourdrinier 66" Width 62" Trim.

MHI-00304

HOWARD ZUKER ASSOCIATES
919 N MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700 • FAX 312-944-1471
THE PAPER TIGERS

Dryers. Size Presses: 1. Calenders: 1 stack.
Coaters. On-Machine. 1-62" roll saturator, 20 tons daily cap.
Off-Machine. 1-62" roll laminator, 12 tons daily cap.
Finishing Plant. Rewinders: 1-72" Cameron. Sheeters: 1-72", 1-84". Trimmers: 1-50", 1-84". Other Eqt.: Punch Presses: 2. Die Cutters: 1-32x60 Sheridan. Sewing Machines: 1.

Steam/Power. Power Boilers: Fuel: Oil. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Purchased: 100%.

Water Treatment. Daily Usage, 150. M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant.

Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof; creped specialties; sewn specialties; glass fiber, synthetic fiber papers; non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. 7734 Childsdale Rd. NE (PO Box 560) 49341
Tel: 616-866-3421 Fax: 616-866-1114
Hwys: Near US Rte # 131 Approx Mi 3.
James Isabell, Pres
Ron Fox, Gen Mgr
Eric Stevens, Maint Supt
Craig Linderman, Prod Supt
C.A. Dufon, Sales Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners: 3 S-W Cleaners: Black Clawson low-intensity with X-clone on filler system. Consistency Regulators: DeZurik. Other Eqt.: Allied clay mixing eqt.
Paper Machines. 1 Eight-Cylinder 76" Width 69" Trim 350 fpm.
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks.
Coaters, On-Machine. 1 Waldron Microjet air knife, 1 Kohler rod
Finishing Plant. Trimmers: 1.

Steam/Power. Power Boilers: 1. Fuel: gas. Steam, lbs hr.: 60,000. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 2100 electric, 300 water Purchased: 1500 kva.

Water Treatment. Daily Usage, 20. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line.

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily.

TROY

★**ABTco, Inc.** Abitibi Building Products
Headquarters Location See Executive Offices section for more details

VICKSBURG

Simpson Paper Co. Washington St (PO Box 157) 49097
Tel: 616-649-0510 Fax: 616-649-1516
RR: ConRail siding Hwys. Near US Rte # 131, IS-194, IS-94, 6 mi
Don Ulsh, Opers Mgr
Dallas Weybright, Gen Supt
Jeff Honour, Ppr Mchns Supt
Gary Vandien, Fnshng & Coating Supt
Michael Herbert, Tech Dir
Claus Globig, Mgr R&D
Bruce Block, Plant Engr
Stanley Martin, Mgr Qlty Cntrl
Bruce Kroeze, Plant Contr
Tim Moore Pur Mgr
Ronald G Markan Pers Dir
Don Nay, Estrn Sls Mgr

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2-1500 lb, 2-1000 lb. Bertrams. Screens: 5. Refiners: 3 double disc Morden. Jordans: 5 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 105" Trim 300 fpm.
1 Fourdrinier 132" Width 112" Trim 500 fpm.
1 Fourdrinier 134" Width 114" Trim 600 fpm.
Dryers. Drums: 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3.
Coaters, Off-Machine. Air Knife, 1 52", 20 tpd.
Finishing Plant. Supercalenders: 2-56", 1-48". Rewinders: 6. Sheeters: 3-57", 61", 61". Trimmers: 3-66", 75", 110".

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr.: 80,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 2,500. M.g.p.d. Source: River, Wells.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, diazo, embossing, rag and sulphite drawing, greeting card, duplicator, guide stock, ledger, text and cover, linen finish, playing card, safety, photo mount, photographic base, rag translucent, tracing, reproduction, writing, and 100% recycled text papers, 100 tons daily.

WATERVLIET

Fletcher Paper Co. 279 Paw Paw Av. 49098
Tel: 616-463-3141 Fax: 616-463-2850
RR: siding. Hwys: US Rte # I-94. State Rte # 140.
Elmer C Beale, Pres, CEO
George Lawton, Tech Mgr
Jim Maurer, Emply Rels Mgr
Terry Zimmerman, Paper Mill Supt
Alex Rogel, Ctg Mill Supt
John Pasquill, Matls Mgr
Kork Klimp, Maint & Engrg Mgr

Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm.
1 Fourdrinier 138" Width 126" Trim 1000 fpm.
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2.
Coaters, Off-Machine Air Knife, 4: 92", 88", 70" 66"
On-Machine. 1 128".
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 3: 76" to 101" Trimmers: 2 85", 1 100". Other Eqt.: 1 Black Clawson Laminator. 1 62" Embosser

Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr: 90,000. Press.: 235 psi.
Electricity: Installed H.P. 450 water Purchased: 100%

Water Treatment. Daily Usage, 700. M.g.p.d. Source: wells.

Effluent Treatment. Primary Treatment: and. Secondary Treatment:.

Products. No. 1 & No. 2 offset enamel text and cover with 50% recycled fiber and 20% post-consumer waste, playing card stock, greaseproof, moldproof, wet strength C1S label, coated recycled papers for commercial printing and flexible packaging, 160 tons daily

WHITE PIGEON

White Pigeon Paper Co. PO Box 277 49099
Tel: 616-483-7601 Fax 616-483-9989
RR: ConRail siding. Hwys: US Rte # 12.
William Schmidt, Pres
Len Eggleston, Gen Supt
Frank Black, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
David DiBiaggio, Sales Mgr
Rose Hiner, Sales Srvc Mgr

Paper Mill Stock Preparation: Pulpers 4 Hydrapulper. Screens. 6. Refiners: 5.
Paper Machines. 1 Ultraformer Seven-Cylinder 110" Trim.
Dryers. Drums: 41. Calenders: 2.
Coaters, On-Machine. 2 air knife, 2 rod
Finishing Plant. Rewinders. 1. Trimmers: 1-85"

Steam/Power. Power Boilers: 2. Fuel: Oil/Gas. Steam, lbs hr., 180,000 Press.: 500 psi.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage, 250. M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: 6 Settling Basins.

Products. Clay-coated boxboard, 200 tons daily.

YPSILANTI

James River Corp. Premium Printing Papers Group 1000 N. Huron St. 48197
Tel: 313-482-2600 Fax: 313-482-1288
RR: ConRail siding. Hwys: US Rte # I-94.
Pat Kittle, Res Mgr
Tim Ellsworth, Mfg Mgr
Addison D Mooken, Tech Dir
Gerald Linzmeyer, Enviro Mgr
Richard Franklin, Plant Engr
Steven D Schultz, Pdct Devl Mgr

Paper Mill Stock Preparation: Pulpers: 1-1000, 2-2000 lb Hydrapulper. Refiners: 2 Sprout Waldron. Screens: 1 Bird pressure. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik. Stock Mixers: Lightin' agitators.
Paper Machines. 1 Manchester Fourdrinier 90" Width 80" Trim 500 fpm.
Dryers. Drums: 29-36". Size Presses: 1. Calenders: 1 stack. Winders: 1.
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet. Trimmers. 1-110" Lawson, 1-85" Seybold. Other Eqt.: Embossers: 2. Printer-Embossers: 1. Pasters: 1 duplex.

Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 120 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 1200. Purchased: 25000 kwh/day.

Water Treatment. Daily Usage, 500. M.g.p.d. Source: Wells, River Primary Treatment: yes.

Effluent Treatment. Primary Treatment: City sewer system.

Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties, 50 tons daily

MINNESOTA

BEMIDJI

Georgia-Pacific Corp. Hardboard Plant 280 Nymore Rd NE (PO Box 518) 56601
Tel: 218-751-5140 Fax: 218-751-5831
RR: BN siding Hwys: US Rte # 2,71,371.
Robert W Riley, Res Mgr
Richard C Brown, Plant Supt
Gary Wilson, Mgr, Traf & Sls

Woodhandling and Preparation Barkers: 1-21" Manitowoc Chippers 1-12' Hansel. Avg. Daily Use of Peeled Pulpwood: 100 cds aspen

Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl. Hwd., 100 tons Continuous Digesters: 2 30' Grenco

Paper Mill Paper Machines. Hardboard machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems.

Steam/Power. Power Boilers. 1. Fuel: Bark. Steam, lbs hr 14,000 Press., 200 psi.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P. 2350 electric. Purchased: 30,000 kwh/day.

Water Treatment. Source. City.

Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 290 Msf daily cap (100 tons daily).

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av 56401
Tel: 218-828-3200 Fax: 218-828-5118
RR: Burl Nthrn Hwys. US Rte # 210,371.
Thomas G Palkie, Vice Pres, Mfg
Roderick W Petron, Mgr Qlty Srvcs

PROFESSIONAL SEARCH & RECRUITMENT
PULP & PAPER SPECIALISTS
1-800-729-0015 George Samuel's, Inc. FAX (216) 729-0873

Paper Mill Stock Preparation: Pulpers: 2. Refiners: 2 disc. Jordans: 2
Paper Machines. 1 Fourdrinier 85" Width 70" Trim. Dryers. Size Presses: tub
Finishing Plant. Sheeters. 3. Trimmers: 4
Steam/Power. Power Boilers: 2. Fuel: Oil
Water Treatment. Source: River.
Effluent Treatment. Primary Treatment: Effluent to municipal system.
Products. Rag content bond, typewriter, onionskin, manuscript cover, writing papers. 25 tons daily.

WESTFIELD

★**Strathmore Paper Co.** Central Finishing, Whse & Dstbtn Ctr. S Broad St. 01085
Tel: 413-568-9111
Headquarters Location See Executive Offices section for more details.
Hwys: Near US Rte 90, 91.
Norman W Brown, Plant Mgr
Gary R Bourdeau, Asst Plant Mgr
Paper Mill Stock Preparation: Pulpers: 7. Refiners: and. Jordans: 23.
Paper Machines. 1 Fourdrinier 66" Width 56" Trim (idle).
1 Fourdrinier 77" Width 68" Trim (idle).
1 Fourdrinier 90" Width 80" Trim.
1 Fourdrinier 83" Width 72" Trim.
1 Fourdrinier 87" Width 74" Trim.
1 Fourdrinier 94" Width 80" Trim
1 Fourdrinier 94" Width 80" Trim.
1 Fourdrinier 110" Width 96" Trim.
1 Fourdrinier 124" Width 110" Trim.
Dryers Winders. 7
Finishing Plant. Supercalenders: 1. Sheeters: 10. Trimmers: 10. Embossers: 3.
Products. Bond, writing, vellum, bristols, wedding, typewriter, text and cover, art, drawing, papeteries, greeting card, deckle-edge, embossed, plate-finish, watermarked, business and printing papers, duplex boards, 141 tons daily, total of Turner's Falls, Woronoco, and Millers Falls mills.

WORONOCO

Strathmore Paper Co. 01097
Tel: 413-568-9111 Fax 413-568-9429
RR: B&M. Hwys. On US Rte 20
James A Stevens, Supt. Mill No. 2
Carl Bednarsky, Asst Supt
Brian Meade, Chem
Sherri L LaPorte, Chem
Paper Mill Paper Machines Equipment listed under Westfield, MA mill.
Products. Mill No 1 writing, text, cover, artist's, papeterie papers (idle) Mill No 2: Rag specialty, bond, writing, text and cover papers.

MICHIGAN

ADRIAN

★**Simplex Products Group**
Headquarters Location See Executive Offices section for more details

ALPENA

ABTco, Inc. 416 Ford Av. 49707
Tel: 517-354-2121 Fax. 517-356-2504
RR Detroit & Mackinac Siding Hwys US Rte 23; State Rte 32
K C Nielsen, Plant Mgr
T.E. Ludwig, Sr Maint Mgr
H L Scull Plant Supt
L.M Plowman, Mgr Pdct & Process Devl
A R Dean Mfg Supt
R W Murdock, Engrg Supt
A.J Nadeau, Power Plt & Enviro Supt
L.E. Springer, Contr
W.H Hunter, Plant Buyer
M.J. Hanlon, Human Rsrcs Mgr
Woodhandling and Preparation Barkers: 2 26" mechanical. Chippers. 1-96" 12-knife Avg. Daily Use of Peeled Pulpwood. 450 cds (rough basis).
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: 400 tons Batch Digesters. 4 Bauer Rapid-Cycle.
Pulp Processing: Stock Refiners: 9 Bauer disc.
Paper Mill Stock Preparation: Pulpers: 1 Jones repulper. Refiners: 3 Bauer, 2 Sprout-Waldron pump-thru.
Paper Machines. 1 Hardboard Fourdrinier 160" Width 156" Trim.
1 Hardboard Fourdrinier 50" Width 48" Trim.
Finishing Plant. Other Eqt.: 2 20-deck presses, 1 22-deck press.
Steam/Power. Power Boilers: 3. Fuel: Coal/Wood Waste. Steam, lbs hr.: 240,000. Press.: 900/300 psi.
Electricity: Purchased: 100,000 kwh/day. Generated: 200,000. Turbogenerators: 1 GE 7500 kva.
Water Treatment. Daily Usage, 1.500 million gpd. Source: River Primary Treatment: Screening.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration Lagoons. Tertiary Treatment: Sludge dewatering and drying.
Products. S1S and S2S hardboard, 360 MMsf annually (400 tons daily).

★**Fletcher Paper Co.** 318 W. Fletcher St., 49707
Tel: 517-354-2131 Fax: 517-356-6327
Headquarters Location. See Executive Offices section for more details.
RR: D&M siding. Hwys: US Rte 23; State Rte 32.
Michael J Bekes, Opers Mgr
James A Kelley, Ppr Mill Mgr
Jay Robbins, Chief Engr
Bill England, Pur Agt
Tom Woods, Traffic Mgr
Carl Bourdelais, Mgr Ctd Pdcts
Joseph Bason, Mgr New Pdcts Div
Pat Pokorski, Proc Control Coord
Harry Bryant, Instr Supv
George Snedden, Supt Pwr
James Nensewitz, Tech Asst, Qlty Cntrl
Michael Bushey, Sr Devl Chemist
Paper Mill Stock Preparation: Pulpers: 1 high-consistency, 3 Hydrapulpers. Screens: 2 Selectifier. Refiners: 5 Jones DD Jordans. 3 Jones.
Paper Machines. 1 Fourdrinier 112" Width 100" Trim 1000 fpm
1 Fourdrinier 112" Width 100" Trim 1150 fpm
Dryers. Drums. 62. Size Presses: 2. Calenders: 2 stacks. Winders: 2.
Coaters, Off Machine. 1 60" Roll-Blade-Gravure, 10 tpd capacity
Finishing Plant Sheeters. 1-67" precision. Trimmers. 2. 65" 85"
Steam/Power. Power Boilers: 2. Fuel: Gas & Oil, Coal. Steam. lbs hr. 140,000 Press.. 450 psi.
Electricity. Freq, phase: 60, 3. Generated: 72,000 kwh/day
Water Treatment. Daily Usage, 1.1 million g.p.d. Source Thunder Bay River Primary Treatment: Yes
Effluent Treatment. Primary Treatment: 1 Clarifier.
Products. Bible, offset, carbonizing, chart, coating base, label, manifold, flame retardant, mold inhibiting, pattern, map, onionskin, opaque bond, release, saturating, sensitizing, technical, wet strength and writing papers. 85 tons daily

BATTLE CREEK

American Fibrit Inc. 76 Armstrong Rd. 49015-1079
Tel. 616-968-3000 Fax: 616-968-0198
RR: ConRail Hwys: On State Rte 96, Near IS-94, 8 mi.
C Roger Davisson, Pres
Daniel W Schoenbeck, Vice Pres, Opers
James D Schwoebel, Vice Pres, Admn
H Christian Mueller, Vice Pres, Sls
Gregory A Worsnop, Vice Pres, Fin
Pulp Mill Ground Wood, Refiner. Avg. Daily Prod.. Thermomechanical. 30 tons Refiners: 1 1250 hp L36 Defibrator primary, 1 200 hp ROP 20 secondary
Paper Mill Stock Preparation Pulpers 1 Hydrapulper
Paper Machines 3 pulp molding machines of own design
Products. Molded wood fiber products for automotive interior trim

Michigan Paperboard Co. (Affil. of Field Container Co.)
79 E Fountain St. 49017
Tel. 616-963-4004 Fax 616-963-1306
RR. ConRail, GTW, siding Hwys. Near IS-94, IS-69. 3 mi; Near State Rte 66, 37, 89, 3 mi
John Goll, Pres
James M Lambert, Mfg Mgr
C Tobey, Mfg Supt
Gary McMillan, Plant Engr
Mike Scholly, Qlty Mgr
Dan Conway, Contr
James Minick, Ind Rels Mgr
Bill Bryant, Prchsg Mgr
Paper Mill Stock Preparation: Pulpers. 3 4000 lb Morden, 1 14', 1 20' Hydrapulper, 1 3000 lb. Refiners: 1 disc. Jordans. 3. Screens: Centrisorter
Paper Machines 1 seven-unit Stevens Former 120" Trim 750 fpm.
1 six-unit Ultraformer 98" Width 96" Trim 450 fpm
Dryers. Drums: 60".
Steam/Power. Power Boilers: 2. Fuel. Gas, Oil Steam, lbs hr.: 80,000
Products. Combination boxboard. 340 tons daily.

Waldorf Corp. 177 Angell St, 49015-1958
Tel: 616-963-5511 Fax: 616-963-5564
RR: ConRail, GTW siding Hwys. IS-94, IS-69; State Rte 66, 37, 89.
Charles Wall, Vice Pres. Opers
Nelson Gamache, Plant Engr
Paul Stofer, Tech Supt
Mike Minger, Qlty Mgr
Cheryl A Weir, Mgr, Mtrls & Prchsg
Chris Hansen, Contr
Dale Blanchard, Prod Supt
William Dever, Maint Supt
Paper Mill Stock Preparation Pulpers. 1 3000 lb Morden Slushmaker; 1 14', 1 16', 1 20' Hydrapulpers. Screens: 8 Centrisorter Refiners: 4 Sprout Waldron disc. Cleaners: 3 systems.
Paper Machines 1 five-unit Beloit Bel-Bond former 146" Width 130" Trim 1064 fpm
Dryers. Drums: 85 60" Calenders: 3 stacks. Hi-Velocity: 8 gas infrared Winders: 1 Beloit.
Coaters, On Machine. Kohler blade, Black Clawson air knife, 450 tpd capacity
Finishing Plant. Sheeters: 1 Clark Aiken
Steam/Power. Power Boilers 2. Fuel: Oil/Gas. Steam, lbs hr.. 140,000
Electricity: Purchased: 212,500 kwh/day. Generated: 37,500 kwh/day Turbogenerators. 1 Elliott, 2000 kw/kva.
Water Treatment. Daily Usage, 750 M.g.p.d. Source: River
Effluent Treatment. Primary Treatment: 2 flotation clarifiers. Effluent to joint industrial/municipal plant.
Products. White clay coated, white lined chip, 450 tons daily

CHEBOYGAN

Great Lakes Tissue Co. 437 S Main St. 49721
Tel: 616-627-0200 Fax: 616-627-0242
Hwys: On US Rte 27
Clarence Roznowski, Pres
Keith Stronschein, Plant Mgr
Tom Bussler, Engrg Mgr
Dave Lahaie, Maint Mgr
Al Cronan, Opers Mgr
Paper Mill Paper Machines. 1 Yankee Fourdrinier 136" Width 130" Trim
1 Yankee Fourdrinier 136" Width 130" Trim
Products. All dry-crepe tissue grades (8.5 - 20 lb. basis weight range) Single and two ply sanitary commercial and industrial tissue, 100 tons daily

CONSTANTINE

Simplex Products Group Centreville Rd. E 3rd St. 49042
Tel: 616-435-2425 Fax 616-435-7510
RR: ConRail siding Hwys: On US Rte 131
Ross Collins, Mill Supt

MHI-00306

Barry Lusk Maint Supv
Roy Farmer Shppg/Rcvng Supv
David Erickson Tech Mgr

Paper Mill Stock Preparation Pulpers 2 Screens 3 Refiners 4 1 deflaker Other Eq' 1 disc filter
Paper Machines 1 Eight Cylinder 112 Width 100 Trim
Dryers Drums 4 sets hi stack
Finishing Plant Other Eqt. Laminators 2

Steam/Power Power Boilers 2 Fuel Gas/Oil Press 150 psi
Electricity Freq phase 440 v 60 3 Purchased 100%

Water Treatment. Daily Usage 70 000 g p d Source River

Effluent Treatment. Primary Treatment None Effluent to municipal plant

Products. Chipboard test liner 150 tons daily

DETROIT

IPMC Inc. (IVEX Paper Mill Corp) 9125 W Jefferson Av 48209
Tel 313-842-0042 Fax 313 842 1055
RR ConRail siding Rouge Yard Hwys IS 75
James V Painter Vice Pres Mill Mgr
Jerry Buchheit Opers Mgr
Darrell Dick Engrg Mgr
Gasper Calandrino Maint Mgr
David Arganello Mchn Mgr
Louis J Sturm ISO Mgr
Edward Kill Tech Mgr
Cindy Cornish Cust Srvc Mgr
Carol Klopfer Human Rsrcs Mgr
Douglas A Murray Contr
J David Fleet Sales Mgr
Kris E Brady Logstcs Mgr

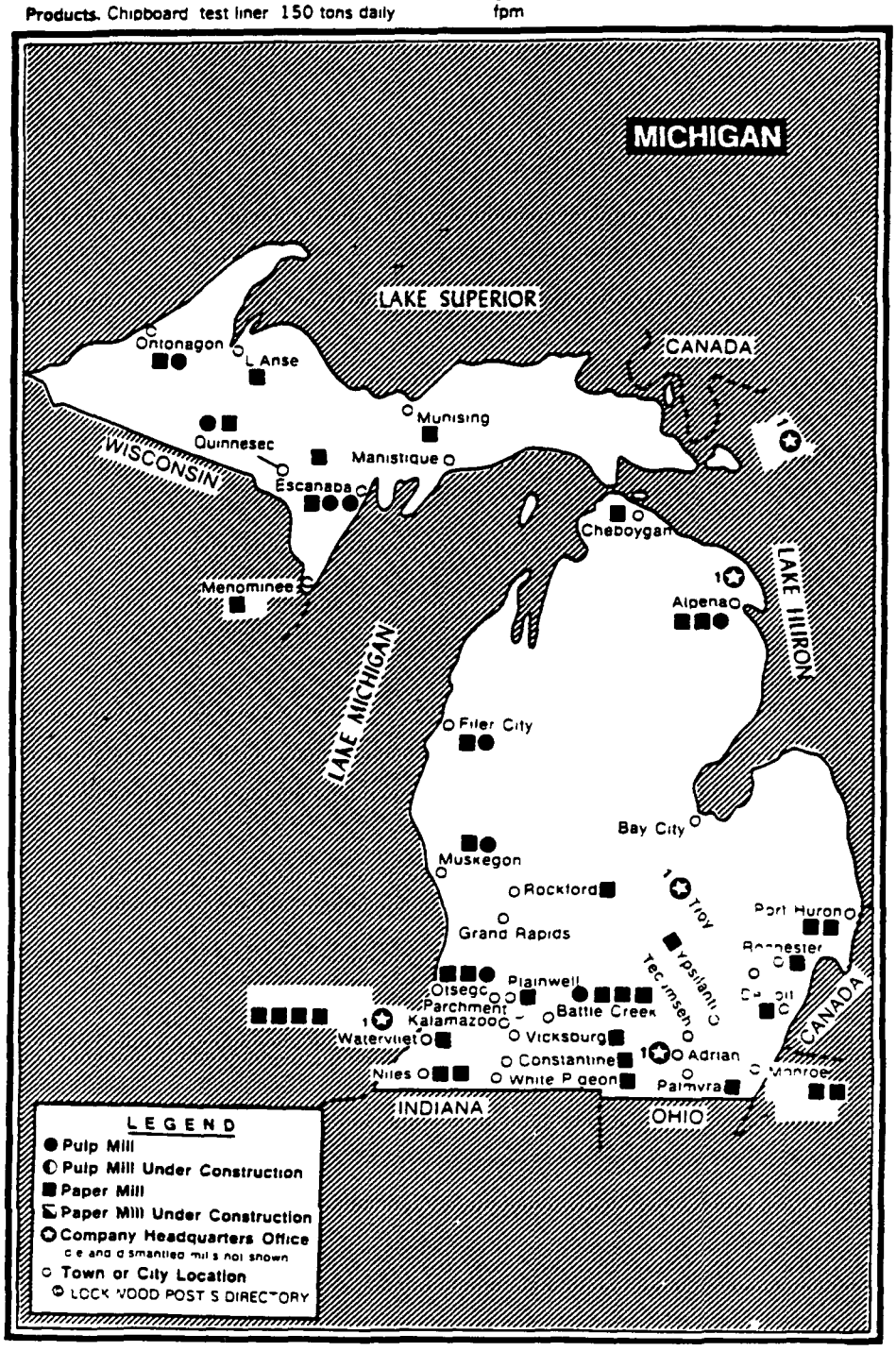
Paper Mill Stock Preparation Pulpers 6 Refiners 9 double disc
Paper Machines 1 Yankee Fourdrinier 133 Width 123' Trim 900 fpm
1 Yankee Fourdrinier 135 Width 124 Trim 1500 fpm
1 Yankee Fourdrinier 137 Width 126 Trim 1300 fpm
1 Yankee Fourdrinier 144 Width 130 Trim 2200 fpm
Dryers Drums 22 drums Yankee 4 Calenders 4 stacks Winders 4
Finishing Plant Roll Wrapping Eqt automatic Rewinders 1

Steam/Power Power Boilers 3 Fuel Gas/Oil
Electricity Purchased 35% Generated 65%

Water Treatment. Daily Usage 450 M g p d Source River

Effluent Treatment. Primary Treatment Effluent to municipal system

Products. Lightweight MG papers (8 5 35 lb basis weights) for waxing twisting, foil lamination, packaging and specialties recycled papers bleached natural and colored kraft converting specialties creped specialty grades (16 50 lb basis weights), 175 tons daily



ESCANABA

Mead Corp Publishing Paper Div (PO Box 757 Escanaba MI 49829-0757)
Tel 906-786-1660 Fax 906-789-3222 3206
RR C&NW WI Cntrl sidings Hwys US Rte 2 41, State Rte 35
Gary L Butryn Pres Gen Mgr
Kirk D Bruno Vice Pres Admin
Michael T Mack Vice Pres Mktg
W H Goode Dir Mfg Opers
L King Gen Supt of Pulping
G W Brown Dir Prod Tchnlgy
Robert Blake Mgr Qlty Assrnc
Dave Bonistall Enviro Control Tech Dir
Mike Fornetti Util Mgr
Mark H Miller Mgr Mktg Srvcs
Michael R Crabill Contr
Joseph P Hodge Mgr Prchsg Srvcs
Mike McDonald Dir Human Rsrcs
Eugene Malarsky Natl Sls Mgr
Kel Smyth Pub Rels Cnsltnt
James Okraszewski Gen Mgr Woodlands

Woodhandling and Preparation Chip Handling: Rader pneumatic system Barkers 2 14 5 x80' drum Hogs 1 Gruendler bark 1 Gauld shredder Chippers 2 116 B C Chip Screens 1 screening and slicing system Kone de-icing conveyor

Pulp Mill Kraft Avg Daily Prod Bl Swd 875 tons Bl Hwd 1060 tons of which 50 tons is Market Pulp
Ground Wood Refiner Avg Daily Prod Bl Hwd 250 tons Refiners 4 primary 2 secondary, 1 rejects Bauer 48 4500 hp
Chemical Recovery Plant Evaporators 1 6-effect Swenson Recovery Boilers 1 B&W 2 800,000 lbs solids/day 500 000 lbs steam/hr at 1475 psi 950° Electrostatic Precipitators 1 Koppers on rcvry boiler 1 PCW on No 11 power boiler Lime Kilns 1 Allis-Chalmers Gas Scrubbers 1 Ducon on recovery boiler 2 Chemco on No 9 boiler 1 venturi on kiln Lime Mud Washers 1 40 x55 Dorr-Oliver, 9x9 mixer Recausticizing System Dorr-Oliver
Bleach Plant Sequence Gwd P stage Kraft (D&C)-E/O-D-E D Chlorine Dioxide System Albright & Wilson R8
Pulp Processing Screens RMP 4 Model 100, 1 Model 400 Bird Centrisorter Cleaners five-stage Noss system Washers 1 13 5 x20 Dorr-Oliver drum filter Deckers 1 12 x19 Dorr-Oliver disc Drainers 1 Thune press Stock Refiners 2 34' 1 26 Sprout-Waldron Twin-Flo
Screens Kraft 2 primary 2 secondary 1 tertiary Bird Centrisorter Washers 4 13 5 x24' Impco brown stock 5 13 5 x24 Impco bldhd stock Deckers 1 13 5 x24 Impco
Pulp Drying Dryers Former No 2 P&J paper machine modified for pulp drying 166 width 155" trim 1300 fpm 300 tpd capacity Cutter-Layboys 1 Lamb Grays Harbor

Paper Mill Stock Preparation Pulpers 3 Hydrapulpers 2 continuous Morden 1 Beloit Jones 2 Hydrapulper broke Screens 6 Centriscreen 2 broke Refiners 13 Sprout-Waldron disc 5 Deflakers (broke) Cleaners 3 five stage Bauer Centricleaner Deculator systems
Paper Machines 1 Pusey & Jones Fourdrinier 166" Width 151 Trim 2300 fpm
1 Beloit Fourdrinier 300 Width 274 Trim 3300 fpm
1 Valmet Fourdrinier 320 Width 304" Trim 3500 fpm
Dryers Winders 3 Jagenberg single-drum 1 Cameron MIR 1 Wartsila two drum 1 Cameron two drum

MHI-00307

• CENTRAL NATIONAL-GOTTESMAN INC. •
Three Manhattanville Road, Purchase, NY 10577-2110 Tel: 914-696-9000 Fax: 914-696-1066
GRADES OF PULP FROM & WORLDWIDE SOURCES
BLEACHED KRAFT PULP

Coaters. Off Machine 1 286", 1 172", 1 302" trailing blade
Finishing Plant Supercalenders: 2 9-roll Bruderhaus. 2 12-roll Kleineweiers. 2 10-roll Appleton A-Frame Roll Wrapping Eqt.. Lamb-Grays Harbor automatic with double crimp and header lines. Rewinders: 1 Lenox. 1 Cameron. 1 Jagenberg two-drum.
Steam/Power. Power Boilers: 4. Fuel: oil, gas, bark, coal. Steam, lbs hr.: 1,600,000. Press.: 400/1500 psig.
Electricity: Freq. phase: 60, 3. Installed H.P.: 100,000. Hydroelectric: 3,000 kwh/day. Turbogenerators: 70,000 kwh/day.
Water Treatment. Daily Usage, 40.0 million g.p.d. Source: Lake Michigan. Primary Treatment: Sand filters. Marley four-cell cooling tower.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon and activated sludge, secondary clarifier, unaerated lagoon. Tertiary Treatment: Clarifier. 5 Winkle sludge presses.
Products. Coated book and publication papers, 1480 tons daily. Kraft hardwood market pulp, 50 tons daily

FILER CITY

Packaging Corp. of America Corrugated Products Div. (PO Box 316, Manistee, MI, 49660)
Tel: 616-723-9951 Fax: 616-723-1395
RR: CSX. Hwys: On US Rte 31.
Bob LaBruzzo, Vice Pres & Mgr
Charles D Smith, Prod Mgr
Gerry Haw, Gen Supt
Carl F Mills, Cust Srvc Mgr
John Campbell, Tech Dir
Richard H Mark, Engrg Mgr
Robert Hybza, Maint Mgr
Douglas C Hicks, Fin Mgr
D.L. Bell, Prchsg Mgr
Allen A Gagstetter, Dir, Indl Rels
John Myerl, Wdlnds Mgr
Kenneth C Bauer, Power Supt
Woodhandling and Preparation Roundwood Storage Capacity. 20,000 Cords Barkers. 1 12'x80' FMP drum. Chippers: 1 112". 12-knife. Chip Screens: 2 HiCap.
Pulp Mill Semi-Chemical. Avg. Daily Prod.: soda carbonate: 600 tons Continuous Digesters. 3 Pandia. Chemical Recovery Plant. Evaporators: 2 multiple-effect Recovery Boilers: 1 fluidized bed unit.
Pulp Processing: Stock Refiners. 3 American Defibrator Washers. 1 vacuum, 6 screw press.
Paper Mill Stock Preparation: Pulpers: 3. Screens: 3. Refiners 4 Jones. 5 Sprout Waldron, disc.
Paper Machines 1 Fourdrinier 174" Width 158" Trim 1400 fpm
1 Fourdrinier 172" Width 157" Trim 1300 fpm.
1 Fourdrinier 160" Width 148" Trim 850 fpm.
Dryers Drums 148-60" dia.
Steam/Power. Power Boilers 4 Fuel 1 Bark, 1 Gas, 2 Coal Steam, lbs hr · 600,000. Press.. 610 psi. Electricity Purchased· 305,000 kwh/day. Generated 235,000 kwh/day Turbogenerators: 3-21,875 kva total
Water Treatment. Daily Usage. 20.0 million g.p.d. Source River Lake
Effluent Treatment. Primary Treatment: 2 Clarifiers. Secondary Treatment Aeration pond.
Products. Semichemical corrugating medium, 800 tons daily

KALAMAZOO

Georgia-Pacific Corp. Communication Papers Div 2425 King Hwy, 49001
Tel 616-382-2890 Fax· 616-343-9428
RR ConRail, GTW, siding. Hwys: IS-94; Near State Rte 96
Thomas F Sullivan, Gen Mgr
C.R Larrick, Prod Mgr
James C Ittner Tech Dir
Rod Loucks, Mgr Qlty Cntrl
Pulp Mill Deinked Pulp· Avg. Daily Prod.. 2 lines of 10 primary and 2 secondary flotation cells. 110 tons Bleach Plant. Sequence: 1 peroxide, 1 hydrosulphite stage. Towers: 1 downflow.
Paper Mill Stock Preparation: Pulpers: 6. Beaters: 4 1500 lb. 6 2500 lb. 2 3500 lb. Refiners: 5.
Paper Machines. 1 Fourdrinier 185" Width 163" Trim 2500 fpm.
1 Fourdrinier 170" Width 150" Trim 2000 fpm.
Dryers. Size Presses: 1.
Coaters. On Machine. 1 Billblade.
Steam/Power. Power Boilers: 1. Fuel: Coal, Gas. Steam, lbs hr.: 245,000. Press.: 875 psi.
Electricity: Freq. phase: 440v, 60, 3. Installed H.P.: 18,500 electric. Purchased: 4,000 kw. Generated: 12,000 kw. Turbogenerators: 4.
Water Treatment. Daily Usage, 4.0 million g.p.d. Source: River.
Effluent Treatment. Primary Treatment: Clarifiers, joint municipal system.
Products. Bond, offset, label, coated and recycled grades, 400 tons daily.

★**James River Corp.** Paperboard Packaging Group 243 E Paterson St, 49007
Tel: 616-383-5000 Fax: 616-383-5454
Headquarters Location. See Executive Offices section for more details.
RR: ConRail. Hwys: US Rte 12, 13, IS-94, State Rte 43.
Stephen Beach, Plant Mgr, Pprbd
Phil Farmer, Prod Mgr, K-1 Mchn
Fay Beebe, Supt, Plt 4, K-3
Jeff Lawler, Supt, Plt 14 (Cnvtg)
Richard Bennett, Tech Mgr
Parker Holden, Mgr Engrg, Util
Dean Goodwin, Contr
R Keith Lolley, Empl Rels Mgr
Timothy Ireland, Empl Rels Dir
Paper Mill Stock Preparation: Pulpers: 10 Hydrapulpers, 1 Morden Slushmaker. Beaters: 1 continuous broke.
Paper Machines. 1 seven-unit pressure former 132" Width 120" Trim.
1: K-1 triple-ply board machine, with Tamformer S top dewatering unit on middle Ply-Former on Tampella base Fourdrinier 162" Width 146" Trim with Tamsec press section, 75 72" dryers.
Coaters, On Machine 2 Air Knife, 2 Bar
Off Machine. 1 76" double-head Beloit PE coater
Finishing Plant. Other Eqt.. 1 56" Inta-Roto laminator.
Steam/Power. Power Boilers: 3. Fuel· Gas/Oil. Steam, lbs hr.· 450,000
Water Treatment. Daily Usage, 2.0 million g.p.d. Source· Deep well.
Effluent Treatment. Secondary Treatment: via municipal syst.
Products. Machine clay-coated folding boxboards, foil laminating, grease and moisture resistant laminated, polyethylene coated, 800 tons daily.

Nickal Paper Co. 2305 E. King Hwy.
RR· ConRail siding Hwys· On US Rte 12
Paper Mill Stock Preparation Pulpers: 2 Hydrapulper. Refiners 3 Sprout Waldron
Paper Machines 1 Beloit Eight-Cylinder 108" Width 100" Trim 450 fpm.
Dryers. Drums 110 Infrared: 30 Calenders. 1 stack.
Finishing Plant Rewinders: 1.
Steam/Power. Power Boilers· 2 Fuel: Gas/Oil. Steam, lbs hr 70,000
Electricity· Purchased 48,000 kwh/day
Water Treatment. Daily Usage, 580 M.g.p.d. Source. Wells. City
Effluent Treatment. Primary Treatment: 1 Clarifier
Products. Recycled 69 lb. linerboard, 160 tons daily Paper Mill is idle.

Portage Paper Co. Inc. 2030 Portage St. (PO Box 2048, Kalamazoo, MI, 49003)
Tel 616-345-7131 Fax. 616-345-1609
RR ConRail sidings. Hwys: IS 94, US Rte 131; State Rte 43, 96
Brad Crawford, Plant Mgr
Jim Friel, Ppr Mach Supt
Robert Quackenbush, Tech Coord
Jim Waldron, Maint Supt
Marilyn Wren, Prchsg Coord
Paper Mill Paper Machines 1 Fourdrinier 137" Width 124" Trim (idle)
1 Fourdrinier 139" Width 126" Trim (idle)
1 Fourdrinier 141" Width 127" Trim (idle)
1 Fourdrinier 154" Width 142" Trim.
1 Fourdrinier 164" Width 152" Trim (idle).
Coaters, Off Machine. 5 C2S Fountain Blade, 126" trim
Steam/Power. Power Boilers: Fuel: Oil/Gas.
Water Treatment. Source: River, Wells.
Effluent Treatment. Primary Treatment: 2 clarifiers.
Products. Recycled kraft papers, 70-75 tons daily.

L'ANSE

The Celotex Corp. 200 Main St, 49946 (PO Box 188, L'Anse, MI, 49946)
Tel: 906-524-6101 Fax: 906-524-6613
RR: Soo Line. Hwys: On US Rte 41.
C.N. Abbott, Plant Mgr
I.B. Lateneresse, Board Mill Supv
B.J. Stolarz, Bd. Mill Supv
R.G. Niemele, Plt Contr
Paper Mill Stock Preparation: Pulpers: 1 Hydrapulper.
Paper Machines. 1 Black Clawson Fourdrinier 172" Width 165" Trim 50 fpm with 450' eight-deck Coe dryer.
Coaters, Off Machine. 1 Acrylic coater.
Steam/Power. Power Boilers: Steam, lbs hr.: 93,000.
Electricity: Purchased· 100%.
Water Treatment. Daily Usage, 1.0 million g.p.d. Source: Bay
Products. Mineral and light panel board products, perforated and unperforated tile, other interior finish products, 270 tons daily

MANISTIQUE

Manistique Papers Inc. (Subs. of Kruger Inc.) 453 S Mackinac Av, 49854
Tel: 906-341-2175 Fax· 906-341-5635
RR: Wis. Cntrl. siding. Hwys: On US Rte 2.
Leif Christensen, Pres, Gen Mgr
Tony Martin, Paper Mchne Supt
Jon Johnson, Plant Engr
Bruce Norman, Pur Mgr
E.A. Bourdo, Mgr. Rcyclg Opers
Larry Koski, Sales Mgr
Jason Panek, Tech Dir
Linda Benedetto, Contr
Pulp Mill Deinked Pulp: Avg. Daily Prod.: cap. 500 tons
Paper Mill Stock Preparation: Pulpers: 2 Jones. Refiners: 1 Claflin
Paper Machines 1 former, 165" width, 154" trim, 4200 fpm
Dryers. Drums: 48 60" dia. Calenders: 1. Reels: 1. Winders: 1 Beloit.
Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr . 145,000 Press.: 350 psi
Electricity· Purchased: 5000 kwh/day.
Water Treatment. Daily Usage, 2.5 million g.p.d. Source: River Primary Treatment: Yes.
Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Activated sludge system.
Products. Recycled and colored newsprint, groundwood printing and groundwood converting papers, 300 tons daily

MENOMINEE

Menominee Paper Co Inc. (Subs. of Bell Packaging Corp.) 144 First St, (PO Box 310, Menominee, MI, 49858-0310)
Tel 906-863-5595 Fax: 906-864-3320
RR. ELS. Hwys· US Rte 41, State Rte 173.
Marshall Schneider, Vice Pres, Gen Mgr
Dick Peterson, Prod Mgr
Jules Nagy, Gen Mgr, Ppr Pdcts
Larry Eggleston, Gen Mgr, Bd Sls, Mktg & Plng
Ginny Abel, Contr
Brian Brunner, Human Rsrcs
Anita Doepke, Dir, Enviro Affrs
Randy Barstow, Qlty Imprvmt Proc Admn
Victoria Mock, Tech Dir
Ed Bush, Maint Supt

MHI-00308

HOWARD ZUKER ASSOCIATES
919 N. MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700 • FAX 312-944-1471
THE PAPER TIGERS

Dave Nielsen, Mtrls Mgr
Russ Horsley, Plant Engr
Craig Grajeda, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 2 Claflin. Jordans: 5.
Paper Machines. 1 Black Clawson Fourdrinier 164" Width 154" Trim with Extended Nip-C press.
1 Yankee Fourdrinier 136" Width 128" Trim.
Finishing Plant. Supercalenders: 2. Rewinders: 4. Slitter/Rewinders: 3. Other Eqt.: Waxers: 5.

Steam/Power. Power Boilers: Fuel: Coal. Steam, lbs hr.: 140,000.
Electricity: Purchased: 7,000 kwh/day. Generated: 4,000 kwh/day. Turbogenerators: 2.

Water Treatment. Daily Usage. 5.0 million g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Yes. Secondary Treatment: Yes.

Products. Linerboard, corrugating medium, tube stock, bag stock, 450 tons daily. Baking cup stock, waxing tissue, lightweight MG, 60 tons daily. Waxed paper in rolls, sheets, and bags.

MONROE

Jefferson Smurfit Corp. Industrial Packaging—Div. 1151 W Elm Av, 48161
Tel: 313-241-7776 Fax: 313-241-2189
RR: C&O siding. Hwys: US Rte 24, IS-75.
Douglas Banks, Reg Mgr
Steve Opheim, Chief Engr
Gary VanWormer, Fnshg Supt
Bryan Duncan, Plant Contr
E Flotow, Sales Rep
J Zimmerman, Sales Rep

Paper Mill Stock Preparation: Pulpers: 2 Hydrapulper. Refiners: 1 Sprout Waldron, 2 Emerson. Jordans: 3 Shartle.
Paper Machines. 1 Seven-Cylinder 124" Width 110" Trim 450 fpm.
Dryers. Drums: 104. Calenders: 2 stacks. Winders: 1.
Finishing Plant. Rewinders: 2. Trimmers: 1.

Steam/Power. Power Boilers: Fuel: Gas, Oil. Steam, lbs hr.: 70,000.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage. 750 M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: Joint municipal-industrial system.

Products. Plain chip, can and tube board, lightweight chip. 130 tons daily.

Jefferson Smurfit Corp. Industrial Packaging Div. 1220 East Elm Av, 48161
Tel: 313-241-7700 Fax: 313-241-6493
RR: ConRail, Grand Trunk. Hwys: Near IS-75, 1 mi; On State Rte 50.
Robert Wright, Plant Mgr
Patrick M McBee, Plant Srvcs Mgr
A Bussell, Mchn Supt
W Manor, Tech Supt, Mill Engr
Brian Ducan, Admn Mgr, Plant Acct

Paper Mill Stock Preparation: Pulpers: 1 15' Apmew Pulper, 2 20' and 1 16' Hydrapulper. Screens: 14 Selectifier. Refiners: 2 34" Sprout-Waldron. Jordans: 2 Emerson 2-OD. Cleaners: 8 10" Vortrap. Consistency Regulators: 4 Bird.
Paper Machines. 1 Black Clawson Seven-Cylinder 120" Width 108" Trim 600 fpm.
1 Seven-Cylinder 120" Width 108" Trim 400 fpm.
Dryers. Drums: 103, and 137-42" dia. Reels: 2 Autoflyte. Winders: 2 two-drum.

Steam/Power. Power Boilers: 2. Fuel: Gas, Oil. Steam, lbs hr.: 140,000. Press.: 600/175 psi.
Electricity: Purchased: 100%.

Water Treatment. Daily Usage. 800 M.g.p.d. Source: Lake Erie. Primary Treatment: None.

Effluent Treatment. Primary Treatment: 2 50' Clarifiers. Secondary Treatment: Municipal Syst.

Products. Tube and core board, linerboard, automotive, building, chip and WP chip filler, and partition boards. 200 tons daily.

MUNISING

Kimberly-Clark Corp. Munising Mill 501 E Munising Av, (PO Box 10, Munising, MI, 49862-0010)
Tel: 906-387-2700 Fax: 906-387-2935
RR: Wis Central. Hwys: State Rte M28, M94.
Mark Kerstetter, Mill Mgr
Dan Macke, Admn Mgr
Mike Kerwin, Human Rsrc Mgr

Paper Mill Stock Preparation: Pulpers: 4. Screens: 2. Refiners: 2. Jordans: 2.
Paper Machines. 2 Fourdrinier 136" Width 120" Trim.
Coaters. Off Machine. 4. Saturators: 5.
Finishing Plant. Supercalenders: 1 94", 1-68". Rewinders: 5. Sheeters: 3, cap: 60 tpd. Other Eqt.: 1 Embosser. 1 Laminator.

Steam/Power. Power Boilers: 2. Fuel: Coal/Wood Waste. Oil standby.

Water Treatment. Daily Usage. 5.0 million g.p.d. Source: Lake Superior.

Effluent Treatment. Primary Treatment: Yes.

Products. Writing, map, impregnating, coating base, saturating, coated and saturated specialties. 98 tons daily.

MUSKEGON

S.D. Warren Co. (Subs. of Scott Paper Co.) 2400 Lakeshore Dr, (PO Box 119, Muskegon, MI, 49443)
Tel: 616-755-3761 Fax: 616-759-5416
RR: C&O siding. Hwys: US Rte 16, 31; IS-96; State Rte 46.
Don Booker, Pulp Util Mgr
John Holland, Mgr, Cust Srvc
John Anderson, Chief Engr
George Morstadt, Ppr Mill Fnshg Mgr
Jack D Buitema, Tech Dir
P.G. Van Hoesen, Mgr, Plng & Indl Engrg
Richard Rogers, Pur Agt
Jim Ware, Traffic Mgr
Jeff Fern, Human Rsrcs Mgr

Woodhandling and Preparation Roundwood Storage Capacity: 5,000 cds. Chip Storage Capacity: 120,000 tons. Mobile Equipment: Hopto RR crane, Poclain crane. Flume: 1. Log Handling: Drag and belt conveyors. Chip Handling: Rader pneumatic system. Sawdust Handling: Rader pneumatic system. Chip Unloaders: Hydraulic truck dumper. Barkers: 1 30 cds/hr Manitowoc drum. Hogs: 1 Montgomery. Chippers: 1 15-knife Carthage Norman. Chip Screens: 3 Link Belt. Avg. Daily Use of Peeled Pulpwood: 300 cds swd, 200 cds hwd.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Swd., 125 tons Bl. Hwd., 125 tons Continuous Digesters: 1 Kamyr. Chemical Recovery Plant. Evaporators: 1 six-effect Swenson. Black Liquor Oxidation System: Champion system. Recovery Boilers: 1 C-E, 750,000 lbs solids/day. Lime Kilns: 1 Dorr Oliver Fluo-Solids, 70 tpd. Gas Scrubbers: 1. Lime Mud Washers: 1 Dorr-Oliver. Recausticizing System: Dorr-Oliver.
Bleach Plant. Sequence: C-E-H-D. Towers: 4. Mixers: 4. Thick Stock Pumps: 1. Chlorine Dioxide System: Solvay process.
Pulp Processing: Knotters: 3 Impco. Screens: 3 Cowan. Cleaners: 1 three-stage Bauer system. Washers: 3 9'x16' Impco vacuum. Deckers: 1 9'x16', 1 8'x8' Impco. Other Eqt.: 6 pre-refiners (bleached stock).
Pulp Drying: Wet Machines: 1-100 tpd Kamyr. Cutter-Laydoys: Hamblet. Scales: 1.

Paper Mill Stock Preparation: Pulpers: 6 Vokes rotor Hydrapulper. Screens: 2 Selectifiers. Refiners: 5 Claflin, 1 double disc. Jordans: 4 Shartle. Cleaners: 2 Centricleaner three-stage systems with vacuum rejects. Consistency Regulators: 14 DeZurik, 5 Foxboro. Size Cookers: 1 continuous, 3 batch.
Paper Machines. 1 Beloit Fourdrinier 163" Width 144" Trim 1100 fpm.
1 Rice Barton Fourdrinier 222" Width 200" Trim 2000 fpm.
Dryers. Drums: 40 and 27 48", 55 and 69 60" dia. Hi-Velocity: 2. Size Presses: 2. Calenders: 4. Reels: 2 Pope. Winders: 2 two-drum.
Coaters. On Machine. 1 163" puddle, 1 222" Invertablade.
Finishing Plant. Supercalenders: 3-100", 1-1-115", 1-80". Roll Wrapping Eqt.: D.J. Mc system. Rewinders: 3 Langston. Sheeters: 1 La folio: 3, 100" to 112". Trimmers: 3-100". Ri Wrapping & Cartoning: Southworth system. Sh ping Eqt.: Signode system.

Steam/Power. Power Boilers: 3. Fuel: Coal Steam, lbs hr.: 500,000. Press.: 500 psi.
Electricity: Freq, phase: 60, 3. Purchased: 3, kwh/day. Generated: 19,000 kwh/day. Turbo erators: 3-25,500 kw.

Water Treatment. Daily Usage. 20.0 million g. Source: Lake. Primary Treatment: Eimco.

Effluent Treatment. Primary Treatment: Co spray irrigation system.

Products. Machine coated book, cover and m coated papers.

NILES

French Paper Co. 100 French St. (PO Box 398, Nu MI, 49120)
Tel: 616-683-1100 Fax: 616-683-3025
RR: ConRail siding. Hwys: US Rte 31, 12; State 60, 51.
J.E. French, Chmn Bd
Jerry E French, Pres, Treas
David L Bruce Jr, Vice Pres, Supt
Jerry Koch, Vice Pres, Sec
Erich Schrof, Asst Supt
Rick Van Wynsberghe, Fnshg Frmn
Duane Bodfish, Chief Engr
Doyle Harpole, Maint Mgr
Tom Tokarz, Pur Agt
Tad Kline, Sales Srvc
Kathy Bush, Sales Srvc

Paper Mill Stock Preparation: Pulpers: 3 Dynapulp 1 Slushmaker. Refiners: 2 Claflin. Jordans: 4.
Paper Machines. 1 Pusey & Jones Fourdrinier 11 Width 107" Trim.
Dryers. Winders: 2.
Finishing Plant. Sheeters: 2. Trimmers: 2. Oth Eqt.: 2 Embossers.

Steam/Power. Power Boilers: Fuel: Coal, Gas, O Press.: 150 psi.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P 1600 electric, 1600 water.

Water Treatment. Daily Usage. 800 M.g.p.d. Sourc Deep wells.

Effluent Treatment. Primary Treatment: Yes. Se ondary Treatment: Yes.

Products. White and colored offset, opaque, cove embossing, greeting card, text and specialty pa pers. 65 tons daily.

Simplicity Pattern Co., Inc. 901 Wayne St. 49121
Tel: 616-683-4100 Fax: Tlx: 258459
RR: ConRail. Hwys: US Rte 12, 31; State Rte 60, 4
Bill Rettke, Vice Pres, Plt Dir
Paul Pomainville, Paper Mill Supt
Tom DeForest, Mgr, Engrg & Ppr Making
R DeForest, Plant Engr
T Smit, Plant Contr
B Wilks, Distrib Mgr
S Hart, Ind Rels Dir
V Hess, Traf Mgr

Paper Mill Stock Preparation: Pulpers: 3 Dynapul pers. Screens: 1. Refiners: 4. Jordans: 1. Cleaners 5. Consistency Regulators: 2. Other Eqt.: 2 saveall
Paper Machines. 1 162" wide, 150" trim, 100 fpm.
Dryers. Drums: 8 and 12 - 48" dia. Calenders: 1 7 roll, 1-2 roll. Reels: 1. Winders: 2 Shear-Cut.

Steam/Power. Power Boilers: 1. Fuel: Gas/Oil Steam, lbs hr.: 35000. Press.: 100 psi.
Electricity: Freq, phase: 60, 3. Installed H.P. 3,264. Purchased: 32,000 kwh/day.

Water Treatment. Daily Usage. 1.0 million g.p.d Source: Wells.

Effluent Treatment. Primary Treatment: Yes.

Products. Pattern tissue. 33 tons. Interleaving pa pers. 40 tons daily.

ONTONAGON

Stone Container Corp. One Superior Way, 49953
Tel: 906-884-2021
RR: Escanaba & Lake Superior. Hwys: US Rte 45; State Rte 64.
Ron Howard, Gen Mgr
Richard Jakob, Prod Mgr
J.R. Richardson, Tech/Enviro Mgr
Dave Schmidt, Paper Mill Supt

MHI-00309

• CENTRAL NATIONAL-GOTTESMAN INC. •
Three Manhattanville Road, Purchase, NY 10577-2110 Tel: 914-696-9000 Fax: 914-696-1066
TRADES OF PULP FROM WORLDWIDE SOURCES
EXPORT WOODPULP

J.E Asiala, Ppr Mach Supt
S.G Domitrovich, Ppr Mach Supt
Greg Anderson, Pulp Supt
Mark Szczepanik, Supt, Pwr & Util
Peter J Whiteneck, Emply Rels Mgr
James Walchuk, Mgr, Engrg & Maint
Robert Antbla, Maint Supt
Wayne Boucher, Supt, I & E
James P Ninefeldt, Contr
Robert Schon, Mtrls Mgr

Woodhandling and Preparation Chip Storage Capacity: 50,000 tons. Mobile Equipment: 1 Pettibone Cary-Lift, 2 D-7 dozers. Chip Handling: Rader pneumatic. Sawdust Handling: Rader drag chain. Chip Screens: three-stage Rader disc. Avg. Daily Use of Peeled Pulpwood. 1100 tons purchased hwd chips.

Pulp Mill Semi-Chemical. Avg. Daily Prod.: Sodium Carbonate, Unbl Hwd: 520 tons Continuous Digesters: 2 Pandia.
Chemical Recovery Plant. Evaporators: 1 six-body, four-effect Goslin, Copeland fluidized bed reactor. Pulp Processing: Hot Stock Refiners: 2 Sunds. Washers: 1 Eimco, 1 Swenson.

Paper Mill Stock Preparation: Pulpers: 3. Refiners: 4 Bolton Emerson, 5 Sprout-Waldron. Screens: 1 Bird Centriscreen. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik.
Paper Machines. 1 Pusey & Jones Fourdrinier 177" Width 160" Trim 1500 fpm
1 Black Clawson Fourdrinier 180" Width 162" Trim 2300 fpm.
Dryers. Drums: 120. Calenders. 2 Winders: 2.

Steam/Power. Power Boilers 1, 3 package. Fuel: Gas, Coal Oil, Bark Steam, lbs hr., 350,000 Press., 1500/250/175/70 psi.
Electricity: Freq, phase 60, 3. Installed H.P.: 13500. Purchased: 35%. Generated: 65%. Turbogenerators. 1 GE, 15,000 kw.

Water Treatment. Daily Usage, 4.5 million g.p.d. Source: Lake Superior Primary Treatment: None.
Effluent Treatment. Primary Treatment: 1 Clarifier Secondary Treatment: clarifier, activated sludge, gravity thickener, belt filter press

Products. Semichemical corrugating medium, 730 tons daily.

OTSEGO

Menasha Corp. Paperboard Div 320 N Farmer St, (PO Box 155, Otsego MI 49078-0155)
Tel 616-692-6141 Fax: 616-692-2060
RR: ConRail siding Hwys. US Rte 131, State Rte 89
John Bonham, Gen Mgr
Andre Fischbach, Prod Mgr
David Merkel, Tech Mgr
S J Rosenthal, Maint Mgr
Tim Howard, Acctg Mgr
Jeff Burliegh, Pur Agt
Cindy Bezaury, Human Rsrc Mgr

Woodhandling and Preparation 2 hydraulic truck dumpers, chip thickness screening Avg Daily Use of Peeled Pulpwood 750 green tons purchased chips

Pulp Mill Semi-Chemical, Avg Daily Prod. Unbl Hwd, carbonate cook 320 tons Continuous Digesters 1 vertical Asplund Defibrator
Chemical Recovery Plant Recovery Boilers. Dorr Oliver (SLI) fluid bed reactor
Pulp Processing Stock Refiners. 3 Sprout-Waldron primary Washers. Black Clawson brown stock

Paper Mill Stock Preparation Pulpers: Secondary fiber system 1 1 14 Hydrapulper 5 HDC's, 1 fiberizer 2 barrier screens, 1 deflaker, three-stage cleaning
Pulpers Secondary fiber system 2, 1 16' Hydrapulper 3 HDC's, 2 LDC s, screening, multiple stage reverse cleaning Total capacity of both systems, 700 tpd
Paper Machines 1 Fourdrinier 176" Width 163" Trim 300 fpm with 1 600 pli suction press, 1 8500 pli Extended Nip press, 54 dryers.
1 Fourdrinier 92" Width 80" Trim 900 fpm with 2 suction presses, 41 dryers.

Steam/Power. Power Boilers 3 Fuel Coal, Gas. Steam lbs hr 240 000 Press 600 psi
Electricity Purchased 20,000 kw

Water Treatment. Daily Usage, 2.2 million g.p.d. Source: Wells.
Effluent Treatment. Secondary Treatment: Aeration pond.
Products. Semichemical corrugating medium, 830 tons daily.

Rock-Tenn Co. Paperboard Products Div 431 Helen Av, 49078
Tel: 616-692-6211 Fax: 616-692-6581
RR: ConRail siding. Hwys: Near US Rte 131, 2 mi; On State Rte 89.
Walter K Lancaster, Vice Pres, Gen Mgr
Joe Damico, Ppr Mill Supt
Jack Harvey, Plant Engr
Dave Johnson, Prod Cnvtg Mgr
Ron Anglin, Cnvtg Mgr
Rhonda Slayton, Cust Srvc Mgr
Bill Lee, Salesman
Matt Zenal, Salesman
Dan Siller, Salesman

Paper Mill Stock Preparation: Pulpers: 1 3000 lb Morden Slushmaker, 3 Hydrapulpers. Screens: 8. Refiners: 2 34" Jones DD, 1 Bauer double disc. Jordans: 4 Cleaners: Black Clawson, Bird filler, 1 asphalt dispersion unit.
Paper Machines. 1 Eight-Cylinder 140" Width 126" Trim.
Dryers. Drums: 163. Calenders: 2.
Coaters, Off Machine. 1 86" Egan PE extrusion coater

Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil. Steam, lbs hr.: 134,000. Press., 875/300 psi.
Electricity: Freq, phase: 60,3. Installed H.P.: 8000. Purchased: 41,000 kwh/day. Generated: 64,000 kwh/day. Hydroelectric: 4000 kw Westinghouse, 3000 kw Stal Laval.

Water Treatment. Daily Usage, 450 M.g.p.d. Source: 4 Wells. Primary Treatment: Chlorination. Secondary Treatment: iron stabilization.

Effluent Treatment. Primary Treatment: 2 clarifiers. Secondary Treatment: 2 stabilization basins, 8 aerators.

Products. Plain and bending chip, filled and solid news, jute lined, woodgrain, laminated specialties, building, polyethylene coated boards, 250 tons daily

PALMYRA

Sorenson Paperboard Corp. 6240 E US-223, (PO Box 135, Palmyra, MI, 49268)
Tel. 517-263-5160 Fax: 517-265-3604
Hwys: On US Rte 223
Merritt Sorenson, Pres
Cathleen Sorenson, Vice Pres, Sec
Judith Sorenson, Treas
Sue Willnow, Sales Srvc

Paper Mill Stock Preparation: Pulpers: 1 10', 1 12', 1 16' Hydrapulpers Screens 6 P-12 pressure. Refiners 2 Bauer disc. Jordans. 3 Other Eqt.: 1 1000 gpm and 1 1500 gpm Sveen Pedersen savealls.
Paper Machines 1 Beloit Six-Cylinder 80" Width 78" Trim

Steam/Power. Power Boilers: Fuel: Gas Press., 150 psi
Electricity: Freq, phase 60 3 Purchased: 100%

Water Treatment. Daily Usage, 120 M.g.p.d. Source River

Effluent Treatment. Primary Treatment: Yes

Products. Chipboard, white-lined kraft-lined, can, tube and drum stock, pad stock, 80 tons daily.

PARCHMENT

James River Corp. Packaging Papers Mill 100 Island Av, 49004-1394
Tel 616-383-5000 Fax: 616-384-6217
RR: ConRail CK & S. siding Hwys. On US Rte 131, Off State Rte 43
James Buroker, Opers Mgr
John J Drenth, Mgr, UM&E
Willy Beckman, Mgr Mfg Srvcs
Thomas P DeWolff, Total Qlty Mgr
Donald Lewis, Gen Supt
Phil Picard, Gen Supt
Denise Trainer, Tech Dir
Roy W Kemppainen, Mgr Pdct Devl
Carrie Kovtan, Contr
Robert H Russel, Prchsg Mgr

Paper Mill Stock Preparation: Pulpers, 1 6000 lb, 1 2000 lb and 2 4000 lb Morden Slushmakers, 1 2500 lb Pulpmaster, 1 Barracuda, 2 6000 lb and 1 1000 lb Hydrapulpers. Beaters: 2 2500 lb. Vortex, 3 2500 lb. Horne, 2 2000 lb Jones Refiners 5 34" disc (1 800 hp 4 700 hp). Screens: Bird Centriscreen. Jordans: 8 Majestic, 17 Fibremaster
Paper Machines. 1 Horne Harper Fourdrinier 117" Width 104" Trim 750 fpm
1 Pusey & Jones Fourdrinier 163" Width 148" Trim 1100 fpm.
1 Bagley & Sewell Fourdrinier 165" Width 148" Trim 1400 fpm.
1 Beloit Fourdrinier 167" Width 148" Trim 1800 fpm.
1 Yankee Fourdrinier 139" Width 126" Trim 1100 fpm.
1 Yankee Fourdrinier 139" Width 126" Trim 1350 fpm.
Dryers. Calenders: 5. Size Presses: 5.
Coaters, Off Machine. Air Knife: 1. Blade: 3. Solvent. 1.
Finishing Plant. Supercalenders: 2. Rewinders: 2.

Steam/Power. Power Boilers 3. Fuel. Gas/Oil. Steam, lbs hr.: 400,000.

Water Treatment. Daily Usage, 5.0 million g.p.d. Source: Well.

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration lagoon.

Products. Parchment, bond, greeting card, coating base, MG and MF waxing, MG and MF foil backing, MG and MF bag, dry waxed, lightweight coated, coated bag, fluorochemical treated, lightweight publishing, NASTA spec book publishing, pressure-sensitive and hot-melt release parchment papers. Mill No 1, 100 tons daily. Mill No 2: 320 tons daily.

PLAINWELL

Simpson Plainwell Paper Co. 200 Allegan St, 49080
Tel: 616-685-5851 Fax: 616-685-6504
RR: ConRail siding. Hwys: US Rte 131; State Rte 89
Roger Huckendubler, Opers Mgr
Robert Green, Prod Mgr
Dennis Kelly, Gen Supt, Ppr Mfg
Scott Sleeman, Mchn Supt No 18
Richard J Thomas, Mgr Fnshng & Matl Hndlg
Steve Button, Mchn Supt No. 16 & No. 17
Gary N Longworth, Mgr Engrg
Alan K Bruner, Supt Distr
Barbara J Bradley, Prchsg Agt
Robert Tardiff, Mgr, Qlty Confrnce
Kay C Woodruff, Supv, Testers
Bruce Bracken, Mgr, Emply Rels
Bill Boyden, Tech Dir
Terry Therkildsen, Tech Srvcs Supt
Henrietta Kaye, Compt

Paper Mill Stock Preparation: Pulpers: 1 10,000 lb, 1 6000 lb and 1 4000 lb Hydrapulper Refiners: 11 double disc. Jordans: 1. Stock Mixers: 3 blend chests.
Paper Machines. 1 Fourdrinier 112" Width 98" Trim 850 fpm
1 Fourdrinier 135" Width 118" Trim 900 fpm.
1 Fourdrinier 135" Width 120" Trim 2000 fpm.
Dryers. Size Presses: 3
Coaters, On Machine 1 120" trailing blade-rod, 190 tons daily capacity
Finishing Plant. Supercalenders. 1-126", 1-130" Roll Wrapping Eqt. 1 automated line Rewinders: 2. Sheeters: 3 Trimmers. 2. Other Eqt., 1-60" dual roll embosser

Steam/Power. Power Boilers: 4 Fuel: Coal, Gas/Oil Steam, lbs hr, 205,000. Press., 265 psi
Electricity Freq, phase 60, 3. Purchased. 160,000 3250,000

Water Treatment. Daily Usage, 2.7 million g.p.d. Source wells

Effluent Treatment. Primary Treatment: 1-Clarifier. Secondary Treatment: Attisholz activated sludge process.

Products. Coated and uncoated book and cover, release base, technical specialties, 260 tons daily

PORT HURON

E.B. Eddy Paper Inc. (Affl of E.B Eddy Forest Products Ltd.) 1700 Washington Av, (PO Box 5003, Port

MHI-00310

HOWARD ZUKER ASSOCIATES
919 N MICHIGAN AVENUE • CHICAGO, ILLINOIS 60611 • PHONE 312-664-5700 • FAX 312-944-1471
THE PAPER TIGERS

Huron, MI. 48061-5003)
Tel: 810-982-0191 Fax: 810-982-7124
RR: GTW siding. Hwys: State Rte 21, 25; Near IS-69, IS-94, 1 mi. Near Prov Hwy 402, 2 mi.
A Richard Wagner, Vice Pres, Res Mgr
Michael G Hevenor, Dir Opers
Joseph C Fiedler, Mtrls Mgr
C Dale Hoy, Sec, Contr
Howard L Hunter, Tech Dir
Mark Bessette, Engrg Mgr
Randall L McNeely, Util Supt
Kenneth A Wood, Maint Mgr
Hal Henry, Ppr Mach Supt
Larry Thomas, Ppr Mach Supt
S.J. Bentley, Asst Ppr Mach Supt
Alan D Cutcher, Dir Human Rsrcs
Celeste Lewis-Bradley, Mgr Prod Cntrl
Robert L Andrews, Mgr Budget & Insrnc
Richard P Cole, Gen Sls Mgr
Leon E Rymers, Mgr, Pdct Devl

Paper Mill Stock Preparation: Pulpers: 5. Screens: 4. Refiners: 15. Cleaners: 6.
Paper Machines. 1 Yankee Fourdrinier 143" Width 127" Trim 1500 fpm.
1 Fourdrinier 132" Width 116" Trim 1200 fpm.
1 Fourdrinier 184" Width 156" Trim 1800 fpm.
1 Yankee Fourdrinier 210" Width 186" Trim 2500 fpm
Dryers. Drums: 79. Yankee: 2. Size Presses: 4. Calenders: 4 stacks. Winders: 4.
Finishing Plant. Roll Wrapping Eqt.: automatic. Rewinders: 1.

Steam/Power. Power Boilers: Steam, lbs hr.: purchased
Electricity: Purchased: 80%.

Water Treatment. Daily Usage, 4.5 million g.p.d. Source: St. Clair River.

Products. Carbonizing, coil winding, coating base, foil mounting, interleaving, kraft specialties, laminating, offset, opaque, grease-resistant, pan liners, lightweight printing, book, wet strength, and specialties, 270 tons daily

James River Corp. Packaging Papers Mill 218 Riverview St, 48060
Tel: 810-984-5523 Fax: 810-984-5830
RR: GTW siding. Hwys: IS-94, IS-69.
James R Scohy, Res Mgr
Brent A Earnshaw, Opers Mgr
Gregory A Howe, Contr
Alan C Crawford, Mgr, Prchsg
Robert W Ferguson, Mgr, Indl Rels
Robert A Wright, Machine Supt
Ronald G Koglin, Mgr, Proc Engrg

Paper Mill Stock Preparation: Pulpers: 8. Refiners: 14 Jordans. 2.
Paper Machines. 1: No. 1 Beloit Yankee Fourdrinier 137" Width 124" Trim 1500 fpm.
1: No 2 Beloit Yankee Fourdrinier 134" Width 121" Trim 1200 fpm
1. No. 3 Allis Chalmers Yankee Fourdrinier 150" Width 134" Trim 2000 fpm.
1: No 4 Yankee Fourdrinier 137" Width 124" Trim 1200 fpm
Dryers Yankee 3 12', 1 18' dia units. Size Presses: 4 Calenders. 4 variable crown Winders: 4
Coaters. On Machine 4 two-stream, short-dwell blade
Finishing Plant Rewinders: 1.

Steam/Power. Power Boilers: 3. Fuel: Oil/Gas. Steam, lbs hr 76,000 Press.. 600/200 psi.
Electricity Freq, phase 60 3 Generated: 3 gas-fired turbines, rated at 5.8 Mw ISO each; 2 51,000 lbs

Products. Lightweight coated, release treated, foil mounting, twisting, soft calendered, double side coated, MG bleached, jumbo rolls only, 170 tons daily

QUINNESEC

Champion International Corp. (PO Box 211, Norway, MI, 49870-0211)
Tel: 906-779-3200 Fax: 906-779-3307
RR: C&NW Hwys. On US Rte 2
Jeffrey A Hearn, Vice Pres, Opers Mgr
Steve List, Mgr Enviro Affrs
Eddie Plemmons, Maint & Engrg Mgr
Bill Stephenson, Process Control Mgr
Mark F Pontti, Cmmnty Affrs Mgr
George Curran, Matl Srvcs Mgr
Don Hubbard, Rcvry & Util Mgr
Jack Louthain, Plt Contr
Steve Perry, Pdct Srvcs
Randal Lorenz, Admn/Human Rsrcs

Woodhandling and Preparation Roundwood Storage Capacity: 8,400 cds. Chip Storage Capacity: 30,000 cds;. Barkers: 2 Murco drum;. Chippers: 1 Murco;. Chip Screens: 2 Rotex, 1 Rader scalper.

Pulp Mill Kraft. Avg. Daily Prod.: Bl. Hwd., 845 b.d. tons of which 750 tons is Market Pulp. Continuous Digesters: 1 Kamyr vapor phase, two-vessel.
Chemical Recovery Plant. Evaporators: 1 five-effect Rosenblad falling film. Recovery Boilers: 1 B&W, 491,000 lbs steam/hr. Electrostatic Precipitators: 1 Research Cottrell;. Lime Kilns: 1 12' x 274' Allis-Chalmers. Recausticizing System: Dorr Oliver.
Bleach Plant. Sequence: Cd-E/O-D-D.
Pulp Processing: Washers: 1 three-drum Dorr-Oliver brown stock. Screens: 3 primary, 1 secondary Bird. Cleaners: Bauer Centricleaner unbleached, four-stage Noss bichd. Deckers: 2 Dorr-Oliver unbl, 1 Rauma valveless.
Pulp Drying: Fourdriniers: 1 240" KMW. Dryers: 1 Flakt air-float. Cutter-Layboys: 1 224" Lamb.

Paper Mill Paper Machines. 1 No. 41: Beloit Fourdrinier 280" Trim 3500 fpm.
Coaters. On Machine. 2.

Steam/Power. Power Boilers: 1 B&W, 1 C-E package. Steam, lbs hr.: 675,000.
Electricity: Turbogenerators: 1 30 Mw Stal-Laval.

Water Treatment. Daily Usage, 15.0 million g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 2 150' Eimco clarifiers. Secondary Treatment: 2 aeration basins, 2 190' clarifiers, sludge dewatering.

Products. Bleached hardwood kraft market pulp, 750 tons daily. Coated free sheet, 750 tons daily.

ROCHESTER

Custom Papers Group Inc. 340 Mill St, 48307
Tel: 810-651-8121 Fax: 810-651-2792
RR: GTW siding. Hwys: US Rte 10; State Rte 150.
Stanley S Luczycki, Res Mgr
Richard Marciniak, Mgr Admin
Rick Lapanowski, Ppr Mchne Supt
Gregg Hunsager, Mgr Pdctn & Schdlg
Steve Ziolkowski, Tech Dir
Wayne Broadhead, Plant Engr
Mike Quick, Cnvtg Supt
Mike Bobbit, Cust Srvc Mgr

Paper Mill Stock Preparation: Pulpers. 1 Jones Hi-Lo. Beaters: 1 1000 lb Screens: 1 Parker Jordans: 2 Noble & Wood, 1 Jones Fibremaster
Paper Machines. 1 Fourdrinier 66" Width 62" Trim.
Dryers. Size Presses: 1. Calenders: 1 stack.
Coaters, On Machine 1-62" roll saturator, 20 tons daily cap
Off Machine. 1-62" roll laminator, 12 tons daily cap
Finishing Plant. Rewinders 1-72" Cameron Sheeters. 1-72", 1-84" Trimmers 1-50", 1-84" Other Eqt. Punch Presses. 2. Die Cutters. 1-32x60 Sheridan. Sewing Machines. 1.

Steam/Power. Power Boilers: Fuel: Oil Press.. 100 psi.
Electricity Freq, phase: 60, 3 Purchased: 100%.

Water Treatment. Daily Usage. 150 M.g.p.d. Source: Wells.

Effluent Treatment. Primary Treatment: Yes. Effluent to municipal plant

Products. Absorbent, blotting, cover, impregnating, regular and wet strength filter, saturated filter, industrial filter, cartridge filter, coffee and vacuum filter, impregnated specialty, flameproof: creped specialties; sewn specialties; glass fiber, synthetic fiber papers, non-wovens; speaker cone, photo mount, matrix papers, 18 tons daily.

ROCKFORD

Converters Paperboard Co. 7734 Childsdale Rd, NE (PO Box 560, Rockford, MI, 49341)
Tel: 616-866-3421 Fax: 616-866-1114
Hwys: Near US Rte 131, 3 mi.
James Isabell, Pres
Ron Fox, Vice Pres, Gen Mgr
Mike Knapp, Maint Supt
Craig Linderman, Prod Supt
C.A. Dufon, Sales Mgr

Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper. Screens: 8. Refiners. 3 Sprout-Waldron. Cleaners: Black Clawson low-intensity with X-clone on filler system. Consistency Regulators: DeZurik. Other Eqt.: Allied clay mixing eqt.
Paper Machines. 1 Eight-Cylinder 76" Width 69" Trim 350 fpm.
Dryers. Drums: 115-42", 12-36" dia. Calenders: 3 stacks.
Coaters, On Machine. 2 Kohler rod.
Finishing Plant. Trimmers: 1.

Steam/Power. Power Boilers: 1. Fuel: gas. Steam, lbs hr.: 60,000. Press.: 150 psi.
Electricity: Freq, phase: 60, 3. Installed H.P.: 2100 electric, 300 water. Purchased: 1500 kva.

Water Treatment. Daily Usage, 20 M.g.p.d. Source: River.

Effluent Treatment. Primary Treatment: 1 Clarifier Effluent to county sewer line.

Products. Boxboard: clay-coated, chip, news, lined and solid kraft, food grade. 100 tons daily.

TROY

★**ABTco, Inc.** Abitibi Building Products
Headquarters Location. See Executive Offices section for more details.

VICKSBURG

Simpson Paper Co. Washington St, (PO Box 157, Vicksburg, MI, 49097)
Tel: 616-649-0510 Fax: 616-649-1516
RR: ConRail siding. Hwys: Near US Rte 131, IS-194, IS-94, 6 mi.
Donald K Ulsh, Opers Mgr
Gary Vandlen, Prod Mgr
Jeff Honour, Ppr Mchns Supt
Dick Moyle, Fnshng & Coating Supt
Jeff Cross, Tech Dir
Claus Globig, Mgr R&D
Bruce Block, Plant Engr
John Fields, Mgr Qlty Cntrl
Bruce Kroeze, Plant Contr
Tim Moore, Pur Mgr
Ronald G Markan, Pers Dir

Paper Mill Stock Preparation: Pulpers: 3 Jones Pulpmaster. Beaters: 2 1500 lb, 2 1000 lb. Bertrams. Screens: 5. Refiners: 3 double disc Morden. Jordans. 5 Jones Imperial.
Paper Machines. 1 Fourdrinier 121" Width 105" Trim 300 fpm
1 Fourdrinier 132" Width 112" Trim 500 fpm.
1 Fourdrinier 134" Width 114" Trim 600 fpm.
Dryers. Drums. 122. Size Presses: 4. Calenders: 3 stacks. Winders: 3
Coaters, Off Machine. 1 52" air knife, 20 tpd.
Finishing Plant. Supercalenders. 2-56", 1-48". Rewinders: 6. Sheeters. 3-57", 61", 61". Trimmers: 3-66", 75", 110"

Steam/Power. Power Boilers: 2. Fuel: Gas/Oil. Steam, lbs hr. 80,000
Electricity: Purchased. 100%.

Water Treatment. Daily Usage, 2.5 million g.p.d. Source. River. Wells

Effluent Treatment. Primary Treatment: Clarifier. Secondary Treatment: Aeration basin, spray irrigation.

Products. Blueprint, rag and sulphite bond, solid and pasted bristol, check, book (antique, eggshell, EF, MF, SC, coated, offset), collotype, cover, chart, embossing, rag and sulphite drawing, greeting card, ledger, text and cover, linen finish, safety, photographic base, reproduction, writing, and 100% recycled text papers, 125 tons daily.

MHI-00311

PROFESSIONAL SEARCH & RECRUITMENT
PULP & PAPER SPECIALISTS
1-800-729-0015 George Samuel's, Inc. FAX (216) 729-0873

NATERVLIET

Fletcher Paper Co. 711 N Main St, 49098
Tel: 616-463-3141 Fax: 616-463-2850
RR: siding. Hwys: IS-94; State Rte 140.
Jim Palmer, Paper Mill Supt
Jim Spens, Tech Mgr
Dennis Forrester, Ctg & Shppg Supt
Ron Ricketts, Qlty Assrnce Mgr
Bill Enplard, Matls Mgr
Kork Klimp, Maint & Engrg Mgr
Rick Warner, Emply Rels Mgr
Michael Bekes, Mill Mgmnt
Paper Mill Stock Preparation: Pulpers: 4. Refiners: 2 Sprout Waldron, 4 Hydradisc. Jordans: 1 Jones.
Paper Machines. 1 Fourdrinier 124" Width 114" Trim 1000 fpm.
1 Fourdrinier 138" Width 126" Trim 1000 fpm.
Dryers. Drums: 85. Size Presses: 2. Calenders: 2. Winders: 2
Coaters. Off Machine. 1 92", 1 88", 1 70", 1 66" air knife.
On Machine. 1 128".
Finishing Plant. Supercalenders: 5: 119", 66", 80", 86", 96". Rewinders: 2. Sheeters: 3: 76" to 101". Trimmers: 2 85", 1 100". Other Eqt.: 1 Black Clawson Laminator. 1 62" Embosser.
Steam/Power. Power Boilers: 3. Fuel: Coal. Steam, lbs hr.: 90,000 Press.: 235 psi.
Electricity: Installed H.P.. 450 water. Purchased: 100%.
Water Treatment. Daily Usage. 700 M.g.p.d. Source: wells.
Effluent Treatment. Primary Treatment: and.
Products. No. 1 & No. 2 offset enamel text and cover with 50% recycled fiber and 20% post-consumer waste, playing card stock, greaseproof, moldproof, wet strength C1S label, coated recycled papers for commercial printing and flexible packaging, 160 daily.

WHITE PIGEON

White Pigeon Paper Co. (PO Box 277, White Pigeon, MI, 49099)
Tel: 616-483-7601 Fax: 616-483-9989
RR: ConRail siding Hwys: On US Rte 12.
William Schmidt, Chmn
Len Eggleston, Gen Supt
Frank Black, Supt
Ronald Hamilton, Tech Dir
Kenneth A Shane, Plant Contr
Patsy Brown, Prchsg Mgr
David DiBiaggio, Sales Mgr
Rose Hiner, Sales Srvc Mgr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulper Screens: 6. Refiners: 5
Paper Machines. 1 seven-unit Ultraformer 110" Trim
Dryers Drums: 41 Calenders. 2
Coaters. On Machine. 2 air knife. 2 rod.
Finishing Plant. Rewinders: 1 Trimmers: 1-85"
Steam/Power. Power Boilers 2. Fuel Oil/Gas. Steam, lbs hr.. 180,000. Press.. 500 psi.
Electricity: Purchased: 100%
Water Treatment. Daily Usage. 250 M.g.p.d Source: River
Effluent Treatment. Primary Treatment: Clarifier Secondary Treatment: 6 Settling Basins.
Products. Clay-coated boxboard. 200 tons daily

YPSILANTI

James River Corp. Premium Printing Papers Group 1000 N Huron St, 48197
Tel 313-482-2600 Fax. 313-482-1288
ConRail siding Hwys: On IS-94.
Kittle, Res Mgr
Ellsworth, Mfg Mgr
Addison D Mooken, Tech Dir
Gerald Linzmeyer, Enviro Mgr
Richard Franklin, Plant Engr
Steven D Schultz, Pdct Devl Mgr
Paper Mill Stock Preparation: Pulpers: 1 1000, 2 2000 lb Hydrapulper. Refiners: 2 Sprout Waldron. Screens: 1 Bird pressure. Cleaners: Bauer Centricleaners. Consistency Regulators: DeZurik. Stock Mixers: Lightin' agitators.
Paper Machines. 1 Manchester Fourdrinier 90" Width 80" Trim 500 fpm
Dryers: Drums: 29-36". Size Presses: 1. Calenders: 1 stack. Winders: 1.
Finishing Plant. Roll Wrapping Eqt.: 1 line. Rewinders: 1-78" Langston. Sheeters: 1-85", 65" Hamblet Trimmers: 1-110" Lawson, 1-85" Seybold. Other Eqt.: Embossers: 2. Printer-Embossers: 1. Pasters: 1 duplex.
Steam/Power. Power Boilers: 1. Fuel: Gas/Oil. Steam, lbs hr.: 40,000. Press.: 120 psi.
Electricity: Freq, phase: 60, 3. Installed H.P.: 1200. Purchased: 25000 kwh/day.
Water Treatment. Daily Usage. 500 M.g.p.d. Source: Wells, River. Primary Treatment: yes.
Effluent Treatment. Primary Treatment: City sewer system.
Products. Colored cover and text, colored envelope, colored and sulphite and bleached kraft specialties. 50 tons daily.

MINNESOTA

BEMIDJI

Georgia-Pacific Corp. Hardboard Plant 280 Nymore Rd NE, (PO Box 518, Bemidji, MN, 56601)
Tel: 218-751-5140 Fax: 218-751-5831
RR: BN siding Hwys: US Rte 2, 71, 371.
Gary Wilson, Res Mgr
Paul Malterude, Mgr, Trat & Sls
Woodhandling and Preparation Barkers: 1 21" Manitowoc. Chippers: 1 12' Hansel. Avg. Daily Use of Peeled Pulpwood: 100 cds aspen.
Pulp Mill Defibrated Wood Pulp. Avg. Daily Prod.: Unbl Hwd., 100 tons Continuous Digesters: 2 30' Grenco.
Paper Mill Paper Machines. Hardboard machinery including 49" X 97½" dry forming and pressing equipment, and 2 drying systems.
Steam/Power. Power Boilers: 1. Fuel: Bark. Steam, lbs hr.. 14,000. Press.: 200 psi.
Electricity: Freq, phase: 440v, 60, 3. Installed H.P.: 2350 electric. Purchased: 30,000 kwh/day.
Water Treatment. Source: City.
Products. Standard panel and tempered hardboard (⅛" to ⅜" thickness) and special types, S2S, 290 Msf daily cap. (100 tons daily).

BRAINERD

Potlatch Corp. Northwest Paper Div. Mill Av, 56401
Tel: 218-828-3200 Fax: 218-828-5118
RR: Burl Nthrn. Hwys: US Rte 210, 371.
Thomas G Palkie, Vice Pres, Mfg
Roderick W Petron, Mgr, Qlty Srvcs
Thomas J Westerback, Mgr, Ppr Mfg
Janet Hanneken, Mgr, Opers Cntrl
Erwin D Kosloski, Mgr, Tech Srvc
Daryl L Hartman, Mgr Mech Srvc
Robert A Krell, Mgr, Emply Rels
Elmer W Walls, Mgr, Fnshg & Shppg
Charles O Provost Mgr, Ctg
David E Dinham, Prchsg Mgr
Al D Evans, Plt Contr
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners 3 disc. Jordans. 1.
Paper Machines 1 Fourdrinier 128" Width 112" Trim 1250 fpm
1 Fourdrinier 200" Width 180" Trim 2000 fpm.
Dryers Size Presses: 1 112" Calenders: 2.
Coaters Off Machine. 1 112" two-station blade.
On Machine 1 180" Billblade.
Finishing Plant. Supercalenders: 2-130", 2-121" 1-80" Rewinders: 7. Sheeters: 6, 4 precision. Trimmers: 1
Steam/Power. Power Boilers: 4. Fuel: Gas/Coal. Steam lbs hr. 260,000
Electricity Purchased 140,000 kwh/day. Generated: 50,000 kwh/day
Water Treatment. Daily Usage 3.0 million g.p.d Source: River Primary Treatment: Infilco accelerator.
Effluent Treatment. Primary Treatment 1-90' Beloit-Passavant clarifier. Secondary Treatment: 9 12'x26' Bio-Surf units, 1-85' Eimco clarifier
Products. Coated offset text and cover (gloss, matte, dull), 395 tons daily

CLOQUET

★**Potlatch Corp.** Northwest Paper Div. 55720
Tel: 218-879-2300 Fax: 218-879-2349
Headquarters Location. See Executive Offices section for more details.
RR: Burl Nthrn, Duluth & Nrthestrn RR. Hwys: State Rte 33, 45.
Thomas A Biazzo, Vice Pres, Mfg, Cloquet Unit
Charles E Hartley, Prod Mgr, Pulp, Pwr & Rcvry
Glen H Lundin, Mgr, Paper Mfg
Richard L Morgan, Mgr, Pwr Rcvry & Chem Prep
David F Peterson, Mgr, Tech Srvc
Larry D Slater, Mgr, Pulp Mfg
Barbara A Reher, Prod Mgr, Ppr Cnvrsn
Robert R Becker, Prod Mgr, Info Sys
William H Erickson, Mgr Ctg
Joseph P Prevendar, Supv, Engrg
Michael A Rossing, Mgr, Maint
Robert M Kainu, Mgr Wood Prprtn
Ronald A Witt, Mgr Fnshg & Shppg
James E Buchner, Mgr Empl Rels
Jack E Munter, Pur Agt
Richard J Brenner, Div Contr
Woodhandling and Preparation Roundwood Storage Capacity: 30,000 cds. Barkers: 1 84' drum. Chippers: 1 120", 12 knife. Chip Screens: 2. Avg. Daily Use of Peeled Pulpwood: 190 cds swd, 700 cds hwd.
Pulp Mill Kraft. Avg. Daily Prod.. Bl. Swd., 100 tons Bl. Hwd., 420 tons Batch Digesters: 10.
Chemical Recovery Plant. Evaporators: 1 six-effect Unitech with concentrators, 1 Sixeffect Swenson. Recovery Boilers. 1 B&W. Lime Kilns. 1. Recausticizing System: 1.
Bleach Plant. Sequence: C-E-D-E-D.
Pulp Drying. Wet Machines: 1 Impco feltless.
Paper Mill Stock Preparation: Pulpers: 4 Hydrapulpers. Refiners: 9 disc. Jordans. 3.
Paper Machines. 1 Fourdrinier 216" Width 192" Trim 1500 fpm
1 Fourdrinier 216" Width 196" Trim 2500 fpm.
Coaters. On Machine. 2 200" Billblade.
Off Machine. 1 200" trailing blade
Finishing Plant. Supercalenders: 2 194". Rewinders: 3. Sheeters. 4 precision. Trimmers: 2.
Steam/Power. Power Boilers: 3. Fuel: Coal/Gas/Oil/Bark. Steam, lbs hr.: 550,000.
Electricity: Purchased. 200,000 kwh/day. Generated: 400,000 kwh/day.
Water Treatment. Daily Usage, 13.0 million g.p.d. Source: River, Lake Superior
Effluent Treatment. Primary Treatment: discharge into P.O.T W.
Products. Coated offset, text and cover, coated web papers. 540 tons daily.

USG Interiors Inc. 35 Arch St, 55720
Tel: 218-879-2800 Fax: 218-879-3673
RR: Duluth & Nrthwstrn, BN, Milw, siding Hwys: Near US Rte 61, IS-35, 3 mi. State Rte 33, 45.
Dom Dannessa Plant Mgr
Ray Nyholm, Mfg Mgr, Board
Dan Schmidt, Mfg Mgr, Board
Bruce J Kanara, Mgr Mfg Engrg
Frank McKean, Qlty Assrnce Mgr
Paper Mill Paper Machines 1 Board Fourdrinier 113" Width 107" Trim
1 Board Fourdrinier 104" Width 101" Trim
1 Board Fourdrinier 169" Width 159" Trim.
Coaters. On Machine 3 roll
Steam/Power. Power Boilers Fuel: Coal/Gas/Oil. Press. 275 psi
Electricity Freq, phase: 13,800v, 60, 3 Purchased: 100%
Water Treatment. Source: River
Effluent Treatment. Primary Treatment: Yes.
Products. Board mill mineral ceiling panels and decorative tile

DULUTH

Georgia-Pacific Corp. Hardboard Plant 14th Av W and Waterfront St. 55802 (PO Box 16267, Duluth, MN,

MHI-00312