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Walworth

DNR Region: Southeast
County: WALWORTH
SIC Code: 3296 -- MINERAL WOOL
NAICS Code: 327991 -- Cut Stone and Stone Product Manufacturing

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Area: 3267000 ft2

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DEVICE AND PROCESS LIST

DEVICE ID > PROCESS ID	DEVICE CODE > PROCESS CODE	DEVICE NAME > PROCESS NAME	DEVICE CATEGORY > PROCESS DESCRIPTION
B10	BOILER	BOILER	Boiler/Furnace
--> 01	GENERIC	NATURAL GAS	Generic Throughput Process
C01	CONTROL	FIBERIZING AIR IS COLLECTED FROM THE BLOW CHAMBER AND FILTERED EI: #1 DRY FILTER	Miscellaneous
--> 01	CONTROLLING		Used for collectors
C03	CONTROL	FIBERIZING AIR IS COLLECTED FROM THE BLOW CHAMBER AND IS FILTERED EI: #3 DRY FILTER	Miscellaneous
--> 01	CONTROLLING		Used for collectors
C04	CONTROL	FIBERIZING AIR IS COLLECTED FROM THE BLOW CHAMBER AND IS FILTERED. EI: #4 DRY FILTER	Miscellaneous
--> 01	CONTROLLING		Used for collectors
C05	FILTER	#5 DRY FILTER	Fabric Filters
--> 01	CONTROLLING		Used for collectors
C11	AFTERBURNER	EXHAUST GASES FROM THE CUPOLA ARE OXIDIZED THROUGH IGNITION. EI: AFTERBURNER (INCINERATOR)	Catalytic or Thermal Oxidation
--> 01	CONTROLLING		Used for collectors
C12	BAGHOUSE	PARTICULATES FROM THE CUPOLA OPERATON ARE COLLECTED.11 EI: CUPOLA BAGHOUSE	Baghouse/Fabric Filter
--> 01	CONTROLLING		Used for collectors
C14	BAGHOUSE	PARTICULATES ARE COLLECTED FROM THE LINE 1 FINISHING OPERATON.1111 EI: LINE 1 FINISHING DUST COLLECTOR	Baghouse/Fabric Filter
--> 01	CONTROLLING		Used for collectors
C16	BAGHOUSE	PARTICULATE FROM THE MOULDING LINES MOULD CLEANING OPERATONS AND THE i1MOULDING LINE VAC-U-LIFTS ARE COLLECTED. EI: BRUSH HOUSE DUST COLLECTOR	Baghouse/Fabric Filter
--> 01	CONTROLLING		Used for collectors
C18	BAGHOUSE	OVERSPRAY FROM PAINT BOOTH IS COLLECTED WITH TRIM WASTE FROM THE i1FINISHING OPERATON EI: LINE 2 FINISHING DUST COLLECTOR	Baghouse/Fabric Filter
--> 01	CONTROLLING		Used for collectors
P30	GENERIC	MINERAL WOOL CUPOLA EI: CUPOLA	Miscellaneous
--> 01	GENERIC	COKE COMBUSTION	Generic Throughput Process
--> 02	GENERIC	Natural Gas Combustion	Generic Throughput Process

P31	@	MINERAL WOOL BLOW CHAMBER EI: BLOW CHAMBER	Miscellaneous
--> 00	GENERIC	MINERAL WOOL COLLECTION	Generic Throughput Process
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P32	GENERIC	#1 KILN EI: LINE 1 DRYING KILN	Miscellaneous
--> 01	GENERIC	DRYING OF CEILING TILE	Generic Throughput Process
--> 02	GENERIC	COMBUSTION OF NATURAL GAS	Generic Throughput Process
---	---	---	---
P33	@	ACOUSTONE FINISHING LINE #1 EI: LINE 1 FINISHING	Miscellaneous
--> 00	GENERIC	THRUPUT	Generic Throughput Process
---	---	---	---
P34	COATER	PAINT BOOTH IS USED TO APPLY LATEX BASED PAINT TO THE SURFACE OF ACOUSTICAL CEILING TILE. EI: LINE 1 FINISHING SPRAY BOOTH AND DRYER	Painting/Coating
--> 01	GENERIC	PAINTING CEILING TILE	Generic Throughput Process
--> 03	GENERIC	COMBUSTION OF NATURAL GAS	Generic Throughput Process
---	---	---	---
P35	@	MOULD CLEANING BRUSHES & VAC-U-LIFT - LINE 2 EI: LINE 2 MOULDING BRUSH HOUSE	Miscellaneous
---	---	---	---
P36	GENERIC	#2 DRYING KILN EI: LINE 2 DRYING KILN	Miscellaneous
---	---	---	---
P37	@	#2 ACOUSTONE FINISHING LINE EI: LINE 2 FINISHING	Miscellaneous
--> 01	GENERIC	THRUPUT	Generic Throughput Process
---	---	---	---
P38	COATER	SPRAY BOOTH PAINTS ACOUSTICAL TILE WITH LATEX PAINT. EI: LINE 2 FINISHING SPRAY BOOTH AND DRYER	Painting/Coating
--> 00	GENERIC	THRUPUT	Generic Throughput Process
--> 03	GENERIC	COMBUSTION OF NATURAL GAS	Generic Throughput Process
---	---	---	---
P39	@	MOULD CLEANING BRUSHES & VACU-LIFT - LINE 1 EI: LINE 1 MOULDING BRUSH HOUSE	Miscellaneous
--> 01	GENERIC	#1 Moulding Brush House	Generic Throughput Process
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EMISSION FLOW SUMMARY

B10-01 ---(100%)---> S11-01 ---(100%)---> OUT

P30-01 ---(100%)---> C11-01

C11-01 ---(100%)---> C12-01

C12-01 ---(100%)---> S12-01 ---(100%)---> OUT

P30-02 ---(100%)---> C11-01

C11-01 ---(100%)---> C12-01

C12-01 ---(100%)---> S12-01 ---(100%)---> OUT

P31-00 ---(33%)---> C03-01

C03-01 ---(100%)---> S21-01 ---(100%)---> OUT

P31-00 ---(33%)---> C04-01

C04-01 ---(100%)---> S22-00 ---(100%)---> OUT

P31-00 ---(34%)---> C05-01

C05-01 ---(100%)---> S24-01 ---(100%)---> OUT

P32-01 ---(100%)---> S13-01 ---(100%)---> OUT

P32-02 ---(100%)---> S13-01 ---(100%)---> OUT

P33-00 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P34-01 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P34-03 ---(100%)---> S25-01 ---(100%)---> OUT

P37-01 ---(100%)---> C18-01

C18-01 ---(100%)---> S18-01 ---(100%)---> OUT

P38-00 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P38-03 ---(100%)---> S26-01 ---(100%)---> OUT

P39-01 ---(100%)---> C16-01

C16-01 ---(100%)---> S16-01 ---(100%)---> OUT

DEVICES/PROCESSES DETAILS

B10 **Boiler/Furnace** **Boiler**

DEVICE DESC: BOILER
CONSTR DATE: 01/01/2002
DEVICE COMMENTS: Cleaver Brooks Packaged Boiler.
MAX RATED CAPACITY: 0 MMBTU/HR

B10, Process 01 — **Generic Throughput Process**

PROCESS NAME: NATURAL GAS
SCC CODE: 10200602
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 217 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 20.741 MMCF of Natural Gas
AVG TPUT: .00398 E3 FT3/H
MAX TPUT: 14 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.0002 LB / MMCF	DNR
BARIUM	.0044 LB / MMCF	DNR
BENZENE	.0021 LB / MMCF	DNR
BERYLLIUM	.000012 LB / MMCF	DNR
CADMIUM	.0011 LB / MMCF	DNR
CO	84 LB / MMCF	DNR
COBALT	.000084 LB / MMCF	DNR
MANGANESE	.00038 LB / MMCF	DNR
NICKEL CMP	.0021 LB / MMCF	DNR
NOX	100 LB / MMCF	DNR
PM	7.6 LB / MMCF	DNR
PM10	7.6 LB / MMCF	DNR
ROG	5.5 LB / MMCF	DNR
SO2	.6 LB / MMCF	DNR
VANADIUM	.0023 LB / MMCF	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	1,742.244 LB	1,742.244 LB	
NOX (c)	10000 LB	2,074.100 LB	2,074.100 LB	5.698 LB
PM (c)	10000 LB	157.632 LB	157.632 LB	
PM10 (c)	10000 LB	157.632 LB	157.632 LB	
ROG (c)	6000 LB	114.076 LB	114.076 LB	.313 LB
SO2 (c)	10000 LB	12.445 LB	12.445 LB	
ARSENIC (c) (fs)	.21 LB	.004 LB	.004 LB	
BARIUM (c) (s)	118 LB	.091 LB	.091 LB	
BENZENE (c) (fs)	114 LB	.044 LB	.044 LB	
BERYLLIUM (c) (fs)	.37 LB	.000 LB	.000 LB	
CADMIUM (c) (fs)	.49 LB	.023 LB	.023 LB	
COBALT (c) (fs)	4.71 LB	.002 LB	.002 LB	
MANGANESE (c) (fs)	47.1 LB	.008 LB	.008 LB	
NICKEL CMP (c) (fs)	3.42 LB	.044 LB	.044 LB	
VANADIUM (c) (s)	11.8 LB	.048 LB	.048 LB	

--INCOMING STREAMS--

TPUT --> B10-01

--OUTGOING STREAMS--

B10-01 ---(100%)---> S11-01 ---(100%)---> OUT

C01 **Miscellaneous Device** **Miscellaneous Control**

DEVICE DESC: FIBERIZING AIR IS COLLECTED FROM THE BLOW CHAMBER AND FILTERED EI: #1 DRY FILTER

CONSTR DATE: 01/01/1969

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	0%
PM	0%

C01, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Not in operation

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 0 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--OUTGOING STREAMS--

C01-01 ---(100%)---> S20-01 ---(100%)---> OUT

C03 **Miscellaneous Device** **Miscellaneous Control**

DEVICE DESC: FIBERIZING AIR IS COLLECTED FROM THE BLOW CHAMBER AND IS FILTERED EI: #3 DRY FILTER

CONSTR DATE: 04/01/1988

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	0%
PM	0%

C03, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Operations schedule same as P30-cupola

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 196 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P31-00 (33%) --> C03-01

--OUTGOING STREAMS--

C03-01 ---(100%)---> S21-01 ---(100%)---> OUT

C04 **Miscellaneous Device** **Miscellaneous Control**

DEVICE DESC: FIBERIZING AIR IS COLLECTED FROM THE BLOW CHAMBER AND IS FILTERED. EI: #4 DRY FILTER
CONSTR DATE: 09/01/1993
DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	0%
PM	0%

C04, Process 01 **Used for collectors**

PROCESS NAME:
PROCESS COMMENTS: Operations schedule same as P30-cupola
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 196 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P31-00 (33%) --> C04-01

--OUTGOING STREAMS--

C04-01 ---(100%)---> S22-00 ---(100%)---> OUT

C05 **Fabric Filters** **Filter, Mat or Panel**

DEVICE DESC: #5 DRY FILTER
CONSTR DATE: 11/01/2001
DEVICE COMMENTS: This new filter was added in 2001

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	0%
PM	0%

C05, Process 01 **Used for collectors**

PROCESS NAME:
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 196 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P31-00 (34%) --> C05-01

--OUTGOING STREAMS--

C05-01 ---(100%)---> S24-01 ---(100%)---> OUT

C11 **Catalytic or Thermal Oxidation** **Afterburner**

DEVICE DESC: EXHAUST GASES FROM THE CUPOLA ARE OXIDIZED THROUGH IGNITION. EI: AFTERBURNER (INCINERATOR)

CONSTR DATE: 01/01/1986

DEVICE COMMENTS: EI: Afterburner installed 1986

--CTRL EFFIC--

POLLUTANT	VALUE
HYDROGEN SUL	99.9%
CO	99.7%

C11, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Operations schedule same as P30-cupola

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 207 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P30-02 (100%) --> C11-01
P30-01 (100%) --> C11-01

--OUTGOING STREAMS--

C11-01 ---(100%)---> C12-01

C12-01 ---(100%)---> S12-01 ---(100%)---> OUT

C12 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: PARTICULATES FROM THE CUPOLA OPERATON ARE COLLECTED.11 EI: CUPOLA BAGHOUSE

CONSTR DATE: 01/01/1993

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
COPPER	99%
CADMIUM	99%
PM	99%
COBALT	99%
MANGANESE	99%
NICKEL CMP	99%
VANADIUM	99%
THALLIUM	99%
ANTIMONY	99%
BERYLLIUM	99%
BARIUM	99%
CHROMIUM MET	99%
MERCURY ALL	99%
MOLYBDENUM	99%
SELENIUM	99%
LEAD	99%

C12, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Operations schedule same as P30-cupola

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 196 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

C11-01 (100%) --> C12-01

--OUTGOING STREAMS--

C12-01 ---(100%)---> S12-01 ---(100%)---> OUT

C14 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: PARTICULATES ARE COLLECTED FROM THE LINE 1 FINISHING OPERATON.1111 EI: LINE 1 FINISHING DUST COLLECTOR

CONSTR DATE: 01/01/1986

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%
CARBON BLACK	99%
KAOLIN	99%
TALC NO ASBT	99%
LEAD	99%

C14, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Operations schedule same as P33-finishing line #1

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 110 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P33-00 (100%) --> C14-01
P34-01 (100%) --> C14-01
P38-00 (100%) --> C14-01

--OUTGOING STREAMS--

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

C16 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: PARTICULATE FROM THE MOULDING LINES MOULD CLEANING OPERATONS AND THE i1MOULDING LINE VAC-U-LIFTS ARE COLLECTED. EI: BRUSH HOUSE DUST COLLECTOR

CONSTR DATE: 01/01/1986

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%

C16, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Operations schedule same as B20-boiler

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 217 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P39-01 (100%) --> C16-01

--OUTGOING STREAMS--

C16-01 ---(100%)---> S16-01 ---(100%)---> OUT

C18 **Baghouse/Fabric Filter** **Baghouse**

DEVICE DESC: OVERSPRAY FROM PAINT BOOTH IS COLLECTED WITH TRIM WASTE FROM THE i1FINISHING OPERATON EI: LINE 2 FINISHING DUST COLLECTOR

CONSTR DATE: 09/01/1987

DEVICE COMMENTS:

--CTRL EFFIC--

POLLUTANT	VALUE
PM10	99%
PM	99%
CARBON BLACK	99%
KAOLIN	99%
TALC NO ASBT	99%
LEAD	99%

C18, Process 01 **Used for collectors**

PROCESS NAME:

PROCESS COMMENTS: Operations schedule same as P37-finishing line #2

SCHEDULE: 0 Hrs/Day 0 Dys/Wk 0 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--

P37-01 (100%) --> C18-01

--OUTGOING STREAMS--

C18-01 ---(100%)---> S18-01 ---(100%)---> OUT

P30 **Miscellaneous** **Any Device**

DEVICE DESC: MINERAL WOOL CUPOLA EI: CUPOLA

CONSTR DATE: 01/01/1993

DEVICE COMMENTS:

P30, Process 01 **Generic Throughput Process**

PROCESS NAME: COKE COMBUSTION

SCC CODE: 30501701

PROCESS COMMENTS: Process P30-01 is production of mineral wool through the combustion of coke, slag, and additives. The melted minerals discharge to the blow chamber. Throughput includes coke, slag, silica, brick chips.

SCHEDULE: 24 Hrs/Day 7 Dys/Wk 196 Dys/Yr

QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

ANNUAL TPUT: 43473.9 TON of PRODUCT - MINERALS
AVG TPUT: 9.2419 TON/HR
MAX TPUT: 11.5 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
BARIUM	.79 LB / TON	OTHR
BERYLLIUM	.02 LB / TON	OTHR
CADMIUM	.000431 LB / TON	OTHR
CO	580 LB / TON	OTHR
COBALT	.02 LB / TON	OTHR
MANGANESE	5.17 LB / TON	OTHR
NICKEL CMP	.02 LB / TON	OTHR
NOX	1.6 LB / TON	DNR
PM	.149 LB / TON	OTHR
PM10	.149 LB / TON	OTHR
ROG	.07 LB / TON	DNR
SO2	18.69 LB / TON	DNR
VANADIUM	.06 LB / TON	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	25,214,862.000 LB	75,644.586 LB	
NOX (c)	10000 LB	69,558.240 LB	69,558.240 LB	191.094 LB
PM (c)	10000 LB	6,477.611 LB	64.776 LB	
PM10 (c)	10000 LB	6,477.611 LB	64.776 LB	
ROG (c)	6000 LB	3,043.173 LB	3,043.173 LB	8.360 LB
SO2 (c)	10000 LB	812,527.191 LB	812,527.191 LB	
BARIUM (c) (s)	118 LB	34,344.381 LB	343.444 LB	
BERYLLIUM (c) (fs)	.37 LB	869.478 LB	8.695 LB	
CADMIUM (c) (fs)	.49 LB	18.737 LB	.187 LB	
COBALT (c) (fs)	4.71 LB	869.478 LB	8.695 LB	
MANGANESE (c) (fs)	47.1 LB	224,760.063 LB	2,247.601 LB	
NICKEL CMP (c) (fs)	3.42 LB	869.478 LB	8.695 LB	
VANADIUM (c) (s)	11.8 LB	2,608.434 LB	26.084 LB	

--INCOMING STREAMS--

TPUT --> P30-01

--OUTGOING STREAMS--

P30-01 ---(100%)---> C11-01

C11-01 ---(100%)---> C12-01

C12-01 ---(100%)---> S12-01 ---(100%)---> OUT

P30, Process 02	**Generic Throughput Process**

PROCESS NAME: Natural Gas Combustion
SCC CODE: 30190003
PROCESS COMMENTS: Process P30-02 is the combustion of natural gas for the thermo oxidizer

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	196 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	8.937 MMCF	of Natural Gas		
AVG TPUT:	.0019 E3 FT3/H			
MAX TPUT:	8.2 E3 FT3/H			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.0002 LB / MMCF	DNR
BARIUM	.004 LB / MMCF	DNR
BENZENE	.002 LB / MMCF	DNR
BERYLLIUM	.000012 LB / MMCF	DNR
CADMIUM	.001 LB / MMCF	DNR
CO	84 LB / MMCF	DNR
COBALT	.000084 LB / MMCF	DNR
MANGANESE	.00038 LB / MMCF	DNR
NICKEL CMP	.002 LB / MMCF	DNR
NOX	100 LB / MMCF	DNR
PM	7.6 LB / MMCF	EPA
PM10	7.6 LB / MMCF	DNR
ROG	5.5 LB / MMCF	DNR
SO2	.6 LB / MMCF	DNR
VANADIUM	.002 LB / MMCF	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	750.708 LB	2.252 LB	
NOX (c)	10000 LB	893.700 LB	893.700 LB	2.455 LB
PM (c)	10000 LB	67.921 LB	.679 LB	
PM10 (c)	10000 LB	67.921 LB	.679 LB	
ROG (c)	6000 LB	49.154 LB	49.154 LB	.135 LB
SO2 (c)	10000 LB	5.362 LB	5.362 LB	
ARSENIC (c) (fs)	.21 LB	.002 LB	.002 LB	
BARIUM (c) (s)	118 LB	.036 LB	.000 LB	
BENZENE (c) (fs)	114 LB	.018 LB	.018 LB	
CADMIUM (c) (fs)	.49 LB	.009 LB	.000 LB	
COBALT (c) (fs)	4.71 LB	.001 LB	.000 LB	
MANGANESE (c) (fs)	47.1 LB	.003 LB	.000 LB	
NICKEL CMP (c) (fs)	3.42 LB	.018 LB	.000 LB	
VANADIUM (c) (s)	11.8 LB	.018 LB	.000 LB	

--INCOMING STREAMS--

TPUT --> P30-02

--OUTGOING STREAMS--

P30-02 ---(100%)---> C11-01

C11-01 ---(100%)---> C12-01

C12-01 ---(100%)---> S12-01 ---(100%)---> OUT

P31 **Miscellaneous** **Any Device**

DEVICE DESC: MINERAL WOOL BLOW CHAMBER
EI: BLOW CHAMBER

CONSTR DATE: 01/01/1993

DEVICE COMMENTS: EI: Used for the collection of fiberized mineral wool (slag and additives).

P31, Process 00 **Generic Throughput Process**

PROCESS NAME: MINERAL WOOL COLLECTION

SCC CODE: 30501703

PROCESS COMMENTS: Strictly a collection process.

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	196 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	31261.78 TON	of PRODUCT - MINERALS		
AVG TPUT:	6.64579 TON/HR			
MAX TPUT:	13.5 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	1 LB / TON	OTHR
PM10	1 LB / TON	OTHR
ROG	.9 LB / TON	EPA
SO2	.87 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	31,261.780 LB	31,261.780 LB	
PM10 (c)	10000 LB	31,261.780 LB	31,261.780 LB	
ROG (c)	6000 LB	28,135.602 LB	28,135.602 LB	77.296 LB
SO2 (c)	10000 LB	27,197.749 LB	27,197.749 LB	

--INCOMING STREAMS--

TPUT --> P31-00

--OUTGOING STREAMS--

P31-00 ---(33%)---> C03-01

C03-01 ---(100%)---> S21-01 ---(100%)---> OUT

P31-00 ---(33%)---> C04-01

C04-01 ---(100%)---> S22-00 ---(100%)---> OUT

P31-00 ---(34%)---> C05-01

C05-01 ---(100%)---> S24-01 ---(100%)---> OUT

P32 **Miscellaneous** **Any Device**

DEVICE DESC: #1 KILN EI: LINE 1 DRYING KILN
CONSTR DATE: 01/01/1980
DEVICE COMMENTS:

P32, Process 01	**Generic Throughput Process**			
PROCESS NAME:	DRYING OF CEILING TILE			
SCC CODE:	30500311			
PROCESS COMMENTS:				
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	217 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	88664 TON	of PRODUCT - MINERALS		
AVG TPUT:	17.02458 TON/HR			
MAX TPUT:	20 TON/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.000031 LB / TON	EPA
BENZENE	.0029 LB / TON	EPA
BERYLLIUM	.00000042 LB / TON	EPA
CADMIUM	.000015 LB / TON	EPA
CO	0 LB / TON	DNR
COBALT	.0000021 LB / TON	EPA
MANGANESE	.00029 LB / TON	EPA
NICKEL CMP	.000072 LB / TON	EPA
NOX	0 LB / TON	DNR
PM	0 LB / TON	DNR
PM10	0 LB / TON	DNR
ROG	.27 LB / TON	MSDS
SO2	0 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
ROG (c)	6000 LB	23,939.280 LB	23,939.280 LB	65.767 LB
ARSENIC (c) (fs)	.21 LB	2.749 LB	2.749 LB	
BENZENE (c) (fs)	114 LB	257.126 LB	257.126 LB	
BERYLLIUM (c) (fs)	.37 LB	.037 LB	.037 LB	
CADMIUM (c) (fs)	.49 LB	1.330 LB	1.330 LB	
COBALT (c) (fs)	4.71 LB	.186 LB	.186 LB	
MANGANESE (c) (fs)	47.1 LB	25.713 LB	25.713 LB	
NICKEL CMP (c) (fs)	3.42 LB	6.384 LB	6.384 LB	

--INCOMING STREAMS--

TPUT --> P32-01

--OUTGOING STREAMS--

P32-01 ---(100%)---> S13-01 ---(100%)---> OUT

P32, Process 02	**Generic Throughput Process**
PROCESS NAME:	COMBUSTION OF NATURAL GAS
SCC CODE:	30190003

PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	217 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	207.18 MMCF	of Natural Gas		
AVG TPUT:	.03978 E3 FT3/H			
MAX TPUT:	107.8 E3 FT3/H			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.0002 LB / MMCF	DNR
BARIUM	.0044 LB / MMCF	DNR
BENZENE	.0021 LB / MMCF	DNR
BERYLLIUM	.000012 LB / MMCF	DNR
CADMIUM	.0011 LB / MMCF	DNR
CO	84 LB / MMCF	DNR
COBALT	.000084 LB / MMCF	DNR
MANGANESE	.00038 LB / MMCF	DNR
NICKEL CMP	.0021 LB / MMCF	DNR
NOX	100 LB / MMCF	DNR
PM	7.6 LB / MMCF	DNR
PM10	7.6 LB / MMCF	DNR
ROG	5.5 LB / MMCF	DNR
SO2	.6 LB / MMCF	OTHR
VANADIUM	.0023 LB / MMCF	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	17,403.120 LB	17,403.120 LB	
NOX (c)	10000 LB	20,718.000 LB	20,718.000 LB	56.918 LB
PM (c)	10000 LB	1,574.568 LB	1,574.568 LB	
PM10 (c)	10000 LB	1,574.568 LB	1,574.568 LB	
ROG (c)	6000 LB	1,139.490 LB	1,139.490 LB	3.130 LB
SO2 (c)	10000 LB	124.308 LB	124.308 LB	
ARSENIC (c) (fs)	.21 LB	.041 LB	.041 LB	
BARIUM (c) (s)	118 LB	.912 LB	.912 LB	
BENZENE (c) (fs)	114 LB	.435 LB	.435 LB	
BERYLLIUM (c) (fs)	.37 LB	.002 LB	.002 LB	
CADMIUM (c) (fs)	.49 LB	.228 LB	.228 LB	
COBALT (c) (fs)	4.71 LB	.017 LB	.017 LB	
MANGANESE (c) (fs)	47.1 LB	.079 LB	.079 LB	
NICKEL CMP (c) (fs)	3.42 LB	.435 LB	.435 LB	
VANADIUM (c) (s)	11.8 LB	.477 LB	.477 LB	

--INCOMING STREAMS--

TPUT --> P32-02

--OUTGOING STREAMS--

P32-02 ---(100%)---> S13-01 ---(100%)---> OUT

P33 **Miscellaneous** **Any Device**

DEVICE DESC: ACOUSTONE FINISHING LINE #1
EI: LINE 1 FINISHING
CONSTR DATE: 01/01/1969
DEVICE COMMENTS:

P33, Process 00 **Generic Throughput Process**

PROCESS NAME: THRUPUT
SCC CODE: 30501902
PROCESS COMMENTS: Cutting mineral wool tile with woodworking machinery
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 110 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 23821 TON of PRODUCT - MINERALS
AVG TPUT: 9.02311 TON/HR
MAX TPUT: 11.4 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	.23 LB / TON	DNR
PM10	.23 LB / TON	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	5,478.830 LB	54.788 LB	
PM10 (c)	10000 LB	5,478.830 LB	54.788 LB	

--INCOMING STREAMS--

TPUT --> P33-00

--OUTGOING STREAMS--

P33-00 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P34 **Painting/Coating Equipment** **Surface Coating**

DEVICE DESC: PAINT BOOTH IS USED TO APPLY LATEX BASED PAINT TO THE SURFACE OF ACOUSTICAL CEILING TILE. EI: LINE 1 FINISHING SPRAY BOOTH AND DRYER
CONSTR DATE: 01/01/1987
DEVICE COMMENTS:

P34, Process 01 **Generic Throughput Process**

PROCESS NAME: PAINTING CEILING TILE
SCC CODE: 40200210

PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	5 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	2945 GAL	of Other solvent		
AVG TPUT:	24.54167 GAL/HR			
MAX TPUT:	90 GAL/HR			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
KAOLIN	.35 LB / GAL	MSDS
PM	.02 LB / GAL	OTHR
PM10	.02 LB / GAL	OTHR
ROG	.0325 LB / GAL	OTHR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	58.900 LB	.589 LB	
PM10 (c)	10000 LB	58.900 LB	.589 LB	
ROG (c)	6000 LB	95.713 LB	95.713 LB	.263 LB
KAOLIN (c) (s)	471 LB	1,030.750 LB	10.308 LB	

--INCOMING STREAMS--

TPUT --> P34-01

--OUTGOING STREAMS--

P34-01 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P34, Process 03 | **Generic Throughput Process**

PROCESS NAME: COMBUSTION OF NATURAL GAS
SCC CODE: 40200210
PROCESS COMMENTS:

SCHEDULE:	24 Hrs/Day	7 Dys/Wk	5 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT:	.033 MMCF	of Other solvent		
AVG TPUT:	.275 E3 FT3/H			
MAX TPUT:	1.2 E3 FT3/H			

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
ARSENIC	.0002 LB / MMCF	DNR
BARIUM	.0044 LB / MMCF	DNR
BENZENE	.0021 LB / MMCF	DNR
BERYLLIUM	.000012 LB / MMCF	DNR
CADMIUM	.0011 LB / MMCF	DNR
CO	84 LB / MMCF	DNR
KAOLIN	.00038 LB / MMCF	DNR
MANGANESE	.00038 LB / MMCF	DNR
NICKEL CMP	.0021 LB / MMCF	DNR
NOX	100 LB / MMCF	DNR
PM	7.6 LB / MMCF	DNR

PM10	7.6 LB / MMCF	DNR
ROG	5.5 LB / MMCF	DNR
SO2	.6 LB / MMCF	DNR
VANADIUM	.0023 LB / MMCF	DNR

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
CO (c)	10000 LB	2.772 LB	2.772 LB	
NOX (c)	10000 LB	3.300 LB	3.300 LB	.009 LB
PM (c)	10000 LB	.251 LB	.251 LB	
PM10 (c)	10000 LB	.251 LB	.251 LB	
ROG (c)	6000 LB	.182 LB	.182 LB	.001 LB
SO2 (c)	10000 LB	.020 LB	.020 LB	
ARSENIC (c) (fs)	.21 LB	.000 LB	.000 LB	
BARIUM (c) (s)	118 LB	.000 LB	.000 LB	
BENZENE (c) (fs)	114 LB	.000 LB	.000 LB	
CADMIUM (c) (fs)	.49 LB	.000 LB	.000 LB	
KAOLIN (c) (s)	471 LB	.000 LB	.000 LB	
MANGANESE (c) (fs)	47.1 LB	.000 LB	.000 LB	
NICKEL CMP (c) (fs)	3.42 LB	.000 LB	.000 LB	
VANADIUM (c) (s)	11.8 LB	.000 LB	.000 LB	

--INCOMING STREAMS--

TPUT --> P34-03

--OUTGOING STREAMS--

P34-03 ---(100%)---> S25-01 ---(100%)---> OUT

P37 **Miscellaneous** **Any Device**

DEVICE DESC: #2 ACOUSTONE FINISHING LINE
EI: LINE 2 FINISHING
CONSTR DATE: 06/07/1987
DEVICE COMMENTS:

P37, Process 01 **Generic Throughput Process**

PROCESS NAME: THRUPUT
SCC CODE: 30501902
PROCESS COMMENTS: Cutting ceiling tile with woodworking machinery
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 0 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 0 TON of PRODUCT - MINERALS
AVG TPUT: 0 TON/HR
MAX TPUT: 8.53 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	1.5 LB / TON	EPA
PM10	.93 LB / TON	EPA

--INCOMING STREAMS--

TPUT --> P37-01

--OUTGOING STREAMS--

P37-01 ---(100%)---> C18-01

C18-01 ---(100%)---> S18-01 ---(100%)---> OUT

P38 **Painting/Coating Equipment** **Surface Coating**

DEVICE DESC: SPRAY BOOTH PAINTS ACOUSTICAL TILE WITH LATEX PAINT. EI: LINE 2 FINISHING SPRAY BOOTH AND DRYER
CONSTR DATE: 01/01/1987
DEVICE COMMENTS:

P38, Process 00 **Generic Throughput Process**

PROCESS NAME: THRUPUT
SCC CODE: 40200210
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 104 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 187598 GAL of Other solvent
AVG TPUT: 75.15946 GAL/HR
MAX TPUT: 90 GAL/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
KAOLIN	.35 LB / GAL	MSDS
PM	.004 LB / GAL	OTHR
PM10	.004 LB / GAL	OTHR
ROG	.0325 LB / GAL	MSDS

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	750.392 LB	7.504 LB	
PM10 (c)	10000 LB	750.392 LB	7.504 LB	
ROG (c)	6000 LB	6,096.935 LB	6,096.935 LB	16.750 LB
KAOLIN (c) (s)	471 LB	65,659.300 LB	656.593 LB	

--INCOMING STREAMS--

TPUT --> P38-00

--OUTGOING STREAMS--

P38-00 ---(100%)---> C14-01

C14-01 ---(100%)---> S14-01 ---(100%)---> OUT

P38, Process 03 — **Generic Throughput Process**

PROCESS NAME: COMBUSTION OF NATURAL GAS
SCC CODE: 40200210
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day | 7 Dys/Wk | 104 Dys/Yr
QTRLY SCHEDULE: Q1: 25% | Q2: 25% | Q3: 25% | Q4: 25%
ANNUAL TPUT: 2.07 MMCF of Other solvent
AVG TPUT: .00083 E3 FT3/H
MAX TPUT: 1.2 E3 FT3/H

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
BERYLLIUM	.000012 LB / MMCF	DNR
COBALT	.000084 LB / MMCF	DNR
KAOLIN	.00038 LB / MMCF	DNR
NICKEL CMP	.0021 LB / MMCF	DNR
PM	7.6 LB / MMCF	DNR
PM10	5.5 LB / MMCF	DNR
ROG	5.5 LB / MMCF	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	15.732 LB	15.732 LB	
PM10 (c)	10000 LB	11.385 LB	11.385 LB	
ROG (c)	6000 LB	11.385 LB	11.385 LB	.031 LB
BERYLLIUM (c) (fs)	.37 LB	.000 LB	.000 LB	
COBALT (c) (fs)	4.71 LB	.000 LB	.000 LB	
KAOLIN (c) (s)	471 LB	.001 LB	.001 LB	
NICKEL CMP (c) (fs)	3.42 LB	.004 LB	.004 LB	

--INCOMING STREAMS--
TPUT --> P38-03

--OUTGOING STREAMS--

P38-03 ---(100%)---> S26-01 ---(100%)---> OUT

P39 **Miscellaneous** **Any Device**
DEVICE DESC: MOULD CLEANING BRUSHES & VACU-LIFT - LINE 1 EI: LINE 1 MOULDING BRUSH HOUSE
CONSTR DATE: 06/02/1987
DEVICE COMMENTS: EI: Mechanical Cleaning Device

P39, Process 01 **Generic Throughput Process**

PROCESS NAME: #1 Moulding Brush House
SCC CODE: 30501902
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 217 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%
ANNUAL TPUT: 474.58 TON of PRODUCT - MINERALS
AVG TPUT: .09113 TON/HR
MAX TPUT: .31 TON/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
PM	1.5 LB / TON	EPA
PM10	.93 LB / TON	EPA

--EMISSIONS / YR--

POLLUTANT	NR438_THRESH	UNCNTRLD	CNTRLD	OZONE/DY
PM (c)	10000 LB	711.870 LB	7.119 LB	
PM10 (c)	10000 LB	441.359 LB	4.414 LB	

--INCOMING STREAMS--
TPUT --> P39-01

--OUTGOING STREAMS--

P39-01 ---(100%)---> C16-01

C16-01 ---(100%)---> S16-01 ---(100%)---> OUT

S11	Stack	Stack	
DEVICE DESC:	Stack S11 was previously used to identify the stack associated with the previous boiler, B20. EI: BOILER STACK		
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	9.44 m		or 30.97 ft
STACK DIAMETER:	.5 m		or 1.64 ft
STACK TEMP:	477.5 K		or 399.83 F
STACK VELOCITY:	7.21 m/s		or 23.65 ft/s

S11, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operation schedule same as Boiler (B10)			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	217 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

B10-01 (100%) --> S11-01

--OUTGOING STREAMS--

S11-01 (100%) --> OUT

S12 **Stack** **Stack**

DEVICE DESC:
CONSTR DATE:
DEVICE COMMENTS:
STACK HEIGHT: 20.9 m or 68.57 ft
STACK DIAMETER: .91 m or 2.99 ft
STACK TEMP: 421.9 K or 299.75 F
STACK VELOCITY: 14.4 m/s or 47.24 ft/s

S12, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME:
PROCESS COMMENTS: Operation schedule same as Cupola
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 196 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
C12-01 (100%) --> S12-01

--OUTGOING STREAMS--

S12-01 (100%) --> OUT

S13 **Stack** **Stack**

DEVICE DESC:
CONSTR DATE: 01/01/1956
DEVICE COMMENTS:
STACK HEIGHT: 8.53 m or 27.99 ft
STACK DIAMETER: 2.05 m or 6.73 ft
STACK TEMP: 455.3 K or 359.87 F
STACK VELOCITY: 8.58 m/s or 28.15 ft/s

S13, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME:
PROCESS COMMENTS: Operation Schedule same as No. 1 Drying Kiln (P32)
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 217 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P32-02 (100%) --> S13-01
P32-01 (100%) --> S13-01

--OUTGOING STREAMS--

S13-01 (100%) --> OUT

S14	Stack	Stack	
DEVICE DESC:			
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	14 m		or 45.93 ft
STACK DIAMETER:	.83 m		or 2.72 ft
STACK TEMP:	302.4 K		or 84.65 F
STACK VELOCITY:	21 m/s		or 68.9 ft/s

S14, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operation Schedule same as No. 1 Finishing (Dimensioning) (P33)			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	110 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C14-01 (100%) --> S14-01

--OUTGOING STREAMS--

S14-01 (100%) --> OUT

S16	Stack	Stack	
DEVICE DESC:			
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	12.2 m		or 40.03 ft
STACK DIAMETER:	.59 m		or 1.94 ft
STACK TEMP:	299.7 K		or 79.79 F
STACK VELOCITY:	15.5 m/s		or 50.85 ft/s

S16, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	This stack controls Process (P39); this process uses controlled emission factors. In the past, this stack also controlled Process (P35), but this process has been decommissioned			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	217 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C16-01 (100%) --> S16-01

--OUTGOING STREAMS--

S16-01 (100%) --> OUT

S17	Stack	Stack	
DEVICE DESC:			
CONSTR DATE:	01/01/1987		
DEVICE COMMENTS:			
STACK HEIGHT:	12.49 m		or 40.98 ft
STACK DIAMETER:	1.52 m		or 4.99 ft
STACK TEMP:	410.9 K		or 279.95 F
STACK VELOCITY:	10.4 m/s		or 34.12 ft/s

S17, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operating schedule same as No. 2 Drying Kiln (P36); Process (P36) has been decommissioned and had no production in 2014			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--OUTGOING STREAMS--

S17-01 (100%) --> OUT

S18	Stack	Stack	
DEVICE DESC:			
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	14 m		or 45.93 ft
STACK DIAMETER:	.85 m		or 2.79 ft
STACK TEMP:	302.4 K		or 84.65 F
STACK VELOCITY:	15.3 m/s		or 50.2 ft/s

S18, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operating Schedule same as No. 2 Finishing-Dimensioning (P37). Process (P37) has been decommissioned and did not run in 2014			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C18-01 (100%) --> S18-01

--OUTGOING STREAMS--

S18-01 (100%) --> OUT

S20	Stack	Stack	
DEVICE DESC:	S20, S21, S22 & S24 are interdependant; all stacks cannot operate at maximum flowrate simultaneously. Maximum combined flowrate is 160,000 ACFM. EI: STACK FOR #1 DRY FILTER		
CONSTR DATE:	12/01/1999		
DEVICE COMMENTS:			
STACK HEIGHT:	13.41 m		or 44 ft
STACK DIAMETER:	1.78 m		or 5.84 ft
STACK TEMP:	352.4 K		or 174.65 F
STACK VELOCITY:	6.9 m/s		or 22.64 ft/s

S20, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operating Schedule same as Blow Chamber (P31). No. 1 dry filter has been decomissioned and this stack is no longer in operation			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	0 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C01-01 (100%) --> S20-01

--OUTGOING STREAMS--

S20-01 (100%) --> OUT

S21	Stack	Stack	
DEVICE DESC:	S20, S21, S22 & S24 are interdependant; all stacks cannot operate at maximum flowrate simultaneously. Maximum combined flowrate is 160,000 ACFM. EI: STACK FOR 3 DRY FILTER		
CONSTR DATE:			
DEVICE COMMENTS:			
STACK HEIGHT:	15.5 m		or 50.85 ft
STACK DIAMETER:	1.34 m		or 4.4 ft
STACK TEMP:	352.4 K		or 174.65 F
STACK VELOCITY:	20 m/s		or 65.62 ft/s

S21, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operating Schedule same as Blow Chamber (P31)			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	196 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C03-01 (100%) --> S21-01

--OUTGOING STREAMS--

S21-01 (100%) --> OUT

S22	Stack	Stack	
DEVICE DESC:	S20, S21, S22 & S24 are interdependant; all stacks cannot operate at maximum flowrate simultaneously. Maximum combined flowrate is 160,000 ACFM. EI: STACK FOR #4 DRY FILTER		
CONSTR DATE:	01/20/1993		
DEVICE COMMENTS:			
STACK HEIGHT:	16.8 m		or 55.12 ft
STACK DIAMETER:	1.34 m		or 4.4 ft
STACK TEMP:	352.4 K		or 174.65 F
STACK VELOCITY:	12 m/s		or 39.37 ft/s

S22, Process 00	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operating Schedule same as Blow Chamber (P31)			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	196 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C04-01 (100%) --> S22-00

--OUTGOING STREAMS--

S22-00 (100%) --> OUT

S24	Stack	Stack	
DEVICE DESC:	S20, S21, S22 & S24 are interdependant; all stacks cannot operate at maximum flowrate simultaneously. Maximum combined flowrate is 160,000 ACFM. EI: STACK FOR #5 DRY FILTER		
CONSTR DATE:	11/01/2001		
DEVICE COMMENTS:	EI: This stack was added in 2001		
STACK HEIGHT:	15.2 m		or 49.87 ft
STACK DIAMETER:	1.68 m		or 5.51 ft
STACK TEMP:	352.4 K		or 174.65 F
STACK VELOCITY:	12.9 m/s		or 42.32 ft/s

S24, Process 01	Releasing/Discharging material to the atmosphere			
PROCESS NAME:				
PROCESS COMMENTS:	Operating Schedule same as Blow Chamber (P31)			
SCHEDULE:	24 Hrs/Day	7 Dys/Wk	196 Dys/Yr	
QTRLY SCHEDULE:	Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%

--INCOMING STREAMS--

C05-01 (100%) --> S24-01

--OUTGOING STREAMS--

S24-01 (100%) --> OUT

S25 **Stack** **Stack**

DEVICE DESC: for #1 paint drying oven EI: LINE 1 FINISHING PAINT OVEN STACK
CONSTR DATE: 01/01/2002
DEVICE COMMENTS:
STACK HEIGHT: 7.62 m or 25 ft
STACK DIAMETER: .61 m or 2 ft
STACK TEMP: 477 K or 398.93 F
STACK VELOCITY: 3.23 m/s or 10.6 ft/s

S25, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME:
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 5 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P34-03 (100%) --> S25-01

--OUTGOING STREAMS--

S25-01 (100%) --> OUT

S26 **Stack** **Stack**

DEVICE DESC: for #2 paint drying oven EI: LINE 2 FINISHING PAINT OVEN STACK
CONSTR DATE: 01/01/2002
DEVICE COMMENTS:
STACK HEIGHT: 7.62 m or 25 ft
STACK DIAMETER: .61 m or 2 ft
STACK TEMP: 477 K or 398.93 F
STACK VELOCITY: 3.23 m/s or 10.6 ft/s

S26, Process 01 **Releasing/Discharging material to the atmosphere**

PROCESS NAME:
PROCESS COMMENTS:
SCHEDULE: 24 Hrs/Day 7 Dys/Wk 104 Dys/Yr
QTRLY SCHEDULE: Q1: 25% Q2: 25% Q3: 25% Q4: 25%

--INCOMING STREAMS--
P38-03 (100%) --> S26-01

--OUTGOING STREAMS--

S26-01 (100%) --> OUT

FACILITY EMISSIONS SUMMARY

-2014 SUMMARY-	--2014--	--2014--	--2014--	--2014--
--POLLUTANT--	--NR438_THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
CO	10000 LB	25,234,760.84400 LB	94,794.97412 LB	
NOX	10000 LB	93,247.34000 LB	93,247.34000 LB	256.17402 LB
PM	10000 LB	46,555.48670 LB	33,145.41764 LB	
PM10	10000 LB	46,280.62910 LB	33,138.36553 LB	
ROG	6000 LB	62,624.98800 LB	62,624.98800 LB	172.04668 LB
SO2	10000 LB	839,867.07420 LB	839,867.07420 LB	
ARSENIC (fs)	.21 LB	2.79597 LB	2.79597 LB	
BARIUM (s)	118 LB	34,345.41975 LB	344.44717 LB	
BENZENE (fs)	114 LB	257.62218 LB	257.62218 LB	
BERYLLIUM (fs)	.37 LB	869.51811 LB	8.73478 LB	
CADMIUM (fs)	.49 LB	20.32691 LB	1.76818 LB	
COBALT (fs)	4.71 LB	869.68425 LB	8.90029 LB	
KAOLIN (s)	471 LB	66,690.05080 LB	666.90130 LB	
MANGANESE (fs)	47.1 LB	224,785.86558 LB	2,273.39984 LB	
NICKEL CMP (fs)	3.42 LB	876.36274 LB	15.56183 LB	
VANADIUM (s)	11.8 LB	2,608.97616 LB	26.60881 LB	

-2013 SUMMARY-	--2013--	--2013--	--2013--	--2013--
--POLLUTANT--	--NR438_THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
CO	10000 LB	23,566,395.71160 LB	95,120.93304 LB	
NOX	10000 LB	95,153.72600 LB	95,153.72600 LB	261.41134 LB
PM	10000 LB	91,028.57588 LB	73,245.48997 LB	
PM10	10000 LB	90,731.88518 LB	73,242.52306 LB	
ROG	6000 LB	63,900.30415 LB	63,900.30415 LB	175.55029 LB
SO2	10000 LB	787,880.62434 LB	787,880.62434 LB	
ARSENIC(FS)	.21 LB	2.54259 LB	2.54259 LB	
BARIUM(S)	118 LB	32,065.81356 LB	321.92838 LB	
BENZENE(FS)	114 LB	232.83642 LB	232.83642 LB	
BERYLLIUM(FS)	.37 LB	811.79645 LB	8.15471 LB	
CADMIUM(FS)	.49 LB	19.02575 LB	1.69686 LB	
COBALT(FS)	4.71 LB	811.95251 LB	8.31003 LB	
FLUORIDE(S)	588 LB	47,241.30000 LB	47,241.30000 LB	
KAOLIN(S)	471 LB	82,687.85095 LB	826.87945 LB	
MANGANESE(FS)	47.1 LB	209,863.08831 LB	2,121.72868 LB	
NICKEL CMP(FS)	3.42 LB	818.15766 LB	14.49522 LB	
VANADIUM(S)	11.8 LB	2,435.96934 LB	25.02369 LB	

REPORT LEGEND

--EMISSIONS--

c = Calculated; r = Reported

f = Federal Hap; s = State Hap; fs = Fed and State Hap