TEST #6

Unit 2 - Turbine Tests

5/14/87 Thurs. 830-1030

860 MWg/VWO

IP14_006207

FLOW 6228.7 TE XH PRESS 3.60 EXH CORR
2.2

TEST POINT 6 5-17-87 12:00PM

TEST LOAD 859887. TEST HR 7854.6

GROUP 1 CORRECTIONS

	DESIGN	TEST	HR	LOAD
TD(F)	-2.00	-0.20	1.0002	1.0018
EXTR DP(%)	3.00	1.19	0.9997	0.9977
AUX EXT(%)	4.09	4.08	0.9986	1.0014
MSD(#/HR)	0.0	0.	1.0000	1.0000
APH(%)	2.30	1.61	0.9963	1.0037
RHD(#/HR)	0.0	0.	1.0000	1.0000
COND SC(F)	0.0	0.46	1.0000	1.0000
COMBINED FACTOR			0.9949	1.0046

GROUP 2 CORRECTIONS

	DESIGN	TEST	HR	LOAD
PT(PSIA)	2412.20	2394.20	1.0005	0.9927
TT(F)	1000.00	996.50	1.0008	1.0004
THR(F)	1000.00	1003.10	0.9996	1.0015
DP RH(%)	10.00	7.68	0.9977	1.0061
P EXH(HG)	2.30	3.60	1.0219	0.9786
COMBINED FACTOR			1.0201	0.9790

CORR LOAD 874276. CORR HR 7739.3

*

ELECTRICAL LOAD

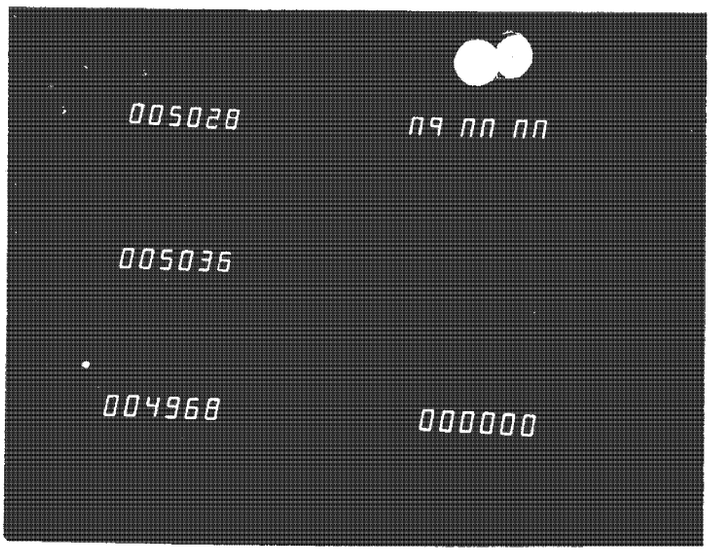
INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

MEASUREMENT (CONTROL ROOM)

TEST POINT # 6 - VWO
LOAD MWg 860 MWg /
DATE 5/14/87
NAME ~~[illegible]~~ | Reece

TIME HR/MIN/SEC	COUNTS A PHASE	COUNTS B PHASE	COUNTS C PHASE
8:30:00	0	0	0
8:45:	00 2516	15 2560	30 2567
9:00:00	5029	5036	4968
9:15:	00 7538	15 7588	30 7528
9:30:00	10052	10058	9922
9:45:	00 12564	15 6 12[illegible]12	30 12484
10:00:00	15077	15080	14879
10:15:	00 17578	15 17626	30 17432
10:30	20093	20088	19818

NOTE: TAKE PICTURES OF ELECTRICAL LOAD EVERY 15 MINUTES. RECORD VALUES FROM PICTURES TO THIS DATA SHEET.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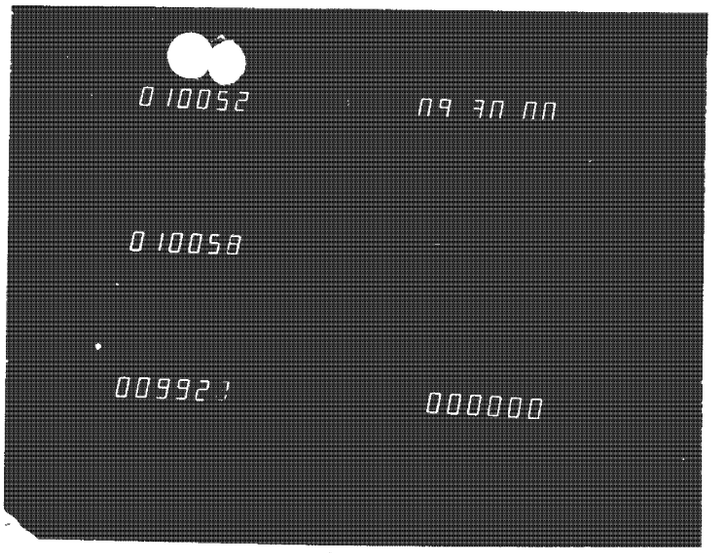
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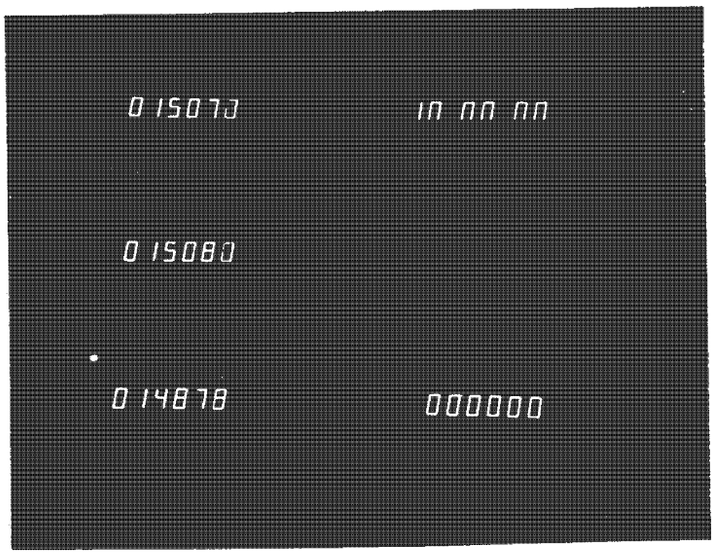
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INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE Z70T151

Test Point # 6
MW g
Date 5-14-87
Observer L LEWIS

CONDENSER HOT WELL LEVEL \ MEASUREMENT

TIME	C HOOD LEVEL	B HOOD LEVEL	A HOOD LEVEL
0830	13	11 7/8	
0845	12 3/4	11 5/8	
0900	12 3/4	11 1/2	
0915	12 5/8	11 3/8	
0930	12 9/16	11 1/4	
0945	12 3/8	11 1/8	
1000	12 3/8	11 1/8	
1015	12 1/8	10 7/8	
1030	12 1/8	10 7/8	

NOTE: READ HOT WELL LEVELS LOCALLY OF EACH CONDENSER EVERY 15 MINUETES.

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

Test Point # 6
MW g
Date 5-14-87
Observer B. Warner

DEARRATOR LEVEL

TIME	LEVEL Low	LEVEL HIGH
0830	8.75	10.00
0845	9.00	10.50
0900	8.25	10.50
0915	8.50	10.75
0930	8.50	10.25
0945	9.25	10.25
1000	9.00	10.00
1015	8.75	10.25
1030	8.50	11.00

NOTE: READ DEARRATOR LEVEL LOCALLY EVERY 15 MINUTES.

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE Z70T151

Test Point # 6
MW g
Date 5-14-87
Observer B Warner

STEAM PACKING EXH DRAIN FLOW

TIME	TIME INCREMENT
0812	2:59.55
0820	2:58.20
1040	2:57.52
1050	2:57.70

Start recording time at low mark.
Stop recording at upper mark.

Distance between upper and lower marks. _____ (in)

Diameter of barrel. _____ (in)

NOTE: One half hour prior to each test take 2 sets of readings, and 2 sets of readings after the test. Do not measure during the test.

EQUIPMENT: STOPWATCH/BARREL/SUMP PUMP/EXTENSION CORD.

temp 145°

Test PT6.
5/14/87
Stopped. 10:33.

1428056
0000000
0904615
71982
1258750
0000000
0795374
63292
1082505
0000000
0682460
54290
0910840
0000000
0569454
45285
0734387
0000000
0456375
36280
0556176
0000000
0343220
27275
0353525
0000000
0228905
18262
0175820
0000000
0115830
09235

STARTED 8:33

5/14/87 Test #6 VWO 860 MW

Time	Atmospheric Pressure, in Hg a	Ambient Temp, F
8:34	25.46	72
9:33	25.48	72
10:32	25.47	72

5/14/87 Test #6 VWO 860 MW

BOILER FEED PUMP TURBINES

	BFPT 1A			BFPT 1B		
Time	Speed	Torque	HP	Speed	Torque	HP
8:32	5312	12,420	12,550	5356	12,970	13,220
8:47	5231	12,130	12,160	5346	12,930	13,160
9:03	5284	12,240	12,590	5353	12,950	13,200
9:17	5267	12,160	12,190	5330	12,840	13,040
9:33	5285	12,260	12,330	5350	12,950	13,190
9:47	5300	12,340	12,450	5355	12,970	13,230
10:07	5288	12,260	12,330	5357	13,000	13,260
10:17	5276	12,200	12,260	5343	12,910	13,130
10:31	5273	12,200	12,260	5348	12,930	13,170

5/14/87 Test #6 VWO

LAB Flow

Sample # 2 Condensate Pump discharge 1l/16.24sec + 1l/40.38sec

Sample #10 DEA 100 ml/42.76 sec + 1l/1min 3.8 sec + 150ml/min

Sample # 12 Boiler Water 1l / 1 min 12.28 sec

pump stroke ammonia 23
hydrazine 17

took sample # 10 out and put sample # 8 in

5/14

Test # 5

0400 hr. 2G

0500 hr. 2H

5/14

Test # 6

0900 hr. 2C

1000 hr. 2B

COAL SAMPLES

Test # 6

INTERMOUNTAIN POWER SERVICE CORPORATION

AS FIRED COAL SAMPLER

DATE: 5-15-87

LAB NO: 3139

IDENTIFICATION: feeder sample 2B, 2C

DATE SAMPLED: 5-14-87

TIME COLLECTED: see comments

SHORT PROXIMATE ANALYSIS

	AS RECEIVED	DRY BASIS
% TOTAL MOISTURE	6.64	XXXX
% ASH	8.60	9.21
% SULFUR	0.51	0.55
BTU/LB	12238	13108

MOISTURE ASH FREE BTU 14438

% RESIDUAL MOISTURE = 2.21

ANALYST: LS

COMMENTS: feeder 2C - 0900 hrs test 2
2B 1000 hrs " 2

cc: [redacted]
AARON NISSEN
[redacted]

IP14_006219

[redacted] SOFTWARE LOCK 05/14/87 08:35:12 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	862.	MW	UNIT LOAD		
APEKY0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005D	45.63	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6158.	KPPH	STEAM FLOW (FW + SSP)		
COAXI015A	998.	DEGF	THROTTLE TEMP		
SGGTE0004	999.	DEGF	MAIN STEAM LINE T		
COAXI012A	2411.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2409.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1004.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1005.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	517.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	521.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6158.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6106.	KPPH	BOILER FEEDWATER F		
COAXI001A	314.5	TPH	TOTAL FUEL FLOW		
COAXI080A	4.3	PCT	WEST FLUE GAS O2		
COAXI079A	4.7	PCT	EAST FLUE GAS O2		
COAXI083A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.5	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006220

UNDER SOFTWARE LOCK 05/14/87 08:35:27 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI118A	2.6	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	385.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0087	.476	LB/MB	STACK NOX CONVERTED		
SAAKK0082	451.	PPM	SCRUB INLET SO2		
SAAKK0084	27.9	PPM	STACK SO2		
HRCTE0377	85.	DEGF	IP COND 1B INLET T		
HRCTE0378	86.	DEGF	IP COND 1B INLET T		
HRCTE0379	86.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	86.	DEGF	LP COND 1C WEST INLET T		
HRCTE0393	119.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	116.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	117.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	118.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	91.8	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006221

UNDER SOFTWARE LOCK 05/14/87 08:47:53 PT-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	859.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	44.81	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6148.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1001.	DEGF	THROTTLE TEMP		
SGGTE0004	1008.	DEGF	MAIN STEAM LINE T		
COAXI012A	2404.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2405.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1004.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1006.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	515.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	518.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6148.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6082.	KPPH	BOILER FEEDWATER F		
COAXI001A	314.5	TPH	TOTAL FUEL FLOW		
COAXI080A	4.5	PCT	WEST FLUE GAS O2		
COAXI079A	4.4	PCT	EAST FLUE GAS O2		
COAXI003A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.5	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING DESK1

IP14_006222

UNDER SOFTWARE LOCK 05/14/87 08:47:40 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.6	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	306.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.485	LB/MB	STACK NOX CONVERTED		
SAAKK0002	452.	PPM	SCRUB INLET SO2		
SAAKK0004	27.9	PPM	STACK SO2		
HRCTE0377	86.	DEGF	IP COND 1B INLET T		
HRCTE0378	86.	DEGF	IP COND 1B INLET T		
HRCTE0379	86.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	86.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	119.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	116.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	117.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	118.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	92.3	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006223

UNDER SOFTWARE LOCK 05/14/87 09:04:49 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	860.	MW	UNIT LOAD		
APEKY0005	[illegible]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	45.59	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6144.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	996.	DEGF	THROTTLE TEMP		
SGGTE0004	995.	DEGF	MAIN STEAM LINE T		
COAXI012A	2406.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2406.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1002.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1003.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	518.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	521.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6144.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6102.	KPPH	BOILER FEEDWATER F		
COAXI001A	313.9	TPH	TOTAL FUEL FLOW		
COAXI080A	4.8	PCT	WEST FLUE GAS O2		
COAXI079A	4.3	PCT	EAST FLUE GAS O2		
COAXI003A	-.6	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PRE[illegible]		

FORWARD PAGING DESK1

IP14_006224

UNDER SOFTWARE LOCK 05/14/87 09:05:07 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.6	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	388.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.485	LB/MB	STACK NOX CONVERTED		
SAAKK0002	425.	PPM	SCRUB INLET SO2		
SAAKK0004	29.9	PPM	STACK SO2		
HRCTE0377	86.	DEGF	IP COND 1B INLET T		
HRCTE0378	86.	DEGF	IP COND 1B INLET T		
HRCTE0379	86.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	86.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	119.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	116.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	117.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	118.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	91.8	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006225

UNDER SOFTWARE LOCK 05/14/87 09:19:13 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXT027A	838.	MW	UNIT LOAD		
APEKV0085	[illegible]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0085B	45.35	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6143.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	999.	DEGF	THROTTLE TEMP		
SGGTE0004	999.	DEGF	MAIN STEAM LINE T		
COAXI012A	2405.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2406.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1002.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1004.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	516.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	518.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6148.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6084.	KPPH	BOILER FEEDWATER F		
COAXI001A	313.6	TPH	TOTAL FUEL FLOW		
COAXI080A	4.5	PCT	WEST FLUE GAS O2		
COAXI079A	4.4	PCT	EAST FLUE GAS O2		
COAXI083A	-.7	INWC	FURNACE PRESS		
SGAPT0171	-1.0	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006226

UNDER SOFTWARE LOCK 05/14/87 09:19:27 F1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.6	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	368.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.481	LB/MB	STACK NOX CONVERTED		
SAAKK0002	456.	PPM	SCRUB INLET SO2		
SAAKK0004	27.9	PPM	STACK SO2		
HRCTE0377	86.	DEGF	IP COND 1B INLET T		
HRCTE0378	86.	DEGF	IP COND 1B INLET T		
HRCTE0379	86.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	86.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	119.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	116.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	117.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	118.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	92.0	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006227

UNDER SOFTWARE LOCK [redacted] 05/14/87 09:34:02 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	860.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	44.75	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6164.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	998.	DEGF	THROTTLE TEMP		
SGGTE0004	997.	DEGF	MAIN STEAM LINE T		
COAXI012A	2409.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2409.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1003.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1004.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	518.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	520.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6164.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6113.	KPPH	BOILER FEEDWATER F		
COAXI001A	313.6	TPH	TOTAL FUEL FLOW		
COAXI080A	4.7	PCT	WEST FLUE GAS O2		
COAXI079A	4.4	PCT	EAST FLUE GAS O2		
COAXI083A	-.6	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING [redacted]

IP14_006228

UNDER SOFTWARE LOCK 05/19/87 09:33:40 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI1190	2.7	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	309.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.479	LB/MB	STACK NOX CONVERTED		
SAAKK0002	460.	PPM	SCRUB INLET SO2		
SAAKK0004	27.9	PPM	STACK SO2		
HRCTE0377	86.	DEGF	IP COND 1B INLET T		
HRCTE0378	86.	DEGF	IP COND 1B INLET T		
HRCTE0379	87.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	86.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	120.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	116.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	118.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	118.	DEGF	HP COND 1A EAST OUTLET T		
COAXI0780	91.4	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006229

UNDER SOFTWARE LOCK 05/14/87 09:48:13 F1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
XI027A	857.	MW	UNIT LOAD		
KV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
K0005B	44.74	MW	TOTAL AUX POWER (ANALOG)		
I023A	6179.	KPPH	STEAM FLOW (FW + SSF)		
015A	996.	DEGF	THROTTLE TEMP		
0004	996.	DEGF	MAIN STEAM LINE T		
12A	2400.	PSIG	TURBINE THROTTLE PRESS		
01	2406.	PSIG	MAIN STEAM LINE PR		
3	1001.	DEGF	TURBINE N HOT REHEAT INLET T		
5	1002.	DEGF	TURBINE S HOT REHEAT INLET T		
	516.	PSIG	TURBINE N HOT REHEAT INLET PR		
	518.	PSIG	TURBINE S HOT REHEAT INLET PR		
	6179.	KPPH	FDW FLOW TO ECONOMIZER		
	6128.	KPPH	BOILER FEEDWATER F		
	313.3	TPH	TOTAL FUEL FLOW		
	4.7	PCT	WEST FLUE GAS O2		
	4.1	PCT	EAST FLUE GAS O2		
	-.5	INWC	FURNACE PRESS		
	-.4	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006230

UNDER [redacted] 05/14/87 09:49:35 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.7	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[redacted]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	310.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.478	LB/MB	STACK NOX CONVERTED		
SAAKK0002	437.	PPM	SCRUB INLET SO2		
SAAKK0004	38.9	PPM	STACK SO2		
HRCTE0377	87.	DEGF	IP COND 1B INLET T		
HRCTE0378	87.	DEGF	IP COND 1B INLET T		
HRCTE0379	87.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	87.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	120.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	117.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	118.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	119.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	91.7	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006231

UNDER SOFTWARE LOCK 05/14/87 10:04:15 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXT027A	856.	MW	UNIT LOAD		
APEKV0005	[illegible]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	45.52	MW	TOTAL AUX POWER (ANALOG)		
COAXT023A	6165.	KPPH	STEAM FLOW (FW + SSP)		
COAXT015A	995.	DEGF	THROTTLE TEMP		
SGGTE0004	995.	DEGF	MAIN STEAM LINE T		
COAXT012A	2402.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2403.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1001.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1001.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	516.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	520.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXT021A	6165.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6077.	KPPH	BOILER FEEDWATER F		
COAXT001A	314.1	TPH	TOTAL FUEL FLOW		
COAXT080A	4.6	PCT	WEST FLUE GAS O2		
COAXT079A	4.8	PCT	EAST FLUE GAS O2		
COAXT083A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.5	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING DESK1

IP14_006232

UNDER SOFTWARE LOCK 05/14/87 10:03:57 T1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.7	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGDTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGDTE0929	310.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.481	LB/MB	STACK NOX CONVERTED		
SAAKK0002	266.	PPM	SCRUB INLET SO2		
SAAKK0004	28.9	PPM	STACK SO2		
HRCTE0377	87.	DEGF	IP COND 1B INLET T		
HRCTE0378	87.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	87.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	120.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	117.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	118.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	119.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	91.0	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006233

UNDER SOFTWARE LOCK 05/14/87 18:18:18 F1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	855.	MW	UNIT LOAD		
APEKY0005	[illegible]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	4[illegible].00	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6143.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1001.	DEGF	THROTTLE TEMP		
SGGTE0004	1000.	DEGF	MAIN STEAM LINE T		
COAXI012A	2399.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2398.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1002.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1003.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	513.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	518.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6143.	KPPH	FDW FLOW TO ECONOMIZER		
FWAF10025	6095.	KPPH	BOILER FEEDWATER F		
COAXI001A	314.8	TPH	TOTAL FUEL FLOW		
COAXI080A	5.1	PCT	WEST FLUE GAS O2		
COAXI079A	4.4	PCT	EAST FLUE GAS O2		
COAXI083A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING DESK1

IP14_006234

UNDER SOFTWARE LOCK 05/14/87 10:12:00 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.7	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	311.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.488	LB/MB	STACK NOX CONVERTED		
SAAKK0002	263.	PPM	SCRUB INLET SO2		
SAAKK0004	29.9	PPM	STACK SO2		
HRCTE0377	87.	DEGF	IP COND 1B INLET T		
HRCTE0378	87.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	87.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	120.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	117.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	118.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	119.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	92.0	PCT	TOTAL AIR FLOW		

BACKWARD PAGING DESK2

IP14_006235

UNDER SOFTWARE LOCK 05/14/87 10:32:39 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	858.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	46.30	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6137.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1001.	DEGF	THROTTLE TEMP		
SGGTE0004	1001.	DEGF	MAIN STEAM LINE T		
COAXI012A	2402.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2404.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1006.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1007.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	516.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	518.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6137.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6085.	KPPH	BOILER FEEDWATER F		
COAXI001A	315.3	TPH	TOTAL FUEL FLOW		
COAXI080A	4.6	PCT	WEST FLUE GAS O2		
COAXI079A	4.9	PCT	EAST FLUE GAS O2		
COAXI003A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.5	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING DESK1

IP14_006236

UNDER SOFTWARE LOCK 05/14/87 10:32:26 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	313.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.477	LB/MB	STACK NOX CONVERTED		
SAAKK0002	261.	PPM	SCRUB INLET SO2		
SAAKK0004	30.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	88.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	88.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	121.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	118.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	120.	DEGF	HP COND 1A EAST OUTLET T		
COAXI070A	92.4	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006237

UNDER SOFTWARE LOCK 05/14/87 08:35:46 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.2 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.6 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	862. MW	UNIT LOAD		
APEKV0007	816.6 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.28 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	12.15 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.87 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.85 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	45.33 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006238

UNDER SOFTWARE LOCK [redacted]/87 08:47:15 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	12.6 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.0 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
[redacted]	841. MW	UNIT LOAD		
APEKV0007	816.1 MW	NET UNIT MEGAWATTS		
APEKK0001D	9.26 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002D	11.86 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003D	9.12 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004D	14.34 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005D	44.57 MW	TOTAL AUX POWER (ANALOG)		

[redacted] FORWARD PAGING AUXFDR

IP14_006239

UNDER SOFTWARE LOCK 05/14/87 09:17:03 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	12.6 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.6 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	857. MW	UNIT LOAD		
APEKV0007	809.9 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.07 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	12.40 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.26 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.67 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	45.31 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006241

UNDER SOFTWARE LOCK 05/14/87 09:34:23 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	12.6 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.6 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX_PWR USED	BYPASS	NO TM
COAXT027A	860. MW	UNIT LOAD		
APEKV0007	815.2 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.15 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	11.89 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.13 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.62 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	44.80 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006242

UNDER SOFTWARE LOCK 05/14/87 09:48:48 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	12.6 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.2 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.6 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
~~AGAKT027A~~	~~853 MW~~	~~UNIT LOAD~~		
APEKV0007	813.4 MW	NET UNIT MEGAWATTS		
APEKK0001B	8.98 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	12.13 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.22 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.92 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	45.17 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006243

UNDER SOFTWARE LOCK 05/14/87 10:04:33 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	12.6 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.6 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	857. MW	UNIT LOAD		
APEKV0007	810.8 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.14 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	12.29 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.28 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.71 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	45.48 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006244

UNDER SOFTWARE LOCK 05/14/87 10:18:45 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	12.6 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.2 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	855. MW	UNIT LOAD		
APEKV0007	868.2 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.19 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	12.28 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.38 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.85 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	45.70 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006245

UNDER SOFTWARE LOCK 05/14/07 10:32:07 F1-20

MEASUREMENT DISPLAY

AUX POWER FEED 1A1, 1A2, 1B1, 1B2

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.2 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.2 MW	SWGR 1B1 MEGAWATT		
APEKK0004	15.6 MW	SWGR 1B2 MEGAWATT		
APEKV0005	MW	AUX PWR USED	BYPASS	NO-IN
CDAXI027A	856. MW	UNIT LOAD		
APEKV0007	810.1 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.37 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	12.51 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.46 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.85 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	46.04 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006246

BLR AUX TEST-3 05/14/87 08:31:47

TOTAL WTL	TOT COAL
02120622.	00330027.
	TONS
	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006213.	00004733.	00007013.	00004751.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

IP14_006247

BLR AUX TEST-3 05/14/87 08:45:39

TOTAL COAL	TOT COAL
02120663.	00330100.

TONS

TOTAL
COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006214.	00004734.	00007014.	00004753.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

IP14_006248

BLR AUX TEST-3 05/14/87 09:00:04

TOTAL OIL	TOT COAL
02125714.	00330175.
	TONS
	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006216.	00004736.	00007016.	00004754.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

IP14_006249

BLR AUX TEST-3 05/14/87 09:15:29

TOTAL OIL	TOT COAL
02128762.	00330255.

TONS

TOTAL
COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006217.	00004737.	00007018.	00004755.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

IP14_006250

BLR AUX TEST-3 05/14/87 09:29:58

00330331.

TONS

TOTAL
COAL

00006219. 00004738. 00007020. 00004756.

MW/HR MW/HR MW/HR MW/HR

1A1 AUX POWER

1A2 AUX POWER

1B1 AUX POWER

1B2 AUX POWER

BLR AUX TEST-3 05/14/87 09:44:58

TOTAL OIL	TOT COAL
02123351.	00330409.
	TONS
	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006221.	00004739.	00007022.	00004757.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

IP14_006252

BLR AUX TEST-3 05/14/87 00:00:00

TOTAL DIL	TOTAL COAL
02128893.	00330488.
GAL.	TONS
TOTAL IGNTR DIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006222.	00004740.	00007024.	00004759.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

L/L SCN L/L < > L/L L/L GTD

IP14_006253

BLR AUX TEST-3 05/14/87 10:14:00

TOTAL OIL	TOT COAL
02128932.	00330566.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006224.	00004742.	00007026.	00004760.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

L/L SCN L/L < > L/L L/L GTD

IP14_006254

BLR AUX TEST-3 05/14/87 10:30:00

TOTAL FUEL	TOT COAL
02128969.	00330644.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006225.	00004743.	00007028.	00004761.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

L/L SCN L/L < > L/L L/L GTD

IP14_006255

TURBINE PERF TEST

Nissen 5/16/87

- Punch List for Test Package -

Test Conditions: GECalcs

TEST # 6

Date Thursday 5/14/87

Time Period 8:30-10:30

Load Mwg 859.9

VP VWO

Throttle Press 2394.2

Throttle Temp 996.5

HRH 1003.1

BP 3.60"

X Preliminary Results (GE)
X Electrical Load
X Pictures - copy
X HW Level
X DA Level
X Stm Packing Exh flow
X Turbine Meter - copy
X Baro

X Field / Test Notes
X Test Notes - (am test)

X Indikon Readings
X Lab Sample Flow Rates
X Coal Sample Pts
X Coal Results
X Videocopies Desk1 / Desk2
X Test-3 Totalizers
X Aux Fdr

X Cycle Isolation - Temp Walkdown
X-NO Htr2 Altr Drn Metal Temps
X DRN1 / DRN2 / DRN3

X Cycle Isolation Check List

IP14_006256

LOGS

TEST # 6

Date Thur 5/14/87
(test duration)
Time 8:30-1030

Times

GE Raw Data

834-1031 Temps

834-1031 Press/Flows/Misc

_____ FoxIA Class II Calcs

830-1030 FoxIA Trend #2 Standard Log

830-1030 Perf #9 " "

830-1030 Perf #10 " "

8:30-1030 FoxIA Perf #9 Average Log

830-1030 " #10 " "

⊗ STD Time (+1 hr)
7:30/7:45/8:00/8:15

8:29/~9:00/~9:13 TGSI Status Printout
~9:28/~10:00 Std/DLS

7:00/8:00/9:00 TAC hourly printouts
10:00/11:00

IP14_006257

Unit #2

Thursday - ~~afternoon~~ late Morning - 2nd test -
5/14
Nissen

TURBINE PERF TEST

Test Notes:

Test # 6

860 MWg / 1140 / 1000 / 1000

Test Start: 8:30 - 10:30 5/14 Thur

smoothest test

checking isolation

verification by opening tell tales

added additional valves

Logs - all 5/14 from 8:30-10:30

- CONTROL ROOM INFO -

	@8:30	@8:40	@10:20
	868	865	862
	2414	2405	2401
	1000	997	1000
	0/0		
	1009/1006	1008/1005	1009/1006
	0		
		2384	2379
		1904	1900
		556	554
CY		OR VWO	
GEN MW		598	
PF		.984	
MVARS		150	
BP		2.11/2.29/1.55	2.17/2.56/
Aux		45.13	
Throttle		~~6158~~ 6230	
FW		6158	
Level		3"/-1/-4	
SSMin		2015°	2024°
O2		4.0/4.9	
Bias		RH 90 / PSH 98	
HH		@9:06 42"/	40"
DA		102"	104

IP14_006259

7 Pulv F/S feeder speeds ~ 65%
2D O/S 52% WB damper
Bias ~~Dampers~~ Pulv 2E 9%

PA Duct 37"
SA " 2.8"

Steam seal Htr 1A
3 polishers
CT Fans 24 / CWP 3
4 scrubber modules
4 PA / NFD - lows

@8:58
→ LP Htr 2 Drip Pot came open momentarily
Turb Side Extr Drain Valve
2TEC ACV-6/54

IP14_006260

UNIT #2 -

-INFO-

TURBINE TEST

Test# 5

5/14 Thursday morning

3rd Valve Point ~780 MWgross X^{3rd} X^{4th}

(crack point 4th valve)

77 mils crack point + 50 mil = Best Valve Pt

setting VP. - Turbine Manual

Open servo plug - hard close - 4th valve - set dial indicator

Run load-set up

Walk load limit down to set valve pt.

2400/1000/1000

TEST START 3:30 - 5:30 ~~target~~

Desolate 5:40

-only ones UO needs-

1 Hour ahead of schedule

Requested to RAMP from 780 to 860MWg

Starting @ 6:30 - 7:00

All Logs

GE Trend 5/14/87 330~5:30

Statdoc

Ave

Scheduled all

- Trend

- #9/#10 standard

- #9/#10 Ave

which comes out?

[illegible]

Class II's 5/14 330~530

IP14_006261

LATE START - getting going :
Everything isolated OK (1 hr late)

Relief Valve 3rd off trans Stm
burping
- Keep eye on

MSH18 - CRH Drains
blew line down before test
closed / Racked breaker out

Closed Desuperheater spray flow
leaking union CRH or HRH Drain
South Side East end

@5:15 LP Htr 2 . Drn popped open
TEC - ACV-14 turb sdn ext drain valve
for ~15 sec.

	@3:30	@442
	782	789
	3rd VP	
	100/99/58/4	
	81%	
	2404	2411
	2384	2389
	1689	1702
	498	502
AWX	45.44 MW	43.93
	1003	1000
	0/0	
	1010/1007	1010/1008
	0	

PF .99 lag
MVAR 80
H_2 press 60.4

Throttle	.5518	5553
FW flow	5469	5506

BP	2.06/2.17/1.44	2.06/2.15/1.44
HW	40.75"	405
DA	103"	103

FW Htrs OK
check Perf Htr 8B

Vacuum Pumps 4 F/s
Problems w/ leaks air-in leakage
A & C Hoods ↑ BP
Looks like no progress yet on fixes

Steam Seal TDV to Htr 1A

7 Pulverizers F/s Pulv 2D O/S 4R
feeder speeds 58-59%
Bias Upper pulv 9% 1E 68%
controlling temps on
Excess Air 5.2 / E 4.9
Bias Dampers RH 100% / RH 55%
Pulv O/S 1D Bias Dampers 55%

NOTE: Boiler Air flow ~~Fast~~ A 82½ / sticking closed ~~Vent B 70%~~
Drum level 2" / -1½ / -3½

Scrubbers 4 F/s

CT 24 fans / 3 CWP's
CCW 85° HCW 115/115/108/113

3 polishers F/s

Ed Persell / Cal Ney	UO
Mark Patton	CO
Steve Stewart	Asst Supt.
Tony Martinez	Startup
Rich ~~Campbell~~ Campbell	Startup
Aaron Nissen	IPSC
Garry Christensen	IPSC
Paul Spanhour	B+V
Chuck Reece	B+V
Leon Lewis	IPSC
Berrell Warner	IPSC
LADWP -	PD&C
Walt Kellyhouse	GE
Paul Albert	GE
Paul Bottiman	GE
GE"	GE
GE	GE

4 Operators

G. Christenson

5/14/87

Test # 6

VWO

1/

IPP # 1

ISOLATION - CHECK LIST

BOILER Roof

6 MS Relief VALVES
1 Vent from Main Steam
4 HRH Relief valves
8 CRH Relief valves
6 Aux Stm Relief valves
1 HTR Relief valve header
1 DA Vent
5 Boiler Vent to Roof
2 Drum Vents to the Roof
8 Drum Relief valves

Blowdown Tank Vent (north side)

IP14_006266

IPP # 1

ISOLATION - CHECK LIST

18th Floor - Top of Boiler

Vent from each Reheat line
Steam leakage near relief valves

156 T Boiler Drum to Aux Steam (South) (Valve 1 & MBV2)
107 T Trap open
204 T Superheat Steam to Aux Stm - (18th & 17th floor) (west)
174 T Superheat Steam to Air Heater Soot Blowers (139, MBV 140)
201 T Superheat Steam to Boiler Soot Blowers (141, MBV 142)
341 T MS to Reheater Bypass (ACV 134, MUV 133)

234 T Superheat Steam to Boiler Soot Blowers (143, MBV144) - east
108/115 T Combustion gas Reheat Soot Blowers (17, MBV-24) - east

Contenuous Blowdown (MBV-4) - east
Chemical feed to drum
Drain from site glass to Blowdown header

Drain from drum pressure tap - west
2- Drains from site glass to Blowdown header

IPP #1
ISOLATION - Check LIST

13th - 17th Floors

17th Superheat Steam to Scrubber Soot blowing
(44, ACV 45, 46, 47, ACV 48, 49)

16th Feedwater to Scrubber soot blower desuperheater
(142, 137, 139 TT 246)

15th Pegging Steam to the DA
___ Aux Stm HDR Press
Boiler drains (west side) 37, 39, 41, 43, 45, 47, 49, 51
Boiler drains (east side) 53

14th DA startup Vents to ATM
___ # of ORIFICED Vents Open
AIR Preheat Return to DA VALVE 140
HP HTR Vent to DA
TRAP FROM AUX STM HDR

13th 3 - RECIRC'S FROM BOOSTER PUMPS
3 - RECIRC'S FROM BFP'S - also check relief valve (3) to floor
Aux Stm to DA Storage TK BV6, BV133
DA Level
MID-Roof : Relief valves from CRH to Aux Stm, Aux Steam to Steam Seals, Aux Stm to Plant Heating, Steam Seals

IPP #1

ISOLATION - Check List

8th - 12th floors

575 T 12th MS to Reheat Steam Bypass
(MBV 135, 125)

192 265
T downstream / T upstream 11th 4" Drain from DA to Bsmt sump (valve #23)
CRH pressure taps

~~10th~~
10th Sample from Final Feedwater
Phosphate feed to Feedwater
Feedwater drain to economizer inlet drain header
Boiler drains (west side) 28, 30, 33, 35
Boiler drains (east side) 55, 57

9th CRH to Aux Steam HDR - DV&TT
Relief valve from final feedwater - before flow section
Aux Steam for plant heating - Status

8th TC station @ FFW
Trap from CRH to Aux Stm
FFW Ruska

IPP # 1

ISOLATION - CHECK LIST

4th - 7th Floors

7th
RHT SPRAY VALVE STATION - ISOLATE
TB BLDG Roof Vents

6th
2 Relief valves from final feedwater to sump near HTR 8
HTR 8A & 8B Vents and Drains to sump
HTR 8A & 8B Vents to DA

5th
Chem. CLEANING CONNECTION TO AUX. STM.
CONDENSATE FOR Aux. Stm. Desuperheating
CONDENSATE TO AND FROM BOILER Lighters
HTR 7A & 7B Vents and drains to sump
HTR 7A & 7B Vents to DA
HTR 4 Vents and drains to Sump/Relief valves
HTR 4 Vents to Condenser - startup vent top of HTR
HTR 3 Condensate Bypass MBV 17
HTR 4 Condensate Bypass MBV 18
Steam to Air HTR Soot Blowers
Aux steam to oil heater

4th
Boiler drains (west side) MBV-29, 31, 34, MBV-36, 38
40, MBV-42, MBV-44, MBV-46, 48, MBV-50, MBV-52

BOILER drains (east side) 54, MBV-56, MBV-58
Continuous Blowdown 5
Soot Blowing (Boiler) drain to condenser - MBV-
2 - Traps from Aux Stm HDR (east side)

IPP # 1

ISOLATION Check LIST

TB DECK

MS to BFPT(A) MBV-9
Drain to sump / Vents
Seal Injection pressure ____
Seal Return temp. ____

MS to BFPT(B) MBV-10
Drain to sump / Vents
Seal Injection pressure ____
Seal Return Temp. ____

Feedwater Bypass around HTR's 6, 7, & 8
HTR 6A & 6B Vents and drains to sump
HTR 6A & 6B Vent to the DA
HTR 3 Vents to sump / Relief valve to sump
HTR 3 Vents to condenser - start up vent top of HTR

IP warming valve
Ventelator valve

Hood Sprays
Hood Spray press Reading

Computer Trailer

Control Room

IPP #1

Isolation Check List

Boiler - 3 floor to Bsmt

2ND FLOOR - SOUTH
Boiler Drains [62,61], [65, MBV66], [63,64], [67,68]

2ND FLOOR - WEST
Traps (2) from Aux Steam to Blowdown Tank

2ND FLOOR - EAST
BOILER DRAINS 170,69

2ND FLOOR - (NORTH - EAST)
Air HTR Soot Blowing drain to Condenser MBV-35

Bsmt

DA Drain to Air Preheat
Valve 24 - 1 floor above FGR pumps
valves 113, 114, 119, 122, 123 - Bsmt

APH Return to DA and Condenser.
ACV 134, 130, 131

Combustion gas Reheat to Condensate after HTR 2
150, 435 tell tall 436
~~FGR~~ FGR pump Recirc 110, 113, 114, 117
Pump leakage

2ND FLOOR West
Boiler drains.

IPP #1

Isolation Check List

Scrubber Bldg.

- Soot Blower Condensate drain return to the Miscellaneous Drains receiver tank - Behind FGR control Room valve # 127 & 125

IPP # 1

ISOLATION Check LIST

MEZZ

4- Overflow lines from VAC. Pump Separator tank to Misc drain tank
2- Relief valves from Feedwater to HTR 6A & 6B

HTR 2 Vents and drains to sump, Relief valve to sump
HTR 2 Vents to Condenser - startup vent top of HTR shell
HTR 2 Condensate Bypass MBV-16
Boot Strap from Condensate to Feedwater DV&TT
Relief valve from BFP(B') to sump.
Extr Line Drain from LP steam to BFPT "B"
Warm-up drain from Feedwater to Condenser
Relief valve from BFP(A) to sump
Aux Steam to BFPT DV&TT
CRH to steam Seals
Aux Steam to Steam Seals
TDV to Condenser

MS to Steam Seal 10, MBV-2, MBV-3
Steam Seal header Relief valves
HPLO steam to Steam Seal header.
2500 # Ruska

MS drains to Blowdown tank MBV-11/12/13/14
MS drains to Condenser MBV 55/56/25/26
4 Control valve ~~before~~ before seat drains
4 Stop valve before seat drains
Main Steam Bypass to Condenser DV&TT
Condensate for desuperheating ACV 59, ACV89, ACV86
Drains from Rotor cooling line to CRH line
CIV drain to Condenser
CIV drain to sump - mezz near condensate for HRH drains damper
mezz near BFPT A exhaust to Condenser

IPP # 1

ISOLATION - Check List

Mezz - Cont.

Normal make-up to Condenser (DI & TT) 31, 30 telltale 148
Condensate for desuperheating the steam to the SPE

* Condenser DWG - TB END
* CONDENSER DWG - South side
  HTR # 1A, 1B, 1C Vent & drain to sump
  Start up Vent to the Condenser

HTR #1 & DC Condensate Bypass

* CONDENSER DWG - GEN END
  DA Drain to the Condenser 85, 86, 26, 27
  HTR # 4 Hi Level dump to the Condenser
  Boiler Bypass to Condenser 136, 138, 169, 170
  Condensate to and from lighters for boiler

* Condenser DWG - North side
  3-Vacuum Breakers - Find out how to check for make-up leaking into the Condenser.
  BFPT "B" Drains to the Condenser
  BFPT "A" Drains to the Condenser.

11/

IPP #1

ISOLATION Check List

BSMT

TB Meter Bypass 1½" TB meter
TB meter Bypass 2" TB meter
Booster pumps drain to sump
Drain to sump from the seal return tank under the BSMT floor - also any tank leaks

Make-up from Feedwater to Aux Boiler
- also valve unit #2
valve @ Aux boiler

Standby pump drain to sump
Relief on Suction to standby pump
HP HTR drain pump drains to sump

Make-up to Condensate Polishers
Drains to Sump from Polishers
Condensate pump leak to sump
Make-up to Condensate pump Seals DV & TT
Cycle make-up to drain cooler line to the Condenser
Valve 129 (above drain Cooler) Valve 66 (above walkway)
Drain Cooler vents and drains
Condensate Recirc ACV 25
Condensate to Storage Tank 19, 20, 23, 24
Air Preheat Return to the Condenser 137, 139, 141
* CONDENSER DWG - GEN END
HTR #3 Hi Level drain to Condenser
HTR #2 Hi Level drain to the Condenser
HTR #1 & #2 Hi Level drain to the Condenser
Generation Bldg Heating Return to Condenser
H_2 Pressure _____
H_2 Purity _____

SUMPS

IP14_006276

IPP #1

ISOLATION - Check List

Bsmt - Cont.

* CONDENSER DWG - South side
  - Hotwell Level
  - Emergency Make-up (OV&TT) 33, 34 TT 175

Misc Drain tank to Sump
Trap from Aux Steam HDR
HRH drain to Condenser
CRH drain to Condenser
TDV drain to Condenser
MS line Bypass to Condenser

* Condenser DWG - TB END
  - HTR 6A & 6B Hi level dumps to Condenser
  - HTR 7A & 7B Hi level dumps to Condenser
  - HTR 8A & 8B Hi level dumps to Condenser
  - SV & CV above seat drains
  - Equalizer Valve
  - Stm lead drains
  - CIV drains

* HP Drain Header
  SPE DRAIN FLOW
* Condenser DWG - North side
* { LP drain Header to A hood
  { 2 LP drain Headers to Condenser under C hood

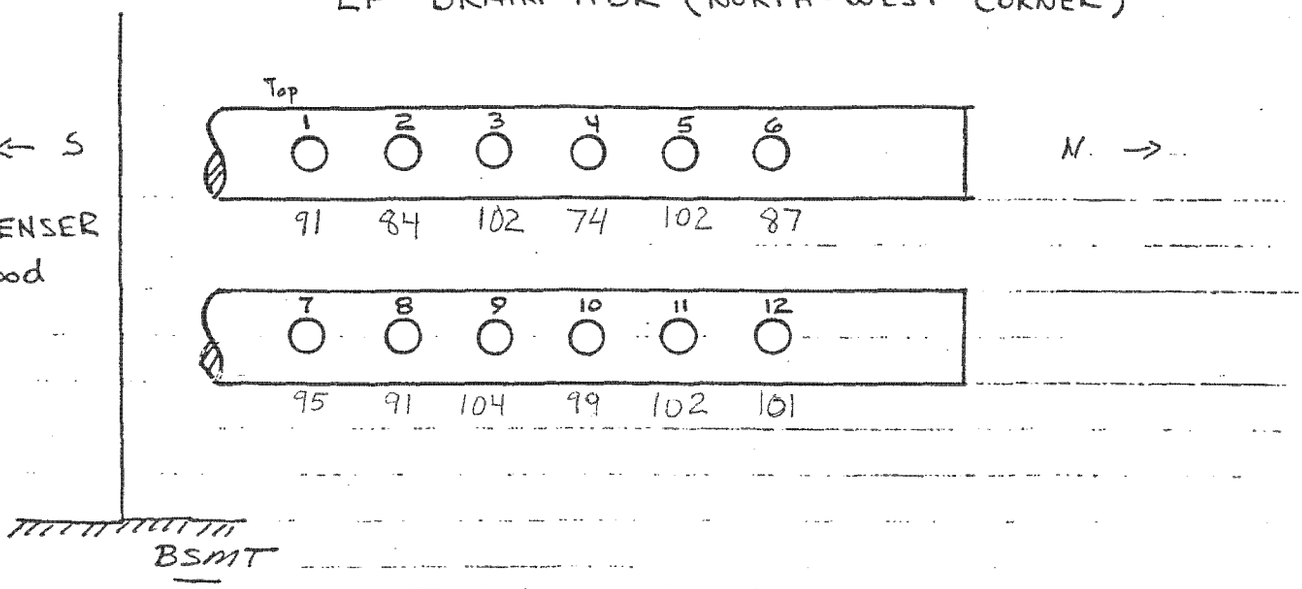
Samples

Chem. Feed

Sumps

LP HTR 2 HI LEVEL
OR TO COND IC
130

LP DRAIN HDR (NORTH-WEST CORNER)



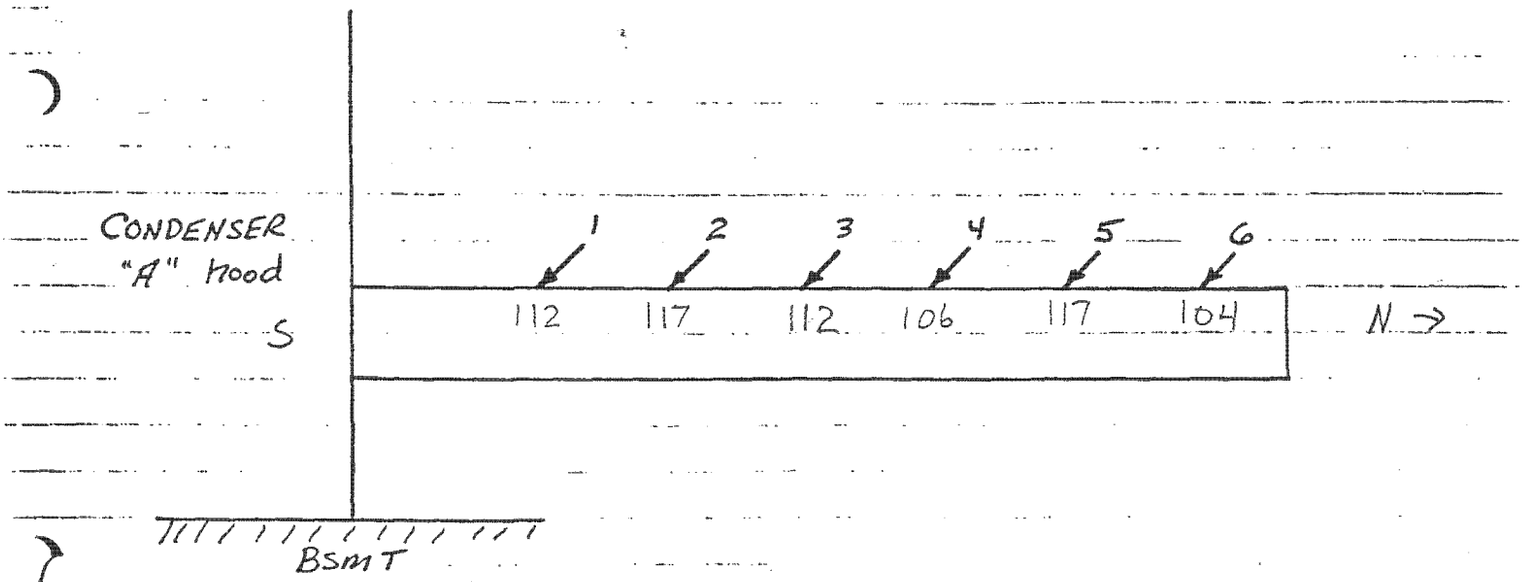
ELEVATION VIEW
(LOOKING WEST)

1)	EXTR	TO	HTR	2	FROM	hood	"C"	-	Drain	after	non-return	valve
2)	"	"	"	"	"	"	"	-	"	before	"	"
3)	"	"	HTR	3	"	"	"	-	"	after	"	"
4)	"	"	"	"	"	"	"	-	"	before	"	"
5)	"	"	HTR	4	"	"	"	-	"	after	"	"
6)	"	"	"	"	"	"	"	-	"	before	"	"
7)	"	"	HTR	2	"	hood	"B"	-	"	after	"	"
8)	"	"	"	"	"	"	"	-	"	before	"	"
9)	"	"	HTR	3	"	"	"	-	"	after	"	"
10)	"	"	"	"	"	"	"	-	"	before	"	"
11)	"	"	HTR	4	"	"	"	-	"	after	"	"
12)	"	"	"	"	"	"	"	-	"	before	"	"

* ALSO CHECK TRAPS AND
DRAIN TO SUMP

IP14_006278

LP DRAIN HDR (NORTH-EAST CORNER)



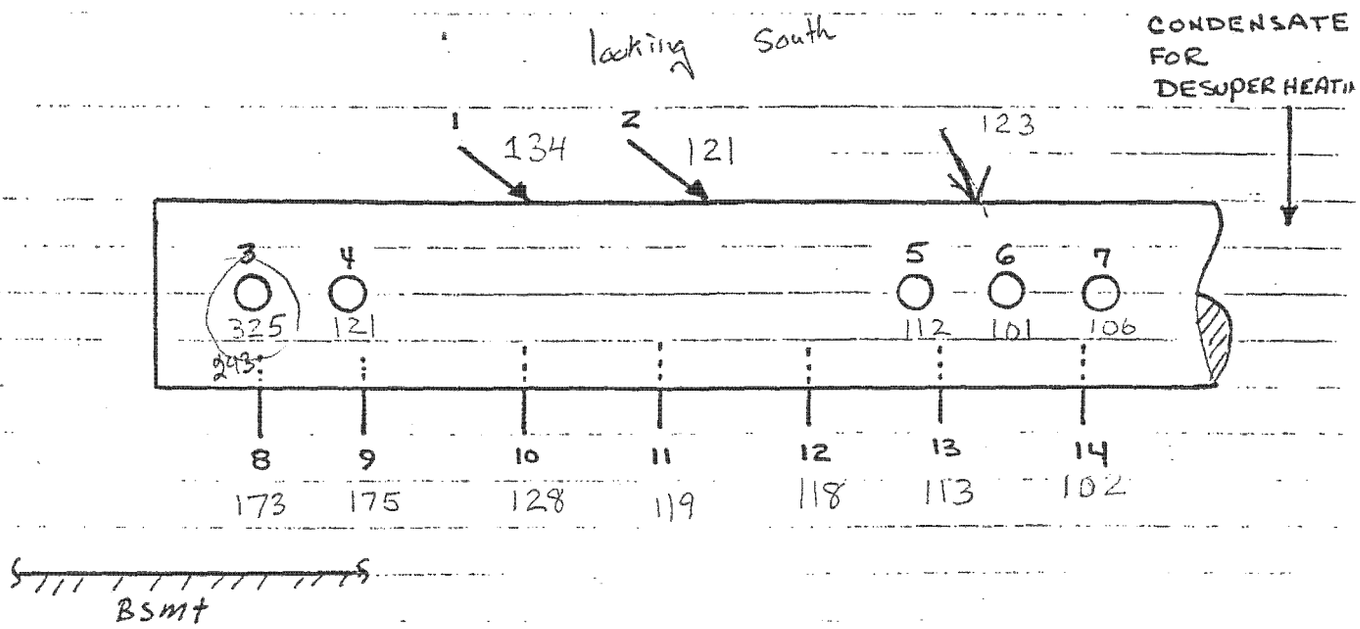
ELEVATION VIEW
(LOOKING WEST)

1)	EXTR	TO	HTR #2	FROM	"A"	hood	-	Drain	after	non-return	valve
2)	"	"	"	"	"	"	"	"	before	"	"	"
3)	"	"	HTR #3	"	"	"	"	after	"	"	"
4)	"	"	"	"	"	"	"	"	before	"	"	"
5)	"	"	HTR #4	"	"	"	"	after	"	"	"
6)	"	"	"	"	"	"	"	"	before	"	"	"

* ALSO CHECK TRAPS AND DRAINS TO SUMP

IP14_006279

HP DRAIN HDR
(EAST SIDE - BSMT LEVEL)



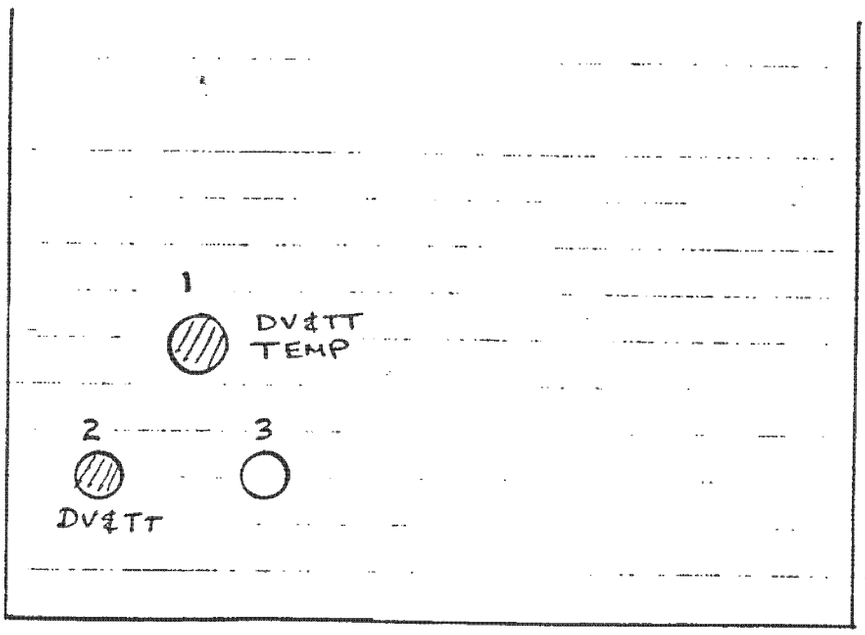
ELEVATION VIEW
(LOOKING SOUTH)

1) Drain from APH soot blowers
2) Drain from boiler soot blowers
3) Drain from 4th stg Extr to HTR 8A & 8B (before seat)
4) " " " " " " HTR 8A (after seat)
5) " " 14 stg " " BFPT 1B (after MBV-9)
6) " " " " " " DA (after seat)
7) " " " " " " " " "
8) " " 4th stg " " HTR 8B " "
9) " " 11th stg " " HTR 6A & 6B (before seat)
10) " " " " " " HTR 6A (after seat)
11) " " " " " " HTR 6B " "
12) " " 14 stg " " BFPT 1A (after BV-9)
13) " " " " " " BFPT 1A & 1B
14) " " " " " " DA (before seat)

* ALSO CHECK TRAPS AND DRAINS TO SUMP

IP14_006280

CONDENSER CONNECTIONS MEZZ - TB END



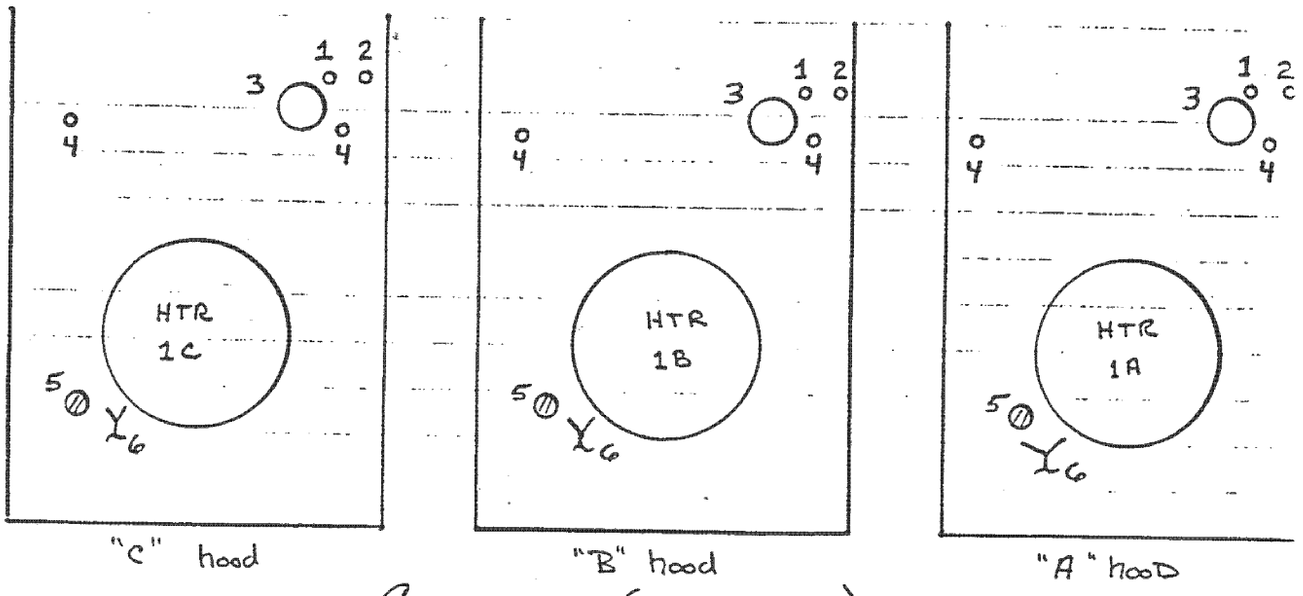
CONDENSER (MEZZ LEVEL)
(TB-END)

1) MS Bypass to Condenser and MS drains to Bypass line - check temp before desuperheater

2) Normal Hotwell make-up

3) Drain from Misc drain tank

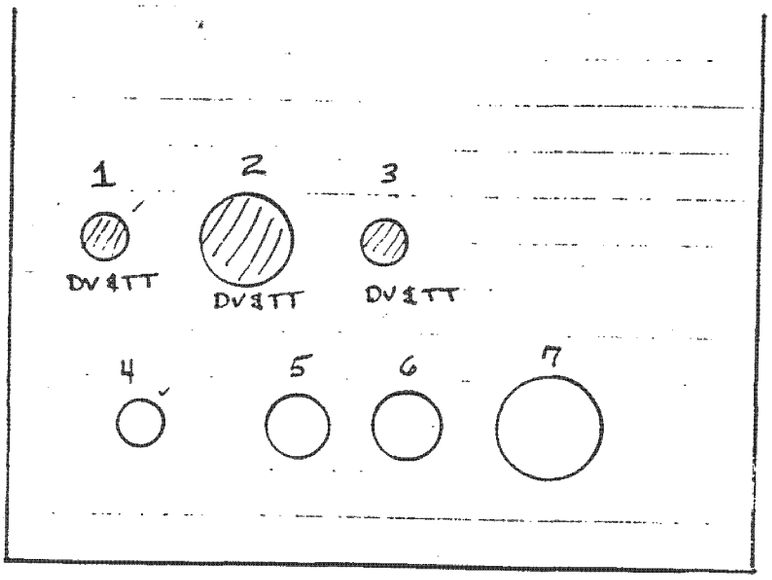
CONDENSER CONNECTIONS MEZZ - SOUTH



CONDENSER (MEZZ LEVEL)
(SOUTH SIDE)

1) TE
2) Pressure Tap
3) LP Steam Seals to SPE
4) Waste water & oil from turbine
5) HTR # 1 Vent to Condenser
6) HTR # 1 drains to sump.

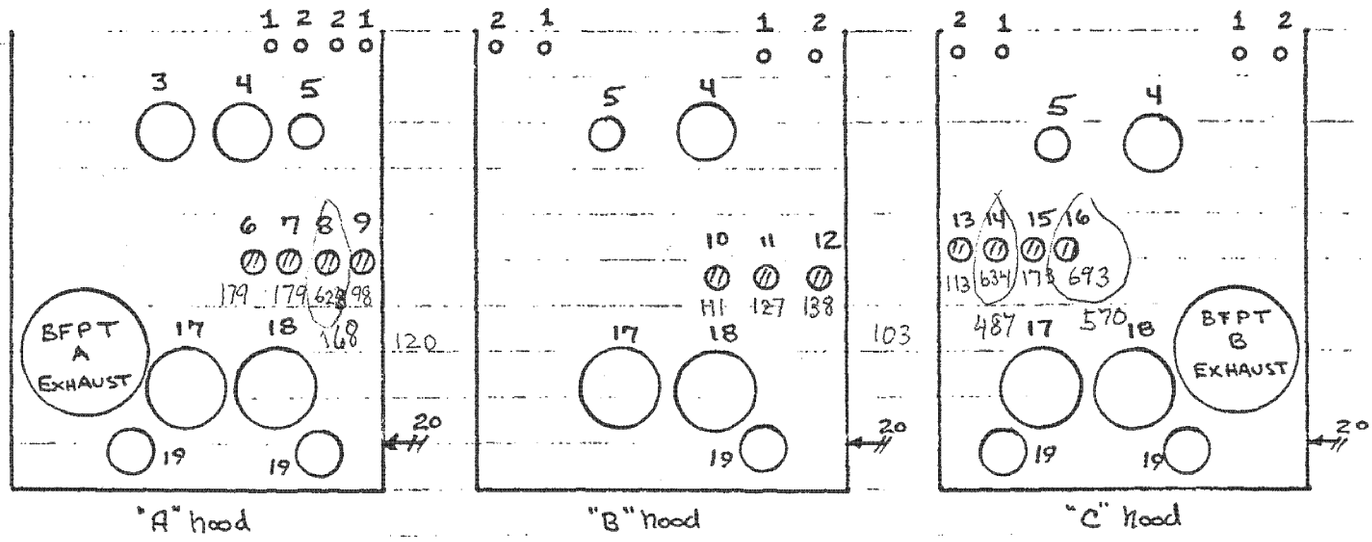
CONDENSER CONNECTIONS MEZZ – GEN. END



Condenser (Mezz Level)
(GEN END)

1) DA drain to Condenser DV&TT BV26, BV27
   DA drain to Condenser DV&TT BV85, BV86
   Condensate return from lighters BV 375
2) Bypass from boiler to condenser BV 136, ACV 137, BV 138, BV 169, BV 170
3) HTR 4 Hi level drain to Condenser BV 9, BV 17
4) Booster pump and standby pump seal return
5) Condensate pump startup recirc valve to Condenser
6) Condensate recirc to Condenser
7) Drain Cooler drain to Condenser

CONDENSER CONNECTIONS MEZZ - NORTH SIDE



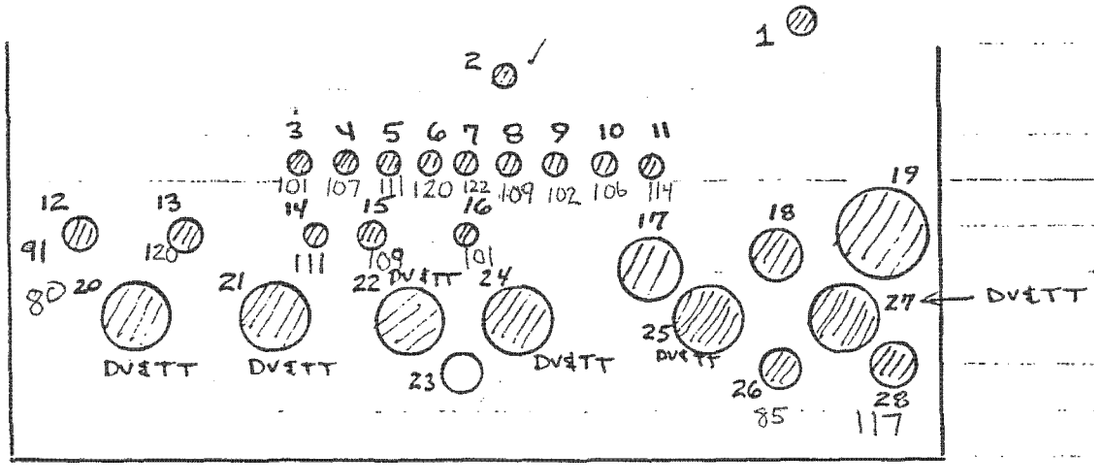
CONDENSER (MEZZ LEVEL)
(NORTH SIDE)

1) TE
2) Pressure Tap
3) TDV to HTR 1A
4) EXTR TO HTR #4
5) SSH to LP Seals
6) BFPT "A" HP STOP VALVE DRAIN
7) BFPT "A" LP STOP VALVE BELOW SEAT DRAIN
8) BFPT "A" HP STOP VALVE DRAIN
9) BFPT "A" FIRST Stage Drain
10) HTR #4 Vent to Condenser
11) HTR #3 Vent to Condenser
12) HTR #2 Vent to Condenser
13) BFPT "B" FIRST STAGE DRAIN
14) BFPT "B" HP STOP VALVE DRAIN
15) BFPT "B" LP STOP VALVE below SEAT DRAIN
16) BFPT "B" HP STOP VALVE DRAIN
17) EXTR TO HTR #2

CONT.

(18) EXTR TO HTR #3
(19) TO VACUUM PUMPS
(20) VAC. Breaker - Check for MAKE-UP LEAKAGE TO CONDENSER

CONDENSER CONNECTIONS Bsmt - TB END



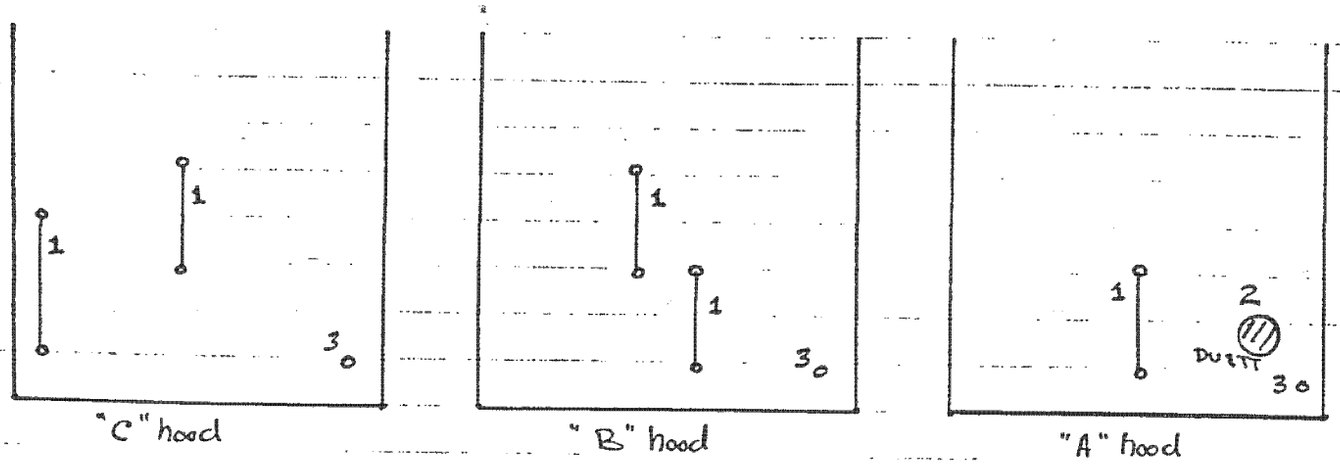
CONDENSER - Bsmt
(TB END)

1) Orificed drain from TDV to HTR
2) Drain from Feedwater to HTR #6
3) Drain RHT Bowl to condenser
4) Control valve drain to condenser
5) " " " " "
6) " " " " "
7-10) Stop valve drain to condenser
11) Drain from RHT Bowl
12) CRH low point drains - check before desuperheating
13) HRH low point drains - check before desuperheating
14) Low point drain from MS Bypass to condenser
15) Control valve drain to condenser
16) Main Steam lead drain to condenser
17) TDV to Condenser
18) Equalizer valve
19) HP extn line drain header
20, 21) HTR 6A & 6B Hi level dumps 20) HTR 6A ; 21) HTR 6B
22, 24) HTR 8A & 8B Hi level dumps 22) HTR 8A ; 24) HTR 8B
23) Drain from Misc Drain Tank
25, 27) HTR 7A & 7B Hi level dump 25) HTR 7B ; 27) HTR 7A
26) SSH low point drain
28) Drain from LP extn steam to BFPT "A"

IP14_006285

CONDENSER CONNECTIONS

BSMT - SOUTH SIDE

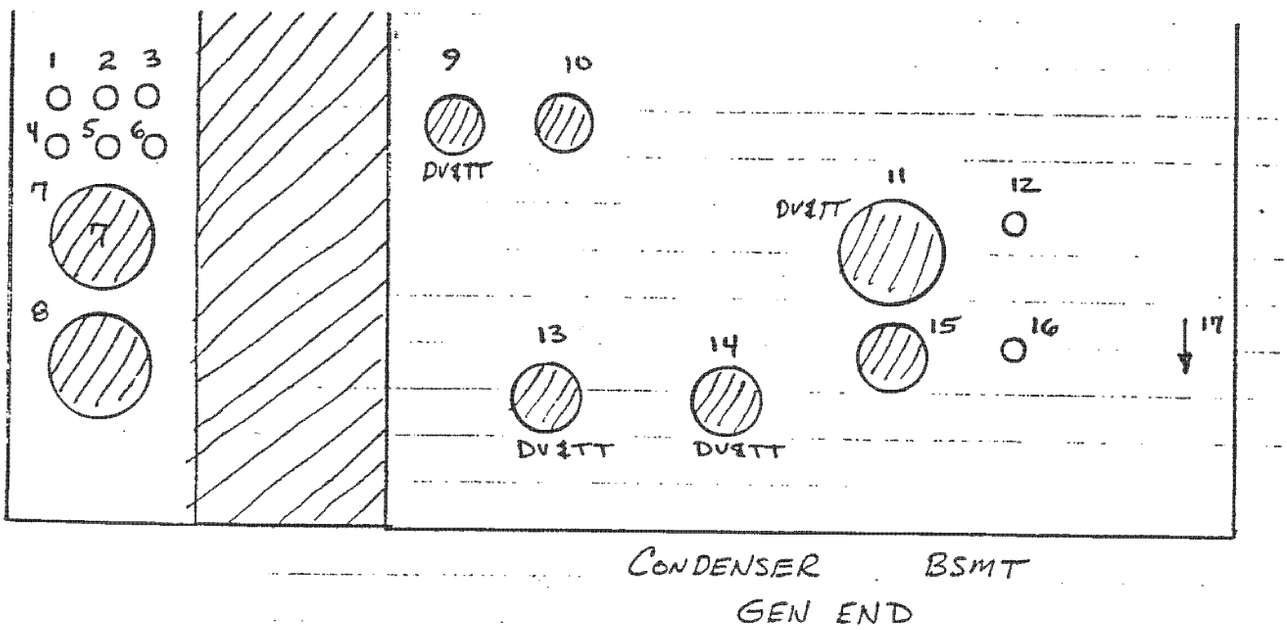


CONDENSER - BSMT
SOUTH SIDE

1) SITE GLASS OR LEVEL INDICATOR
2) EMERGENCY MAKE-UP TO HOTWELL
3) TE

CONDENSER CONNECTIONS

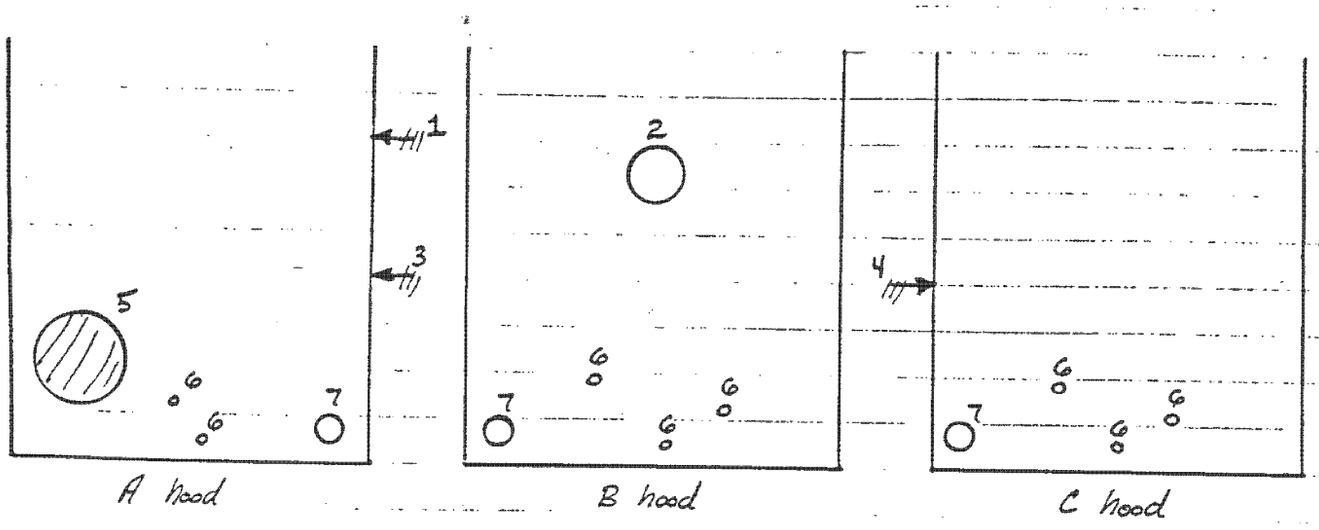
BSMT - GEN END



1,2,3) Condensate pump suction vents
4,5,6) Condensate pump disch vents
7) LP HTR EXTR LINE HDR
8) LP HTR EXTR LINE HDR
9) APH Return to Condenser
10) Extn line drain from LP steam to BFPT "B"
11) Flash tank Hi level drain to the Condenser
12) Vent to Condenser from the drain cooler drain line to Condenser
13) HTR #3 Hi level drain to Condenser
14) HTR #2 Hi level drain to condenser
15) Generation Bldg Heating return to condenser
16) Sample from drain cooler drain line to condenser
17) Local sample from drain cooler.

CONDENSER CONNECTIONS

BSMT - NORTH SIDE



Condenser Bsmt
North Side

1) SSH Low point drain - check MEZZ Level
2) To VACUUM PUMPS
3) BFPT "1A" LP STOP VALVE above seat drain - check Mezz level
4) BFPT "1B" LP " " " " " " " "
5) LP extraction line drain header
6) Hotwell sample
7) Hotwell drain.

MEZZANINE TC'S

LP HTR 2 DR
To Flash TK 1
166

MS WARM LINE
83

MS DRAIN WARM LINE - 1MSDSH
88

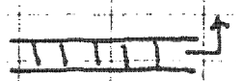
MS DRAIN WARM LINE - 1MSDSH
91

BOOSTER BFP DISC
TO MAIN + STBY BF
184
141

MS DRAINS TO
BLOWDOWN TANK
170
182
87

ST. SEAL
EXTRACTIONS
UP 1/2 LEVEL
211
327
212
451
455
222

DOWN ON MEZZANINE
TDV TO CONDENSER



CRH	SPLY	TO	AUX	ST	HDR	267	285	
"	"	"	"	"	"	303	280	9th Floor
"	"	"	"	"	"	307	293	SE Corner

(Looking West)

IP14_006289

UNBED SOFTWARE LOCK 05/14/87 08:34:18 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
SGGTE1154	632. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	140. DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	319. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89. DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	77. DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8008	117. DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	432. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	63. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	414. DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398. DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	119. DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006290

UNDER SOFTWARE LOCK 05/14/87 08:34:35 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	285. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	122. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	144. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	116. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	119. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	118. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	119. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	120. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	120. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	120. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	129. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	156. DEGF	BFPT 1A EXTR DR T		
TECTE1046	198. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006291

UNDER SOFTWARE LOCK 05/14/87 08:34:49 F1-28

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	95. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	128. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	100. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	103. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	115. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	145. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	108. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	142. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	103. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	97. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	114. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	64. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	98. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	96. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006292

UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
SGGTE1154	633. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	142. DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	315. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89. DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	76. DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8888	117. DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	432. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	61. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	414. DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398. DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	119. DEGF	HOT RH DR DSUPHTR 3 T		

BACKWARD PAGING DRN1

IP14_006293

UNDER SOFTWARE LOCK 05/14/87 08:48:27 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	272.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	123.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	144.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	116.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	119.	DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	118.	DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	119.	DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	120.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	120.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	129.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	156.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	190.	DEGF	BFPT 1B EXTR DR T		

BACKWARD PAGING-- DRN2

IP14_006294

UNDER SOFTWARE LOCK 05/14/87 08:48:12 F1-28

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	118. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	98. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	102. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	121. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	138. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	107. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	144. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	101. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	96. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	112. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	64. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	97. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	95. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006295

UNDER SOFTWARE LOCK 05/14/87 09:03:53 P1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	633.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	142.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	310.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	76.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0808	117.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	432.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	59.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	414.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	119.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006296

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	260.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	123.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	145.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	116.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	120.	DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	118.	DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	120.	DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	120.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	129.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	156.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	190.	DEGF	BFPT 1B EXTR DR T		

IP14_006297

UNDER SOFTWARE LOCK 05/14/87 09:04:22 F1-20

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	116. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	97. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	101. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	94. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	121. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	138. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	106. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	146. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	100. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	99. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	110. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	64. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	97. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	94. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006298

UNDER SOFTWARE LOCK 05/14/87 09:18:26 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	633.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	143.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	386.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0008	119.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	432.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	56.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	413.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	119.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRAFT

IP14_006299

UNDER SOFTWARE LOCK 05/14/87 09:18:40 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	249. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	123. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	145. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	116. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	122. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	119. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	120. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	129. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	157. DEGF	BFPT 1A EXTR DR T		
TECTE1046	191. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006300

UNDER SOFTWARE LOCK 05/14/87 09:18:54 F1-20

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	115. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	95. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	100. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	94. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	121. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	139. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	105. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	147. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	99. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	101. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	108. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	64. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	96. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	93. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006301

UNDER SOFTWARE LOCK 05/14/87 09:34:49 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	633.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	145.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	201.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0008	119.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	432.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	55.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	413.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	120.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006302

UNDER SOFTWARE LOCK 05/14/87 09:35:02 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	238. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	125. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	145. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	117. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	124. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	119. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	128. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	129. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	157. DEGF	BFPT 1A EXTR DR T		
TECTE1046	191. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006303

NDER SOFTWARE LOCK 05/14/87 09:35:19 F1-20

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	113. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	94. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	99. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	93. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	121. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	141. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	184. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	148. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	98. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	186. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	184. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	186. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	64. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	94. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	93. DEGF	LP HTR 4 EXTR DRAIN T		

IT FORWARD PAGING DRN3

IP14_006304

UNDER SOFTWARE LOCK 05/14/87 09:47:32 F1-28

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	633.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	147.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	297.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8888	128.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	432.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	54.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	413.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	128.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006305

UNDER SOFTWARE LOCK 05/14/87 09:47:44 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	230.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	127.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	145.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	117.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	125.	DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	119.	DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	120.	DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	129.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	157.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	191.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006306

UNDER SOFTWARE LOCK 05/14/87 09:47:58 F1-20

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	95. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	93. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	112. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	93. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	99. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	93. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	124. DEGF	LP HTR 2 EXTRACTION DRAIN T		
ECTE1035	142. DEGF	LP HTR 3 EXTRACTION DRAIN T		
CTE1036	103. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TE1037	149. DEGF	LP HTR 4 EXTRACTION DRAIN T		
E1038	98. DEGF	LP HTR 4 EXTRACTION DRAIN T		
1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
1040	105. DEGF	LP HTR 2 EXTR DRAIN T		
041	105. DEGF	LP HTR 3 EXTR DRAIN T		
42	64. DEGF	LP HTR 3 EXTR DRAIN T		
43	93. DEGF	LP HTR 4 EXTR DRAIN T		
4	92. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006307

UNDER SOFTWARE LOCK 05/14/87 10:05:00 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	632.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	147.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	693.	DEGF	MAIN-STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0008	121.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	432.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	53.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	413.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	128.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006308

UNDER SOFTWARE LOCK 05/14/87 10:05:13 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	221.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	127.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	145.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	117.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	124.	DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	119.	DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	120.	DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	121.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	122.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	127.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	157.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	192.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006309

UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	95. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	111. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	92. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	98. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	93. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	120. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	142. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	183. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	149. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	96. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	107. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	104. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	65. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	92. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	92. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006310

UNDER SOFTWARE LOCK 05/14/87 10:17:39 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	632.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	147.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	298.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0000	121.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	431.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	52.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	412.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	398.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	128.	DEGF	HOT RH DR DSUPHTR 3 T		

BACKWARD PAGING DRN1

IP14_006311

UNDER SOFTWARE LOCK 05/14/87 10:17:26 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	214. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	129. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	145. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	117. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	121. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	119. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	120. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	121. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	122. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	122. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	127. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	158. DEGF	BFPT 1A EXTR DR T		
TECTE1046	192. DEGF	BFPT 1B EXTR DR T		

BACKWARD PAGING DRN2

IP14_006312

UNDER SOFTWARE LOCK 05/14/87 10:17:11 F1-20

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	95. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	94. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	110. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	92. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	98. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	93. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	115. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	120. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	142. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	102. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	148. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	96. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	107. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	103. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	65. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	92. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	91. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006313

UNDER SOFTWARE LOCK 05/14/87 10:33:32 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	632.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	147.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	286.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	78.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0008	122.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	432.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	52.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	412.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	399.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	120.	DEGF	HOT RH DR DSUPHTR 3 T		

BACKWARD PAGING DRN

IP14_006314

UNDER SOFTWARE LOCK 05/14/87 18:33:17 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	287. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	138. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	146. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	118. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	120. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	120. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	121. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	122. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	119. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	122. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	122. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	127. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	158. DEGF	BFPT 1A EXTR DR T		
TECTE1046	192. DEGF	BFPT 1B EXTR DR T		

BACKWARD PAGING DRN2

IP14_006315

UNDER SOFTWARE LOCK 05/14/87 18:33:04 F1-20

MEASUREMENT DISPLAY

LP 1A/1B/1C EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1027	98.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	103.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	107.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	91.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	98.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	93.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	115.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	119.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	141.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	102.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	145.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	95.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	107.	DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	106.	DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	102.	DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	65.	DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	91.	DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	91.	DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006316

TEST # 5,6 DATE 5/14/87

MASTER

TURBINE PERFORMANCE TESTING - CRITICAL VALVES

I - HIGHEST PRIORITY, IMMEDIATELY AFTER TRIP
II - RETURN TO SERVICE AFTER PRIOR. #1
} RESTORE BETWEEN TESTS
III - " " " " END OF DAY OR TRIP

PRIORITY I VALVES (PAGE 1 OF 2)

P&ID	VALVE #	DESCRIPTION	LOCATION	VLV POSITION / CLOSE INIT.	OPEN O INITIAL	CLOSE C INITIAL	OPEN O INITIAL
M2076	2TED-BV-0019	HP HTR 8A ALT. HLVL DUMP	GF - EAST OF COND	O JW	JW	JW	JW
"	" 0020	" 8A "	"	O JW	JW	JW	JW
"	" 0027	" 7A "	"	O JW	JW	JW	JW
"	" 0028	" 7A "	"	O JW	JW	JW	JW
"	" 0035	" 6A "	"	O JW	JW	JW	JW
"	" 0036	" 6A "	"	O JW	JW	JW	JW
"	" 0021	" 8B "	"	O JW	JW	JW	JW
"	" 0022	" 8B "	"	O JW	JW	JW	JW
"	" 0029	" 7B "	"	O JW	JW	JW	JW
"	" 0030	" 7B "	"	O JW	JW	JW	JW
"	" 0037	" 6B "	"	O JW	JW	JW	JW
"	" 0038	" 6B "	"	O JW	JW	JW	JW
M2020	2HRA-BV-0019	COND. NORMAL DRAWOFF	GF SW CORNER OF COND	O Bm	Bm	Bm	Bm
"	-0020	"	"	O Bm	Bm	Bm	Bm
M2077	2TEE-BV-0011	LP HTR 3 ALT. HLVL DUMP	GF - WEST OF COND	O Bm	Bm	Bm	Bm
"	" 0019	" 3 "	"	O Bm	Bm	Bm	Bm
"	" 0013	" 2 "	"	O Bm	Bm	Bm	Bm
"	" 0021	" 2 "	"	O Bm	Bm	Bm	Bm
"	" 0015	FLASH TANK "	GF - SW OF COND	O Bm	Bm	Bm	Bm
"	" 0022	" "	"	O Bm	Bm	Bm	Bm

GF EAST

Jerry Westring

Bob Mienhauer

IP14_006317

TEST # _____ DATE _____

PRIORITY I VALVES (PAGE 2 of 2)

P&ID	VALVE #	DESCRIPTION	LOCATION	VLV POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2077	2TEE-BV-0009	LP HTR 4 ALT HLVL DUMP	MEZZ WEST OF COND	O / DR	DR	DR	DR
"	" 0017	"	"	O / DR	DR	DR	DR
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"	O / DR	DR	DR	DR
"	" 0027	" TURB.	"	O / DR	DR	DR	DR
"	2FWC-MBV-90	"	"	O / DR	DR	DR	DR
M2020	2HRA-BV-0030	COND. NORMAL MU	MEZZ SW CORNER OF COND.	O / JW	Bm	Bm	Bm / Bm
"	2HRA-ACV-32	" " WO Fill Hotwell	" "	O / JW	Bm	Bm	Bm
"	" 0031	"	"				
M2080A	2TGC-BV-0010	MN. STM. to turbine seals	MEZZ W. OF MN. STM HDR	O / DR	DR	DR	DR
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd NE OF BFPT 1A	O / DS	DS	DS	DS
"	" -10	" 1B	3rd SW OF BFPT 1B	O / DS	DS	DS	DS
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th N of E ELEVATOR	O / DS	C	C	DS
"	" 0022	" upper Boiler	"	O / DS	C	C	DS
~~M2035A~~	~~2FWA-BV-37~~	~~BFPT 1A RECIRC~~	~~13th EAST~~				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBE OIL CENT.	O / Bm	Bm	Bm	Bm
"	" 0079	HP HTR 8A "	"	O / Bm	Bm	Bm	Bm
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAKOFF	MEZZ NW OF COND	O / DR	DR	DR	DR
"	" 0390	" Seat DRAIN	"	O / DR	DR	DR	DR
"	" 0399	" 1A1 " "	MEZZ N OF COND	O / DR	DR	DR	DR
M2075	2TEC-BV-0075	HP HTRS 8A & 8B EXTRACT	GF E OF LUBE OIL CENTRIFUGE	O / Bm	Bm	Bm	Bm
"	" 0081	HP HTR 8A		O / Bm	Bm	Bm	Bm
"	" 0105	HP HTR 6B	"	O / Bm	Bm	Bm	Bm

TEST _____ DATE _____

PRIORITY II VALVES (PAGE 1 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	VLV POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2054A	2SAC-BV-0017	SAMPLE 1 MU to COND.	GF Chem LAB				
"	" 0030	"	"				
"	" 0019	SAMPLE 3 DEMIN. 1A OUTLET	"				
"	" 0032	"	"				
"	" 0020	SAMPLE 4 DEMIN. 1B OUTLET	"				
"	" 0033	"	"				
"	" 0021	SAMPLE 5 DEMIN. 1C OUTLET	"				
"	" 0034	"	"				
"	" 0022	SAMPLE 6 DEMIN 1D OUTLET	"				
"	" 0035	"	"				
"	" 0023	SAMPLE 7 COND. POL. OUTLET	"				
"	" 0036	"	"				
"	" 0001	SAMPLE 8 COND. AFTER GLAND COND.	"				
"	" 0002	SAMPLE 9 DA INLET	"				
"	" 0024	"	"				
"	" 0037	"	"				
"	" 0026	SAMPLE 11 ECON. INLET	"				
"	" 0039	"	"				
"	" 0003	SAMPLE 13 SAT. STEAM	"				
"	" 0004	SAMPLE 14 MN. STEAM	"				
"	" 0028	"	"				
"	" 0041	"	"				
M2075	2TEC-BV-0065	LP HTR 4 LP TURBINE SECT. 1C	NW CORNER GF COND CEILING	0 JW	JW	JW	JW
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B	0 JW	JW	JW	JW
"	" 0057	" OUTLET	"	0 JW	JW	JW	JW
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM	0 JW	JW	JW	JW
"	" 0016	"	"	0 JW	JW	JW	JW

LAB

GF-EAST

IP14_006319

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 2 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	KEY POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2021	2HRB-BV-0109	SEPARATOR 1D Mu	MEZZ. CONDENSER VAC. PMPS	0 Bm	Bm	Bm	Bm
"	" 0110	" 1C "	"	0 Bm	Bm	Bm	Bm
"	" 0111	" 1B "	"	0 Bm	Bm	Bm	Bm
"	" 0112	" 1A "	"	0 Bm	Bm	Bm	Bm
M2071	2SGJ-BV-0090	COND to CRH DSPRHTR 2	MEZZ 3rd by GE Trailer	0 Bm	Bm	Bm	Bm
M2079	2TGA-BV-0005	HOOD SPRAY SUPPLY	3rd LP HTR 3	0 Bm	Bm	Bm	Bm
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS vent to COND	3rd HP HTR 6A	0 Bm	Bm	Bm	Bm
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS vent to DEA	3rd HP HTR 6B	0 Bm	Bm	Bm	Bm
"	" 0080	" 6B "	5th HP HTR 7A	0 Bm	DR	DR	DR
"	" 0076	" 7A "	5th HP HTR 7B	0 Bm	DR	DR	DR
"	" 0079	" 7B "	5th LP HTR 4	0 Bm	DR	DR	DR
M2078B	" 0162	LP HTR 4 " to COND	6th HP HTR 8A	0 Bm	DR	DR	DR
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8B	0 Bm	DR	DR	DR
"	" 0078	" 8B "	10th S OF MCC 2B09	C DR	C DNO	C	DNOd
M2035B	2FWA-BV-0202	Boiler Feed Sample 11	"	0 DR	C	C	missin
"	" 0203	"	14th top OF DEA	0 DS	DS	DS	DS
M2078A	2TEF-BV-0003	DEA CONTINUOUS VNT TO ATMOS.	"	0 DS	DS	DS	DS
"	" 0007	" upper Boiler	"	0 DS	DS	DS	DS
"	" 0011	"	18th S	0 DS	DS	DS	DS
M2063B	2SGA-BV-0199	STM. TRAP 3	17th S	0 DS	DS	DS	DS
M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	18th E END OF DRUM	0 DS	DS	DS	DS
"	" 0003	CONTINUOUS BLOWDOWN	"	0 DS	C	C	DS
"	" MBV-4	"	18th S OF DRUM	0 DS	C	C	DS
"	" MBV-2	STM SUPPLY to AUX STM	"	0 DS	C	C	DS
"	" BV-0001	"	9th Behind E ELEVATOR	0 DR	C	C	DR
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	"	0 DR	C	C	DR
"	" BV-12	"	"	0 DR	C	C	DR
"	" BV-14	"	17th W. SIDE	0 DS	C	C	DS
"	" BV-58	2ND SUPERHEAT to AUX STM	"	0 DS	DS	DS	DS
upper Boiler M2063A	2SGA-BV-195 / 2SGA-BV-0010	STEAM TRAP 2 / MS STM to AUX STM	"	0 DS	C	C	DS

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	NORM POSITION / CLOSE INITIAL	OPEN O INITIAL	CLOSE C INITIAL	OPEN O INITIAL
2FWB M2036							
"	B-1	FLOW METER 1 BBFP	GF-W OF BBFP JA	~~CLOSE~~ JW		JW	
	B-2			~~CLOSE~~ JW		JW	
	B-3	open first		~~OPEN~~ JW			JW
	B-4			~~OPEN~~ JW			JW
"	B-5	FLOW METER 2 BFP	GF ABOVE BFPT LUBE OIL CENT.	~~CLOSE~~ JW		JW	
	B-6			~~CLOSE~~ JW		JW	
	B-7	open first		~~OPEN~~ JW			JW
	B-8			~~OPEN~~ JW			JW

TEST #_____ DATE _____

P&ID	VALVE #	DESCRIPTION		LOCATION	PRIORITY	CLOSED C INITIAL	OPEN O INITIAL
M2075	2TGC-BV-0027	LP HTR 2	LP TURB. Section 1B	GF - NW CORNER OF COND. - Bottom Row	III	Bm	JW
"	" 0031	"			III	Bm	JW
"	" 0035	LP HTR 3			III	Bm	JW
"	" 0039	"			III	Bm	JW
"	" 0043	LP HTR 4			III	Bm	JW
"	" 0047	"			III	Bm	JW
"	" 0003	LP HTR 2	LP TURB. Section 1A	GF - NE CORNER OF COND.	III	Bm	Bm
"	" 0007	"			III	Bm	Bm
"	" 0011	LP HTR 3			III	Bm	Bm
"	" 0015	"			III	Bm	Bm
"	" 0019	LP HTR 4			III	Bm	Bm
"	" 0023	"			III	Bm	Bm
"	" 0051	LP HTR 2	LP TURB. Section 1C	GF - NW CORNER OF COND. TOP Row	III	Bm	JW
"	" 0055	"			III	Bm	JW
"	" 0059	LP HTR 3			III	Bm	JW
"	" 0063	"			III	Bm	JW
"	" 0067	LP HTR 4			III	Bm	JW
"	" 0071	"			III	Bm	JW
M2038 B	2FWD-BV-0121	COND. Polish Regen Pump		GF	III	DR	DR
"	" 0125	"		"	III	DR	DR
M2008	2PSA-BV-0082	Aux. Stm. TRAP 5		"	III	DR	DR
M2080A	2TGC-BV-0058	Aux. Stm. to Cond. RH		Mezz. TOP OF VLV DECK	III	DR	DR
M2069	2SGG-BV-0058	Main. Stm. WARMING LINE		Mezz. NE OF MCC 2A03	III	DR	DR
M2068	2SGF-BV-0065	DOWNCOMER DRN. BLOWDOWN		Mezz. S. SIDE Boiler	III	DR	DR
"	" 0055	LWR. Convection Pass HDR		10th east	III	DS	C
" upper Boiler	" 0057	"		"	III	DS	C
"	" 0035	"		10th west	III	DS	C
"	" 0028	"		"	III	DS	C

IP14_006322

TEST # _____ DATE C

P&ID	VALVE #	DESCRIPTION	LOCATION	PRIORITY	CLOSE C INITIAL	OPEN O INITIAL
M2068	2SGF-BV-0041	SECOND. SPRHTR OUT HDR.	15th - West	III	DS	C
"	" 0043	" " INTERMED HDR	"	III	DS	C
" upper Boiler	" 0045	" " " "	"	III	DS	C
"	" 0049	" " PLATEN "	"	III	DS	C
"	" 0051	ROOF INLET HDR	"	III	DS	C
M2008	2PSA-BV-0026	TURBINE Seals S/u STM	Mezz 203-D	III	DR	DR

IP14_006323

TEST 5, 6 — May 14, 1987

P&ID Checkoff List

P&I's	NON-CRITICAL COMPLETE	CRIT COMPLETE	OPEN CRITICAL COMPLETE	OPEN NON-CRITICAL COMPLETE
9 PSA - M2008	ROG			
2 PSA - M2008	ROG			
2CCD - M2013A	ROG			
2HRA - M2020	ROG			
2HRB - M2021	N/A			
2 FWA - M2035A	ROG			
2FWA - M2035 B	ROG			
2 FWA - M2035 C	ROG			
2 FWC - M2037	ROG			
2 FWD - M2038A	ROG			
2 FWD - M2038 B	N/A			
2 SAC - M2054 A	ROG			
2SCA - M2056 A	ROG			
2SGA - M2063A	ROG			
2 SGA - M2063 B	ROG			
2 SGC - M2065	ROG			
2 SGF - M2068	ROG			
2 SGG - M2069	ROG			
2 SGI - M2070	ROG			
2 SGJ - M2071	ROG			
2 TEA - M2073	ROG			
2 TEC - M2075	ROG			
2 TED - M2076	ROG			
2TEE - M2077	ROG			
2FWF - M2040	ROG			
2TEF - M2078 A	ROG			
2 TEF - M2078 B	ROG			
2 TGA - M2079	N/A			
2 TGC - M2080 A	ROG			
2 TGC - M2080 B	ROG			
2FWB - M2036	N/A			

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 ~~6~~

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: 5/14/87

SYSTEM: AUX. STEAM P&ID # 9PSA-M2008

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-16	Make-up from U2 D.A.	Bsmt. near BBFP 2C	N		C	C	C	BM				
BV-20	Make-up from U1/U2 D.A	Aux. Boiler	N		C	C	C	BM				
BV-22	Make-up from U1/U2 D.A	Aux Boiler	N	C	C	C	C	BM				
BV-18	Make-up from U1 D.A	Unit 1 Bsmt BBFP 2C	N		C	C	C	BM				
BV-[illegible]												
BV-[illegible]												

IP14_006325

ASME Turbine Performance Testing Unit #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test Isolation: Start _____ End _____ Name _____

After Test Isolation: Start _____ End _____ Date _____

SYSTEM: Aux. STEAM P&ID # 2PSA-M2008 / 2TEA-M2073

Page 1

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-21	DA-Pegging Stm	15th floor - North of east elevator	CRI	O	C							
BV-22	DA-Pegging Stm	"	CRI	O	C							
(BV-118)	" - tell tale valve	"	N	C	C	C	C	DS				
MBV-17	CRH Supply to Aux Stm	9th floor behind east elevator	CRII	O	C							
BV-36/37)	tell tale valves	"	N	C	C	C	C	DS				
BV-12	CRH Supply to Aux Stm	"	CRII	O	C							
BV-14	CRH Supply " "	"	CRIII	O	C							
BV-15	CRH Supply " "	"	N	C	C	C	C	DS				
BV-133	Aux Stm to DA Tank	13th floor ~~behind~~ West elev - on DA tank	N	O	C	C	C	DS				
BV-6	" " " "	"	N	O	C	C	C	DS				
BV-134)	tell tale valve	"	N	C	C	C	C	DS				
BV-7	CNDS to Aux Stm DEAT	5th floor by east elevator	N	O	C	O	C	DS	C	O	MP	
BV-8	" " " " "	"	N	O	C	O	C	DS	C	O	MP	
BV-9	" " " " "	"	N		C	C	C	DS				
BV-19	Aux Stm to BFPT	~~Mezz Floor~~ NE corner	N	O	C	C	C	DS				
BV-18	" " " "	" "	N	O	C	C	C	DS				
(BV-39/40)	tell tale	" "	N	C	C	C	C	DS				
BV-11	CRH Supply to Aux Stm	9th	N	O	C	O	C	DR	C	O	MP	
TEA(M2073) BV-118	Aux Stm to BFPT	~~Mezz Floor~~ NE corner	N	O	C	C	C	DS				
BV-13	CRH to Aux Stm	9th	N	O	C	O	C	DR	C	O	MP	
BV-82	STEAM TRAP #5	BSMT. NE CORNER OF TURB PEDISTAL	CRIII	O	C							
BV-83	"	"	N	C	C	C	C	DS				
BV-58	Aux. Steam from 2nd superheater	17th West side of Boiler	CRII	O	C							
BV-26	Aux Steam supply to steam seals	MEZZ NE CORNER TURBINE	CRIII	O	C							

IP14_0006326

ASME Turbine Performance Testing — Unit #2 — Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

SYSTEM: Combustion Gas Reheat P&ID# M2013A

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-44	Sootblowing Supply to CGR	18th floor east side	N	O	C	C	C	[illegible]				
BV-47	" " "	" " "	N	O	C	C	C	[illegible]				
BV-137	Sprays from BFP	16th floor east side	N	O	C	C	C	[illegible]				
BV-139	" " "		N	O	C	C	C	[illegible]				
BV-142	" " "		N	O	C	C	C	[illegible]				
BV-110	CGR pump Recirc	Basement by CGR pumps	N	O	C	C	C	[illegible]				
BV-113	" " "	"	N	O	C	C	C	[illegible]				
BV-114	" " "	"	N	O	C	C	C	[illegible]				
BV-117	" " "	"	N	O	C	C	C	[illegible]				
BV-150	Return to CNDS	2nd floor above pumps	N	O	C	C	C	[illegible]				
BV-435	" " "	Basement @ pumps 15' up	N	O	C	C	C	[illegible]				
BV-436	- tell tale	"	N	O	C	C	C	[illegible]				
BV-125	SBCND Return	North AQCS Control Room	N	O	C	C	C	[illegible]				SBCNDS Return Pump OFF
BV-127	" " "	"	N	O	C	C	C	[illegible]				

IP14_0063327

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: CONDENSING P&ID# 2HRA-M2020/2SCA-M2056A

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	Position - Before Test As left	Position - Before Test Initials	Position - After Test As Found	Position - After Test As Left	Position - After Test Initials	Comments
BV-30	Condensate Normal	Mezz. SE Corner Condenser	CRI	O	C							
BV-31	Make-up	"	CRI	O	C							
BV-19	Condensate ~~Normal~~ DRAW OFF	BSMT. SW CORNER CONDENSER	CRI	O	C							
BV-20	"	"	CRI	O	C							
BV-33	Condensate ~~EMERG.~~ MAKE-UP	BSMT. SE CORNER CONDENSER	N	O	C	O	C	DR	C	O	BM	
BV-34	"	"	N	O	C	O	C	DR	C	O	BM	
BV-23	COND. EMERG. DRAW-OFF	BSMT SW CORNER CONDENSER	N	O	C	O	C	DR	C	O	BM	
BV-24	"	"	N	O	C	O	C	DR	C	O	BM	
BV-14B)	TELL TAIL	LOCAL	N	C	C	C CAPPED 20' OVERHEAD	C	DRO				
BV-175)	"	"	N	C	C	C	C	DRO				
BV-176)	"	"	N	C	C	C	C	DRO				
BV-177)	"	"	N	C	C	HANDLE IS BROKEN		DRO				
ACV-25	COND. RECIRC.	BSMT. SW CORNER CONDENSER	N	C	C	C	C	DRO				MAY HAVE TO CLOS BV-28
BV-29	" BYPASS	"	N	C	C	C	C	DRO				
BV-71	COND. MISC. SERVICE PUMP OUTLET	BSMT. "1C" COND. PUMP ABOVE HEAD	N	O	C	C	C	DRO				
BV-179	"	"	N	O	C	C	C	DRO				
BV-178)	TELL TAIL	"	N	C	C	C	C	DRO				
BV-90	HOT WELL DRAINS	N. OF CONDENSER BSMT.	N	C	C	C	C	DRO				
BV-91	"	"	N	C	C	C	C	DRO				
BV-89	"	"	N	C	C	C	C	DRO				
BV-92	HYDRAZINE FEED	"	N	C	C	C	C	DRO				
BV-112	COND. LEAK DETECTION 1C	Basement - N. End to 1C Cond	N	O	C	C	C	DRO				OPEN after TEST
BV-113	"		N	O	C	C	C	DRO				"
BV-114	"		N	O	C	C	C	DRO				"

IP14_006328

TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: CONDENSING P&ID # 2HRA-M2020 / 2SCA-M2056A (CONT.)

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-115	COND LEAK DETECTION 1B	N. SIDE COND. 1B COND.	N	O	C	C	C	DRO				OPEN after test
BV-116	"	"	N	O	C	C	C	DRO				"
BV-117	"	"	N	O	C	C	C	DRO				"
BV-118	COND. LEAK DETECTION 1A	N. SIDE COND. 1A COND.	N	O	C	HANDLE IS BROKEN		DRO				"
BV-119	"	"	N	O	C	C	C	DRO				"
ACV-32	COND. NORMAL mkr	MEZZ SE CORNER COND	CRI	O	C							
	P&ID 2SAC-M2056A											
BV-529	GEN. BLDG. SP. COND DRAIN to UNIT 2	BASEMENT W. END TO ICCOND	N		C	C	C	DRO				

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: CONDENSER AIR EXTRACTION P&ID# 2HRB-M2021

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-109	SEPARATOR MAKE-UP	MEEZ. CONDEN. VAC PUMPS	CR II	O	C							WATCH SEPARATO
BV-110	"	"	CR II	O	C							TANK LEVEL
BV-111	"	"	CR II	O	C							
BV-112	"	"	CR II	O	C							

IP14_006330

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: BOILER FEED P&ID # 2FWA-M2055A

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-298	Bootstrap	MEZZ NEAR HTR. 2 (207-E)	N	C	C	C	C	JW				
BV-299	"	"	N	C	C	C	C	JW				
BV-108)	TELL TAIL	"	N	C	C	C	C	JW				
BV-188	WARM-UP LINE	MEZZ UNDER 1A BFPT (203E)	N	O	C	O	C	JW	C	O	(JM)	
MBV-189	"	"	N	C	C	C	C	JW				
BV-385/107	TELL TAIL	"	N	C	C	C	C	JW				
ACV-14	BBFP RECIRC.	13th W. END D.A (202G)	N	C	C	C	C	JW				
ACV-15	"	"	N	C	C	C	C	JW				
ACV-16	"	"	N	C	C	C	C	JW				
ACV-17	BFP RECIRC	13th E. END DA. (207G)	N	C	C	C	C	JW				
ACV-18	"	"	N	C	C	C	C	JW				
ACV-19	"	"	N	C	C	C	C	JW				
BV-37	"	"	CRI	O	C							

IP14_006331

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: BOILER FEED P&ID# 2 FWA-M2035B

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
MBV-44	HP HEATERS BYPASS	TURBINE DECK E. OF HP HTR. 6 (2024)	N	C	C	C	C	[illegible]				
SGA-131	ECONOMIZER INLET HDR. DRAIN	11th FLOOR ECONOMIZER INLET	N	C	C	C	C	[illegible]				
SGA-132	"	"	N	C	C	C	C	[illegible]				
BV-202	SAMPLE 11	10th S. of MCC 2B09	CRII	O	C	C (DMO)	C	[illegible]				
BV-203	"	"	CRII	O	C	O	O	[illegible]				

IP14_006332

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: BOILER FEED P&ID # 2 FWA-M2035C

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-303	ABOVE SEAT DRAIN. HP STOP VALVE (BFPT 1A)	1A BFPT N.SIDE TURB DECK	N	C	C	C	C	[illegible]				check in control ROOM
BV-305	BELOW SEAT DRAIN HP STOP VALVE	1A "	N	C	C	C	C	[illegible]				↓
BV-307	ABOVE SEAT DRAIN LP STOP VALVE	" S.SIDE	N	C	C	C	C	[illegible]				
BV-309	BELOW SEAT DRAIN LP STOP VALVE	"	N	C	C	C	C	[illegible]				
BV-311	1ST STAGE DRAIN	MEZZ - NE CORNER TURB. PEDISTAL-HP	N	C	C	C	C	[illegible]				
BV-304	ABOVE SEAT DRAIN HP STOP VALVE	1B BFPT S.SIDE	N	C	C	steam leak						
BV-306	BELOW SEAT DRAIN HP STOP VALVE	"	N	C	C							
BV-308	ABOVE SEAT DRAIN LP STOP VALVE	" N.SIDE	N	C	C							
BV-310	BELOW SEAT DRAIN LP STOP VALVE	"	N	C	C							
BV-312	1ST STAGE DRAIN	MEZZ NW CORNER TURB PEDISTAL-UP	N	C	C	C	C	[illegible]				
BV-0388	HP STOP VLV 1B1 STEM LEAKOFF	MEZZ. NW OF COND	CRI	O	C							
BV-0390	" SEAT DRN	"	CRI	O	C							
BV-0389	" 1A1 "	MEZZ N OF COND	CRI	O	C							

IP14_006333

MOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: BOILER FEED PUMP INJECTION P&ID # 2FWB-M2036

alve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
B-1	FM-1 BYPASS	BSMT. E.of 2A BFP	CR II	O	C							Valve-in
B-2	"	"	CR II	O	C							Flow Meter
												Carefully
B-3	Flow METER 1	"	CR II	C	O							O
B-4	"	"	CR II	C	O							
B-5	FM-2 BYPASS	BSMT. BFPT LUBE OIL	CR II	O	C							
B-6	"	centrifuge,	CR II	O	C							
		ceiling										
B-7	Flow METER 2	"	CR II	C	O							
B-8	"	"	CR II	C	O							

IP14_006334

HOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: CONDENSATE P&ID# 2FWC-M2037

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	Position - Before Test As left	Position - Before Test Initials	Position - After Test As Found	Position - After Test As Left	Position - After Test Initials	Comments
BV-26	DA Recirc to Cond	Mezz - West Side Condenser	CRI	O	C	O	O	[illegible]				
BV-27	" " " "	"	CRI	O	C	O	O	[illegible]				
1BV-90	" " " "	"	CRI	C	C	O	O	[illegible]				
BV-85	" " " "	"	N	O	C	C	C	[illegible]				
BV-86	" " " "	"	N	O	C	C	C	[illegible]				
BV-105	-tell tale	"	N	C	C	C	C	[illegible]				
BV-110	-tell tale	"	N	C	C	C	C	[illegible]				
BV-24	APH CNDS Supply	Mezz above CGR pumps	N	O	C	C	C	[illegible]				
BV-23	DA tank Belly Drn	11th floor	N	C	C	C	C	[illegible]				
1BV-9	CNDS Bypass Htr 1	Mezz 2 floor SW turb-next to stairs	N	C	C	C	C	[illegible]				
1BV-16	CNDS Bypass Htr 2	Mezz floor SW of mainelev	N	C	C	C	C	[illegible]				
1BV-17	CNDS Bypass Htr 3	5th floor SW Boiler	N	C	C	C	C	[illegible]				
1BV-18	CNDS Bypass Htr 4	" "	N	C	C	C	C	[illegible]				

IP14_006335

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: CONDENSATE POLISHERS P&ID #2FWD-M1038A/38B

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
3V-121 (38A)	MU to Regen Pumps	1st floor next to CNDS MU Booster Pump	CR III	O	C							Regen Pumps - off
3V-125	" " " "	"	CR III	O	C							make sure pu
1BV-76 (38A)	CNDS DEMIN 2A DAN	1st floor East of Demin	N	C	C	C	C					don't start
1BV-77	" " 2B "	"	N	C	C	C	C					
1BV-78	" " 2C "	"	N	C	C	C	C					
1BV-79	" " 2D "	"	N	C	C	C	C					
1BV-72	DM 2A Resin Xfer Valve	"	N	C	C	C	C					
1BV-73	" 2B " " "	"	N	C	C	C	C					
1BV-74	" 2C " " "	"	N	C	C	C	C					
1BV-75	" 2D " " "	"	N	C	C	C	C					

IP14_006336

MODIFIED TURBINE PERFORMANCE TESTING UNIT "2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

SYSTEM: STEAM CYCLE SAMPLING & ANALSIS P&ID # 2SAC-M2054A (1 of 2)

25/6 (final)

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-17	LAB SAMPLE #1 MU to Cond	Water Lab Panel Behind	CRII	O	C	O	C	KS	C	O	KS	
BV-5	" BD		N		C	C	C	KS				
BV-30	" Needle Valve		CRII	O	C	O	C	KS	C	O	KS	
BV-6	LAB SAMPLE #2 CP Disc BD		N		C	C	C	KS				Sample #2 - OPEN
BV-19	LAB SAMPLE #3 Demin 1A Outlet		CRII	O	C	O	C	KS	C			
BV-7	" BD		N		C	C	C	KS				
BV-32	" Needle Valve		CRII	O	C	O	C	KS	C	O	KS	
BV-20	LAB SAMPLE #4 Demin 1B Outlet		CRII	O	C	O	C	KS				
BV-8	" BD		N		C	C	C	KS				
BV-33	" Needle Valve		CRII	O	C	O	C	KS	C	O	KS	
BV-21	LAB SAMPLE #5 Demin 1C Outlet		CRII	O	C	O	C	KS				
BV-9	" BD		N		C	C	C	KS				
BV-34	" Needle Valve		CRII	O	C	O	C	KS	C	O	KS	
BV-22	LAB SAMPLE #6 Demin 1D Out		CRII	O	C	O	C	KS	C	O	KS	
BV-10	" BD		N		C	C	C	KS				
BV-35	" Needle Valve		CRII	O	C	O	C	KS	C	O	KS	
BV-23	LAB SAMPLE #7 Cnds Polishing Out		CRII	O	C	O	C	KS	C	O	KS	
BV-11	" BD		N		C	C	C	KS				
BV-36	" Needle Valve		CRII	O	C	O	C	KS	C	O	KS	
BV-1	LAB SAMPLE #8 Cnds after Gland Cond		CRII	O	C	O	O	KS	C	O	KS	[illegible]
BV-12	" BD		N		C	C	C	KS				
BV-24	"		CRII	O	C	O	C	KS				
BV-37	" Needle Valve		CRII	O	C	O	C	KS				
(cont)												

IP14_006337

[illegible] PERFORMANCE TESTING UNIT "C" Test " 5 & 6

Cycle 1 Station Check off Sheets

Before Test - Isolation: Start _____ End _____

After Test - Isolation: Start _____ End _____

Name _____

Date: _____

SYSTEM: STM CYCLE SAMPLING & ANALYSIS P&ID # 2SAC-M2054A (2 of 2)

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-2	LAB SAMPLE 9 DA INLET	WATER LAB - Behind Panel	CRII	O	C	C	C	KS				
BV-13	LAB SAMPLE 10 DA Outlet BD		N		C	C	C	KS				Sample #10 - OPEN
BV-26	LAB SAMPLE 11 ECON INLET		CRII	O	C	C	C	KS				Sample #11 - close root valve
BV-14	" BD		N		C	C	C	KS				
BV-39	" Needle Valve		CRII	O	C	O	C	KS				
BV-15	LAB SAMPLE 12 Drum BD		N	O	C	O	C	KS				Sample #12 - OPEN
BV-3	LAB SAMPLE 13 Sat Stm		CRII	O	C	C	C	KS				Sample #13 - close root valve
BV-4	LAB SAMPLE 14 Main Stm		CRII	O	C	O	C	KS				Sample #14 - close root valves
BV-16	" BD		N		C	C	C	KS				
BV-26	"		CRII	O	C	O	C	KS				
BV-41	"		CRII	O	C	O	C	KS				
BV-107	Sample Recovery Pump Suction		N	O	C	C	C	KS				
BV-110	Discharge		N	O	C	C	C	KS				

IP14_006338

ASME TURBINE PERFORMANCE TESTING UNIT #2 · Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date _____

SYSTEM: STEAM GENERATOR P&ID# 2SGA-M2063A

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
1BV-142	BLR SB STM SUPPLY	18th floor East End - Middle Blr	N	C	C	O	C		+ C	O	JW	
BV-141	" " " "	West "	N	O	C	O	C		+ C	O	JW	
1BV-144	BLR SB Stm SUPPLY	"	N	C	C	C	C					
BV-143	" " " "	"	N	O	C	C	C					
1BV-24	CBR SB STM SUPPLY	"	N	C	C	C	C					
BV-17	" " " "	"	N	O	C	C	C					
1BV-140	RAH SB STM SUPPLY	18th floor West Side	N	C	C	+ O	C		+ C	O	JW	
BV-139	" " " "	"	N	O	C	+ O	C		+ C	O	JW	
1BV-194	STM SUPPLY AUX HDR	17th floor West Side	N	C	C	C	C					
BV-10	" " " "	"	CRII	O	C							
1CV-134	SH BYPASS TO RH	18th floor West Side	N	C	C	C	C					
1UV-133	" " " "	"	N	C	C	C	C					
1BV-135	" " " "	12th floor N West Side	N	C	C	C	C					
BV-125	" " " "	"	N	O	C	C	C					
BV-136	SH BYPASS to COND	Mezz floor West Cond IC	N	O	C	C	C					
BV-138	"	"	N	O	C	C	C					
BV-169	"	"	N	O	C	C	C					
BV-170	"	"	N	O	C	C	C					
BV-195	STM TRAP 2	16th west	CRII	O	C							

IP14_0006339

HOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: STEAM GENERATOR P&ID # 2SGA-M2063B

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
5V-3	CONTINUOUS BLOW DOWN	18th E. END DRUM	CR II	O	C							
1BV-4	"	18th E. END DRUM	CR II	O	C							
3V-1	AUX STEAM SUPPLY	18th S. DRUM MIDDLE	CR II	O	C							
1BV-2	"	"	CR II	C	C							
3V-18	DRAIN TO BLOWDOWN HEADER	18th W. END BOILER DRUM	N	C	C	C	C	[illegible]				
BV-19	FROM LG-2	"	N	C	C	C	C	"				
3V-208	"	"	N	C	C	C	C	"				
3V-25	DRAIN TO BLOWDOWN HEADER FROM LG-3	"	N	C	C	C	C	"				
BV-26	"	"	N	C	C	C	C	"				
BV-209	"	"	N	C	C	C	C	"				
BV-31	DRAIN TO BLOWDOWN HEADER FROM PS-5	"	N	C	C	C	C	"				
BV-32	"	"	N	C	C	C	C	"				
3V-11	DRAIN TO BLOWDOWN FROM LG-1	18th E. END BOILER DRUM	N	C	C	C	C	"				
BV-12	"	"	N	C	C	C	C	"				
BV-207	"	"	N	C	C	C	C	"				
3V-172	SAMPLE 13	18 S. SIDE DRUM	CR II	O	C							
BV-199	STM TRP 3	18th S Side	CR II									

IP14_006340

MOMEO TURBINE PERFORMANCE TESTING UNIT #2 Test # 5+6

Cycle Isolation Check off Sheets

Before Test Isolation: Start _____ End _____ Name _____

After Test Isolation: Start _____ End _____ Date: _____

SYSTEM: AIR PREHEAT P&ID # 2SGC-M2065

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
3V-113	DA WATER SUPPLY	Basement @ APH Pumps	N	O	C	C	C					
3V-114	" " "	"	N	O	C	C	C					
3V-119	" " "	"	N	O	C	C	C					
3V-122	APH Recirc to Pump	"	N	O	C	C	C					
3V-123	" " " "	"	N	O	C	C	C					
3V-130	APH EMGCY RTN COND	"	N	O	C	C	C					
3V-131	" " " "	"	N	O	C	C	C					
3V-140	APH RTN to DA	13½ floor - east	N	O	C	C	C					
3V-141	APH RTN to COND	Basement West Side	N	O	C	C	C					
3V-137	" " "	"	N	O	C	C	C					
3V-139	" " "	"	N	O	C	C	C					

IP14_006341

ASME Turbine Performance Testing Unit #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: BOILER VENTS AND DRAINS P&ID # 2SGF-M2068

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-28	LWR CONVECTION PASS HEADER DRAIN	10th WEST SIDE	CR III	O	C							
BV-35	"	"	CR III	O	C							
BV-41	SECONDARY SUPERHEAT OUTLET HEADER DRAIN	15th WEST SIDE	CR III	O	C							
BV-43	SECONDARY SUPERHEAT INTERM. INLET HEADER	"	CR III	O	C							
BV-45	"	"	CR III	O	C							
BV-49	SECONDARY SUPERHEAT PLATEN OUTLET DRAIN	"	CR III	O	C							
BV-51	ROOF INLET HEAD. DRAIN	"	CR III	O	C							
BV-55	LWR. CONVEC. PASS HEADER DRAIN	10th EAST SIDE	CR III	O	C							
BV-57	"	"	CR III	O	C							
BV-65	DOWNCOMER DRAIN BLOW DOWN	2nd S. SIDE BOILER	CR III	O	C							
BV-30	ECONOMIZER INLET HEADER DRAIN	10th WEST SIDE	N	C	C	C	C	[illegible]				
BV-33	REHEATER INLET HEADER DRAIN	" "	N	C	C	C	C	[illegible]				
1BV-29	LOWER CONVECTION PASS HDR. DRN.	4th floor	N	C	C	C	C	[illegible]				
BV-31	ECONOMIZER INLET HDR. DRAIN	" "	N	C	C	C	C	[illegible]				
BV-34	REHEATER INLET HDR. DRAIN	" "	N	C	C	C	C	[illegible]				
1BV-36	LOWER CONVECTION PASS HDR. DRN	" "	N	C	C	C	C	[illegible]				
BV-38	REHEATER OUTLET HDR. DRAIN	" "	N	C	C	C	C	[illegible]				
BV-40	"	" "	N	C	C	C	C	[illegible]				
1BV-42	SECONDARY SUPERHEAT OUTLET HDR. DRN	" "	N	C	C	C	C	[illegible]				
1BV-44	SECONDARY SPRHTR INTERMED INLET DR	" "	N	C	C	C	C	[illegible]				
1BV-46	"	" "	N	C	C	C	C	[illegible]				
BV-48	ECONOMIZER DISCH. HDR. DRN	" "	N	C	C	C	C	[illegible]				
1BV-50	SECONDARY SPRHTR PLATEN INLET HDR DR		N	C	C	C	C	[illegible]				
1BV-52	ROOF INLET HDR. DRAIN		N	C	C	C	C	[illegible]				

IP14_006342

HOMER TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: BOILER VENTS & DRAINS P&ID # 2 SGF-M2068 (CONT.)

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-54	EAST ECONOMIZER DISCH. HDR. DRN.	4th FLOOR	N	C	C	C	C					
MBV-56	LOWER CONVECTION PASS HDR. DRAIN	"	N	C	C	C	C					
MBV-58	"	"	N	C	C	C	C					
MBV-66	DOWNCOMER DRAIN MANIFOLD DRAIN	2ND S. BOILER	N	C	C	C	C					
BV-59	WEST END DOWNCOMER DRAIN	"	N	C	C	C	C					
BV-60	"	"	N	C	C	C	C					
BV-61	WEST SHELL DOWNCOMER DRAIN	"	N	C	C	C	C					
BV-62	"	"	N	C	C	C	C					
BV-63	CENTER SHELL DOWNCOMER DRAIN	"	N	C	C	C	C					
BV-64	"	"	N	C	C	C	C					
BV-67	EAST SHELL DOWNCOMER DRAIN	"	N	C	C	C	C					
BV-68	"	"	N	C	C	C	C					
BV-69	EAST END DOWNCOMER DRAIN	"	N	C	C	C	C					
BV-70	"	"	N	C	C	C	C					
BV-37	REHEATER OUTLET HDR	15th WEST	N	C	C	C	C					
BV-39	" " "	"	N	C	C	C	C					
BV-47	ECONOMIZER DISCH. LINE	"	N	C	C	C	C					
BV-53	"	"	N	C	C	C	C					

IP14_006343

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: MAIN STEAM P&ID # 25GG-M2069

alve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-9	HP STM to BFPT 1A	Turb Deck NE Corner on BFPT1A	CRI	O	C							
1BV-10	HP STM to BFPT 1B	Turb Deck SW on BFPT1B	CRI	O	C							
BV-23	MBV-9 Bypass	Turb Deck BFPT 1A NE	N	C	C	C	C					
BV-24	MBV-10 Bypass	Turb Deck BFPT 1B SW	N	C	C	C	C					
BV-58	MStm WARMING LINE	Mezz Deck East of MCC 2A03	CRIII	O	C							
1CV-18	" " "	"	N	C	C	C	C					
1BV-17	" " "	"	N	C	C							
1BV-11	BFPT HPSTM DRN to BD Tank	Mezz Floor Under Mstm Line NE	N	C	C							
1BV-12	" "	"	N	C	C							
1BV-55	" "	"	N	C	C							
1BV-56	" "	"	N	C	C							
BV-13	MStm DRN to BD Tank	"	N	C	C							
BV-14	" " "	"	N	C	C							
BV-25	" " "	"	N	C	C							
1BV-26	" " "	"	N	C	C							
1BV-21	MStm Vent to Atm	14th floor middle	N	C	C	C	C					
BV 15	SAMPLE # 14	MEZZ G. END	CRII	O	C							
BV 16	"	MEZZ E END	CRII	O	C							

IP14_006344

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 586

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: SOOT BLOWING P&ID # 25GI-M2070

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
4CV-26	SECONDARY SUPERHTR. PLATEN OUTLET HDR.	18th WEST SIDE BOILER	N		C	C	C	DD				DISABLE SOOT
4CV-25	"	18th EAST SIDE BOILER	N		C	C	C	"				BLOWING SYSTE
4CV-3	SECONDARY SUPERHTR. OUTLET HDR.	18th WEST SIDE BOILER	N		C	C	C	"				AT CONTROL
4CV-4	"	"	N		C	C	C	"				PANEL
4BV-35	HP EXTRACTION DRAIN HDR.	4th S.E. Side BOILER	N		C	C	C	"				
4BV-178	"	1½ floor N.E side of BOILER (M20)	N		C	C	C	"				

IP14_006345

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: REHEAT SYSTEM P&ID # 2SGJ-M2071

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-56	STEAM TRAP 1 INLET ISOL. VLV.	GF 204-B	CR II	O	C							
BV-57	STEAM TRAP 1 OUTLET ISOL. VLV.	"	CR II	O	C							
MBV-16	HOT REHEAT DRAIN TO DESPRHTR 3	GF - 204-C	N	C	C	C	C	[illegible]				
MBV-14	"	"	N	C	C	C	C	[illegible]				
MBV-18	COLD REHEAT DRN TO DESPRHTR 2	GF - 204-B	N	C	C	C	C	[illegible]				
ACV-58	ATTEMPERATOR SPRAY WATER FROM BFPT'S	7th FLOOR EAST ELEV.	N	C	C	C	C	[illegible]				
ABV-66	"	"	N	C	C	C	C	[illegible]				
ACV-59	"	"	N	C	C	C	C	[illegible]				
ABV-67	"	"	N	C	C	C	C	[illegible]				
BV-90	COND. to CRH DSPRH 2	L mezz south of cond	CR II	O	C							

IP14_006346

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date _____

SYSTEM: EXTRACTION TRAPS & DRAINS P&ID # 2TEC-M2075

CRITICAL VALVES (1/4)

Valve #	Description		Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-27	LP HTR 2	LP TURB SECTION 1B	BSMT. N.W. CORNER OF CONDENSER ON BOTTOM ROW	CR III	O	C							
BV-31	LP HTR 2			CR III	O	C							
BV-35	LP HTR 3			CR III	O	C							
BV-39	LP HTR 3			CR III	O	C							
BV-43	LP HTR 4			CR III	O	C							
BV-47	LP HTR 4			CR III	O	C							
BV-3	LP HTR 2	LP TURB SECTION 1A	BSMT N.E CORNER OF CONDENSER	CR III	O	C							
BV-7	LP HTR 2			CR III	O	C							
BV-11	LP HTR 3			CR III	O	C							
BV-15	LP HTR 3			CR III	O	C							
BV-19	LP HTR 4			CR III	O	C							
BV-23	LP HTR 4			CR III	O	C							
BV-51	LP HTR 2	LP TURB. SECTION 1C	BSMT. N.W. CORNER OF CONDENSER TOP ROW	CR III	O	C							
BV-55	LP HTR 2			CR III	O	C							
BV-59	LP HTR 3			CR III	O	C							
BV-63	LP HTR 3			CR III	O	C							
BV-67	LP HTR 4			CR III	O	C							
BV-71	LP HTR 4			CR III	O	C							
BV-65	LT. HTR 4		BSMT. N.W CORNER CONDENSER CEILING	CR III	O	C							
BV-73	HP HTR's 8A & 8B		GF - EAST OF LUBE OIL CENT	CR I	O	C							
BV-79	HP HTR 8A		"	CR I	O	C							
BV-75	HP HTR's 8A & 8B		"	CR I	O	C							
BV-81	HP HTR 8A		"	CR I	O	C							
BV-105	HP HTR 6B			CR I	O	C							

IP14_006347

... PERFORMANCE TESTING UNIT 2 Test # 586

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

SYSTEM: EXTRACTION TRAPS & DRAINS P&ID # 2TEC-M2075

CRITICAL VALVES (Cont.) 2/4

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments

IP14_006348

... PERFORMANCE TESTING UNIT 2 Test # 286

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: EXTRACTION TRAPS & DRAINS P&ID# 2TEC-M2075 pg 3 of 4

NON-CRITICAL VALVES

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
TEC-ACV-74	HP HTRS 8A & 8B EXTRACTION DRAIN	GF BY Uo CONT.	N	C	C	C	C	[illegible]				
ACV-80	HP HTR 8A EXTRACTION DRAIN	"	N	C	C	↓	↓	↓				
ACV-86	HP HTR 8B EXTRACTION DRN.	"	N	C	C							
ACV-92	HP HTRS 6A & 6B EXTRCT. DRN.	"	N	C	C							
ACV-98	HP HTR 6A EXTRCT. DRN.	"	N	C	C							
ACV-104	HP HTR 6B EXTRCT. DRN.	"	N	C	C							
ACV-140	BFPT 1B EXTRCT DRN.	"	N	C	C							
ACV-134	BFPT 1A EXTRCT. DRN.	"	N	C	C							
ACV-128	DEA HTR 5 EXTRCT. DRN.	"	N	C	C							
ACV-122	BFPT 1A & 1B EXTRCT DRN.	"	N	C	C							
ACV-116	DEA HTR 5 EXTRCT. DRN.	"	N	C	C							
ACV-110	"	"	N	C	C							
ACV-26	LP HTR 2 EXTRCT DRN	GF NWEST OF LP COND	N	C	C							
ACV-30	"	"	N	C	C							
ACV-34	LP HTR 3 EXTRCT DRN	"	N	C	C							
ACV-38	"	"	N	C	C							
ACV-42	LP HTR 4 EXTRCT DRN	"	N	C	C							
ACV-46	"	"	N	C	C							
ACV-50	LP HTR 2 EXTRACTION DRN	"	N	C	C							
ACV-54	"	"	N	C	C							
ACV-58	LP HTR 3 EXTRACTION DRN	"	N	C	C							
ACV-62	"	"	N	C	C							
ACV-66	LP HTR 4 EXTRACTION DRN	"	N	C	C							
ACV-70	"	"	N	C	C	↓	↓	↓				

IP14_006349

UNIT C TEST 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: EXTRACTION TRAPS & DRAINS P&ID# 2TEC-M2075 pg. 4 of 4

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	Position - Before Test As left	Position - Before Test Initials	Position - After Test As Found	Position - After Test As Left	Position - After Test Initials	Comments
ACV-2	LP HTR 2 EXTRACTION DRN	GF WEST OF 40 CENT.	N	C	C	C	C	[illegible]				
ACV-6	"	"	N	C	C							
ACV-10	LP HTR 3 EXTRACTION DRN	"	N	C	C							
ACV-14	"	"	N	C	C							
ACV-18	LP HTR 4 EXTRACTION DRN	"	N	C	C							
ACV-22	"	"	N	C	C							
ACV-146	BFPT 1C to LP COND	2ND	N	C	C							
ACV-152	BFPT 1A to HP COND	"	N	C	C							
3V-163	MISC. DRAINS RECH. TANK DRN	GF MISC. DRAINS RCVR.	N	C	C							

IP14_006350

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5.&6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date _____

SYSTEM: HIGH PRESSURE HEATER DRAINS P+ID# 2TED-M2076

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
SV-20	HTR 8A ALTN (HI LEVEL) DUMP	Ground Floor East Side Cond 1A	CRI	O	C							
SV-19	"	"	CRI	O	C							
SV-22	HTR 8B ALTN (HI LEVEL) DUMP	"	CRI	O	C							
SV-21	"	"	CRI	O	C							
SV-28	HTR 7A ALTN (HI LEVEL) DUMP	"	CRI	O	C							
SV-27	"	"	CRI	O	C							
SV-30	HTR 7B ALTN (HI LEVEL) DUMP	"	CRI	O	C							
SV-29	"	"	CRI	O	C							
SV-36	HTR 6A ALTN (HI LEVEL) DUMP	"	CRI	O	C							
SV-35	"	"	CRI	O	C							
SV-38	HTR 6B ALTN (HI LEVEL) DUMP	"	CRI	O	C							
SV-37	"	"	CRI	O	C							
CV-13	HPHtr Drains Pump 1A Recirc	3rd Floor Near HP Htr 6A	N	C	C	C	C	DD				
CV-14	" 1B	" 6B	N	C	C	C	C	DD				

IP14_006351

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Date: _____

SYSTEM: LOW PRESSURE HEATER DRAINS P&ID# 2TEE-M2077 / 2FWF-M2040

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-17	Htr 4 ALTN (HI LEVEL) DUMP	Mezz floor West Side Condic	CRI	O	C							
BV-9	"	"	CRI	O	C							
BV-19	Htr 3 ALTN (HI LEVEL) DUMP	Ground floor West Side Condic	CRI	O	C							
BV-11	"	"	CRI	O	C							
BV-21	Htr 2 ALTN (HI LEVEL) DUMP	"	CRI	O	C							AT LOW LOAD MAY LEAVE ALT DRN VLV to LP HTR 2 OPEN & CLOSE NORMAL DRAIN BV-12, 20
BV-13	"	"	CRI	O	C							
BV-22	FLASH TANK ALTN (HI LEVEL) DUMP	Ground floor SW Corner Condic	CRI	O	C							
BV-15	"	"	CRI	O	C							
BV-129	Cycle MU to LP DRNS	Ground floor @ DRN COOLER	N	C	C	C	C	[illegible]				
FWF (M2040)												
BV-66	Cycle MU to LP DRNS	Ground floor Overhead So. of DRNCLR	N	O	C	C	C	[illegible]				

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ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: HEATER VENTS & MISCELLANEOUS DRAINS P&ID # 2TEF-M2078A page 1 of 2

alve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-3	DEA HTR 5 CONTINUOUS VENT to ATM	14th	CR II	O	C							
BV-7	"	"	CR II	O	C							
BV-11	"	"	CR II	O	C							
BV-75	CONTINUOUS VENT HP HTR 8A TO DEA 5	6th	CR II	O	C							
BV-76	HP HTR 7A CONTINUOUS VENT TO DEA HTR 5	5th	CR II	O	C							
BV-77	HP HTR 6A CONTINUOUS VENT TO DEA HTR 5	3rd	CR II	O	C							
BV-80	"	"	CR II	O	C							
BV-79	HP HTR 7A "	5th	CR II	O	C							
BV-78	HP HTR 8A	6th	CR II	O	C	R	R					
BV-85	HP HTR 6A S/U VENT TO DEA HTR 5	3rd	N	C	C	c	c	DRO				
BV-86	"	"	N	C	C	c	c	DRO				
BV-91	HP HTR 6B S/U VENT TO DEA HTR 5	"	N	C	C	c	c	DRO				
BV-92	"	"	N	C	C	c	c	DRO				
BV-83	HP HTR 7A S/U VENT TO DEA HTR 5	5th	N	C	C	c	c	DRO				
BV-84	"	"	N	C	C	c	c	DRO				
BV-89	HP HTR 7B S/U VENT TO DEA HTR 5	"	N	C	C	c	c	DRO				
BV-90	"	"	N	C	C	c	c	DRO				
BV-81	HP HTR 8A S/U VENT TO DEA HTR 5	6th	N	C	C	c	c	DRO				
BV-82	"	"	N	C	C	c	c	DRO				
BV-87	HP HTR 8B S/U VENT TO DEA HTR 5	"	N	C	C	c	c	DRO				
BV-88	"	"	N	C	C	c	c	DRO				
BV-2	DEA HTR 5 Bypass CONTINUOUS VENT TO ATMOS	14th	N	C	C	c	c	DRO				
BV-4	"	"	N	C	C	c	c	DRO				
BV-6	"	"	N	C	C	c	c	DRO				

IP14_006353

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: HEATER VENTS & MISCELLANEOUS DRAINS P&ID# 2TEF-M2078A page 2 of 2

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-8	DEA HTR 5 Bypass CONTINUOUS VNT TO ATMS	14th	N	C	C	c	c	DRO				
BV-10	"	"	N	C	C	c	c	DRO				
BV-12	"	"	N	C	C	c	c	DRO				
BV-14	"	"	N	C	C	c	c	DRO				

IP14_006354

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: HEATER VENTS & MISCELLANEOUS DRAINS P&ID # 2 TEF-M2078B

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-162	LP HTR 4 CONT. VENT	5th	CRII	O	C							
BV-163	LP HTR 3 CONT VENT	3RO	CRII	O	C							
BV-170	LP HTR 3 S/U VENT TO COND.	"	N	C	C	C	C	[illegible]				
BV-171	LP HTR 2 S/U VENT TO COND	Mezz	N	C	C	C	C	"				
BV-174	LP HTR 1A S/U VENT TO COND	"	N	C	C	C	C	"				
BV-173	LP HTR 1B S/U VENT	"	N	C	C	C	C	"				
BV-172	LP HTR 1C S/U VENT	"	N	C	C	C	C	"				
BV-168	DRAIN COOLER 1 VENT TO COND.	GF	N	C	C	C	C	"				
BV-169	LP HTR 4 S/U VENT	5th	N	C	C	C	C	"				

IP14_006355

HSME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: TURBINE P&ID # 2TGA-M2079

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
TGA-BV-5	SPRAY SUPPLY VLV FROM CONDENSING	3rd By GE Trailer	CRII	O	C							

TURBINE PERFORMANCE TESTING UNIT 2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: TURBINE SEALS & DRAINS P&ID# 2TGC-M2080A

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-58	AUX. STEAM TO COLD REHEAT	MEZZ. top of VALVE DECK	CRII	O	C							
BV-10	MAIN STEAM TO TURBINE SEALS & DRNS	MEZZ. MN STEAM	CRI	O	C							
MBV-16	AUX. STEAM TO COLD REHEAT	MEZZ. top of VALVE DECK	N	C	C	C	C	DD				
ACV-5	AUX. STEAM TO STEAM SEAL HDR	"	N	C	C	C	C	"				
MBV-6	"	"	N	C	C	C	C	"				
ACV-17	HP TURBINE LEAKOFF TO STEAM SEAL HDR	"	N	O	C	C	C	"				
ACV-1	MAIN STEAM TO STEAM SEAL HDR	"	N	O	C	Not	C	"				
MBV-2	"	"	N	O	C	C	C	"				
MBV-3	"	"	N	O	C	C	C	"				
BV-25	COND. TO STEAM SEAL DSPRHTR 1	MEZZ - STEAM PACKING EXHAUSTER	N	C	C	C	C	"				

IP14_006357

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 5 & 6

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ Date: _____

SYSTEM: TURBINE SEALS & DRAINS P&ID # 2TGC-M2080B

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
MBV-31	COMBINED REHEAT VALVE 1A3 AFTER SEAT DRN	MEZZ	N	O	C	C	C	[illegible]				
MBV-32	COMB. REHEAT VLV 1B3 AFTER SEAT DRN	"	N	O	C	C						
MBV-33	MN. STM. STOP VLV. 1A1 Before SEAT DRN	"	N	O	C	C						
MBV-37	TURB. CNTRL VLV 1A2 Before Seat DRN	"	N	O	C	C						
MBV-34	MN. STM STOP VLV 1B1 BSD	"	N	O	C	C						
MBV-38	TURB. CNTRL VLV 1B2 BSD	"	N	O	C	C						
MBV-35	MN. STEAM STOP VLV. 1C1 BSD	"	N	O	C	C						
MBV-39	TURB CNTRL VLV. 1C2 BSD	"	N	O	C	C						
MBV-36	MN. STEAM STOP VLV. 1D1 BSD	"	N	O	C	C						
MBV-40	TURB. CONTROL VLV. 1D2 BSD	"	N	O	C	C						
MBV-49	DRAIN HDR CONTROL VLV.	GF	N	O	C	C						

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