TEST #3

Unit 2 - Turbine Tests

5/13/87 Wed. 430-630

590 MWg - 2nd VP

IP14_006039

ELECTRICAL LOAD

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

MEASUREMENT (CONTROL ROOM)

TEST POINT # 3
LOAD MWg 2nd VP 590
DATE 5/13/87
NAME CS Reece, IV

	TIME HR/MIN/SEC	COUNTS A PHASE	COUNTS B PHASE	COUNTS C PHASE
3:45	3:45:00	0	0	0
4:00	4:00:	00 1725	15 1745	30 1745
	4:15:00	?	3439	3380
	4:30:	00 5229	15 5177	30 5120
	4:44:00	6868	6759	6649
	5:00:	00 8704	15 8616	30 8504
	5:15:00	10435	10310	10142
	5:30	00 12173	15 12060	30 11891
	5:45:00	13900	13751	13527
	6:00:	00 15633	15 15503	30 15276
	6:15:00	17362	17197	16911
	6:30:00	19099	18926	18608

NOTE: TAKE PICTURES OF ELECTRICAL LOAD EVERY 15 MINUTES. RECORD VALUES FROM PICTURES TO THIS DATA SHEET.

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

Test Point # 3
MW g
Date 5/13/87
Observer L. LEWIS

CONDENSER HOT WELL LEVEL \ MEASUREMENT

TIME	C HOOD LEVEL	B HOOD LEVEL	A HOOD LEVEL
0345	12 5/8	12 3/8	FULL
0400	12 5/8	12 3/8	
0415	12 1/2	12 1/4	
0430	12 7/16	12 1/8	
0445	12 1/4	12	
0500	12 1/4	11 7/8	
0515	12 1/4	11 11/16	
0530	12	11 5/8	
0545	11 7/8	11 1/2	
0600	11 3/4	11 3/8	
0615	11 3/4	11 3/8	
0630	11 3/4	11 1/4	

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

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

Test Point # 3
MW g
Date 5/13/87
Observer

DEARRATOR LEVEL

TIME	LEVEL LOW	LEVEL HIGH
345	10.00	11.00
400	9.25	11.00
4:15	9.50	10.50
4:30	9:75	10.75
4:45	10.00	11.00
5:00	9.75	10.75
5:15	10.00	11.25
5:30	9.75	11.00
5:45	10.00	11.00
6:00	10.00	11.00
6:15	10.50	11.50
6:30	10.00	11.25

NOTE: READ DEARRATOR LEVEL LOCALLY EVERY 15 MINUTES.

Test Pt 3

0931975 Booster
1180217 Main
037555 Time
0618428
0760794
1128311
99430
0618428
0634380
1025920
90423
0618428
0508000
0923894
81427
0618428
0381938
0821892
72441
0618428
0255900
0719569
63432
0618428
0129400
0617368
54432
0618428
0000276
0514242
45361
0571367
0000000
0477064
42089
0451094
0000000
0373785
32986 *
0416524
0000000
0344635
30422
0395591
0000000
0328445
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE Z70T151

Test Point # 3
MW g
Date 5/13/87
Observer

STEAM PACKING EXH DRAIN FLOW

TIME	TIME INCREMENT
0220	2:58.29
	3:01.97
0630	3:25:56
	3:21.26

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

Distance between upper and lower marks. 24" (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.

5/13/87 2nd VP

Time	Bar. Pressure in Hg	Temp. F
3:58	25.40	73
4:49	25.40	72
5:47	25.40	72
6:33	25.40	72

Boiler Feed Pumps 5/13/87 2nd VP
Indikon

Time	BFP A			BFP B		
	SPEED	TORQUE	HP	SPEED	TORQUE	HP
3:57	4609	8380	7350	4654	8980	7950
4:02	4602	8340	7310	4640	8930	7940
4:18	4612	8380	7360	4653	8870	7850
4:32	4597	8320	7280	4638	8900	7850
4:49	4607	8350	7300	4648	8950	7910
5:02	4610	8370	7360	4661	9060	8050
5:17	4585	8190	7100	4628	8770	7830
5:32	4599	8160	7090	4654	8980	7960
5:47	4605	830	7290	4620	8920	7890
6:02	4595	8300	7270	4641	8930	7870
6:16	4604	8430	7453	4643	8950	7900
6:33	4593	8300	7220	4644	8960	7920

5/13/87 Test #3
2nd VP

For all samples:
estimate flow in trough - each separate
- also chemical feed - ammonia
- hydrazine

anything coming out panel

Flowrate & strokes on feed pumps - hydrazine & ammonia

~~LAB - FLOW MEASUREMENTS~~

			Flow
cond pump	Sample #2	15 sec/1 liter	4 l/min + 250 cm³/min
	total	4.25 liter/min	
DA	Sample #10	825 ml/min	no flow
drum	Sample #12	1 liter/2 min 9 sec	+ 250 ml/min

put in 90 gal hydrazine every two weeks
30 gal hydrazine with 60 gal water

ammonia 50% on hydrazine
20% on ammonia
stroke rate on pump

IP14_006047

Test #3 5/13/87
2nd VP

BSMT - West End Condenser 1C - LP HTR 2 Hi Level DR To CND 1C

@ 3:53	160	°F
4:08	159	
4:47	160	
5:01	168	
5:10	165	
5:27	162	
5:56	167	
6:12	166	
6:34	164	

Test#3

Main

4:00 630

Raw Data

2min

430-630

Backup

Stat

2min

COAL SAMPLES

5/13/87
Test 3

3:30	2A
4:30	2C
5:30	2E

BLR AUX TEST-3 05/13/87 02:57:53

TOTAL OIL	TOT COAL
02123409.	00321288.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006040.	00004586.	00006803.	00004594.
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_006051

BLR AUX TEST-3 05/13/87 03:46:25

TOTAL OIL	TOT COAL
02123934.	00321468.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006043.	00004590.	00006807.	00004598.
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_006052

BLR AUX TEST-3 05/13/87 04:02:03

[redacted] [redacted]

02124104. 00321526.

GAL. TONS

TOTAL TOTAL
IGNTR COAL
OIL

[redacted] [redacted] [redacted] [redacted]

00006044. 00004591. 00006889. 00004599.

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

1A1 1A2 1B1 1B2
AUX AUX AUX AUX
POWER POWER POWER POWER

L/L SCN L/L < > L/L L/L GTD[redacted]

IP14_006053

BLR AUX TEST-3 05/13/87 04:19:25

02124291.	00321590.
GAL.	TONS
TOTAL	TOTAL
IGNTR	COAL
OIL	

00006046.	00004593.	00006810.	00004601.
MW/HR	MW/HR	MW/HR	MW/HR
1A1	1A2	1B1	1B2
AUX	AUX	AUX	AUX
POWER	POWER	POWER	POWER

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

BLR AUX TEST-3 05/13/87 04:33:14

TOTAL OIL	TOT COAL
02124376.	00321642.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006047.	00004594.	00006812.	00004602.
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_006055

BLR AUX TEST-3 05/13/87 04:45:46

TOTAL OIL	TOT COAL
021233427.	00321689.
	TONS
	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006048.	00004595.	00006813.	00004603.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

IP14_006056

BLR AUX TEST-3 05/13/87 05:02:28

TOTAL OIL	TOT COAL
02124496.	00321752.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006049.	00004596.	00006814.	00004604.
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_006057

BLR AUX TEST-3 05/13/87 05:16:18

TOTAL OIL	TOT COAL
02124554.	00321804.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006050.	00004597.	00006815.	00004606.
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_006058

BLR AUX TEST-3 05/13/87 06:33:09

02124894.	00322095.
CAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

00006853.	00004694.	00006823.	00004612.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

L/L BCH L/L < > L/L L/L GTD

IP14_006059

UNDER SOFTWARE LOCK 05/13/87 04:19:04 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	8.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.8 MW	SWGR 1B1 MEGAWATT		
APEKK0004	10.8 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
CDAXI027A	588. MW	UNIT LOAD		
APEKV0007	551.1 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.51 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	7.96 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	10.08 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	10.44 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	38.07 MW	TOTAL AUX POWER (ANALOG)		

BACKWARD PAGING AUXPWR

IP14_006060

UNDER SOFTWARE LOCK 05/13/87 04:36:13 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	8.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.8 MW	SWGR 1B1 MEGAWATT		
APEKK0004	10.8 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	589. MW	UNIT LOAD		
APEKV0007	551.1 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.61 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	8.09 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.86 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	10.44 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	38.00 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006061

UNDER SOFTWARE LOCK 05/13/87 04:53:04 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	8.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.2 MW	SWGR 1B1 MEGAWATT		
APEKK0004	10.8 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	591. MW	UNIT LOAD		
APEKV0007	553.1 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.42 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	7.95 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	10.07 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	10.23 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	37.93 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006062

UNDER SOFTWARE LOCK 05/13/87 05:03:27 F1-28

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	8.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.2 MW	SWGR 1B1 MEGAWATT		
APEKK0004	10.0 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	590. MW	UNIT LOAD		
APEKV0007	553.4 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.37 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	8.04 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.63 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	10.42 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	37.37 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006063

UNDER SOFTWARE LOCK 05/13/87 05:38:53-F1-23

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	8.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.8 MW	SWGR 1B1 MEGAWATT		
APEKK0004	10.8 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	590. MW	UNIT LOAD		
APEKV0007	552.8 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.23 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	8.06 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	10.15 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	10.43 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	37.56 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_006064

UNDER SOFTWARE LOCK 05/13/87 04:07:40 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	2.9	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI118A	1.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	282.	DEGF	SEC AH 1A GAS OUT T		
SGBTE0929	268.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.337	LB/MB	STACK NOX CONVERTED		
SAAKK0002	429.	PPM	SCRUB INLET SO2		
SAAKK0004	21.9	PPM	STACK SO2		
HRCTE0377	81.	DEGF	IP COND 1B INLET T		
HRCTE0378	81.	DEGF	IP COND 1B INLET T		
HRCTE0379	82.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	81.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	106.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	105.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	111.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	66.0	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006065

NDER SOFTWARE LOCK 05/13/87 03:49:55 P1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	5.1	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	1.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	282.	DEGF	SEC AH 1A GAS OUT T		
SGBTE0929	268.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.342	LB/MB	STACK NOX CONVERTED		
SAAKK0002	424.	PPM	SCRUB INLET SO2		
SAAKK0004	21.9	PPM	STACK SO2		
HRCTE0377	82.	DEGF	IP COND 1B INLET T		
HRCTE0378	81.	DEGF	IP COND 1B INLET T		
HRCTE0379	81.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	81.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	113.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	106.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	105.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	111.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	65.7	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006066

UNDER SOFTWARE LOCK 05/13/87 04:19:31 F1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	3.1	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	1.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	282.	DEGF	SEC AH 1A GAS OUT T		
SGBTE0929	268.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.344	LB/MB	STACK NOX CONVERTED		
SAAKK0002	435.	PPM	SCRUB INLET SO2		
SAAKK0004	21.0	PPM	STACK SO2		
HRCTE0377	81.	DEGF	IP COND 1B INLET T		
HRCTE0378	81.	DEGF	IP COND 1B INLET T		
HRCTE0379	81.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	81.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	105.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	104.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	110.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	65.5	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006067

UNDER SOFTWARE LOCK 05/13/87 04:35:41 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	3.3	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	1.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	282.	DEGF	SEC AH 1A GAS OUT T		
SGBTE0929	269.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.349	LB/MB	STACK NOX CONVERTED		
SAAKK0002	450.	PPM	SCRUB INLET SO2		
SAAKK0004	21.9	PPM	STACK SO2		
HRCTE0377	81.	DEGF	IP COND 1B INLET T		
HRCTE0378	81.	DEGF	IP COND 1B INLET T		
HRCTE0379	81.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	81.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	106.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	103.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	110.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	65.4	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006068

UNDER SOFTWARE LOCK 05/13/87 04:52:40 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	3.5	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.4	INHGA	IP COND 1B SHELL PR		
COAXI110A	1.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	281.	DEGF	SEC AH 1A GAS OUT T		
SGBTE0929	269.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.341	LB/MB	STACK NOX CONVERTED		
SAAKK0002	457.	PPM	SCRUB INLET SO2		
SAAKK0004	22.9	PPM	STACK SO2		
HRCTE0377	81.	DEGF	IP COND 1B INLET T		
HRCTE0378	81.	DEGF	IP COND 1B INLET T		
HRCTE0379	81.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	81.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	105.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	103.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	110.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	63.9	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_006069

UNDER SOFTWARE LOCK 05/13/87 05:04:03 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
WRAPT0112	3.7	INHGA	HP COND 1A SHELL PR		
WRAPT0113	.3	INHGA	IP COND 1B SHELL PR		
COAXI118A	1.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	281.	DEGF	SEC AH 1A GAS OUT T		
SGBTE0929	269.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.338	LB/MB	STACK NOX CONVERTED		
SAAKK0002	462.	PPM	SCRUB INLET SO2		
SAAKK0004	23.9	PPM	STACK SO2		
WRCTE0377	81.	DEGF	IP COND 1B INLET T		
WRCTE0378	81.	DEGF	IP COND 1B INLET T		
WRCTE0379	81.	DEGF	LP COND 1C EAST INLET T		
WRCTE0380	81.	DEGF	LP COND 1C WEST INLET T		
WRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
WRCTE0394	105.	DEGF	IP COND 1B OUTLET T EAST		
WRCTE0397	104.	DEGF	HP COND 1A WEST OUTLET T		
WRCTE0401	110.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	64.1	PCT	TOTAL AIR FLOW		

BACKWARD PAGING DESK2

IP14_006070

UNDER SOFTWARE LOCK 05/13/87 03:49:41 PT-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LO

BLOCK	VALUE			STATUS	ALARM
COAXI027A	588.	MW	UNIT LO		
APEKY0005	[redacted]	MW	AUX PWR		
APEKX0005B	37.49	MW	TOTAL A	RE	
COAXI023A	3992.	KPPH	STEAM F		
COAXI015A	1005.	DEGF	THROTTL		
SGGTE0004	1006.	DEGF	MAIN ST		
COAXI012A	2409.	PSIG	TURBINE		
SGGPT0001	2411.	PSIG	MAIN ST		
SGJTE0013	995.	DEGF	TURBINE		
SGJTE0016	992.	DEGF	TURBINE		
SGJPT0006	344.	PSIG	TURBINE		
SGJPT0007	348.	PSIG	TURBINE		
COAXI021A	3992.	KPPH	FDW FLO		
FWAFT0025	3894.	KPPH	BOILER		
COAXI001A	224.5	TPH	TOTAL F		
COAXI080A	4.6	PCT	WEST FL		
COAXI079A	4.4	PCT	EAST FL		
COAXI083A	-.4	INWC	FURNACE		
SGAPT0171	-.6	INWC	SG EAST		

IP14_006071

UNDER SOFTWARE LOCK

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	589.	MW	UNIT LOAD		
APEKY0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	37.55	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	3982.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1008.	DEGF	THROTTLE TEMP		
SGGTE0004	1007.	DEGF	MAIN STEAM LINE T		
COAXI012A	2411	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2411.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	997.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	994.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	345.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	348.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	3976.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	3876.	KPPH	BOILER FEEDWATER F		
COAXI001A	224.1	TPH	TOTAL FUEL FLOW		
COAXI080A	4.2	PCT	WEST FLUE GAS O2		
COAXI079A	4.4	PCT	EAST FLUE GAS O2		
COAXI083A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006072

UNDER SOFTWARE LOCK 05/13/87 04:20:21 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	590.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	38.03	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	3988.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1005.	DEGF	THROTTLE TEMP		
SGGTE0004	1005.	DEGF	MAIN STEAM LINE T		
COAXI012A	2405.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2406.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	998.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	995.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	345.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	348.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	3988.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	3870.	KPPH	BOILER FEEDWATER F		
COAXI001A	226.3	TPH	TOTAL FUEL FLOW		
COAXI080A	4.5	PCT	WEST FLUE GAS O2		
COAXI079A	4.5	PCT	EAST FLUE GAS O2		
COAXI083A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.4	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006073

UNDER SOFTWARE LOCK 05/13/87 04:35:11 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	598.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	37.96	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	3974.	KPPH	STEAM FLOW (FW + SSP)		
COAXI015A	1011.	DEGF	THROTTLE TEMP		
SGGTE0004	1010.	DEGF	MAIN STEAM LINE T		
COAXI012A	2409.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2408.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1003.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	1000.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	345.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	348.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	3974.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	3925.	KPPH	BOILER FEEDWATER F		
COAXI001A	225.5	TPH	TOTAL FUEL FLOW		
COAXI080A	4.2	PCT	WEST FLUE GAS O2		
COAXI079A	4.0	PCT	EAST FLUE GAS O2		
COAXI083A	-.3	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006074

UNDER SOFTWARE LOCK 05/13/87 04:52:24 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	590.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKX0005B	37.37	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	3948.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1007.	DEGF	THROTTLE TEMP		
SGGTE0004	1007.	DEGF	MAIN STEAM LINE T		
COAXI012A	2411.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2412.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1002.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	999.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	345.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	347.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	3948.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	3866.	KPPH	BOILER FEEDWATER F		
COAXI001A	226.1	TPH	TOTAL FUEL FLOW		
COAXI080A	4.3	PCT	WEST FLUE GAS O2		
COAXI079A	4.9	PCT	EAST FLUE GAS O2		
COAXI083A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006075

UNDER SOFTWARE LOCK 05/13/87 05:04:26 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	589.	MW	UNIT LOAD		
APEKY0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	37.44	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	3987.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1009.	DEGF	THROTTLE TEMP		
SGGTE0004	1009.	DEGF	MAIN STEAM LINE T		
COAXI012A	2411.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2410.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1000.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	998.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	345.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	347.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	3987.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	3983.	KPPH	BOILER FEEDWATER F		
COAXI001A	226.3	TPH	TOTAL FUEL FLOW		
COAXI080A	4.3	PCT	WEST FLUE GAS O2		
COAXI079A	4.6	PCT	EAST FLUE GAS O2		
COAXI083A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.4	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING DESK1

IP14_006076

UNDER SOFTWARE LOCK 05/13/87 05:19:40 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	590.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	37.79	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	4032.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	1005.	DEGF	THROTTLE TEMP		
SGGTE0004	1005.	DEGF	MAIN STEAM LINE T		
COAXI012A	2411.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2412.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	1000.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	997.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	345.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	350.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	4032.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0023	3935.	KPPH	BOILER FEEDWATER F		
COAXI001A	227.0	TPH	TOTAL FUEL FLOW		
COAXI080A	4.6	PCT	WEST FLUE GAS O2		
COAXI079A	4.0	PCT	EAST FLUE GAS O2		
COAXI083A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.5	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_006077

TURBINE TEST

FIELD TEST NOTES

Nissen
5/13/87
Wed morning

TEST #3

→ 2nd Valve Point 590 MWg

Crack point of 3rd Valve

Cracking point 77 mils + 50 mils (Best Valve Pt)

Control Valve set @ 127 mils

Feedback Voltage 96855

TURBINE MANUAL

BOILER FOLLOW - controlling press

TAC indicating 5psi Low

vs GE test instr → 2406 psi throttle

4:30-630 — 635 last scan GE

TEST Time → ~~3:45-6:00~~

Delayed due to cycle isolation

↑ FGR flow

LP Htr 2/3 trips 4 - save

Return to service

GE Restart @ 430 Computer crash

630-700 Deisolated Criticals I/II's

700-730 Load ramp to 850 MWg

PROBLEM:

LP Htr #2 Normal Makup
- Alternate Drain <Had to open up>
High-High trip reset

LP Htr #3 Back into normal service
- Alternate Drains
High-High Alarm/trip reset
- Took LP Htr #4 into Alternate to Save
- Resetting Htr trips

→ Send LP Htr #2 Alternate Drains
Normal Makup Isolated valves wide open
Change cycle Isolation
Punch insulation hole / No TW
Flash Tank o/s (No flow)

⇒ Bill Morgan - Look into
→ level Control Htr #2
→ FGR Flow higher than normal

FGR - leakage Unit #2 problems?
check into

⊗ Scrubber Module trip high outlet temp quench
switched out modules ↑FGR Flow

Have to account for LPHtr #2
to Alternate Drains
in cycle heat balance
(Bypassing flash tank)
- Taking local readings Normal drains / Alternate drains

Isolating H_2 fill on Unit #2
low press (but hold steady) leakage? small
Do not want to effect test / fill between

Data Collection:

Electrical Load
A phase drifting?
@ 2:55 0 @ 3:40 63 counts

GE ran inter check yesterday - checked OK

Ran out of video copier paper @ ~530
Garry C. Lab measurements

CONTROL ROOM INFO - Status

	@ 3:50	@ 515	@ 605
Load	590 MWg	593	590
Throttle	2410 cycling +/- 15psi	2413	2398
Chest	2394	2397	2381
1st	1230	1232	1224
RH	371	373	371
Loadset	(610 MW)	611	611
—Load limiting			
CV	62%	62	62
CV's	71%/62%/42%/0		
Aux Pwr	38.0		
MStm	1005	1008	1005
Sprays prim/sec	Reads 10?/0		
MRH	995/996	1001/1002	1003/1004
Sprays	0		
TGSI			
BP A B C psig	1.95/2.02/1.22	1.95/2.02/1.20	1.93/2.00/1.19
FOXIA	121 122 1.9 96		
GEN			
PF	0.985 lagging		
MVAR	100		
Press TAC/local	(56.3)/57 LOW		56.1
purity locally	.95%	95	

7

IP14_006081

Turb Lube Oil 117°
FW BP
CY DP/DP 0/75

Bias Dampers RH 100%/PSH 15% Had to pinch down to make RH temp

		Feeder Rate	PA Flow	temp	Bias		O/S Bias
PWW	2H	68	87	155	80	2D	60%
	2C	68	85	151	80	2G	40%
	2E	67	87	152	80	2B	35%
	2A	66	87	152	80		
	2F	65	86	150	77		

Excess Air E/W 4.5/4.0

Drum Level +1/-1 | -1½
PA Duct 36½"
SA Duct 0.9, -1.1
BBFP 2A 2.1
2C 2.05
BFP 1A 1.95
1B 2.30

HW level 42
DA level 103

Throttle Flow KPPH 3985
FFW Flow 3971

IP14_006082

TEST SETUP:

Vacuum Pumps 1A / 1B / 1C / 1D I/S

1D common to 1A + 1B

Air Extraction A 32+ B 32+ C 18 D 32+

→ High air in-leakage

BBFP 2B took O/S to change strainer
hold off putting I/S till after test (filling)

Steam Seal TDV to Htr 1A

FW Htrs:

LP Htr 2 Drains thru Alternates

Flash Tank bypassed No Level

Gland Stm 2.9 psig

Stator Clg Wtr Pump 1A I/S

Pulverizers (5) $2H_{3R}$ / $2C_{2R}$ / $2E_{4F}$ / $2A_{3F}$ / $2F_{2F}$

Closed SH + RH Desuperheater - Block Valves

4 ID Fans

2 FD Fans - low 2 PA Fans - low

2 BBFPs (2B O/S)

2 CP's (2C O/S)

CRH Header Drain Valve
2SGJ MBY-18 Closed
BY-17 - Isolated

Cond Control Valves (1.)
2FWC-ACV-1

Polishers 3 I/s
Bypass Closed

APH O/S

1 CCCW Pump I/s (1B O/s)

All CT Fans I/s
CCW 81 HCW 107/102
3CWP's

5B - O/S
Before test 4AH-seq 1
2K-seq 1 / 3K-seq 1 / 1R-seq 1 majority except noise

NOTE:

Higher than design BP due to:
1) High Air In-leakage to Cond
(called in Vacuum Busters - identifying leakage points)
2) CT efficiency low

Nothing else we can do
(will be working on air-leakage points)
all CT Fans I/S

(8) BBFP Inj Seal Water
Sump Pump
cycling on + off

→ Need to investigate holding steady load - constant Reading

turbine meter flow measurement
→ cycling actual reading
→ Probably due to low flow
1-BBFP O/S + low loads

IP14_006085

Throttle Pressure

Cycling (Boiler follow to Max)

min 2398 | max 2408 ΔP = 20

very little todo to hold stabler pressure

Throttle Temp

Creeping Up - Pulling Out O_2 &

to lower

min 1005 / max 1012

HRM min 995 | 996 max 1004 | 1004

UO Gene Thorton
CO Scott Fullmer

OPI Lenard Wright

Tony Martinez
Rich Campbell

Operators (4) dedicated

Paul Spainhour
Chuck Reece

Garry Christensen
Aaron
Leon Lewis
Bernel Warner

Paul Albert
Walt Kellyhouse
Paul Bahrman

GE

NADWP-PD+C Amondo

IP14_006087

5/12/87
2ND VP
Test 3

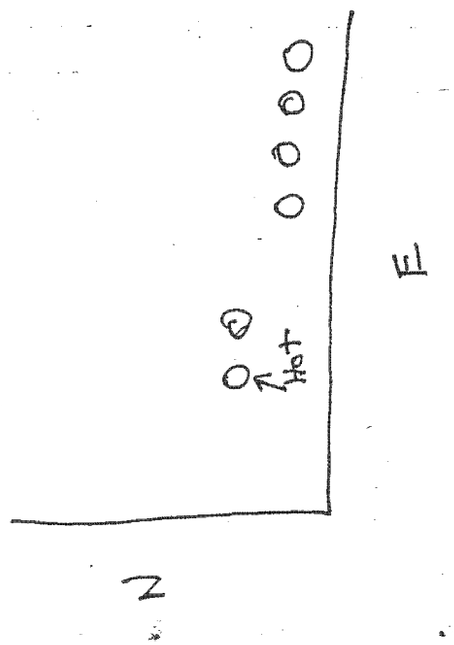
IPP # 1

ISOLATION - CHECK LIST

BOILER Roof

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

Blowdown Tank Vent (North side)



IPP # 1

ISOLATION - CHECK LIST

18th Floor - Top of Boiler

✓ Vent from each Reheat line
✓ Steam leakage near relief valves

212 T C Boiler Drum to Aux Steam (South) (Valve 1 & MBV 2)
* 196 Trap open
502 T C Superheat Steam to Aux Stm - (18th & 17th floor) (west)
171 T C Superheat Steam to Air Heater Soot Blowers (139, MBV 140)
290 T C Superheat Steam to Boiler Soot Blowers (141, MBV 142)
422 T C MS to Reheater Bypass (ACV 134, MUV 133)

303 T C Superheat Steam to Boiler Soot Blowers (143, MBV144) - ea
191/304 T C Combustion gas Reheat Soot Blowers (17, MBV-24) - east

✓ Continuous 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)
sample - closed

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

closed ~~open~~ 15th Pegging Steam to the DA
~~to~~ 0 Aux Stm HDR Press
C Boiler drains (west side) 37, 39, 41, 43, 45, 47, 49, 51
C Boiler drains (east side) 53

C 14th DA startup Vents to ATM
4 # of ORIFICED Vents Open
OK AIR Preheat Return to DA VALVE 140
HP HTR Vent to DA
hot 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
C 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

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

194 down stream / 259 warm up stream 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
or Relief valve from final feedwater - before flow sectio
open 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

C 7th RHT Spray VALVE STATION - ISOLATE
TB BLDG Roof Vents

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

5th — Chem. CLEANING CONNECTION TO AUX. STM.
ok 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. ____

C Feedwater Bypass around HTR's 6, 7, & 8
1 drain leaking to sump 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

7/

IPP #1

Isolation Check List

Boiler - 3 floor to Bsmt

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

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

OK 2ND FLOOR - EAST
BOILER DRAINS 170,69

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

Bsmt

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

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

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

OK 2ND FLOOR West
Boiler drains.

IP14_006094

IPP #1

Isolation Check List

Scrubber Bldg.

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

9/

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
leaking 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

1 line is warm 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
Check T: 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 desup
mezz near BFPT A exhaust to Condense

IP14_006096

IPP # 1

ISOLATION - Check List

Mezz - Cont.

✓ Normal make-up to Condenser (DI & TT) 31, 30 telltale 14
✓ 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

minor leak — 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
* open - normal drain closed — 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 58
H_2 Purity 95

IP14_006098

IPP #1

ISOLATION - Check List

Bsmt - Cont.

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

✓ Misc Drain tank to Sump
✓ Trap from Aux Steam HDR
Temp { 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
temp { SV & CV above seat drains
Equalizer Valve
Stm lead drains
CIV drains }
Temp * 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 }

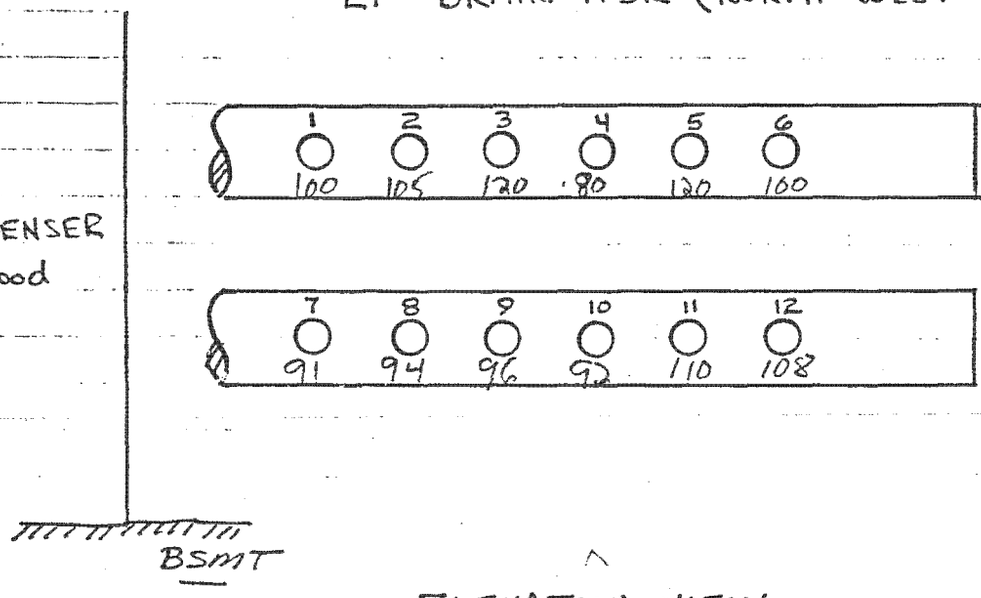
Samples

Chem. Feed

SUMPS

5/12/87 Test#3
2ND VP

LP DRAIN HDR (NORTH-WEST CORNER)



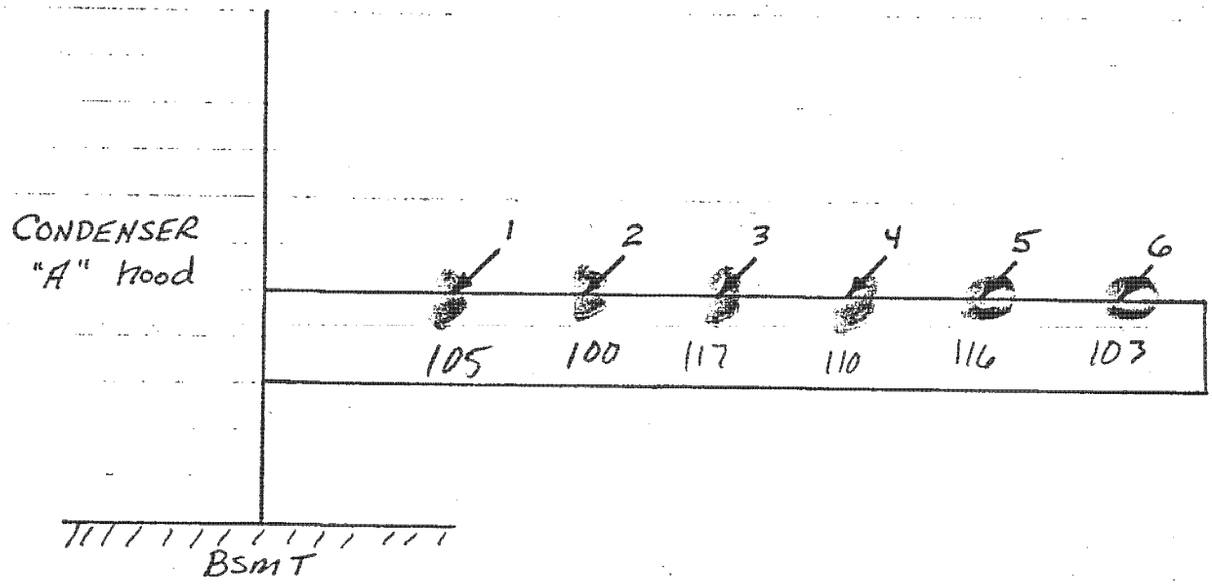
ELEVATION VIEW
(LOOKING WEST)

1)	EXTR	TO	HTR	2	FROM	hood	"C"	-	Drain	after	non-return	valv
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_006100

LP DRAIN HDR (NORTH-EAST CORNER)

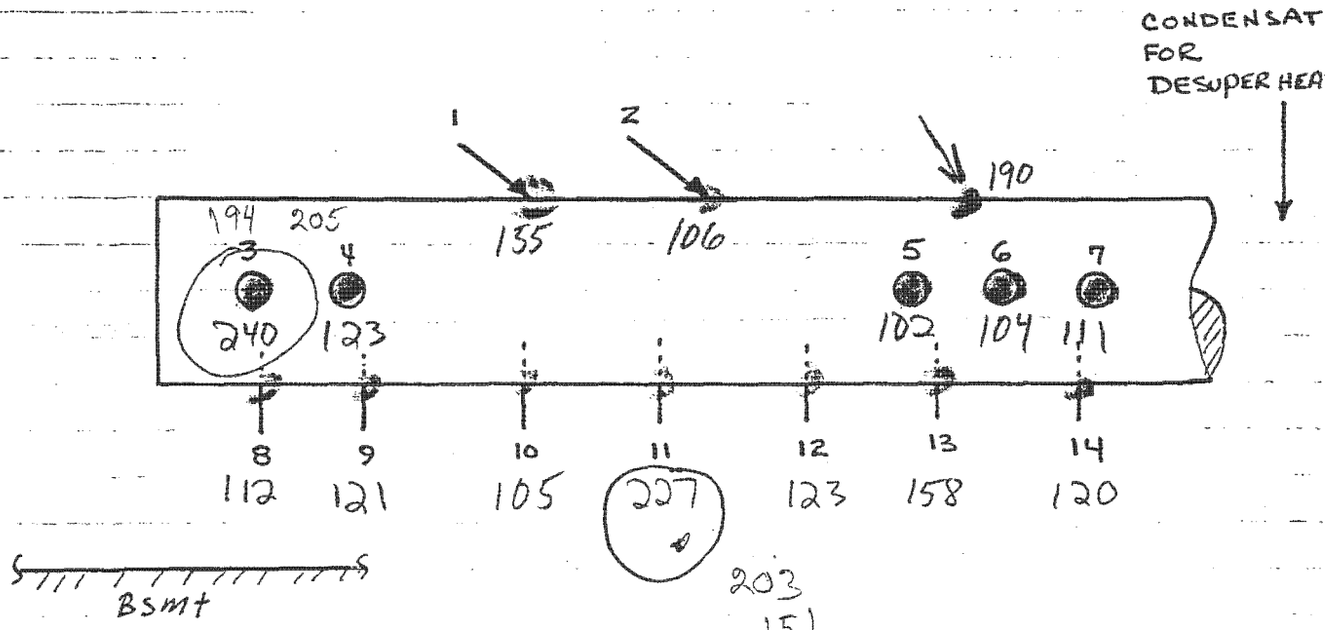


ELEVATION VIEW
(LOOKING WEST)

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

* ALSO CHECK TRAPS AND DRAINS TO SUMP

HP DRAIN HDR
(EAST SIDE - BSMT LEVEL)

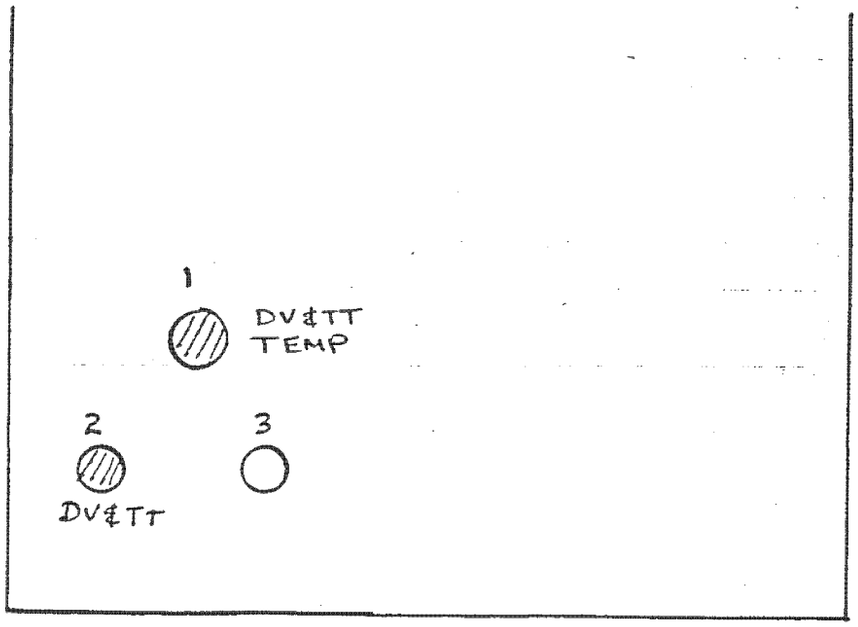


ELEVATION VIEW
(LOOKING SOUTH)

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

CONDENSER CONNECTIONS MEZZ - TB END



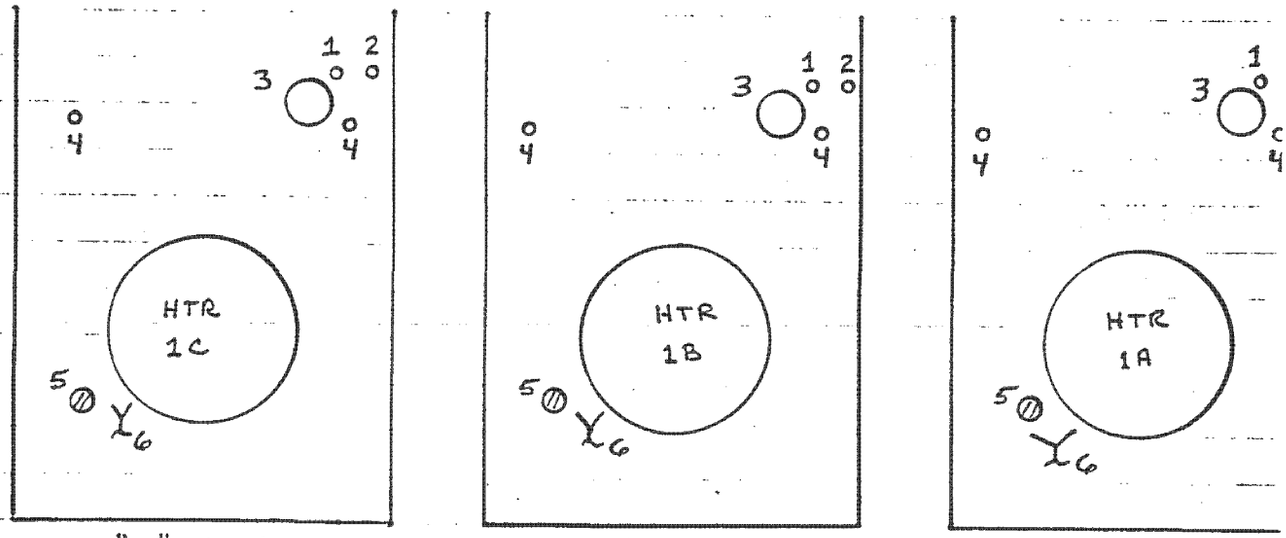
CONDENSER (MEZZ LEVEL)
(TB-END)

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

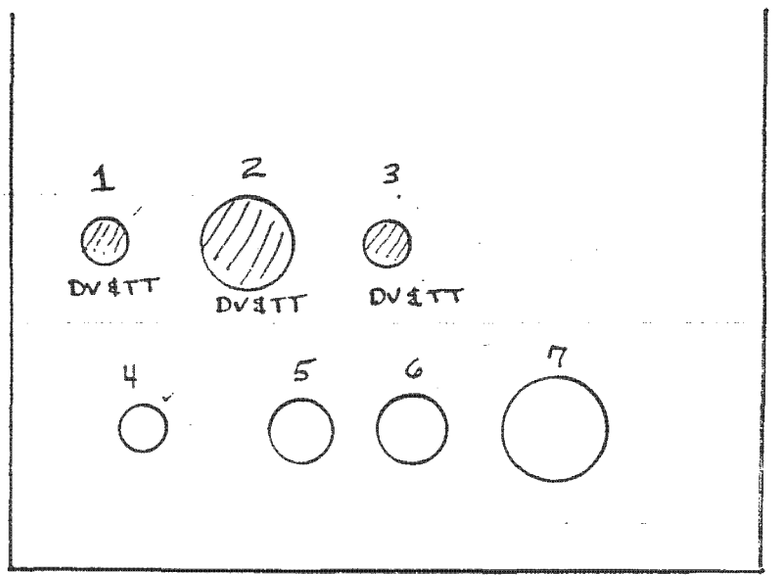
CONDENSER CONNECTIONS MEZZ - SOUTH



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.

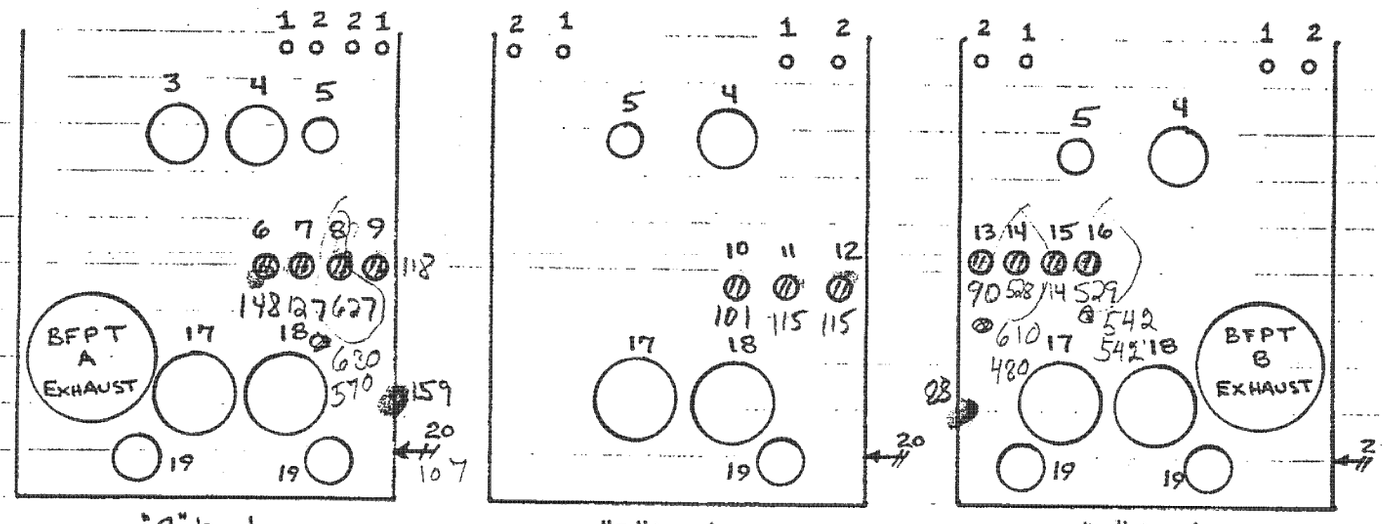
CONDENSER CONNECTIONS MEZZ – GEN. END



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

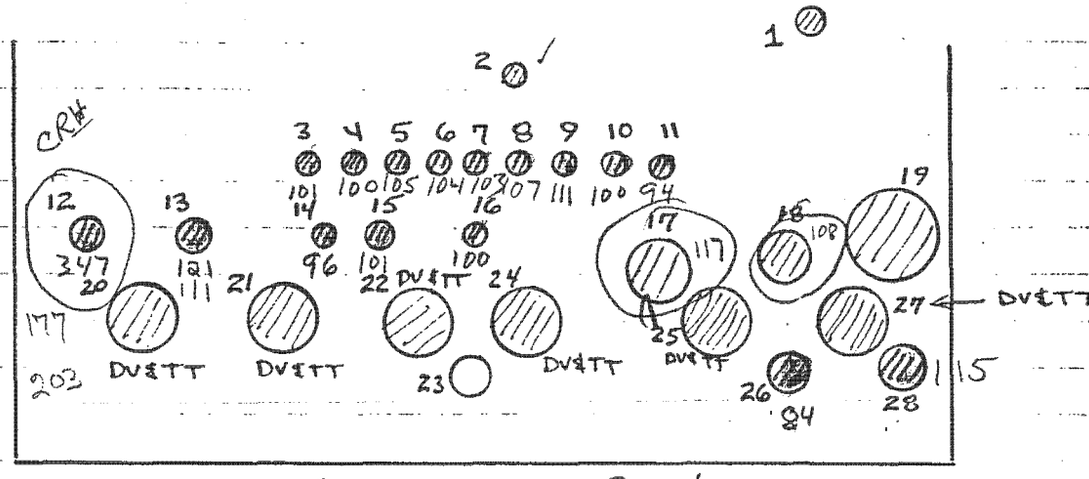


CONDENSER (MEZZ LEVEL)
(NORTH SIDE)

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

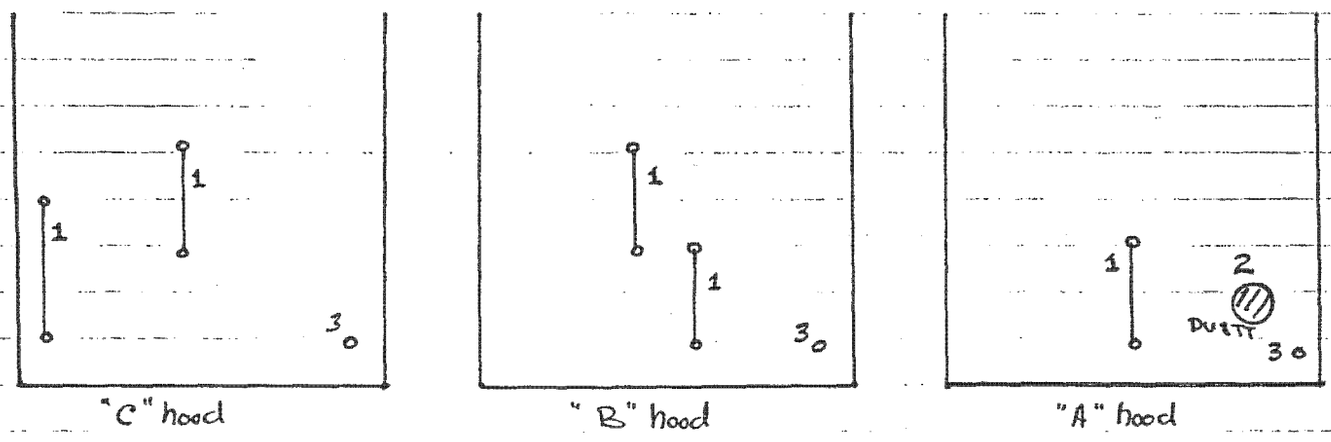


CONDENSER - Bsmt
(TB END)

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_006107

CONDENSER CONNECTIONS BSMT - SOUTH SIDE



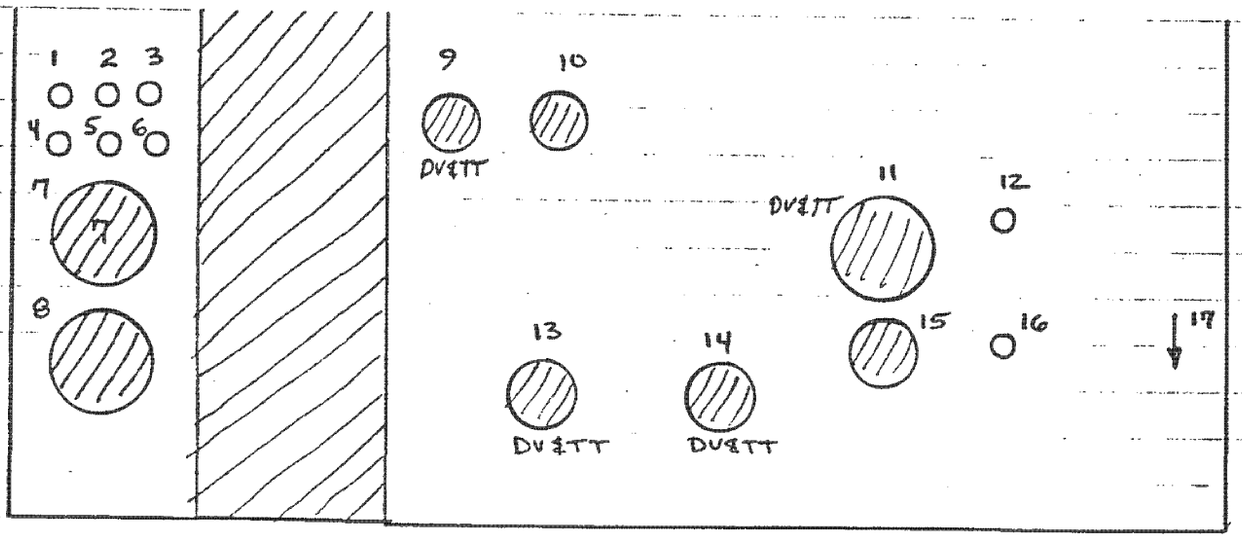
CONDENSER - BSMT
SOUTH SIDE

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

IP14_006108

CONDENSER CONNECTIONS

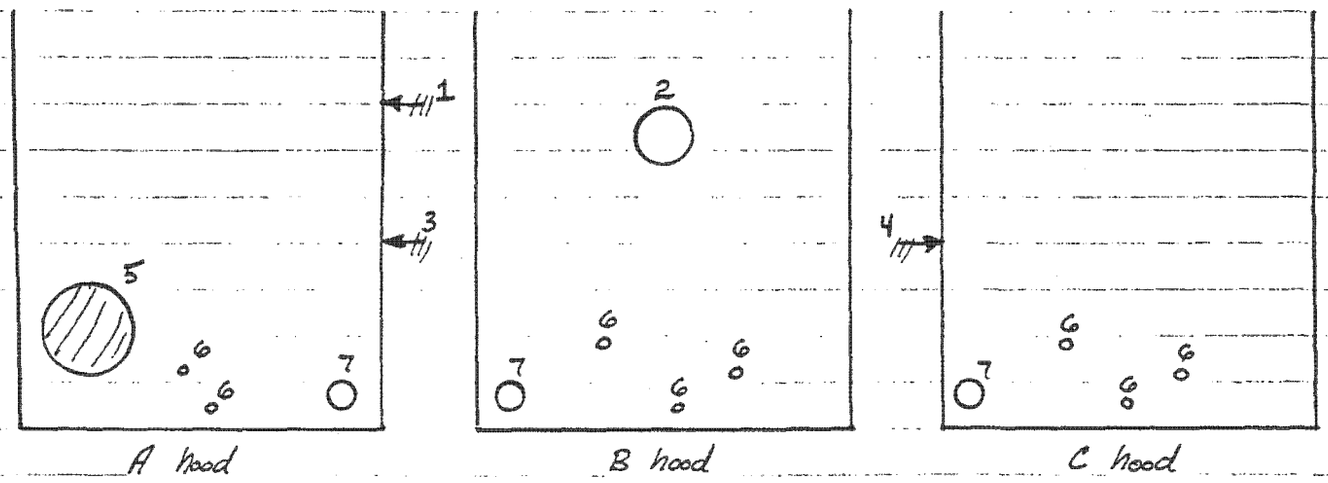
BSMT - GEN END



CONDENSER 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.

IP14_006110

MEZZANINE TC'S

5-13-87
Test #3

LP HTR 2 DR
To Flash TK 1
0
122

MS WARM LINE
107

MS DRAIN WARM LINE - 1MSDSH
113

MS DRAIN WARM LINE - 1MSDSH
88

BOOSTER BFP DISC
TO MAIN + STDY BF
94

HP Turb Seal
Leakoff to 14th STG
EXT

MS DRAINS TO
BLOWDOWN TANK
186
105
175
181

ST. SEAL
EXTRACTIONS
UP ½ LEVEL
273
326
387
705
479
370
460
439
432

299
297
276
289
258
227

DOWN ON MEZZANINE
TDV TO CONDENSER

UNDER SOFTWARE LOCK 05/13/87 03:01:40 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	683.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	138.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	414.	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	112.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	424.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	269.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006112

UNDER SOFTWARE LOCK 05/13/87 02:52:16 F1-20

MEASUREMENT DISPLAY

NP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	683.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	130.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	413.	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		
SGGTE8608	112.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	439.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	288.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006113

UNDER SOFTWARE LOCK 05/13/87 03:48:53 P1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
SGGTE1154	687. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	131. DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	388. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89. DEGF	DFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	77. DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8008	115. DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	397. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	205. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	388. DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367. DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	117. DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006114

UNDER SOFTWARE LOCK 05/13/87 04:05:50 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	689.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	130.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
~~SGGTE1153~~	~~380.~~	~~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	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	397.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	189.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006115

UNDER SOFTWAR 05/13/87 04:03:31 F1-28

MEASUREMENT

STM DRN HDR TEMPS

BLOCK	DESCRIPTION	STATUS	ALARM
SGGTE1154	HP HTRS 8A & 8B TURB DRAIN T		
SGFTE8418	HP HTR 8A EXTRACTION DRAIN T		
SGGTE1153	HP HTR 8B EXTRACTION DRAIN T		
SGFTE8417	HP HTRS 6A & 6B TURB DRAIN T		
SGGTE8419	P HTR 6A EXTRACTION DRAIN T		
SGGTE8888	HTR 6B EXTRACTION DRAIN T		
SGJTE1205	T 1B EXTRACTION DRAIN T		
SGJTE1206	T 1A EXTRACTION DRAIN T		
SGJTE1157	HTR 5 TURB EXTR DRAIN T		
SGJTE1158	1A & 1B TURB EXTR DRAIN T		
SGJTE8997	TR 5 TURB EXTR DRAIN T		
	R 5 TURB EXTR DRAIN T		
	D TO DSUPHTR LINE T		
	EXTR DR T		
	EXTR DR T		

WAIT FORWARD PAGING DRN2

IP14_006116

UNDER SOFTWARE LOCK 05/13/87 03:49:09 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HD

BLOCK	VALUE			STATUS	ALARM
TECTE1015	271.	DEGF	HP HTRS	IN	T
TECTE1016	120.	DEGF	HP HTR	IN	T
TECTE1017	185.	DEGF	HP HTR	IN	T
TECTE1018	132.	DEGF	HP HTRS	N	T
TECTE1019	114.	DEGF	HP HTR		T
TECTE1020	385.	DEGF	HP HTR		T
TECTE1021	116.	DEGF	BFPT 1B		
TECTE1022	117.	DEGF	BFPT 1A		
TECTE1023	119.	DEGF	DEA HTR		
TECTE1024	168.	DEGF	BFPT 1A		
TECTE1025	118.	DEGF	DEA HTR		
TECTE1026	119.	DEGF	DEA HTR		
TECTE0959	157.	DEGF	HP COND		
TECTE1045	153.	DEGF	BFPT 1A		
TECTE1046	135.	DEGF	BFPT 1B		

WAIT DRN3

IP14_006117

UNDER SOFTWARE LOCK 05/13/8 3:49:22 F1-28

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION
TECTE1027	115. DEGF	LP HTR 2 EXTRACTION DRAIN T
TECTE1028	112. DEGF	LP HTR 2 EXTRACTION DRAIN T
TECTE1029	244. DEGF	LP HTR 3 EXTRACTION DRAIN T
TECTE1030	220. DEGF	LP HTR 3 EXTRACTION DRAIN T
TECTE1031	107. DEGF	LP HTR 4 EXTRACTION DRAIN T
TECTE1032	121. DEGF	LP HTR 4 EXTRACTION DRAIN T
TECTE1033	142. DEGF	LP HTR 2 EXTRACTION DRAIN T
TECTE1034	150. DEGF	LP HTR 2 EXTRACTION DRAIN T
TECTE1035	284. DEGF	LP HTR 3 EXTRACTION DRAIN T
TECTE1036	252. DEGF	LP HTR 3 EXTRACTION DRAIN T
TECTE1037	158. DEGF	LP HTR 4 EXTRACTION DRAIN T
TECTE1038	140. DEGF	LP HTR 4 EXTRACTION DRAIN T
TECTE1039	117. DEGF	LP HTR 2 EXTR DRAIN T
TECTE1040	143. DEGF	LP HTR 2 EXTR DRAIN T
TECTE1041	242. DEGF	LP HTR 3 EXTR DRAIN T
TECTE1042	202. DEGF	LP HTR 3 EXTR DRAIN T
TECTE1043	134. DEGF	LP HTR 4 EXTR DRAIN T
TECTE1044	118. DEGF	LP HTR 4 EXTR DRAIN T

FORWARD P

IP14_006118

UNDER SOFTWARE LOCK 05/13/87 04:06:23 F1-28

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	115. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	118. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	226. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	204. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	119. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	118. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	139. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	146. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	267. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	233. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	157. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	138. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	123. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	145. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	226. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	166. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	133. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	118. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006119

UNDER SOFTWARE LOCK 05/13/87 04:21:26 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	688.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	738.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	371.	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	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	397.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	179.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

BACKWARD PAGING DRN1

IP14_006120

UNDER SOFTWARE LOCK 05/13/87 04:21:09 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	243. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	128. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	185. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	132. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	273. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	116. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	117. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	165. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	150. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	152. DEGF	BFPT 1A EXTR DR T		
TECTE1046	140. DEGF	BFPT 1B EXTR DR T		

BACKWARD PAGING DRN2

IP14_006121

UNDER SOFTWARE LOCK 05/13/87 04:20:49 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	113. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	120. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	212. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	193. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	172. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	116. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	137. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	143. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	253. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	219. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	155. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	137. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	124. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	145. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	213. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	146. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	133. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	118. DEGF	LP HTR 4 EXTR DRAIN T		

BACKWARD PAGING DRN3

IP14_006122

UNDER SOFTWARE LOCK 05/13/87 04:32:55 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
SGGTE1154	682. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	129. DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	366. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	87. DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	77. DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0808	114. DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	397. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	171. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379. DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367. DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117. DEGF	HOT RH DR DSUPHTR 3 T		

BACKWARD PAGING DRN1

IP14_006123

UNDER SOFTWARE LOCK 05/13/87 04:33:26 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	235. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	119. DEGF	HP HTR 8A EXTRACTION-DRAIN T		
TECTE1017	185. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	134. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	258. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	116. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	117. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	163. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	147. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	152. DEGF	BFPT 1A EXTR DR T		
TECTE1046	142. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006124

UNDER SOFTWARE LOCK 05/13/87 04:34:17 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	112. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	121. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	208. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	183. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	113. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	114. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	135. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	140. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	241. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	208. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	153. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	135. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	126. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	144. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	203. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	133. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	132. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	118. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_0061125

UNDER SOFTWARE LOCK 05/13/87 04:50:33 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	684.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	129.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	359.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	87.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	72.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0008	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	397.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	162.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006126

UNDER SOFTWARE LOCK 05/13/87 04:51:09 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM BRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	224. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	120. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	184. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	134. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	224. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	115. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	117. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	168. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	144. DEGF	HP COND TO DSUPHTR-LINE T		
TECTE1045	152. DEGF	BFPT 1A EXTR DR T		
TECTE1046	145. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRNE

IP14_006127

UNDER SOFTWARE LOCK 05/13/87 04:51:34 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	188. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	121. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	186. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	173. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	115. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	111. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	134. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	138. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	226. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	195. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	158. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	132. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	129. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	142. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	191. DEGF	LP HTR 3 EXTR DRAIN T		
ECTE1042	98. DEGF	LP HTR 3 EXTR DRAIN T		
CTE1043	138. DEGF	LP HTR 4 EXTR DRAIN T		
TE1044	116. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006128

UNDER SOFTWARE LOCK 05/13/87 05:04:52 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	686.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	129.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	352.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	87.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0008	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	397.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	155.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	379.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_006129

UNDER SOFTWARE LOCK 05/13/87 05:05:11 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	217. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	128. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	184. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	134. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	289. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	115. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	117. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	157. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	141. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	152. DEGF	BFPT 1A EXTR DR T		
TECTE1046	147. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_006130

UNDER SOFTWARE LOCK 05/13/87 05:05:34FFI-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	186. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	128. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	177. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	166. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	115. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	108. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	132. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	136. DEGF	LP HTR 2 EXTRACTION DRAIN T		
ECTE1035	216. DEGF	LP HTR 3 EXTRACTION DRAIN T		
ECTE1036	186. DEGF	LP HTR 3 EXTRACTION DRAIN T		
CTE1037	149. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TE1038	138. DEGF	LP HTR 4 EXTRACTION DRAIN T		
E1039	138. DEGF	LP HTR 2 EXTR DRAIN T		
1040	141. DEGF	LP HTR 2 EXTR DRAIN T		
1041	184. DEGF	LP HTR 3 EXTR DRAIN T		
042	77. DEGF	LP HTR 3 EXTR DRAIN T		
143	129. DEGF	LP HTR 4 EXTR DRAIN T		
14	115. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_006131

UNDER SOFTWARE LOCK 05/13/87 05:19:10 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	689.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	128.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	347.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	87.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	76.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0000	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	397.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	150.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	380.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	367.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

BACKWARD PAGING DRN1

IP14_006132

UNDER SOFTWARE LOCK 05/13/87 05:18:56 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	209. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	121. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	183. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	134. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	113. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	195. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	116. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	117. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	155. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	117. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	139. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	152. DEGF	BFPT 1A EXTR DR T		
TECTE1046	150. DEGF	BFPT 1B EXTR DR T		

BACKWARD PAGING DRN2

IP14_006133

UNDER SOFTWARE LOCK 05/13/87 05:18:42 F1-28

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	104. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	118. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	169. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	160. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	115. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	106. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	131. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	134. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	206. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	178. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	147. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	128. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	130. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	139. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	177. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	71. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	128. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	114. DEGF	LP HTR 4 EXTR DRAIN T		

BACKWARD PAGING DRN3

IP14_006134

TEST # 3,4 DATE 5/13/87

MASTER COPY

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	0 DA	DA	KS	DS
"	" 0020	" 8A NO HANDWheel	"				
"	" 0027	" 7A "	"	0 DA	DA	KS	DS
"	" 0028	" 7A "	"	0 DA	DA	KS	DS
"	" 0035	" 6A "	"	0 DA	DA	KS	DS
"	" 0036	" 6A "	"	0 DA	DA	KS	DS
"	" 0021	" 8B "	"	0 DA	DA	KS	DS
"	" 0022	" 8B "	"	0 DA	DA	KS	DS
"	" 0029	" 7B "	"	0 DA	DA	KS	DS
"	" 0030	" 7B "	"	0 DA	DA	KS	DS
"	" 0037	" 6B "	"	0 DA	DA	KS	DS
"	" 0038	" 6B "	"	0 DA	DA	KS	DS
M2020	2HRA-BV-0019	COND. NORMAL DRAWOFF	GF SW CORNER OF COND	0 JB	JB	JB	JB
"	-0020	"	"	C JB	JB	JB	JB
M2077	2TEE-BV-0011	LP HTR 3 ALT. HLVL DUMP	GF - West OF COND	0 JB	JB	JB	JB
"	" 0019	" 3 "	"	0 JB	JB	JB	JB
" at low load	" 0013	" 2 NORMAL "	"	0 JB	JB	JB	JB
"	" 0020 at high load 0021	" 2 " "	"	0 JB	JB	JB	JB
"	" 0015	FLASH TANK "	GF - SW OF COND	0 JB	JB	JB	JB
"	" 0022	" "	"	0 JB	JB	JB	JB

GF-EAST

IP14_006135

TEST # 3.4 DATE 7/17/97

PRIORITY I VALVES (PAGE 2 of 2)

P&ID	VALVE #	DESCRIPTION	LOCATION	VLV POSITION CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIAL
M2077	2TEE-BV-0009	LP HTR 4 ALT HLVL DUMP	MEZZ. WEST OF COND	O FT	FT	FT	FT
"	" 0017	"	"	O FT	FT	FT	FT
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"	O FT	FT	FT	FT
"	" 0027	" TURB.	"	O FT	FT	FT	FT
"	2FWC-MBV-90	"	"	O FT	FT	FT	FT
M2020	2HRA-BV-0030	COND. NORMAL MU	MEZZ SW CORNER OF COND.	O GENE	BG	BG	BG
"	" 0031	UO FILL HOTWELL	"	O GENE	BG	BG	BG
M2080A	2TEC-BV-0010	MN. STM. to TURBINE SEAL	MEZZ NE OF MN. STM HDR	O FT	FT	FT	FT
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd NE OF BFPT 1A	O MP	MP	MP	MP
"	" -10	" 1B	3rd SW OF BFPT 1B	O MP	MP	MP	MP
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th N of E ELEVATOR	O MP	N/A	C N/A	MP
"	" 0022	"	"	O MP	N/A	C N/A	MP
~~M2035A~~	~~2FWA-BV-37~~	~~BFPT 1A Recirc~~	~~15th~~				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBE OIL CENT.	O DA	DA	KS	DS
"	" 0079	HP HTR 8A "	"	O DA	DA	KS	DS
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAKOFF	MEZZ NW OF COND	O FT	FT	FT	FT
" TURB.	" 0390	" Seat DRAIN	"	O FT	FT	FT	FT
"	" 0389	" 1A1 " "	MEZZ N OF COND	O FT	FT	FT	FT
M2075	2TEC-BV-0075	HP HTRS 8A & 8B Extract	GF E OF LUBE OIL CENT	O DA	DA	KS	DS
"	" 0081	HP HTR 8A		O DA	DA	KS	DS
"	2TEC-BV-0105	HP HTR 6B	"	O DA	DA	KS	DS

TEST # 2,4 DATE 2/13/00

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	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	GF NW CORNER COND CEILING	O DA	DA	KS	DS
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B	O DA	DA	KS	DS
"	" 0057	" OUTLET	"	O DA	DA	KS	DS
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM	O DA	DA	KS	DS
"	" 0016	"	"	O DA	DA	KS	DS

GF - EAST

IP14_006137

TEST # 3,4 DATE 5-13-87

PRIORITY II VALVES (PAGE 2 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	KW POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2021	2HRB-BV-0109	SEPARATOR 1D Mu	MEZZ. CONDENSER VAC. PMPS	O JB	JB	JB	JB
"	" 0110	" 1C "	"	O JB	JB	JB	JB
"	" 0111	" 1B "	"	O JB	JB	JB	JB
"	" 0112	" 1A "	"	O JB	JB	JB	JB
M2079	2TGA-BV-0005	HOOD SPRAY SUPPLY	3rd by GE TRAILER	O JB	JB	JB	JB
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS VENT to COND	3rd LP HTR 3	O JB	JB	JB	JB
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS VENT to DEA	3rd HP HTR 6A	O JB	JB	JB	JB
"	" 0080	" 6B "	3rd HP HTR 6B	O JB	JB	JB	JB
"	" 0076	" 7A "	5th HP HTR 7A	O FT	FT	FT	FT
"	TURB 0079	" 7B "	5th HP HTR 7B	O FT	FT	FT	FT
M2078B	" 0162	LP HTR 4 " to COND	5th LP HTR 4	O FT	FT	FT	FT
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8A	O FT	FT	FT	FT
"	" 0078	" 8B "	6th HP HTR 8B	O FT	FT	FT	FT
M2035B	2FWA-BV-0202	Boiler Feed Sample 11 DNO	10th S OF MCC 2B09	O FT	FT	FT	FT
"	" 0203	"	"	O FT	FT	FT	FT
M2078A	2TEF-BV-0003	DEA CONTINUOUS VNT TO ATMOS.	14th top of DEA	O FT	MP	MP	MP
"	" 0007	"	"	O FT	MP	MP	MP
"	" 0011	"	"	O FT	MP	MP	MP
M20 M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	17th S	O MP	MP	MP	MP
"	" 0003	CONTINUOUS BLOWDOWN	18th E END OF DRUM	O MP	MP	MP	MP
"	" MBV-4	"	"	O MP	N/A	C N/A	MP
"	" MBV-2	STM SUPPLY to AUX STM	18th S OF DRUM	C MP	N/A	C N/A	MP
"	" BV-0001	"	"	O MP	N/A	C N/A	MP
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	9th Behind E ELEVATOR	O FT	N/A	C N/A	FT
"	" BV-12	TURB	"	C FT	N/A	C N/A	FT
"	" BV-14	"	"	O FT	N/A	C N/A	FT
"	" BV-58	2ND SUPERHEAT to AUX STM	17th W. SIDE	O MP	N/A	C N/A	MP
M2063A	2SGA-BV-0010	MN STM to AUX STM	"	O MP	N/A	C N/A	MP
"	2SGA-BV-0195	STEAM TRAP 2		O	N/A	C/NA	DS

TEST # 34 DATE 5/13/87

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 2A	C / JB	JB		
	B-2	open first		C / JB	JB		
	B-3			O / JB		JB	
	B-4			O / JB		JB	
"	B-5	FLOW METER 2 BFP	GF ABOVE BFPT LUBE OIL CENT.	C / JB	JB		
	B-6	open first		C / JB	JB		
	B-7			O / JB		JB	
	B-8			O / JB		JB	

TEST #_____ DATE_____

P&ID	VALVE #	DESCRIPTION		LOCATION	PRIORITY	CLOSED C INITIAL	OPEN C INIT
M2075	2TEC-BV-0027	LP HTR 2	LP TURB. SECTION 1B	GF - NW CORNER OF COND. - Bottom Row	III	DA	D
"	" 0031	"			III	DA	D
"	" 0035	LP HTR 3			III	DA	D
"	" 0039	"			III	DA	D
"	" 0043	LP HTR 4			III	DA	D
"	" 0047	"			III	JB	JI
"	" 0003	LP HTR 2	LP TURB. SECTION 1A	GF - NE CORNER OF COND.	III	DA	D
"	" 0007	"			III	DA	D
"	" 0011	LP HTR 3			III	DA	D
"	" 0015	"			III	DA	D
"	" 0019	LP HTR 4			III	JB	JI
"	" 0023	"			III	JB	JI
"	" 0051	LP HTR 2	LP TURB. SECTION 1C	GF - NW CORNER OF COND. TOP Row	III	JB	JI
"	" 0055	"			III	JB	JI
"	" 0059	LP HTR 3			III	JB	JI
"	" 0063	"			III	JB	JI
"	" 0067	LP HTR 4			III	JB	JI
"	" 0071	"			III	JB	JI
M2038 B	2FWD-BV-0121	COND. POLISH Regen Pump TURB.		GF	III	FT	FT
"	" 0125	"		"	III	FT	FT
M2008	2PSA-BV-0082	AUX. STM. TRAP 5		"	III	FT	FT
M2080A	2TGC-BV-0058	AUX. STM. to COND. RH		MEZZ. TOP OF VLV DECK NE OF MCC 2A03	III	FT	FT
M2069	2SGG-BV-0058	MN. STM. WARMING LINE		MEZZ.	III	FT	FT
M2068	2SGF-BV-0065	DOWNCOMER DRN. BLOWDOWN		MEZZ. S. SIDE Boiler	III	FT	FT
"	" 0055	LWR. CONVECTION PASS HDR		10th east	III	MP	MP
"	" 0057	"		"	III	MP	MP
"	" 0035	"		10th west	III	MP	MP
"	" 0028	"		"	III	MP	MP

TEST # 3,4 DATE 1/13/87

P&ID	VALVE #	DESCRIPTION	LOCATION	PRIORITY	CLOSE C INITIAL	OPEN O INITIAL
M2068	2SGF-BV-0041	SECOND. SPRHTR OUT HDR.	15th - West	III	c mP	mP
"	" 0043	" " INTERMED HDR	"	III	c mP	mP
"	" 0045	" " " "	"	III	c mP	mP
"	" 0049	" " PLATEN "	"	III	c mP	mP
"	" 0051	ROOF INLET HDR	"	III	c mP	mP
M2008	2PSA-BV-0026	TURBINE SEALS W/A STM	McEE 203-D	III	c FT	FT

TEST #3/4

PRID Checkoff List

PRIDS	NON-CRITICAL COMPLETE	CRITICAL COMPL	OPEN CRITICAL COMPLETE	OPEN NON-CRITICAL COMPLETE
9 PSA - M2008	RDG	N/A		
2 PSA - M2008	RDG			
2CCD - M2013A	RDG	N/A		
2HRA - M2020	RDG			
2HRB - M2021	N/A			
2 FWA - M2035A	RDG			
2FWA - M2035B	RDG			
2 FWA - M2035C	RDG * [illegible]			
2 FWC - M2037	RDG			
2FWD - M2038A	RDG			
2 FWD - M2038B	N/A			
2 SAC - M2054 A	RDG			
2SCA - M2056A	RDG			
2SGA - M2063A	RDG			
2 SGA - M2063 B	RDG			
2 SGC - M2065	RDG	N/A		
2SGF - M2068	RDG			
2 SGG - M2069	RDG			
2 SGI - M2070	RDG	N/A		
2 SGJ - M2071	RDG			
2 TEA - M2073	RDG			
2TEC - M2075	RDG			
2TED - M2076	RDG			
2TEE - M2077	RDG			
2FWF - M2040	RDG			
2TEF - M2078A	RDG			
2 TEF - M2078B	RDG			
2 TGA - M2079	N/A			
2 TGC - M2080A	RDG			
2 TGC - M2080B	RDG	N/A		
2FWB - M2036	N/A			

M2008 2PSA-BV-7, 8 ok

M2020 2HRA-BV-33, 34, 23, 24, ~~71, 179~~ ok

M2035A ~~2FWA-BV-298~~, ACV-15, BV-188 ✓

M2063A 2SGA-MBV-142, BV-141, MBV-140, BV-139 ✓

Non-critical valves to be restored after test 3 & 4 on 5/13/87

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

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	DS				
BV-20	Make-up from U1/U2 D.A	Aux. Boiler	N		C	C	C	DS				
BV-22	Make-up from U1/U2 D.A	Aux Boiler	N	C	C	C	C	DS				
BV-18	Make-up from U1 D.A	Unit 1 Bsmt BBFP 2C	N		C	C	C	DS				

IP14_006144

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/4

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

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	DL				
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	DL				
BV-12	CRH Supply to Aux Stm	"	CRIII	O	C							
BV-14	CRH Supply " "	"	CRIII	O	C							
BV-15	CRH Supply " "	"	N	C	C		C	DL				
BV-133	Aux Stm to DA Tank	13th floor behind west elev - on DA tank	N	O	C		C	DL				
BV-6	" " " "	"	N	O	C		C	DL				
(BV-134)	tell tale valve	"	N	C	C		C	DL				
BV-7	CNDS to Aux Stm DSH	5th floor by east elevator	N	O	C	O	C	KM	+C	O	AN	
BV-8	" " " "	"	N	O	C	O	C	KM	+C	O	AN	
BV-9	" " " "	"	N		C		C	DL				
BV-19	Aux Stm to BFPT	Mezz Floor NE corner	N	O	C		C	DL				
BV-18	" " " "	" "	N	O	C		C	DL				
(BV-39/40)	tell tale	" "	N	C	C		C	DL				
TEA(M2073) BV-118	Aux Stm to BFPT	Mezz Floor NE corner	N	O	C		C	DL				
BV-82	STEAM TRAP #5	BSMT. NE CORNER OF TURB PEDISTAL	CRIII	O	C							
BV-83	"	"	N	C	C		C	DL				
BV-58	Aux Steam from 2nd superheater	17th West side of Boiler	CRII	O	C							
BV-76	Aux Steam supply to steam seals	MEZZ NE CORNER TURBINE	CRIII	O	C							

IP14_006145

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/4

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	R				
BV-47	" " "	" " "	N	O	C		C	R				
BV-137	Sprays from BFP	16th floor east side	N	O	C		C	R				
BV-139	" " "		N	O	C		C	R				
BV-142	" " "		N	O	C		C	R				
BV-110	CGR pump Recirc	Basement by CGR pumps	N	O	C		C	R				
BV-113	" " "	"	N	O	C		C	R				
BV-114	" " "	"	N	O	C		C	R				
BV-117	" " "	"	N	O	C		C	R				
BV-150	Return to CNDS	2nd floor above pumps	N	O	C		C	R				
BV-435	" " "	Basement @ pumps 12' up	N	O	C		C	R				
BV-436	- telltale	"	N	O	C		C	R				
BV-125	SBCND Return	North AQCS Control Room	N	O	C		C	R				- SBCNDS Return Pump OFF
BV-127	" " "	"	N	O	C		C	R				

IP14_006146

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/4

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	As left	Initials	Position - After Test As Found	As Left	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	SY	+	O	BG	
BV-34	"	"	N	O	C	O	C	SY	+	O	BG	
BV-23	COND. EMERG. DRAW-OFF	BSMT SW CORNER CONDENSER	N	O	C	O	C	KC	+	O	BG	
BV-24	"	"	N	O	C	O	C	KC	+	O	BG	
(BV-148)	TELL TAIL	LOCAL	N	C	C	C	C	KC				
(BV-175)	"	"	N	C	C	C	C	KC				
(BV-176)	"	"	N	C	C	C	C	KC				
(BV-177)	"	"	N	C	C	C	C	KC				
ACV-25	COND. RECIRC.	BSMT. SW CORNER CONDENSER	N	C	C	C	C	SY				MAY HAVE TO CL BV-2B
BV-29	" BYPASS	"	N	C	C	C	C	KC				
BV-71	COND. MISC. SERVICE PUMP OUTLET	BSMT. "IC" COND. PUMP ABOVE HEAD	N	O	C	O	C	SY				
BV-179	"	"	N	O	C	O	C	SY				
(BV-178)	TELL TAIL	"	N	C	C	C	C	KC				
BV-90	HOT WELL DRAINS	N. OF CONENSER BSMT.	N	C	C	C	C	KC				
BV-91	"	"	N	C	C	C	C	KC				
BV-89	"	"	N	C	C	C	C	KC				
BV-92	HYDRAZINE FEED	"	N	C	C	C	C	KC				
BV-112	COND. LEAK DETECTION IC	Basement - N. End to IC cond	N	O	C	C	C	KC				OPEN after TEST
BV-113	"		N	O	C	C	C	KC				"
BV-114	"		N	O	C	C	C	KC				"

IP14_006147

MOVIL TURBINE PERFORMANCE TESTING UNIT "2 Test # ~~3~~/4

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 (CONT.)

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-115	COND. LEAK DETECTION 1B	N. SIDE COND. 1B COND.	N	O	C	C	C	KC				OPENS after test
BV-116	"	"	N	O	C	C	C	KC				"
BV-117	"	"	N	O	C	C	C	KC				"
BV-118	COND. LEAK DETECTION 1A	N. SIDE COND. 1A COND.	N	O	C	C	C	KC				"
BV-119	"	"	N	O	C	C	C	KC				"
		"										
	P&ID 2SAC-M2056A											
BV-529	GEN. BLDG. SP. COND DRAIN to UNIT 2	BASEMENT W. END TO 1C COND	N		C	C	C	KC				

IP14_006148

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/4

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	MERR. CONDEN. VAC PUMPS	CR II	O	C							WATCH SEPARATOR
BV-110	"	"	CR II	O	C							TANK LEVEL
BV-111	"	"	CR II	O	C							
BV-112	"	"	CR II	O	C							

IP14_006149

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

Seal St. Att. w/ BV-25

Misc. Drain reciever drain BV.

SYSTEM: BOILER FEED P&ID # 2FWA-M2035A

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-F)	N	C	C	O	C	MH	C	C	RJG	
BV-299	"	"	N	C	C	C	C	MH				
BV-108)	TELL TAIL	"	N	C	C	C	C	MH				
BV-188	WARM-UP LINE	MEZZ UNDER 1A BFPT (203E)	N	O	C	O	C	MH	C	O	BJ	
MBV-189	"	"	N	C	C	C	C	MH				
BV-365/107	TELL TAIL	"	N	C	C	C	C	MH				
ACV-14	BBFP RECIRC.	13th W. END D.A (202G)	N	C	C	C	C	MH				
ACV-15	"	"	N	C	C	O	C	MH	C	C	BJ	
ACV-16	"	"	N	C	C	C	C					
ACV-17	BFP RECIRC	13th E. END DA (207G)	N	C	C	C	C					
ACV-18	"	"	N	C	C	C	C					
ACV-19	"	"	N	C	C	C	C					
BV-37	"	"	CRI	O	C							

IP14_006150

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3/14

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 (202H)	N	C	C	C	C	SJ				
SGA-131	ECONOMIZER INLET HDR. DRAIN	11th FLOOR ECONOMIZER INLET	N	C	C		C	DG				
SGA-132	"	"	N	C	C		C	DG				
BV-202	SAMPLE 11	10th S. of mec 2B09	CRII	O	C							
BV-203	"	"	CRII	O	C							

IP14_006151

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3 OP 3/4

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
1BV-303	ABOVE SEAT DRAIN. HP STOP VALVE (BFPT 1A)	1A BFPT N. SIDE TURB DECK	N	C	C	C	C	Ku				check in control ROOM
1BV-305	BELOW SEAT DRAIN HP STOP VALVE	"	N	C	C	C	C					↓
1BV-307	ABOVE SEAT DRAIN LP STOP VALVE	" S. SIDE	N	C	C	C	C					
1BV-309	BELOW SEAT DRAIN LP STOP VALVE	"	N	C	C	C	C					
1BV-311	1ST STAGE DRAIN	MEZZ - NE CORNER TURB PEDISTAL-UP	N	C	C	C	C					
1BV-304	ABOVE SEAT DRAIN HP STOP VALVE	1B BFPT S. SIDE	N	C	C	C	C					
1BV-306	BELOW SEAT DRAIN HP STOP VALVE	"	N	C	C							
1BV-308	ABOVE SEAT DRAIN LP STOP VALVE	" N. SIDE	N	C	C	C	C	Ku				
1BV-310	BELOW SEAT DRAIN LP STOP VALVE	"	N	C	C	C	C	Ku				
1BV-312	1ST STAGE DRAIN	MEZZ NW CORNER TURB PEDISTAL-UP	N	C	C	C	C	Ku				
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_006152

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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

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
B-1	FM-1 BYPASS	BSMT - E.of 2A BBFP	CR II	O	C							Valve-in
B-2	"	"	CR II	O	C							Flow Meter
												Carefully
B-3	Flow Meter 1	"	CR II	C	O							
B-4	"	"	CR II	C	O							
B-5	FM-2 BYPASS	BSMT. BFPT LUBE OIL centrifuge, ceiling	CR II	O	C							
B-6	"		CR II	O	C							
B-7	Flow Meter 2	"	CR II	C	O							
B-8	"	"	CR II	C	O							

IP14_006153

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-26	DA Recirc to Cond	Mezz - West Side Condenser	CRI	O	C							
BV-27	" " " "	"	CRI	O	C							
MBV-90	" " " "	"	CRI	C	C							
BV-85	" " " "	"	N	O	C	C	C	MH				
BV-86	" " " "	"	N	O	C	C	C	MH				
BV-105)	-telltale	"	N	C	C	C	C	MH				
BV-110	-telltale	"	N	C	C	C	C	MH				
BV-24	APH CNDS Supply	Mezz above CGR pumps	N	O	C	C	C	MH				
BV-23	DA tank Belly Drn	11th floor	N	C	C	C	C	MH				
1BV-9	CNDS Bypass Htr 1	Mezz floor SW turb-next to stairs	N	C	C	C	C	MH				
1BV-16	CNDS Bypass Htr 2	Mezz floor SW of manelev	N	C	C	C	C	MH				
1BV-17	CNDS Bypass Htr 3	5th floor SW Boiler	N	C	C	C	C	MH				
1BV-18	CNDS Bypass Htr 4	" "	N	C	C	C	C	MH				

IP14_006154

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

SYSTEM: CONDENSATE POLISHERS P&ID #2FWD-MJ038A/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
BV-121 (38B)	MU to Regen Pumps	1st floor next to CNDS MU Bster Pump	CR III	O	C							Regen Pumps - off
BV-125	" " " "	"	CR III	O	C							make sure pumps
MBV-76 (38A)	CNDS DEMIN 2A DAN	1st floor East of Demin	N	C	C	C	C	KC				don't start
MBV-77	" " 2B "	"	N	C	C	C	C	KC				
MBV-78	" " 2C "	"	N	C	C	C	C	KC				
MBV-79	" " 2D "	"	N	C	C	C	C	KC				REGEN PUMPS ARE
MBV-72	DM 2A Resin Xfer Valve	"	N	C	C	C	C	KC				IN STOP POSITION
MBV-73	" 2B " " "	"	N	C	C	C	C	KC				THERE IS NO "AUTO-LOCK"
MBV-74	" 2C " " "	"	N	C	C	C	C	KC				
MBV-75	" 2D " " "	"	N	C	C	C	C	KC				

IP14_006155

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4 (6/93)

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Date: _____

SYSTEM: STEAM CYCLE SAMPLING & ANALYSIS P&ID # 2SAC-M2054A (1 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-17	LAB SAMPLE #1 MU to Cond	Water Lab Panel Behind	CRII	O	C	O	C	RA	C	C		
BV-5	" BD		N		C	C	C	MH	C	C		
BV-30	" Needle Valve		CRII	O	C	O	C	RA	C	O		
BV-6	LAB SAMPLE #2 CP Disc BD		N		C	C	C	MH	O	O		Sample #2 - OPEN
BV-19	LAB SAMPLE #3 Demin 1A Outlet		CRII	O	C	O	C	RA	C	O		
BV-7	" BD		N		C	C	C	MH	C	C		
BV-32	" Needle Valve		CRII	O	C	O	C	RA	C	O		
BV-20	LAB SAMPLE #4 Demin 1B Outlet		CRII	O	C	O	C	RA	C	O		
BV-8	" BD		N		C	C	C	MH	C	C		
BV-33	" Needle Valve		CRII	O	C	O	C	RA	C	O		
BV-21	LAB SAMPLE #5 Demin 1C Outlet		CRII	O	C	O	C	RA	C	O		
BV-9	" BD		N		C	C	C	MH	C	C		
BV-34	" Needle Valve		CRII	O	C	O	C	RA	C	O		
BV-22	LAB SAMPLE #6 Demin 1D Out		CRII	O	C	O	C	RA	C	O		
BV-10	" BD		N		C	C	C	MH	C	C		
BV-35	" Needle Valve		CRII	O	C	O	C	RA	C	C		
BV-23	LAB SAMPLE #7 Cnds Polishing Out		CRII	O	C	O	C	RA	C	O		
BV-11	" BD		N		C	C	C	MH	C	C		
BV-36	" Needle Valve		CRII	O	C	O	C	RA	C	O		
BV-1	LAB SAMPLE #8 Cnds after Gland Cond		CRII	O	C	O	C	RA	C	O		
BV-12	" BD		N		C	C	C	MH	C	C		
BV-24	"		CRII	O	C	O	C	RA	C	O		
BV-37	" Needle Valve		CRII	O	C		C	RH	C	O		

IP14_006156

TURBINE PERFORMANCE TESTING UNIT "2 Test "3-4

Cycle 7 Station Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

After Test-Isolation: Start _____ End _____ 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
CV-2	LAB SAMPLE 9 DA Inlet	WATER LAB - Behind Panel	CRII	O	C	C	C	RA	C	C		
BV-13	LAB SAMPLE 10 DA Outlet BD		N		C	C	C	MA	C	C		Sample #10 - OFF
BV-26a	LAB SAMPLE 11 Econ Inlet		CRII	O	C	O	C	RA	C	Tag Closed C		Sample #11 - close root valves
BV-14	" BD		N		C	C	C	MA	C	Tag Tag Closed C		
BV-39	" Needle Valve		CRII	O	C	O	C	RA	C	C		
BV-15	LAB SAMPLE 12 Drum BD		N	O	C	C	C	MA	C	C		Sample #12 - OPEN
BV-3	LAB SAMPLE 13 Sat Stm		CRII	O	C	C	C	RA	C	C		Sample #13 - close root valves
BV-4	LAB SAMPLE 14 Main Stm		CRII	O	C	C	C	RA	C	C		Sample #14 - close root valves
BV-16	" BD		N		C	C	C	MA	C	C		
BV-26	"		CRII	O	C	C	C	RA	C	C		
BV-41	"		CRII	O	C	C	C	RA	C	C		
BV-107	Sample Recovery Pump Suction		N	O	C	C	C	MA	C	C		
BV-110	Discharge		N	O	C	C	C	MA	C	C		

IP14_006157

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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
MBV-142	BLR SB STM SUPPLY	18th floor East End - Middle Blr	N	C	C	O	C	SZ	C	O	BJ	
BV-141	" " " "	" "	N	O	C	O	C	SZ	C	O	BJ	
MBV-144	BLR SB Stm SUPPLY	"	N	C	C	C	C	BJ	C	C	RDG	
BV-143	" " " "	"	N	O	C		C	DG	C	C	RDG	
MBV-24	CGR SB STM SUPPLY	"	N	C	C	C	C	KM				
BV-17	" " " "	"	N	O	C	C	C	KM				
MBV-140	RAH SB STM SUPPLY	18th floor West Side	N	C	C	O	C	SZ	C	C	BJ	
BV-139	" " " "	"	N	O	C	O	C	SZ	C	O	BJ	
MBV-194	STM SUPPLY AUX HDR	17th floor West Side	N	C	C	C	C	SZ				
BV-10	" " " "	"	CRII	O	C							
ACV-134	SH BYPASS TO RH	18th floor West Side	N	C	C	C	C	KM				
MUV-133	" " " "	"	N	C	C	C	C	KM				
MBV-135	" " " "	12th floor N West Side	N	C	C	C	C	KM				
BV-125	" " " "	"	N	O	C		C	DG				
BV-136	SH BYPASS to COND	Mezz floor West Cond IC	N	O	C		C	DG				
BV-138	"	"	N	O	C		C	DG				
BV-169	"	"	N	O	C		C	DG				
BV-170	"	"	N	O	C		C	DG				
BV-195	STM TRAP 2	16th west	CRII	O	C							

IP14_006158

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3.4

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
BV-3	CONTINUOUS BLOW DOWN	18th E. END DRUM	CR II	O	C							
MBV-4	"	18th E. END DRUM	CR II	O	C							
BV-1	AUX STEAM SUPPLY	18th S. DRUM MIDDLE	CR II	O	C							
MBV-2	"	"	CR II	C	C							
BV-18	DRAIN TO BLOWDOWN HEADER	18th W. END BOILER DRUM	N	C	C	C	C	Km				
BV-19	FROM LG-2	"	N	C	C	C	C					
BV-208	"	"	N	C	C	C	C					
BV-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 PI-5	"	N	C	C	C	C					
BV-32	"	"	N	C	C	C	C					
BV-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					
BV-172	SAMPLE 13	18 S. SIDE DRUM	CR II	O	C							

IP14_006159

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

SYSTEM: AIR PREHEAT P&ID# 25GC-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
BV-113	DA WATER SUPPLY	Basement @ APH Pumps	N	O	C	C	C	DS				
BV-114	" " "	"	N	O	C	C	C	DS				
BV-119	" " "	"	N	O	C	C	C	DS				
BV-122	APH Recirc to Pump	"	N	O	C	C	C	DS				
BV-123	" " "	"	N	O	C	C	C	DS				
BV-130	APH EMGCY RTN COND	"	N	O	C	C	C	DS				
BV-131	" " " "	"	N	O	C	C	C	DS				
BV-140	APH RTN to DA	13½ floor - east	N	O	C	C	C	DS				
BV-141	APH RTN to COND	Basement West Side	N	O	C	C	C	DS				
BV-137	" " "	"	N	O	C	C	C	DS				
BV-139	" " "	"	N	O	C	C	C	DS				

IP14_006160

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test #3-4

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	C	C	KM				
BV-35	"	"	CR III	O	C	C	C					
BV-41	SECONDARY SUPERHEAT OUTLET HEADER DRAIN	15th WEST SIDE	CR III	O	C	C	C					
BV-43	SECONDARY SUPERHEAT INTERM. INLET HEADER	"	CR III	O	C	C	C					
BV-45	"	"	CR III	O	C	C	C					
BV-49	SECONDARY SUPR HEAT PLATEN OUTLET DRAIN	"	CR III	O	C	C	C					
BV-51	ROOF INLET HEAD. DRAIN	"	CR III	O	C	C	C					
BV-55	LWR. CONVEC. PASS HEADER DRAIN	10th EAST SIDE	CR III	O	C	C	C					
BV-57	"	"	CR III	O	C	C	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	KM				
BV-33	REHEATER INLET HEADER DRAIN	" "	N	C	C	C	C					
MBV-29	LOWER CONVECTION PASS HDR. DRN.	4th floor	N	C	C	C	C					
BV-31	ECONOMIZER INLET HDR. DRAIN	" "	N	C	C	C	C					
BV-34	REHEATER INLET HDR. DRAIN	" "	N	C	C	C	C					
MBV-36	LOWER CONVECTION PASS HDR. DRN	" "	N	C	C	C	C					
BV-38	REHEATER OUTLET HDR. DRAIN	" "	N	C	C	C	C					
BV-40	"	" "	N	C	C	C	C					
MBV-42	SECONDARY SUPERHEAT OUTLET HDR. DRN	" "	N	C	C	C	C					
MBV-44	SECONDARY SPRHTR INTERMED INLET DRN	" "	N	C	C	C	C					
MBV-46	"	" "	N	C	C	C	C					
BV-48	ECONOMIZER DISCH. HDR. DRN	" "	N	C	C	C	C					
MBV-50	SECONDARY SPRHTR PLATEN INLET HDR DRN		N	C	C	C	C					
MBV-52	ROOF INLET HDR.		N	C	C	C	C					

IP14_006161

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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	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-54	EAST ECONOMIZER DISCH HDR. DRN.	4th FLOOR	N	C	C	C	C	[illegible]				
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	[illegible]				
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_006162

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

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-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	MOV-9 Bypass	Turb Deck BFPT1A NE	N	C	C	C	C	KM				
BV-24	MBV-10 Bypass	Turb Deck BFPT 1B SW	N	C	C	C	C	KM				
BV-58	MStm WARMING LINE	Mezz Deck East of MCC 2A03	CRIII	O	C							
MCV-18	" " "	"	N	C	C	C	C	KM				
1BV-17	" " "	"	N	C	C	C	C					
1BV-11	BFPT HPSTM DRN to BD Tank	Mezz Floor Under Mstm Line NE	N	C	C	C	C					
1BV-12	" "	"	N	C	C	C	C					
1BV-55	" "	"	N	C	C	C	C					
1BV-56	" "	"	N	C	C	C	C					
1BV-13	MStm DRN to BD Tank	"	N	C	C	C	C					
1BV-14	" " "	"	N	C	C	C	C					
1BV-25	" " "	"	N	C	C	C	C					
1BV-26	" " "	"	N	C	C	C	C					
1BV-21	MStm Vent to Atm	19th floor middle	N	C	C	C	C					
BV 15	SAMPLE 14	MEZZ E. END	CRII	O	C							
BV 16	"	MEZZ E END	CRII	O	C							

IP14_006163

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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
ACV-26	SECONDARY SUPERHTR. PLATEN OUTLET HDR.	18th WEST SIDE BOILER	N		C	C	C	SJ	X			DISABLE SOOT
ACV-25	"	18th EAST SIDE BOILER	N		C				X			BLOWING SYST.
ACV-3	SECONDARY SUPERHTR. OUTLET HDR.	18th WEST SIDE BOILER	N		C				X			AT CONTROL
ACV-4	"	"	N		C				X			PANEL
MBV-35	HP EXTRACTION DRAIN HDR.	4th S.E. Side BOILER	N		C				X			
MBV-178	"	4th floor N.E Side of BOILER (M201)	N		C				X			

IP14_006164

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

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	CRII	O	C							
BV-57	STEAM TRAP 1 OUTLET ISOL VLV.	"	CRII	O	C							
MBV-16	HOT Reheat DRAIN to DESPRHTR 3	GF - 204-C	N	C	C	C	C	JZ				
MBV-14	"	"	N	C	C	C	C					
MBV-18	COLD REHEAT DRN TO DESPRHTR 2	GF - 204-B	N	C	C	C	C					
ACV-58	ATTEMPERATOR SPRAY WATER FROM BFPT's	7th FLOOR EAST ELEV.	N	C	C	C	C					
ABV-66	"	"	N	C	C	C	C					
ACV-59	"	"	N	C	C	C	C					
ABV-67	"	"	N	C	C	C	C					

IP14_006165

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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	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 (LP TURB SECTION 1B)		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	BSMT N.E CORNER OF CONDENSER	CR III	O	C							
BV-7	LP HTR 2		CR III	O	C							
BV-11	LP HTR 3 (LP TURB SECTION 1A)		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	BSMT. N.W. CORNER OF CONDENSER TOP ROW	CR III	O	C							
BV-55	LP HTR 2 (LP TURB. SECTION 1C)		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_0006166

HPME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____ 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	Position - Before Test As left	Position - Before Test Initials	Position - After Test As Found	Position - After Test As Left	Position - After Test Initials	Comments

IP14_006167

TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle 3 Station Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Date: _____

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

NON-CRITICAL VALUES

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 LO CONT.	N	C	C	C	C	JJ				
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_006168

MOPE TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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 pg. 4 of 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
ACV-2	LP HTR 2 EXTRACTION DRN	GF WEST OF 4/0 CONT.	N	C	C	C	C	SP				
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							
BV-163	MISC. DRAINS RECV. TANK DRN	GF MISC. DRAINS RECVR.	N	C	C	C	C	MH				

IP14_006169

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

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
BV-20	HTR 8A ALTN (HI LEVEL) DUMP	Ground Floor East Side Cond 1A	CRI	O	C							
BV-19	"	"	CRI	O	C							
BV-22	HTR 8B ALTN (HI LEVEL) DUMP	"	CRI	O	C							
BV-21	"	"	CRI	O	C							
BV-28	HTR 7A ALTN (HI LEVEL) DUMP	"	CRI	O	C							
BV-27	"	"	CRI	O	C							
BV-30	HTR 7B ALTN (HI LEVEL) DUMP	"	CRI	O	C							
BV-29	"	"	CRI	O	C							
BV-36	HTR 6A ALTN (HI LEVEL) DUMP	"	CRI	O	C							
BV-35	"	"	CRI	O	C							
BV-38	HTR 6B ALTN (HI LEVEL) DUMP	"	CRI	O	C							
BV-37	"	"	CRI	O	C							
ACV-13	HP Htr Drains Pump 1A Recirc	3rd Floor Near HP Htr 6A	N	C	C	C	C	[illegible]				
ACV-14	" 1B	" 6B	N	C	C	C	C	[illegible]				

IP14_006170

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test #3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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 must leave alternate drain open & close BV-12, so the normal drain
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	DS				
FWF (M2040) BV-66	Cycle MU to LP DRNS	Ground floor Overhead So. of DRNCLR	N	O	C	C	C	DS				

IP14_006171

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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

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-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							
BV-85	HP HTR 6A S/U VENT TO DEA HTR 5	3rd	N	C	C	C	C	KU				
BV-86	"	"	N	C	C	C	C					
BV-91	HP HTR 6B S/U VENT TO DEA HTR 5	"	N	C	C	C	C					
BV-92	"	"	N	C	C	C	C					
BV-83	HP HTR 7A S/U VENT TO DEA HTR 5	5th	N	C	C	C	C					
BV-84	"	"	N	C	C	C	C					
BV-89	HP HTR 7B S/U VENT TO DEA HTR 5	"	N	C	C	C	C					
BV-90	"	"	N	C	C	C	C					
BV-81	HP HTR 8A S/U VENT TO DEA HTR 5	6th	N	C	C	C	C					
BV-82	"	"	N	C	C	C	C					
BV-87	HP HTR 8B S/U VENT TO DEA HTR 5	"	N	C	C	C	C					
BV-88	"	"	N	C	C	C	C					
BV-2	DEA HTR 5 Bypass CONTINUOUS VENT TO ATMOS	14th	N	C	C	C	C					
BV-4	"	"	N	C	C	C	C					
BV-6	"	"	N	C	C	C	C					

IP14_006172

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

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 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	Cg				
BV-10	"	"	N	C	C	C	C	↓				
BV-12	"	"	N	C	C	C	C	↓				
BV-14	"	"	N	C	C	C	C	↓				

IP14_006173

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

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	MH				
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_006174

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-Y

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
2TGA-BV-5	SPRAY SUPPLY VLV FROM CONDENSING	3rd By GE Trailer	CRIII	O	C							

IP14_006175

TURBINE PERFORMANCE TESTING UNIT "2 Test # 3-4

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

Date: _____

After Test-Isolation: Start _____ End _____

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	[illegible]				
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	C	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	MH				

IP14_006176

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 3-4

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

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	SY				
MBV-32	COMB. REHEAT VLV 1B3 AFTER SEAT DRN	"	N	O	C							
MBV-33	MN. STM. STOP VLV. 1A1 Before SEAT DRN	"	N	O	C							
MBV-37	TURB. CNTRL VLV 1A2 Before Seat DRN	"	N	O	C							
MBV-34	MN. STM STOP VLV 1B1 BSD	"	N	O	C							
MBV-38	TURB CNTRL VLV 1B2 BSD	"	N	O	C							
MBV-35	MN. STEAM STOP VLV. 1C1 BSD	"	N	O	C							
MBV-39	TURB CNTRL VLV. 1C2 BSD	"	N	O	C							
MBV-36	MN. STEAM STOP VLV. 1D1 BSD	"	N	O	C							
MBV-40	TURB. CONTROL VLV. 1D2 BSD	"	N	O	C							
MBV-49	DRAIN HDR CONTROL VLV	GF	N	O	C							

IP14_006177

TEST # 3/4 DATE 5-13-87

GF - EAST

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 DMA	DMA	KAS	DS
"	" 0020	" 8A "	"	O			
"	" 0027	" 7A "	"	O DMA	DMA	KAS	DS
"	" 0028	" 7A "	"	O DMA	DMA	KAS	DS
"	" 0035	" 6A "	"	O DMA	DMA	KAS	DS
"	" 0036	" 6A "	"	O DMA	DMA	KAS	DS
"	" 0021	" 8B "	"	O DMA	DMA	KAS	DS
"	" 0022	" 8B "	"	O DMA	DMA	KAS	DS
"	" 0029	" 7B "	"	O DMA	DMA	KAS	DS
"	" 0030	" 7B "	"	O DMA	DMA	KAS	DS
"	" 0037	" 6B "	"	O DMA	DMA	KAS	DS
"	" 0038	" 6B "	"			KAS	
M2020	2HRA-BV-0019	COND. NORMAL DRAWOFF	GF SW COND OF COND				
"	-0020	"	"				
M2077	2TEE-BV-0011	LP HTR 3 ALT. HLVL DUMP	GF - WEST OF COND				
"	" 0019	" 3 "	"				
"	" 0013	" 2 "	"				
"	" 0021	" 2 "	"				
"	" 0015	FLASH TANK "	GF - SW OF COND				
"	" 0022	" "	"				

IP14_006178

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 INITIAL
M2077	2TEE-BV-0009	LP HTR 4 ALT HLVL DUMP	MEZZ WEST OF COND				
"	" 0017	"	"				
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"				
"	" 0027	"	"				
"	2FWC-MBV-90	"	"				
M2020	2HRA-BV-0030	COND. NORMAL MU	MEZZ SW CORNER OF COND.				
"	" 0031	"	"				
M2080A	2TLC-BV-0010	MN. STM. to turbine seals	MEZZ W. OF MN. STM HDR				
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd NE OF BFPT 1A				
"	" -10	" 1B	3rd SW OF BFPT 1B				
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th N OF E ELEVATOR				
"	" 0022	"	"				
M2035A	2FWA-BV-37	BFPT 1A Recirc	13th EAST				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBE OIL CONT.	O	DMA	DMA	KAS
"	" 0079	HP HTR 8A "	"	O	DMA	DMA	KAS
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAK OFF	MEZZ NW OF COND				
"	" 0390	" Seat DRAIN	"				
"	" 0391	" 1A1 " "	MEZZ N OF COND.				
M2075	2TEC-BV-0075	HP HTRS 8A & 8B	GF E OF LUBE OIL CONT.	O	DMA	DMA	KAS
"	" 0081	" " 8A			DMA	DMA	KAS
"	2TEC-BV-0105	" " 8B		O	DMA	DMA	KAS

TEST #____ ____ DATE ____ ____

PRIORITY II VALVES (PAGE 1 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	VLV POSITION / CLOSE INITIALS	OPEN O / INITIALS	INITIALS	INITIALS
M2054A	2SAC-BV-0017	SAMPLE 1 MU to COND.	GF Chem LAB	O DA			
"	" 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	GF NW CORNER COND CEILING	O DMA	DMA	KLS	
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B E of Condi on Pillar	O DMA	DMA	KLS	
"	" 0057	" OUTLET	"	O DMA	DMA	KLS	
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM	O DMA	DMA	KLS	
"	" 0016	"	"	O DMA	DMA	KLS	

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 2 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	NEW POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2021	2HRB-BV-0107	SEPARATOR 1D MU	MEZZ. CONDENSER VAC. PMPS				
"	" 0110	" 1C "	"				
"	" 0111	" 1B "	"				
"	" 0112	" 1A "	"				
M2079	2TGA-BV-0005	HOOD SPRAY SUPPLY	3RD by GE TRAILER				
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS VENT TO COND	3RD LP HTR 3				
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS VENT TO DEA	3RD HP HTR 6A				
"	" 0080	" 6B "	3RD HP HTR 6B				
"	" 0076	" 7A "	5th HP HTR 7A				
"	" 0079	" 7B "	5th HP HTR 7B				
M2078B	" 0162	LP HTR 4 " to COND	5th LP HTR 4				
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8A				
"	" 0078	" 8B "	6th HP HTR 8B				
M2035B	2FWA-BV-0202	BOILER FEED SAMPLE 11	10th S OF MCC 2809				
"	" 0203	"	"				
M2078A	2TEF-BV-0003	DEA CONTINUOUS VNT TO ATMOS.	14th top OF DEA				
"	" 0007	"	"				
"	" 0011	"	"				
M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	17th S				
"	" 0003	CONTINUOUS BLOWDOWN	18th E END OF DRUM				
"	" MBV-4	"	"				
"	" MBV-2	STM SUPPLY to AUX STM	18th S OF DRUM				
"	" BV-0001	"	"				
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	9th Behind E ELEVATOR				
"	" BV-12	"	"				
"	" BV-14	"	"				
"	" BV-58	2ND SUPERHEAT to AUX STM	17th W. SIDE				
M2063A	2SGA-BV-0010	MN STM to AUX STM	"				

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

P&ID	VALVE #	DESCRIPTION	LOCATION
2FWB M2036			
"	B-1 B-2 B-3 B-4	FLOW METER 1 BBFP open first	GF-W OF BGFP 2A
"	B-5 B-6 B-7 B-8	FLOW METER 2 BBFP open first	GF ABOVE BFPT LUBE OIL CENT.

TEST #_____ DATE_____

P&ID	VALVE #	DESCRIPTION	
M2075	2TEC-BV-0027	LP HTR 2	LP TURB. Section 1B
"	" 0031	"	
"	" 0035	LP HTR 3	
"	" 0039	"	
"	" 0043	LP HTR 4	
"	" 0047	"	
"	" 0003	LP HTR 2	LP TURB Section 1A
"	" 0007	"	
"	" 0011	LP HTR 3	
"	" 0015	"	
"	" 0019	LP HTR 4	
"	" 0023	"	
"	" 0051	LP HTR 2	LP TUR Sec 1(
"	" 0055	"	
"	" 0059	LP HTR 3	
"	" 0063	"	
"	" 0067	LP HTR 4	
"	" 0071	"	
M2038 B	2FWD-BV-0121	COND. POLISH Regen	
"	" 0125	"	
M2008	2PSA-BV-0082	Aux. STM. TRAP 5	
M2080A	2TGC-BV-0058	Aux. STM. to Cond. 1	
M2069	2SG6-BV-0058	Mn. STM. WARMING	
M2068	2SGF-BV-0065	DOWNCOMER DRN. BV	
"	" 0055	LWR. CONVECTION PASS	
"	" 0057	"	
"	" 0035	"	

other GF-MV

IP14_006184

TEST # _____ DATE _____

P&ID	VALVE #	DESCRIPTION	LOCATION	PRIORITY	CLOSE C INITIAL	OPE C INIT
M2068	2SGF-BV-0041	SECOND. SPRHTR OUT HDR.	15th - West	III		
"	" 0043	" " INTERMED HDR	"	III		
"	" 0045	" " " "	"	III		
"	" 0049	" " PLATEN "	"	III		
"	" 0051	ROOF INLET HDR	"	III		
M2008	2PSA-BV-0026	TURBINE Seals Na STM	McEE 203-D	III		

TEST # 3, 4 DATE 5-13-87

GF-WEST

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				
"	" 0020	" 8A "	"				
"	" 0027	" 7A "	"				
"	" 0028	" 7A "	"				
"	" 0035	" 6A "	"				
"	" 0036	" 6A "	"				
"	" 0021	" 8B "	"				
"	" 0022	" 8B "	"				
"	" 0029	" 7B "	"				
"	" 0030	" 7B "	"				
"	" 0037	" 6B "	"				
"	" 0038	" 6B "	"				
M2020	2HRA-BV-0019	COND. NORMAL DRAWOFF	GF SW CORNER OF COND	O			
"	-0020	"	"	O			
M2077	2TEE-BV-0011	LP HTR 3 ALT. HLVL DUMP	GF - WEST OF COND	O			
"	" 0019	" 3 "	"	O			
"	" 0013	" 2 "	"	O			
"	" 0024	" 2 "	"	O			
"	" 0015	FLASH TANK "	GF - SW OF COND	O			
"	" 0022	" "	"	O			

IP14_006186

TEST # _____ DATE _____

PRIORITY I VALVES (PAGE 2 of 2)

P&ID	VALVE #:	DESCRIPTION	LOCATION	VLV. POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OP C INITIALS
M2077	2TEE-BV-0009	LP HTR 4 ALT HLVL DUMP	MEZZ. WEST OF COND				
"	" 0017	"	"				
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"				
"	" 0027	"	"				
"	2FWC-MBV-90	"	"				
M2020	2HRA-BV-0030	COND. NORMAL MU	MEZZ SW CORNER OF COND.				
"	" 0031	"	"				
M2080A	2TEC-BV-0010	MN. STM. to turbine seal	MEZZ W. OF MN. STM HDR				
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd NE OF BFPT 1A				
"	" -10	" 1B	3rd SW OF BFPT 1B				
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th N OF E ELEVATOR				
"	" 0022	"	"				
M2035A	2FWA-BV-37	BFPT 1A RECIRC	13th EAST				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBOIL CONT.				
"	" 0079	HP HTR 8A "	"				
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAKOFF	MEZZ NW OF COND				
"	" 0390	" Seat DRAIN	"				
"	" 0391	" 1A1 " "	MEZZ N OF COND				

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 COOLER	"				
"	" 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 TURBIN SEAT. 1C	NW CORNER COND CEILING GF				
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B				
"	" 0057	" OUTLET	"				
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM				
"	" 0016	"	"				

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 2 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	NW POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2021	2HRB-BV-0107	SEPARATOR 1D MU	MEZZ. CONDENSER VAC. PMPS	O 93	93	93	93
"	" 0110	" 1C "	"	O 93	93	93	93
"	" 0111	" 1B "	"	O 93	93	93	93
"	" 0112	" 1A "	"	O 93	93	93	93
M2079	2TGA-BV-0005	HOOD SPRAY SUPPLY	3rd by GE Trailer	O 93	93	93	93
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS VENT to COND	3rd LP HTR 3	O 93	93	93	93
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS VENT to DEA	3rd HP HTR 6A	O 93	93	93	93
"	" 0080	" 6B "	3rd HP HTR 6B	O 93	93	93	93
"	" 0076	" 7A "	5th HP HTR 7A				
"	" 0079	" 7B "	5th HP HTR 7B				
M2078B	" 0162	LP HTR 4 " to COND	5th LP HTR 4				
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8A				
"	" 0078	" 8B "	6th HP HTR 8B				
M2035B	2FWA-BV-0202	BOILER FEED SAMPLE 11	10th S OF MCC 2809				
"	" 0203	"	"				
M2078A	2TEF-BV-0003	DEA CONTINUOUS VNT TO ATMOS.	14th top OF DEA				
"	" 0007	"	"				
"	" 0011	"	"				
M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	17th S				
"	" 0003	CONTINUOUS BLOWDOWN	18th E END OF DRUM				
"	" MBV-4	"	"				
"	" MBV-2	STM SUPPLY to AUX STM	18th S OF DRUM				
"	" BV-0001	"	"				
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	9th Behind E ELEVATOR				
"	" BV-12	"	"				
"	" BV-14	"	"				
"	" BV-58	2ND SUPERHEAT to AUX STM	17th W. SIDE				
M2063A	2SGA-BV-0010	MN STM to AUX STM	"				

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

PIID	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 2A	C / 93	93		
	B-2			C / 93	93		
	B-3	open first		O / 93		93	
	B-4			O / 93		93	
"	B-5	FLOW METER 2 BFP	GF ABOVE BFPT LUBE OIL CENT.	C / 93	93		
	B-6			C / 93	93		
	B-7	open first		O / 93		93	
	B-8			O / 93		93	

TEST #_____ DATE_____

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

TEST # _____ DATE _____

P&ID	VALVE #	DESCRIPTION	LOCATION	PRIORITY	CLOSE C INITIAL	OPEN O INITIAL
M2068	2SGF-BV-0041	SECOND. SPRNTR OUT HDR.	15th - West	III		
"	" 0043	" " INTERMED HDR	"	III		
"	" 0045	" " " "	"	III		
"	" 0049	" " PLATEN "	"	III		
"	" 0051	ROOF INLET HDR	"	III		
M2008	2PSA-BV-0026	TURBINE Seals N2 STM	MEZZ 203-D	III		

TEST # 3,4 DATE 5-13, 1987

TURBINE

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				
"	" 0020	" 8A "	"				
"	" 0027	" 7A "	"				
"	" 0028	" 7A "	"				
"	" 0035	" 6A "	"				
"	" 0036	" 6A "	"				
"	" 0021	" 8B "	"				
"	" 0022	" 8B "	"				
"	" 0029	" 7B "	"				
"	" 0030	" 7B "	"				
"	" 0037	" 6B "	"				
"	" 0038	" 6B "	"				
M2020	2HRA-BV-0019	COND. NORMAL DRAWOFF	GF SW CORNER OF COND				
"	-0020	"	"				
M2077	2TEE-BV-0011	LP HTR 3 ALT. HLVL DUMP	GF - WEST OF COND				
"	" 0019	" 3 "	"				
"	" 0013	" 2 "	"				
"	" 0021	" 2 "	"				
"	" 0015	FLASH TANK "	GF - SW OF COND				
"	" 0022	" "	"				

IP14_006193

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				
"	" 0017	"	"				
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"				
"	" 0027	"	"				
"	2FWC-MBV-90	"	"				
M2020	2HRA-BV-0030	COND. NORMAL MU	MEZZ SW CORNER OF COND.				
"	" 0031	"	"				
M2080A	2TEC-BV-0010	MN. STM. to turbine seals	MEZZ W. OF MN. STM HDR				
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd NE OF BFPT 1A				
"	" -10	" 1B	3rd SW OF BFPT 1B				
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th N OF E ELEVATOR				
"	" 0022	"	"				
M2035A	2FWA-BV-37	BFPT 1A Recirc	13th EAST				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBOIL CONT.				
"	" 0079	HP HTR 8A "	"				
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAKOFF	MEZZ NW OF COND				
"	" 0390	" Seat DRAIN	"				
"	" 389 ~~0391~~	" 1A1 " "	MEZZ N OF COND				

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 COOLER	"				
"	" 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 TURBIN SECT. 1C	NW CORNER COND GF CEILING				
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B				
"	" 0057	" OUTLET	"				
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM				
"	" 0016	"	"				

IP14_006195

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 INITIAL
M2021	2HRB-BV-0109	SEPARATOR 1D MU	MEZZ CONDENSER VAC. PMPS				
"	" 0110	" 1C "	"				
"	" 0111	" 1B "	"				
"	" 0112	" 1A "	"				
M2079	2TGA-BV-0005	HOOD SPRAY SUPPLY	3RD by GE TRAILER				
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS VENT to COND	3RD LP HTR 3				
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS VENT to DEA	3RD HP HTR 6A				
"	" 0080	" 6B "	3RD HP HTR 6B				
"	" 0076	" 7A "	5th HP HTR 7A	O	[illegible]	[illegible]	[illegible]
"	" 0079	" 7B "	5th HP HTR 7B	O	[illegible]	[illegible]	[illegible]
M2078B	TURB " 0162	LP HTR 4 " to COND	5th LP HTR 4	O	[illegible]	[illegible]	[illegible]
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8A	O	[illegible]	[illegible]	[illegible]
"	" 0078	" 8B "	6th HP HTR 8B	O	[illegible]	[illegible]	[illegible]
M2035B	2FWA-BV-0202	Boiler Feed Sample 11	10th S OF MCC 2809	O	[illegible]	[illegible]	DNC
"	" 0203	"	"	O	[illegible]	[illegible]	[illegible]
M2078A	2TEF-BV-0003	DEA CONTINUOUS VNT TO AUXS.	14th top OF DEA				
"	" 0007	"	"				
M20"	" 0011	"	"				
M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	17th S				
"	" 0003	CONTINUOUS BLOWDOWN	18th E END OF DRUM				
"	" MBV-4	"	"				
"	" MBV-2	STM SUPPLY to AUX STM	18th S OF DRUM				
"	" BV-0001	"	"				
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	9th Behind E ELEVATOR	O	—		
"	TURB " BV-12	C " ACV-2&3 CNTRL (126)	"	C	N/A		
"	" BV-14	"	"	O	—		
"	" BV-58	2ND SUPERHEAT to AUX STM	17th W. SIDE				
M2063A	2SGA-BV-0010	MN STM to AUX STM	"				

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

PID	VALVE #	DESCRIPTION	LOCATION	NEW POSITION / CLOSE INITIAL	OPEN O INITIAL	CLOSE C INITIAL	OPEN O INITIAL
2FWB M2036							
"	B-1 B-2 B-3 B-4	FLOW METER 1 BBFP open first	GF-W OF BBFP 2A				
"	B-5 B-6 B-7 B-8	FLOW METER 2 BFP open first	GF ABOVE BFPT LUBE OIL CENT.				

TEST #_____ DATE_____

P&ID	VALVE #	DESCRIPTION		LOCATION	PROBABILITY	CLOSED C INITIAL	OPEN C INIT
M2075	2TEC-BV-0027	LP HTR 2	LP TURB. SECTION 1B	GF - NW	III		
"	" 0031	"		CORNER	III		
"	" 0035	LP HTR 3		OF	III		
"	" 0039	"		COND. -	III		
"	" 0043	LP HTR 4		Bottom	III		
"	" 0047	"		Row	III		
"	" 0003	LP HTR 2	LP TURB. SECTION 1A	GF - NE	III		
"	" 0007	"		CORNER	III		
"	" 0011	LP HTR 3		OF	III		
"	" 0015	"		COND.	III		
"	" 0019	LP HTR 4			III		
"	" 0023	"			III		
"	" 0051	LP HTR 2	LP TURB. SECTION 1C	GF- NW	III		
"	" 0055	"		CORNER	III		
"	" 0059	LP HTR 3		OF	III		
"	" 0063	"		COND.	III		
"	" 0067	LP HTR 4		TOP	III		
"	" 0071	"		Row	III		
M2038 B	2FWD-BV-0121	COND. POLISH Regen Pump		GF	III		
"	" 0125	"		"	III		
M2008	2PSA-BV-0082	AUX. STM. TRAP 5		"	III		
M2080A	2TGC-BV-0058	AUX. STM. to Cond. RH		MEZZ. TOP OF VLV DOWN NE OF MCC 2A03 S. SIDE Boiler	III		
M2069	2SGG-BV-0058	MN. STM. WARMING LINE		MEZZ.	III		
M2068	2SGF-BV-0065	DOWNCOMER DRN. BLOWDOWN		MEZZ.	III		
"	" 0055	LWR. CONVECTION PASS HDR		10th east	III		
"	" 0057	"		"	III		
"	" 0035	"		10th west	III		
"	" 0028	"		"	III		

TEST # _____ DATE _____

P&ID	VALVE #	DESCRIPTION	LOCATION	PRIORITY	CLOSE C INITIAL	OPE C INIT
M2068	2SGF-BV-0041	SECOND. SPRHTR OUT HDR.	15th - West	III		
"	" 0043	" " INTERMED HDR	"	III		
"	" 0045	" " " "	"	III		
"	" 0049	" " PLATEN "	"	III		
"	" 0051	ROOF INLET HDR	"	III		
M2008	2PSA-BV-0026	TURBINE Seals S/U STM	Mezz 203-D	III	[illegible]	[illegible]

TEST # 3/4 DATE 5-13,1987

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				
"	" 0020	" 8A "	"				
"	" 0027	" 7A "	"				
"	" 0028	" 7A "	"				
"	" 0035	" 6A "	"				
"	" 0036	" 6A "	"				
"	" 0021	" 8B "	"				
"	" 0022	" 8B "	"				
"	" 0029	" 7B "	"				
"	" 0030	" 7B "	"				
"	" 0037	" 6B "	"				
"	" 0038	" 6B "	"				
M2020	2HRA-BV-0019	COND. NORMAL DRAWOFF	GF SW CORNER OF COND				
"	-0020	"	"				
M2077	2TEE-BV-0011	LP HTR 3 ALT. HLVL DUMP	GF - WEST OF COND				
"	" 0019	" 3 "	"				
"	" 0013	" 2 "	"				
"	" 0021	" 2 "	"				
"	" 0015	FLASH TANK "	GF - SW OF COND				
"	" 0022	" "	"				

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				
"	" 0017	"	"				
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"				
"	" 0027	"	"				
"	2FWC-MBV-90	"	"				
M2020	2HRA-BV-0030	COND. NORMAL MU	MEZZ SW CORNER OF COND.				
"	" 0031	"	"				
M2080A	2TGC-BV-0010	MN. STM. to turbine seals	MEZZ W. OF MN. STM HDR				
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd NE OF BFPT 1A	MP	MP	MP	MP
"	" -10	" 1B	3rd SW OF BFPT 1B	MP			
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th N of E ELEVATOR	MP	C MP		
"	" 0022	"	"	MP	C MP		
~~M2055A~~	~~2FWA-BV-37~~	~~BFPT 1A Recirc~~	~~15th EAST~~				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBOIL CONT.				
"	" 0079	HP HTR 8A "	"				
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAKOFF	MEZZ NW OF COND				
"	" 0390	" Seat DRAIN	"				
"	" 0391	" 1A1 " "	MEZZ N OF COND				

IP14_006201

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 TURBIN SECT. 1C	NW CORNER COND GF CEILING				
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B				
"	" 0057	" OUTLET	"				
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM				
"	" 0016	"	"				

IP14_006202

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 2 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	NEW POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2021	2HRB-BV-0109	SEPARATOR 1D Mu	MEZZ CONDENSER VAC. PMPS				
"	" 0110	" 1C "	"				
"	" 0111	" 1B "	"				
"	" 0112	" 1A "	"				
M2079	2T6A-BV-0005	HOOD SPRAY SUPPLY	3rd by GE Trailer				
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS vent to COND	3rd LP HTR 3				
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS vent to DEA	3rd HP HTR 6A				
"	" 0080	" 6B "	3rd HP HTR 6B				
"	" 0076	" 7A "	5th HP HTR 7A				
"	" 0079	" 7B "	5th HP HTR 7B				
M2078B	" 0162	LP HTR 4 " to COND	5th LP HTR 4				
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8A				
"	" 0078	" 8B "	6th HP HTR 8B				
M2035B	2FWA-BV-0202	Boiler Feed Sample 11	10th S OF MCC 2B09				
"	" 0203	"	"				
M2078A	2TEF-BV-0003	DEA CONTINUOUS VENT TO ATMOS.	14th top OF DEA	O MP	MP	MP	MP
"	" 0007	"	"	O MP	MP		
"	" 0011	"	"	O MP	MP		
M20 M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	17th S	O MP	MP		
"	" 0003	CONTINUOUS BLOWDOWN	18th E END OF DRUM	O MP	MP		
"	" MBV-4	"	"	O MP			
"	" MBV-2	STM SUPPLY to AUX STM	18th S OF DRUM	C MP			
"	" BV-0001	"	"	O MP			
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	9th Behind E ELEVATOR				
"	" BV-12	"	"				
"	" BV-14	"	"	O MP		MP	MP
"	" BV-58	2ND SUPERHEAT to AUX STM	17th W. SIDE	O MP			
M2063A	2SGA-BV-0010	MN STM to AUX STM	"	MP			
"	2SGA-BV-0195	STEAM TRAP	18th West				

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

PIID	VALVE #	DESCRIPTION	LOCATION	VALVE POSITION / CLOSE INITIAL	OPEN O INITIAL	CLOSE C INITIAL	OPEN O INITIAL
2FWB M2036							
"	B-1 B-2 B-3 B-4	FLOW METER 1 BBFP open first	GF-W OF BBFP 2A				
"	B-5 B-6 B-7 B-8	FLOW METER 2 BBFP open first	GF ABOVE BFPT LUBE OIL CENT.				

TEST #_____ DATE_____

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

TEST # _____ DATE _____

P&ID	VALVE #	DESCRIPTION	LOCATION	PRIORITY	CLOSE C INITIAL	OPE C INIT.
M2068	2SGF-BV-0041	SECOND. SPRHTR OUT HDR.	15th - West	III		
"	" 0043	" " INTERMED HDR	"	III		
"	" 0045	" " " "	"	III		
"	" 0049	" " PLATEN "	"	III		
"	" 0051	ROOF INLET HDR	"	III		
M2008	2PSA-BV-0026	TURBINE Seals S/A STM	McEE 203-D	III		