TEST #8

Unit 2 Turbine Perf. Tests

5/15/87 Fri. 830-1030

905 MWg - VWO/O.P.

IP14_005345

H PRESS 3.19 CORR
1.3

TEST POINT 8

TEST LOAD 898356. TEST HR 7773.8

GROUP 1 CORRECTIONS

	DESIGN	TEST	HR	LOAD
TD(F)	-2.00	1.24	1.0004	1.0033
EXTR DP(%)	3.00	1.01	0.9997	0.9974
AUX EXT(%)	4.09	4.28	1.0000	1.0000
MSD(#/HR)	0.0	0.	1.0000	1.0000
APH(%)	2.30	1.50	0.9957	1.0043
RHO(#/HR)	0.0	0.	1.0000	1.0000
COND SC(F)	0.0	0.26	1.0000	1.0000
COMBINED FACTOR			0.9958	1.0050

GROUP 2 CORRECTIONS

	DESIGN	TEST	HR	LOAD
PT(PSIA)	2532.20	2464.70	1.0017	0.9738
TT(F)	1000.00	988.20	1.0019	1.0012
THR(F)	1000.00	996.30	1.0005	0.9983
DP RH(%)	10.00	7.88	0.9979	1.0056
P EXH(HG)	2.30	3.19	1.0127	0.9875
COMBINED FACTOR			1.0147	0.9664

Correction to 5%-OP conditions

CORR LOAD 924915. CORR HR 7693.8

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IP14_005346

EXH. PRESS 3.19 (H CORR
1.3

TEST POINT 8

TEST LOAD 898356. TEST HR 7773.8

GROUP 1 CORRECTIONS

	DESIGN	TEST	HR	LOAD
TD(F)	-2.00	1.24	1.0004	1.0033
EXTR DP(%)	3.00	1.01	0.9997	0.9974
AUX EXT(%)	4.09	4.28	1.0000	1.0000
MSD(#/HR)	0.0	0.	1.0000	1.0000
APH(%)	2.30	1.50	0.9957	1.0043
RHD(#/HR)	0.0	0.	1.0000	1.0000
COND SC(F)	0.0	0.26	1.0000	1.0000
COMBINED FACTOR			0.9958	1.0050

GROUP 2 CORRECTIONS

	DESIGN	TEST	HR	LOAD
PT(PSIA)	2412.20	2464.70	0.9987	1.0214
TT(F)	1000.00	988.20	1.0019	1.0012
THR(F)	1000.00	996.30	1.0005	0.9983
DP RH(%)	10.00	7.88	0.9979	1.0056
P EXH(HG)	2.30	3.19	1.0127	0.9875
COMBINED FACTOR			1.0118	1.0136

Correction to design conditions

CORR LOAD 881856. CORR HR 7716.9

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ELECTRICAL LOAD

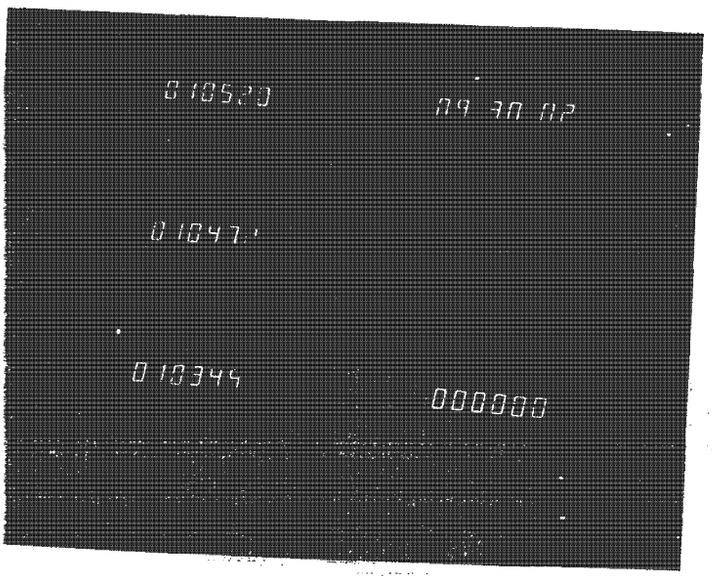
INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

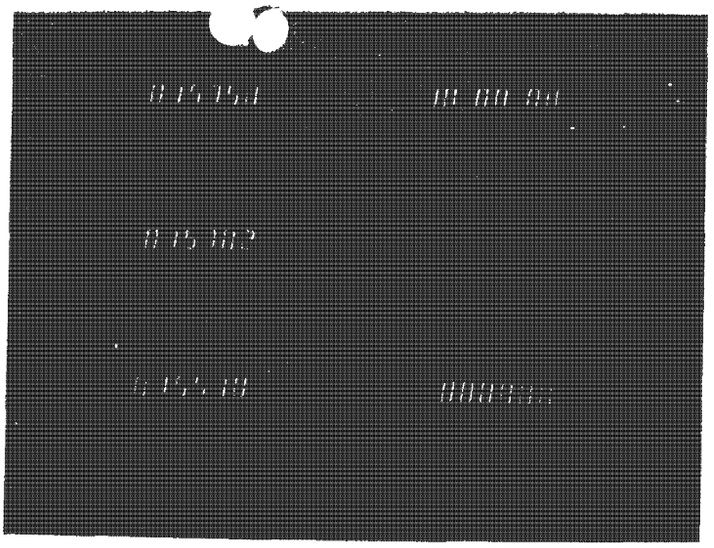
MEASUREMENT (CONTROL ROOM)

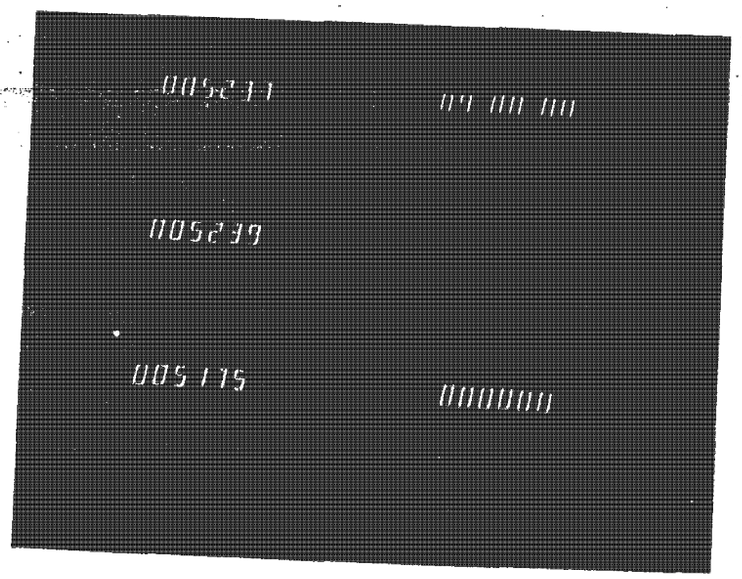
TEST POINT # 8 VWO-OP
LOAD MWg 900
DATE 5/15/87
NAME CS Reese, IV

TIME HR/MIN/SEC	COUNTS A PHASE	COUNTS B PHASE	COUNTS C PHASE
8:30:00	0	0	0
8:45:	00 2618	15 2661	30 2672
9:00:00	5237	5239	5175
9:15:	00 7881	15 7895	30 7842
9:30:02	10520	10472	10345
9:45:	00 13136	15 13130	30 13014
10:00:00	15750	15702	15510
10:15:	00 18362	15 18360	30 18179
10:30:00	21033	20925	20671

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







INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE Z70T151

Test Point # 8?
MW g
Date 5-15-87 2nd TEST
Observer L LEWIS

CONDENSER HOT WELL LEVEL \ MEASUREMENT

TIME	C ~~A~~ HOOD LEVEL	B HOOD LEVEL	A ~~C~~ HOOD LEVEL
0830	12 1/2	10 3/8	
0845	13 1/4	11 1/4	
0900	13 7/16	11 3/8	
0915	13 1/8	11 1/8	
0930	13 1/6	11 1/4	
0945	13	11	
1000	12 5/8	10 5/8	
1015	12 5/8	10 5/8	
1030	12 5/8	10 1/2	

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

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T1S1

Test Point #
MW g
Date 5-15-87
Observer B Warner

DEARRATOR LEVEL

TIME	LEVEL Low	LEVEL High
0830	9.00	10.50
0845	8.50	10.25
0900	8.75	10.00
0915	8.50	10.50
0930	8.00	10.00
0945	8.50	10.75
1000	8.50	10.75
1015	8.25	9.00
1030	8.50	10.00

NOTE: READ DEARRATOR LEVEL LOCALLY EVERY 15 MINUTES.

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

Test Point # 8?
MW g
Date 5-15-87 2nd TEST
Observer L LEWIS

STEAM PACKING EXH DRAIN FLOW

TIME	TIME INCREMENT
0820	2:49.22
0825	2:52.64
1030	2:49.87
1035	2:51.17

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

Distance between upper and lower marks. _____ (in)

Diameter of barrel. _____ (in)

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

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

Test pt 8
6-15-87

stopped. 10:52

1634004
0000000
1079311
82020
1615294
0000000
1067348
81115
1390742
0000000
0944211
72134
1220653
0000000
0826632
63151
1045000
0000000
0709760
54168
0873567
0000000
0592345
45184
0699802
0000000
0474628
36189
0528021
0000000
0357052
27261
0352709
0000000
0239147
18221
0182014 Booster
0000000
0121301 Main
09215 Time

Test Pt 8
start 8:36 AM

IP14_005353

5/15/87 TEST #8 $8^{00}-10^{30}$ VWO (OP)

Time	Atmospheric Pressure, in Hga	Ambient Temperature F
8:34	25.45	72
9:34	25.45	72
10:32	~~24.95~~ 25.45	73

3/15/87 $8^{30} - 10^{30}$ TEST #8 VWO 5% OP
900 MW

BOILER FEED PUMP TURBINES

	BFPT 1A			BFPT 1B		
Time	Speed	Torque	HP	Speed	Torque	HP
8:32	5387	12,830	13,230	5494	13,680	14,310
8:46	5429	12,960	13,400	5505	13,750	14,410
9:02	5437	13,020	13,470	5564	14,090	14,940
9:17	5404	12,770	13,130	5489	13,630	14,260
9:33	5440	13,020	13,480	5511	13,780	14,480
9:46	5411	12,890	13,290	5496	13,690	14,320
10:03	5438	13,000	13,470	5428	12,960	13,390
10:16	5475	13,200	13,780	5425	13,840	14,590
10:31	5421	12,400	13,950	5405	13,750	14,400

5/15/87 Test # 8 895 MW

LAB Flow

Sample # 2 Condensate Pump Discharge

Sample # 10 DEA

Sample # 12 Boiler Water

no flow
all taps shut
off during test

pump stroke ammonia 23.
hydrazine 17

COAL SAMPLES TEST #8

2A	3:00
2B	4:00
2C	5:00

UNDER SOFTWARE LOCK 05/15/87 08:35:59 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	896.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005D	47.55	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6483.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	988.	DEGF	THROTTLE TEMP		
SGGTE0004	988.	DEGF	MAIN STEAM LINE T		
COAXI012A	2496.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2495.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	995.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	997.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	538.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	540.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6483.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6368.	KPPH	BOILER FEEDWATER F		
COAXI001A	337.5	TPH	TOTAL FUEL FLOW		
COAXI080A	5.0	PCT	WEST FLUE GAS O2		
COAXI079A	5.0	PCT	EAST FLUE GAS O2		
COAXI083A	-.8	INWC	FURNACE PRESS		
SGAPT0171	-.8	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005358

UNDER SOFTWARE LOCK 05/15/87 08:36:29 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	388.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.530	LB/MB	STACK NOX CONVERTED		
SAAKK0002	487.	PPM	SCRUB INLET SO2		
SAAKK0004	31.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	88.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	88.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	113.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	112.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	98.3	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005359

05/15/87 08:50:30 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	894.	MW	UNIT LOAD		
APEKY0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	47.80	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6412.	KPPH	STEAM FLOW (FW + SSP)		
COAXI015A	998.	DEGF	THROTTLE TEMP		
SGGTE0004	998.	DEGF	MAIN STEAM LINE T		
COAXI012A	2492.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2491.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	995.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	997.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	535.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	538.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6412.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6361.	KPPH	BOILER FEEDWATER F		
COAXI001A	337.5	TPH	TOTAL FUEL FLOW		
COAXI080A	4.8	PCT	WEST FLUE GAS O2		
COAXI079A	5.0	PCT	EAST FLUE GAS O2		
COAXI083A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.7	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005360

05/15/87 08:50:52 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	307.	DEGF	SEC AH 1B GAS OUT T		
SAAKX0007	.523	LB/MB	STACK NOX CONVERTED		
SAAKK0002	481.	PPM	SCRUB INLET SO2		
SAAKK0004	31.9	PPM	STACK SO2		
HRCTE0377	87.	DEGF	IP COND 1B INLET T		
HRCTE0378	87.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	87.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	111.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	98.5	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005361

UNDER SOFTWARE LOCK 05/15/87 09:04:41 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	893.	MW	UNIT LOAD		
APEKY0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	47.94	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6414.	KPPH	STEAM FLOW (FW + SSP)		
COAXI015A	988.	DEGF	THROTTLE TEMP		
SGGTE0004	989.	DEGF	MAIN STEAM LINE T		
COAXI012A	2489.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2491.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	995.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	996.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	535.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	538.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6414.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6386.	KPPH	BOILER FEEDWATER F		
COAXI001A	337.6	TPH	TOTAL FUEL FLOW		
COAXI080A	5.0	PCT	WEST FLUE GAS O2		
COAXI079A	4.3	PCT	EAST FLUE GAS O2		
COAXI083A	-.6	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005362

UNDER SOFTWARE LOCK 05/15/87 09:05:05 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	307.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.515	LB/MB	STACK NOX CONVERTED		
SAAKK0002	484.	PPM	SCRUB INLET SO2		
SAAKK0004	31.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	87.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	87.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	111.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	97.9	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005363

UNDER SOFTWARE LOCK 05/15/87 09:18:51 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	894.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	47.38	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6473.	KPPH	STEAM FLOW (FW + SSP)		
COAXI015A	992.	DEGF	THROTTLE TEMP		
SGGTE0004	992.	DEGF	MAIN STEAM LINE T		
COAXI012A	2489.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2490.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	996.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	998.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	535.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	538.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6473.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6443.	KPPH	BOILER FEEDWATER F		
COAXI001A	336.1	TPH	TOTAL FUEL FLOW		
COAXI080A	5.1	PCT	WEST FLUE GAS O2		
COAXI079A	4.8	PCT	EAST FLUE GAS O2		
COAXI003A	-.6	INWC	FURNACE PRESS		
SGAPT0171	-.8	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005364

UNDER SOFTWARE LOCK 05/15/87 09:19:13 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	387.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.525	LB/MB	STACK NOX CONVERTED		
SAAKK0002	333.	PPM	SCRUB INLET SO2		
SAAKK0004	31.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	88.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	88.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	112.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	97.7	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005365

UNDER SOFTWARE LOCK 05/15/87 09:38:05 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	896.	MW	UNIT LOAD		
APEKY0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKX0005B	46.77	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6396.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	988.	DEGF	THROTTLE TEMP		
SGGTE0004	987.	DEGF	MAIN STEAM LINE T		
COAXI012A	2492.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2491.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	996.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	998.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	537.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	541.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6396.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6348.	KPPH	BOILER FEEDWATER F		
COAXI001A	335.3	TPH	TOTAL FUEL FLOW		
COAXI080A	4.9	PCT	WEST FLUE GAS O2		
COAXI079A	5.1	PCT	EAST FLUE GAS O2		
COAXI083A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.7	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005366

UNDER SOFTWARE LOCK 05/15/87 09:39:10 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	389.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.867	LB/MB	STACK NOX CONVERTED		
SAAKK0002	329.	PPM	SCRUB INLET SO2		
SAAKK0004	76.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	88.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	88.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	112.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	97.4	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005367

UNDER SOFTWARE LOCK 05/15/87 09:47:21 F1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	896.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	47.36	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6407.	KPPH	STEAM FLOW (FW + SSP)		
COAXI015A	988.	DEGF	THROTTLE TEMP		
SGGTE0004	987.	DEGF	MAIN STEAM LINE T		
COAXI012A	2494.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2493.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	995.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	996.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	537.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	548.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6407.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6375.	KPPH	BOILER FEEDWATER F		
COAXI001A	335.2	TPH	TOTAL FUEL FLOW		
COAXI080A	4.9	PCT	WEST.FLUE GAS O2		
COAXI079A	4.6	PCT	EAST FLUE GAS O2		
COAXI083A	-.5	INWC	FURNACE PRESS		
SGAPT0171	-.8	INWC	SG EAST FLUE GAS PR		

BACKWARD PAGING DESK1

IP14_005368

UNDER SOFTWARE LOCK 05/15/87 09:46:32 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	309.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.510	LB/MB	STACK NOX CONVERTED		
SAAKK0002	488.	PPM	SCRUB INLET SO2		
SAAKK0004	35.9	PPM	STACK SO2		
HRCTE0377	87.	DEGF	IP COND 1B INLET T		
HRCTE0378	87.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	87.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	112.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	112.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	115.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	97.4	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005369

UNDER SOFTWARE LOCK 05/15/87 10:07:06 P1-30

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXT027A	895.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	46.50	MW	TOTAL AUX POWER (ANALOG)		
COAXT023A	6489.	KPPH	STEAM FLOW (FW + SSP)		
COAXT015A	989.	DEGF	THROTTLE TEMP		
SGGTE0004	998.	DEGF	MAIN STEAM LINE T		
COAXT012A	2494.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2494.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	995.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	997.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	535.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	538.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXT021A	6489.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6369.	KPPH	BOILER FEEDWATER F		
COAXT001A	334.9	TPH	TOTAL FUEL FLOW		
COAXT080A	4.7	PCT	WEST FLUE GAS O2		
COAXT079A	4.7	PCT	EAST FLUE GAS O2		
COAXT003A	-.3	INWC	FURNACE PRESS		
SGAPT0171	-.3	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005370

UNDER SOFTWARE LOCK 05/15/87 10:07:32 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.2	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI110A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	310.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.514	LB/MB	STACK NOX CONVERTED		
SAAKK0002	483.	PPM	SCRUB INLET SO2		
SAAKK0004	30.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	88.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	88.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	113.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	112.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	97.5	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005371

UNDER SOFTWARE LOCK 05/15/87 10:28:21 F1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	897.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK00005B	47.13	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6428.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	991.	DEGF	THROTTLE TEMP		
SGGTE0004	992.	DEGF	MAIN STEAM LINE T		
COAXI012A	2497.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2495.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	995.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	997.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	537.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	538.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6428.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6358.	KPPH	BOILER FEEDWATER F		
COAXI001A	334.5	TPH	TOTAL FUEL FLOW		
COAXI008A	4.5	PCT	WEST FLUE GAS O2		
COAXI009A	5.0	PCT	EAST FLUE GAS O2		
COAXI003A	-.4	INWC	FURNACE PRESS		
SGAPT0171	-.6	INWC	SG EAST FLUE GAS PR		

FORWARD PAGING DESK1

IP14_005372

UNDER SOFTWARE LOCK 05/15/87 10:28:44 T1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.3	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI118A	2.8	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	310.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.519	LB/MB	STACK NOX CONVERTED		
SAAKK0002	486.	PPM	SCRUB INLET SO2		
SAAKK0004	31.9	PPM	STACK SO2		
HRCTE0377	88.	DEGF	IP COND 1B INLET T		
HRCTE0378	88.	DEGF	IP COND 1B INLET T		
HRCTE0379	88.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	88.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	113.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	112.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	116.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	117.	DEGF	HP COND 1A EAST OUTLET T		
COAXI078A	97.1	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005373

UNDER SOFTWARE LOCK 05/15/87 10:38:19 T1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
COAXI027A	891.	MW	UNIT LOAD		
APEKV0005	[redacted]	MW	AUX PWR USED	BYPASS	NO-IN
APEKK0005B	47.60	MW	TOTAL AUX POWER (ANALOG)		
COAXI023A	6382.	KPPH	STEAM FLOW (FW + SSF)		
COAXI015A	992.	DEGF	THROTTLE TEMP		
SGGTE0004	993.	DEGF	MAIN STEAM LINE T		
COAXI012A	2482.	PSIG	TURBINE THROTTLE PRESS		
SGGPT0001	2483.	PSIG	MAIN STEAM LINE PR		
SGJTE0013	998.	DEGF	TURBINE N HOT REHEAT INLET T		
SGJTE0016	999.	DEGF	TURBINE S HOT REHEAT INLET T		
SGJPT0006	535.	PSIG	TURBINE N HOT REHEAT INLET PR		
SGJPT0007	535.	PSIG	TURBINE S HOT REHEAT INLET PR		
COAXI021A	6377.	KPPH	FDW FLOW TO ECONOMIZER		
FWAFT0025	6288.	KPPH	BOILER FEEDWATER F		
COAXI001A	337.5	TPH	TOTAL FUEL FLOW		
COAXI080A	4.8	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_005374

UNDER SOFTWARE LOCK 05/15/87 10:38:39 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
HRAPT0112	1.3	INHGA	HP COND 1A SHELL PR		
HRAPT0113	.5	INHGA	IP COND 1B SHELL PR		
COAXI1100A	2.9	INHGA	CONDENSER ABSOLUTE PRESSURE		
SGBTE0927	[illegible]	DEGF	SEC AH 1A GAS OUT T		HI-WRN
SGBTE0929	310.	DEGF	SEC AH 1B GAS OUT T		
SAAKK0007	.523	LB/MB	STACK NOX CONVERTED		
SAAKK0002	481.	PPM	SCRUB INLET SO2		
SAAKK0004	31.9	PPM	STACK SO2		
HRCTE0377	89.	DEGF	IP COND 1B INLET T		
HRCTE0378	89.	DEGF	IP COND 1B INLET T		
HRCTE0379	89.	DEGF	LP COND 1C EAST INLET T		
HRCTE0380	89.	DEGF	LP COND 1C WEST INLET T		
HRCTE0389	114.	DEGF	IP COND 1B OUTLET T WEST		
HRCTE0394	113.	DEGF	IP COND 1B OUTLET T EAST		
HRCTE0397	117.	DEGF	HP COND 1A WEST OUTLET T		
HRCTE0401	118.	DEGF	HP COND 1A EAST OUTLET T		
COAXI0780A	97.6	PCT	TOTAL AIR FLOW		

FORWARD PAGING DESK2

IP14_005375

BLR AUX TEST-3 05/15/87 08:34:12

TOTAL OIL	TOT COAL
02129934.	00337578.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006366.	00004857.	00007204.	00004879.
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_005376

BLR AUX TEST-3 05/15/87 08:45:12

TOTAL OIL	TOT COAL
02129966.	00337640.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006367.	00004858.	00007206.	00004880.
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_005377

BLR AUX TEST-3 05/15/87 09:00:10

02136010.	00337723.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX	1A2 AUX	1B1 AUX	1B2 AUX
00006369.	00004859.	00007208.	00004881.
MW/HR	MW/HR	MW/HR	MW/HR
1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER

L/L SCH L/L < > L/L L/L GTD

IP14_005378

BLR AUX TEST-3 05/15/87 09:15:28

TOTAL OIL	TOT COAL
02130056.	00337809.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006371.	00004860.	00007210.	00004882.
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_005379

BLR AUX TEST-3 05/15/87 09:37:29

TOTAL OIL	TOT COAL
02130125.	00337932.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006373.	00004862.	00007213.	00004884.
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_005380

BLR AUX TEST-3 05/15/87 09:46:51

TOTAL OIL	TOT COAL
02130154.	00337985.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006375.	00004863.	00007214.	00004885.
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_005381

BLR AUX TEST-3 05/15/87 10:05:56

00000000	00000000
02130213.	00338091.
CAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX POWER	1A2 AUX POWER	1B1 AUX POWER	1B2 AUX POWER
00006377.	00004865.	00007217.	00004886.
MW/HR	MW/HR	MW/HR	MW/HR

L/L 8CH L/L < > L/L L/L GTD

IP14_005382

BLR AUX TEST-3 05/15/87 10:19:14

TOTAL OIL	TOT COAL
02130253.	00338165.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006378.	00004866.	00007218.	00004887.
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_005383

BLR AUX TEST-3 05/15/87 10:30:07

TOTAL OIL	TOT COAL
02130284.	00338226.
GAL.	TONS
TOTAL IGNTR OIL	TOTAL COAL

1A1 AUX P	1A2 AUX P	1B1 AUX P	1B2 AUX P
00006380.	00004867.	00007220.	00004888.
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_005384

UNDER SOFTWARE LOCK 05/15/87 08:37:08 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	18.8 MW	SWGR 1A1 MEGAWATT		
APEKK0002	14.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	894. MW	UNIT LOAD		
APEKV0007	847.4 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.84 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.16 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.07 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	15.63 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	47.70 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXPWR

IP14_005385

UNDER SOFTWARE LOCK 05/15/87 08:53:09 F1-28

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.8 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	896. MW	UNIT LOAD		
APEKV0007	847.4 MW	NET UNIT MEGAWATTS		
APEKK0001B	10.02 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.09 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.15 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	15.41 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	47.76 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005386

UNDER SOFTWARE LOCK 05/15/07 09:05:57 P1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.8 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.8 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAKI027A	896. MW	UNIT LOAD		
APEKV0007	848.1 MW	NET UNIT MEGAWATTS		
APEKK0001B	10.24 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.12 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.27 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	15.45 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	48.07 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005387

UNDER SOFTWARE LOCK 05/15/87 09:19:49 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	14.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	895. MW	UNIT LOAD		
APEKV0007	847.9 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.64 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.07 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.27 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	15.21 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	47.11 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005388

UNDER SOFTWARE LOCK 05/15/87 09:38:42 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	9.6 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.8 MW	SWGR 1A2 MEGAWATT		
APEKK0003	10.2 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	895. MW	UNIT LOAD		
APEKV0007	849.2 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.60 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.05 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.41 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	15.28 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	47.47 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005389

UNDER SOFTWARE LOCK 05/15/87 09:47:49 P1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	18.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.8 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	896. MW	UNIT LOAD		
APEKV0007	848.7 MW	NET UNIT MEGAWATTS		
APEKK0001D	9.64 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002D	12.97 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003D	9.13 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004D	13.53 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005D	47.24 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005390

UNDER SOFTWARE LOCK [redacted]

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.2 MW	SWGR 1A1 MEGAWATT		
APEKK0002	13.8 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.0 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.2 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[redacted] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	895. MW	UNIT LOAD		
APEKV0007	849.2 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.68 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.09 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	8.88 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	14.91 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	46.56 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005391

UNDER SOFTWARE LOCK 05/15/87 10:39:14 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
APEKK0001	10.8 MW	SWGR 1A1 MEGAWATT		
APEKK0002	14.4 MW	SWGR 1A2 MEGAWATT		
APEKK0003	9.6 MW	SWGR 1B1 MEGAWATT		
APEKK0004	16.8 MW	SWGR 1B2 MEGAWATT		
APEKV0005	[illegible] MW	AUX PWR USED	BYPASS	NO-IN
COAXI027A	895. MW	UNIT LOAD		
APEKV0007	845.6 MW	NET UNIT MEGAWATTS		
APEKK0001B	9.63 MW	SWGR 2A1 POWER (ANALOG)		
APEKK0002B	13.27 MW	SWGR 2A2 POWER (ANALOG)		
APEKK0003B	9.00 MW	SWGR 2B1 POWER (ANALOG)		
APEKK0004B	15.74 MW	SWGR 2B2 POWER (ANALOG)		
APEKK0005B	47.64 MW	TOTAL AUX POWER (ANALOG)		

FORWARD PAGING AUXFDR

IP14_005392

TURBINE PERF TEST

Nissen 5/16/87

- Punch List for Test Package -

TEST # 8

Date Fri 5/15/87

Time Period 8:30-1030

Test Conditions:

Load Mwg 898

VP VWO

Throttle Press 2465

Throttle Temp 988

HRH 996

BP 3.19

XX Preliminary Results (GE)

X Electrical Load

X Pictures - copy

X HW Level

X DA Level

X Stm Packing Exh flow

X Turbine Meter - copy

X Baro

X Indicon Readings

X Lab Sample Flow Rates

X Coal Sample Pts

X Videocopies Desk1 / Desk2

X Test-3 Totalizers

X Aux Fdr

X Field / Test Notes

X-No Test Notes - (on test)

X Cycle Isolation - Temp Walkdown

Htr2 Altr Drn Metal Temps

X DRN1 / DRN2 / DRN3

Cycle Isolation Check List

IP14_005393

LOGS

TEST # 8

Date 5/15/87

(test duration)
Time 8:30-10:30

Times

GE Raw Data

8:30 - 1032 Temps

830 - 1032 Press / Flows / Misc

_____ FoxIA Class II Calcs

8301030 FoxIA Trend #2 Standard Log

830-1030 Perf #9 " "

830-1030 Perf #10 " "

8:30-1030 FoxIA Perf #9 Average Log

8:30-1030 " #10 " "

_____ X TGSI Status Printout
Std / DLS

7:00/8:00/9:00/10:00 TIAC hourly printouts

IP14_005394

UNIT #2 - TURBINE TEST

Nissen
5/15/87 FRI

Test #8 (Fri - 2nd test)

VWO/5% O.P.
actual 2500 psi | 905 MW gross

Test Start @ 8:30 - 10:30

CONCERNS:

1) Mstm Relief Valves
Relief Valve #3 whining cold / No steam out top
4 ringing " " " " "

2) BFPT - Main Steam Supply
OK - isolated to extraction steam
maxed out

3) Backpressure
air inleakage / major leak repaired between tests
Dropped BP 1" Hg - allowed VP-D to come out

4) IP - Cooling Admission Steam [Went into alarm due to ↑HRH / sprays between tests]
temp @ 900° (down - closed 1/2 turn)
(opened back up after 1st test)
temp 898° / 874°

IP14_005395

5) BFP 1B Before Seat Drain - leak
really screaming

6) Out of total Air flow plenty of fans
(Required to make temps)
Biasing Upper Pulvs (top 3)
too late to blow 2K's / 3K's
Should have blown steam between tests
Will at present conditions
<SB was done last night which included
WW's (IR's)!>

LIMITATIONS - on going up on load
BFPT - HP Steam supply
Total Air - <if swapped pulvs would give air capacity
more room for O_2>

GE: • Valved out condensate flow nozzle
set of taps on Low Range 10psi
Still on High Range 50psi
• FW Flow Nozzle High on Range
65 (on 60psi PT)

	@850	@942
	VWO	
	2491	2492
MStm	990°	988°
	0/0	0/0
	1001/997	1000/997
	0	0
chest	2471	2470
	1974	1974
	575	576
MWg	901	901
Aux	47.65	47.36

PF 10 lag
MVAR 40 (TGSJ 11)
Press H_2 62.5

@8:45 HW ~~512 3/4~~ 41 3/4

BP 1.93/1.75/1.62 1.91/1.75/1.62
CCW 88° / HCW 117 116 111 113

Drum Level 2½" / -1½" / 0"

⊗ 3 Vacumn Pumps

3 polishers F/S

Pulv 10 o/s WB 40%
Brai H 9% E 9% A 9%
Feeder Speeds 66% (on others)

Brai RH 38% / PSH 100%
Level 3½ / 0 / -½
SSH 2027°F

CBD - DNO'd replacing three way valve

BFPT 1A CV Position 38%
1B 43%

NOTE: Vibration indication shows

TGSI Brg	#1 2.82	#2 3.03	#3 2.39	#4 4.08	#5 3.68
	#6 3.56	#7 0.34	#8 1.65	#9 0.3	#10 0.73
	#11 2.60	12 2.57	13 1.63		

@ GEMotor	1 1.4?	2 2.0	3 2.0	4 3.7	5 3.2
	6 3.3	7 0.1	8 1.4	9 0.1	10 0.5
	11 2.3	12 2.1	13 1.2		

Circled #'s indicating high vibration (above smooth)

Turbine Test Unit#2

Nissen
Fri - 5/15
(1st test of day)

TEST #7

3rd Valve Point (Cracking Point #4)
LOAD ~775 MWg (SMW low ? BP?)
<Request load change to 895 @ 6:30 - start>
& go as high as possible

Start: ~~2:45~~ ~~3:00~~ 3:15 - 5:15
extension due to #1 IP Cooling Stm / #2 Moved off valve pt CV#4

Talk to Walt → have flow

#1) IP Admission Cooling Steam Supply TGC-M2080A GE-SRC4-
closed down 1 1/8 turns on BY-20
8th Stage Wheel Spacing temp Alarm 973°
<Turned prior to playing w/ on startup>
GE request to match flow same as Unit#1
for comparison pts 442 8th stg wheel Sp TE / 443 GF
Start 1:46 877 / 864 ~~215~~ @3:15 934 / 896
2:00 930 / 895 @4:30 940 / 898

#2) Feedback Voltage CV D(#4) -9.706 mx (9.685) test#1 @ 3VP
~~Raised~~ Lowered CV#4 position back to
1st test voltage feedback

IP14_005400

NOTE: All Turbine Tests
TGSI Time off 1 hour @ 2:00 actually 3:00

5 Dedicated Operators

NOTE:
Generator Hours (Board)
5/15/87 @ 4:20 14439.5 hours

LP Htr 2 Turb Side Drip Pot
TEC-ACV-62 popped open momentarily

IP14_005401

	@4:05	@ 5:15
	776 MWg	775
%	100/99/56/4	
TGSI	80% 3VP	
	2395	2395
	1008	1009
	0/0	
	1010/1008	1009/1006
	0	
	2373	2374
	1670	1671
	492	492
→	Turb Manual	
	Load Limiting	
	Load Set 799	
psia BP	2.11/2.20/1.47	2.11/2.20/1.45
HK	42½	41
DA	102	103
Gen	62.4	
PF	.999	
MVAR	55	
Aux Pwr		44.34
Stm Flow		~~5404~~ 5478
Pr. S		~~50~~ 5404

IP14_005402

SSH 1930°
Excess Air E 5.1 / W 5.3 O_2
Bias RH 100 / PSH 55

Drum 2" / -1/2 / -4"

7 pulverizers I/s D R4
controlling temps 4 EA
2D WB Dampers 42%
2E Bias 9%
Feeder Speeds 57-59%

[linear drives not square rooted getting twice flow as Unit #4 for same valve position]

3 polishers

Scrubbers 4

NOTE:

MStm Relief Valve #3 burping

3rd one from end to South

May be limiting factor in raising load

{Problem due to stolen parts (taken for Unit #1)

handle /etc

looks like retaining bolt backing out

parts to be here next week }

8:30 start - 5/15/87 Test # 8 1/
895 MW

IPP # 1

ISOLATION - CHECK LIST

BOILER Roof

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

Blowdown Tank Vent (north side)

IP14_005406

IPP #1

started readings this page 9:40

ISOLATION - CHECK LIST

18th Floor - Top of Boiler

Vent from each Reheat line
Steam leakage near relief valves

164	T	Boiler Drum to Aux Steam (South) (Valve 1 & MBV2)
163	T	Trap open
288	T	Superheat Steam to Aux Stm - (18th & 17th floor) (west)
176	T	Superheat Steam to Air Heater Soot Blowers (139, MBV 140)
189	T	Superheat Steam to Boiler Soot Blowers (141, MBV 142)
342	T	MS to Reheater Bypass (ACV 134, MUV 133)
211	T	Superheat Steam to Boiler Soot Blowers (143, MBV144) - east
108/102	T	Combustion gas Reheat Soot Blowers (17, MBV-24) - east

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

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

IPP #1
ISOLATION - Check LIST

13th - 17th Floors

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

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

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

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

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

IPP #1

ISOLATION - Check List

8th - 12th floors

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

T downstream 198/ T upstream 276 11th 4" Drain from DA to Bsmt sump (valve #23)
CRH pressure taps

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

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

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

@ 9:25 10:00

287 273 T 9th CRH SPLY To Aux Hdr (BV 11/12) west
277 270 T CRH SPLY To Aux Hdr (BV 13/14)
294 292 T CRH SPLY To Aux Hdr (BV 15) east

IPP # 1

ISOLATION - CHECK LIST

4th - 7th Floors

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

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

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

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

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

IPP # 1

ISOLATION Check LIST

TB DECK

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

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

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

IP warming valve
Ventelator valve

Hood Sprays
Hood Spray press Reading

Computer Trailer

Control Room

IPP #1

Isolation Check List

Boiler - 3 floor to Bsmt

2ND FLOOR - SOUTH

Boiler Drains [62,61], [65, MBV66], [63,64], [67,68]

2ND FLOOR - WEST

Traps (2) from Aux Steam to Blowdown Tank

2ND FLOOR - EAST

BOILER DRAINS 170,69

2ND FLOOR - (NORTH - EAST)

Air HTR Soot Blowing drain to Condenser MBV-35

BSmt

DA Drain to Air Preheat

Valve 24 - 1 floor above FGR pumps

valves 113, 114, 119, 122, 123 - BSmt

APH Return to DA and Condenser.

ACV 134, 130, 131

Combustion gas Reheat to Condensate after HTR 2

150, 435 tell tale 436

~~FGR~~ FGR pump Recirc 110, 113, 114, 117

Pump leakage

2ND FLOOR West

Boiler drains.

IPP #1

Isolation Check List

Scrubber Bldg.

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

IPP # 1

ISOLATION Check LIST

MEZZ

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

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

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

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

IPP # 1

ISOLATION - Check List

Mezz - Cont.

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

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

HTR #1 & DC Condensate Bypass

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

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

11/

IPP #1

ISOLATION Check List

BSMT

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

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

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

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

SUMPS

IP14_005416

IPP #1

ISOLATION - Check List

Bsmt - Cont.

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

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

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

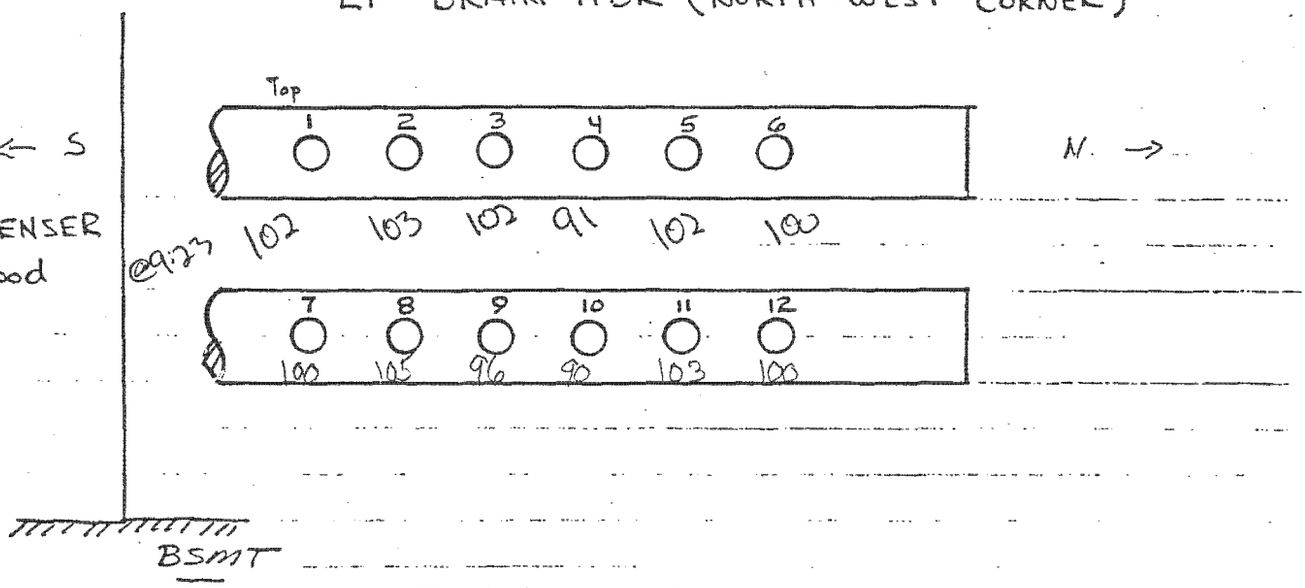
* HP Drain Header
  SPE DRAIN FLOW
* Condenser DWG - North side
* { LP drain Header to A hood
  { 2 LP drain Headers to Condenser under C hood

Samples

Chem. Feed

SUMPS

LP DRAIN HDR (NORTH-WEST CORNER)



ELEVATION VIEW
(LOOKING WEST)

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

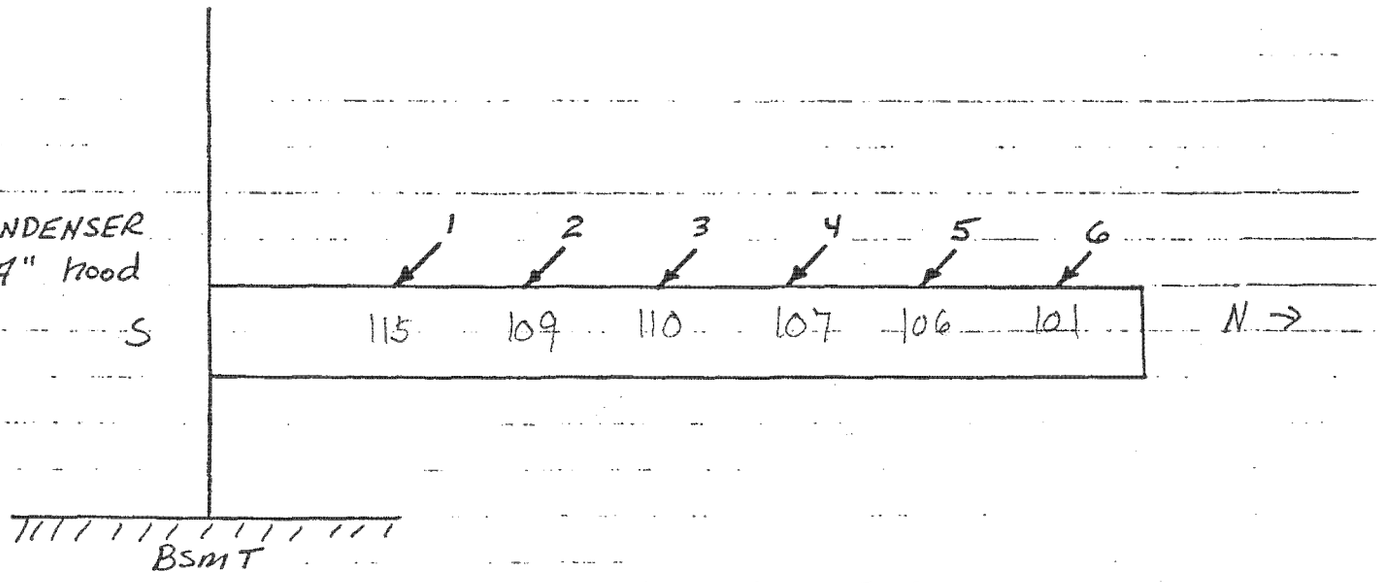
* ALSO CHECK TRAPS AND DRAIN TO SUMP

LP HTR 2 Hi Level Dr To CND 1C 112

IP14_005418

started getting temps. @ 8:26

LP DRAIN HDR (NORTH-EAST CORNER)



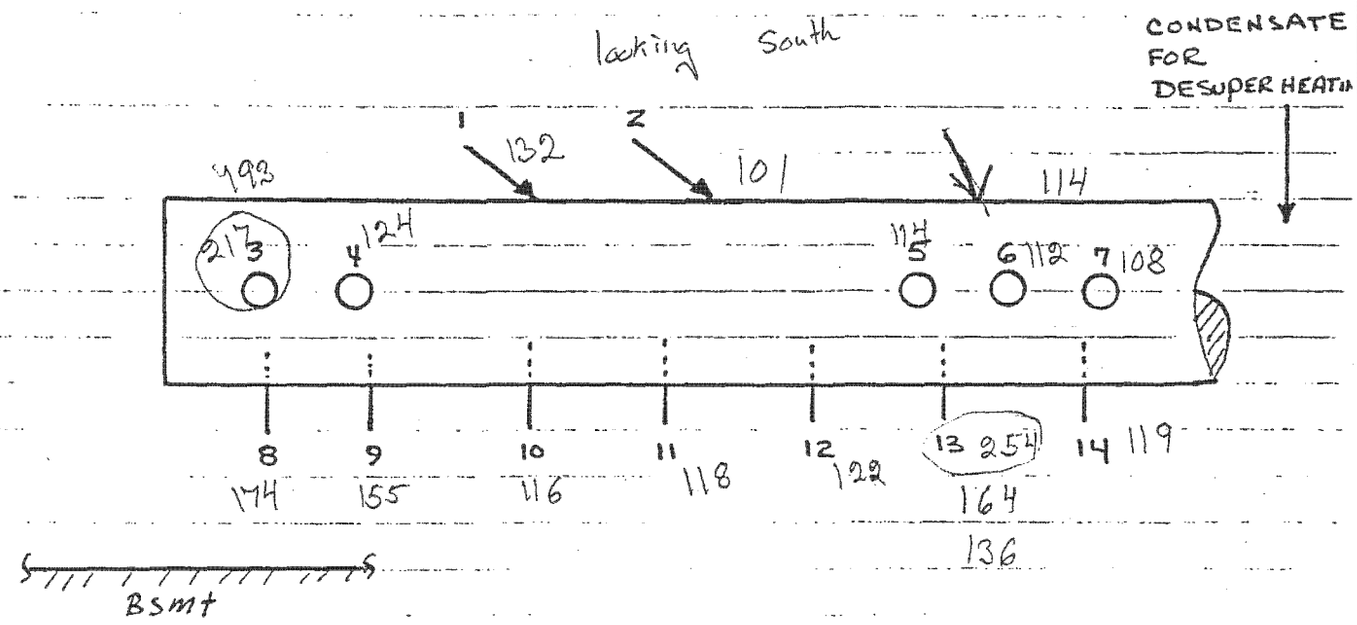
ELEVATION VIEW
(LOOKING WEST)

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

* ALSO CHECK TRAPS AND DRAINS TO SUMP

IP14_005419

HP DRAIN HDR
(EAST SIDE - BSMT LEVEL)



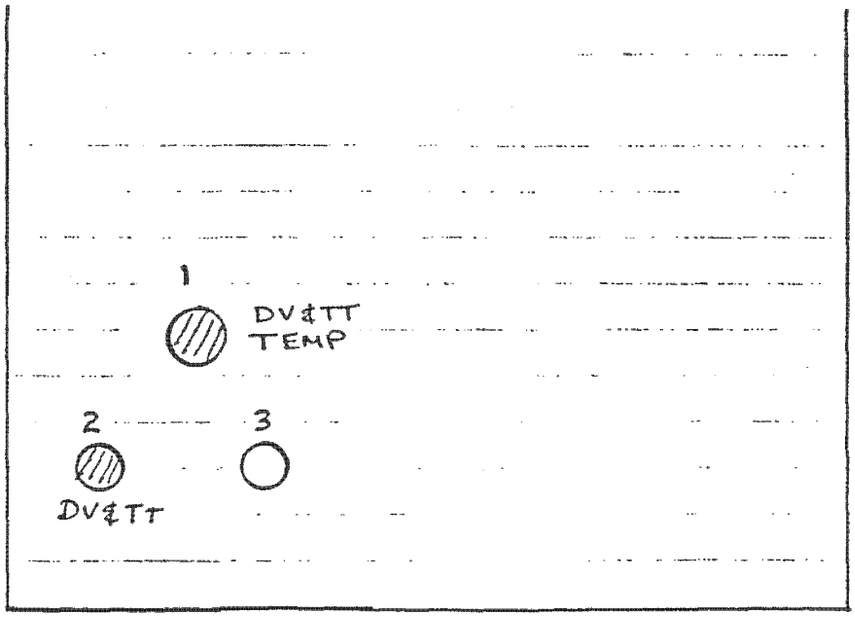
ELEVATION VIEW
(LOOKING SOUTH)

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

* ALSO CHECK TRAPS AND DRAINS TO SUMP

IP14_005420

CONDENSER CONNECTIONS MEZZ - TB END



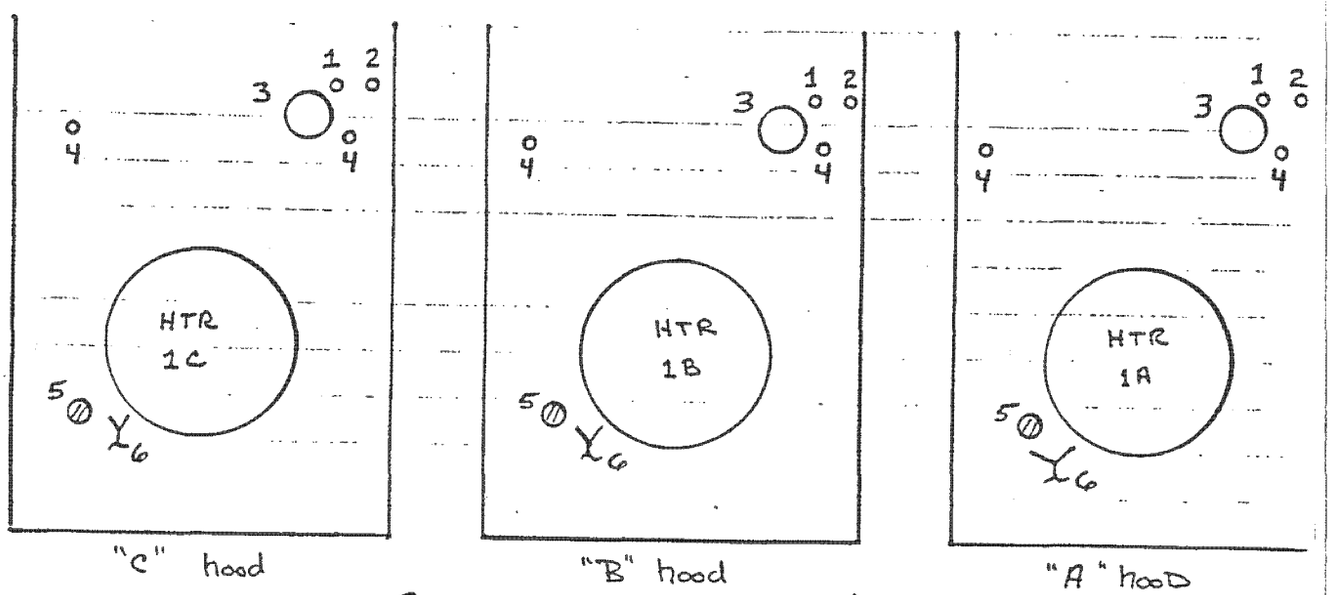
CONDENSER (MEZZ LEVEL)
(TB-END)

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

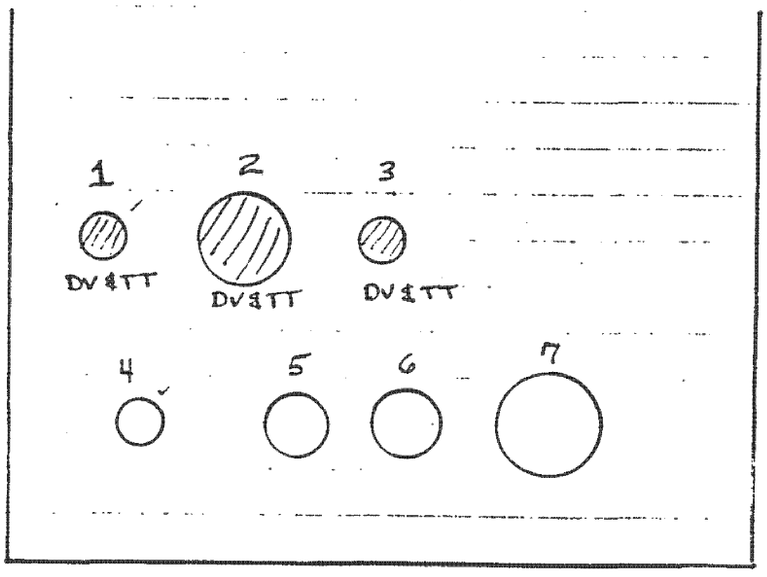
CONDENSER CONNECTIONS MEZZ - SOUTH



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.

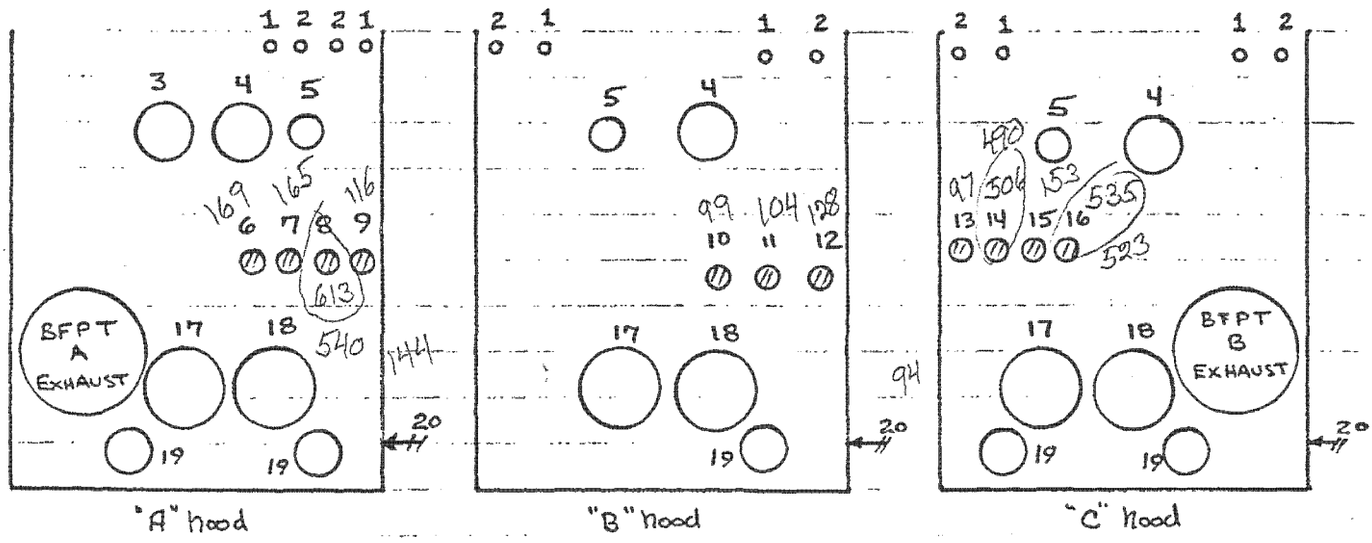
CONDENSER CONNECTIONS MEZZ – GEN. END



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



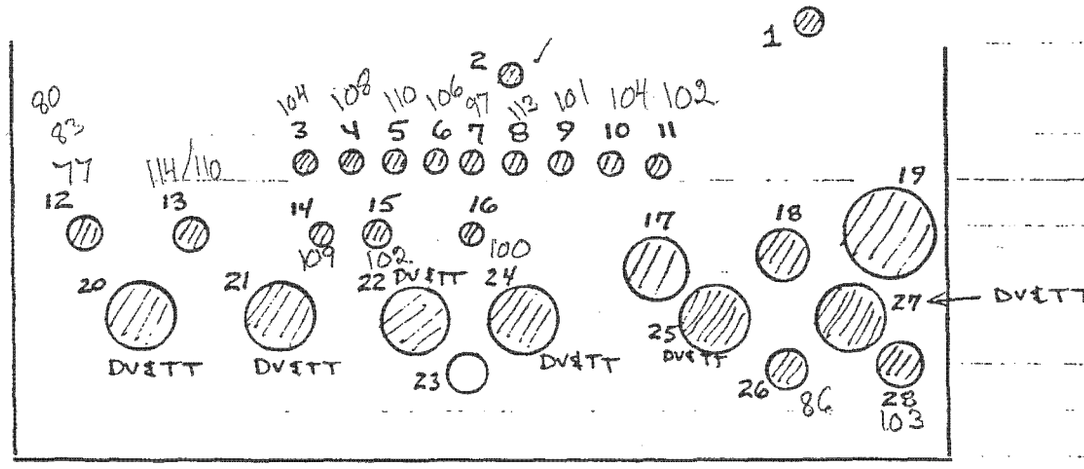
CONDENSER (MEZZ LEVEL)
(NORTH SIDE)

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

IP14_005424

CONDENSER CONNECTIONS Bsmt - TB END



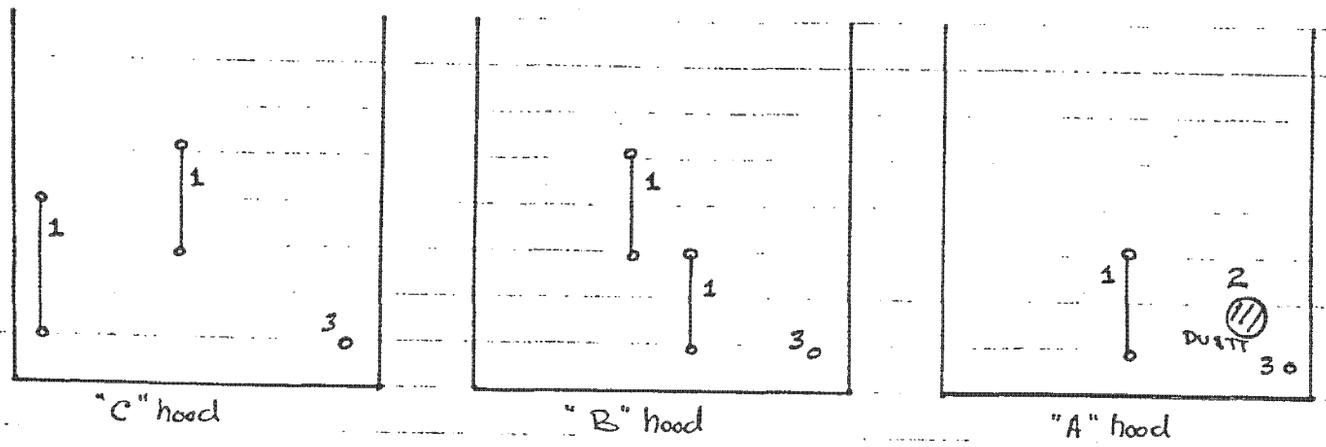
CONDENSER - Bsmt
(TB END)

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_005425

CONDENSER CONNECTIONS

BSMT - SOUTH SIDE

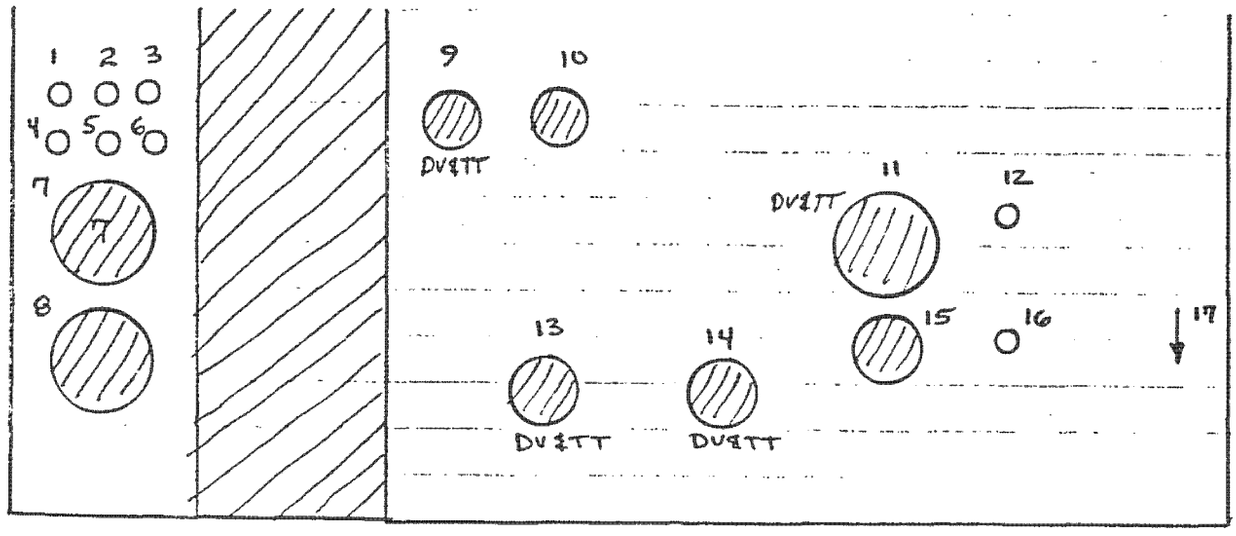


CONDENSER - BSMT
SOUTH SIDE

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

CONDENSER CONNECTIONS

BSMT - GEN END

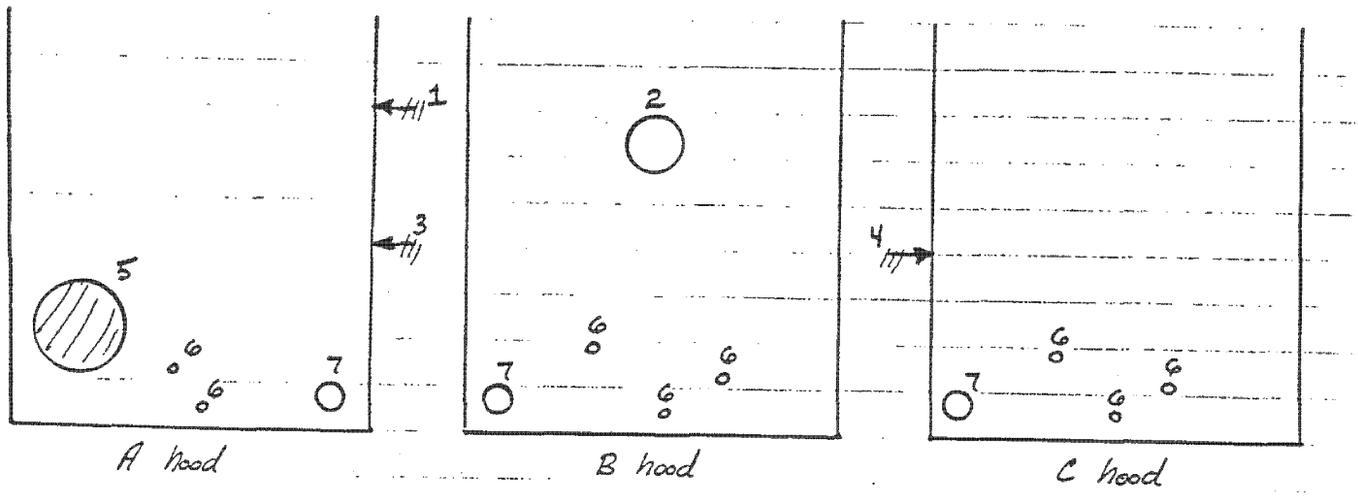


CONDENSER BSMT
GEN END

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.

MEZZANINE TC'S

LP HTR 2 DR
To Flash TK 1
159

MS WARM LINE
89

MS DRAIN WARM LINE - 1MSDSH
93

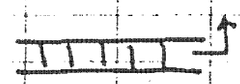
MS DRAIN WARM LINE - 1MSDSH
93

BOOSTER BFP DISC:
TO MAIN + STBY BF
124

MS DRAINS TO
BLOWDOWN TANK
184
186
95

ST. SEAL
EXTRACTIONS
UP 1/2 LEVEL
205
202
435
443
328
327
199

DOWN ON MEZZANINE
TDV TO CONDENSER



UNDER SOFTWARE LOCK 05/15/87 08:33:56 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	568.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	132.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	316.	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		
SGGTE0088	115.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	435.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	74.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	416.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	482.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005430

UNDER SOFTWARE LOCK 05/15/87 08:34:27 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	302.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	120.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	147.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	117.	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	250.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	120.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	144.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	160.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	190.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005431

UNDER SOFTWARE LOCK 05/15/87 08:35:03 P1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	99. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	102. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	122. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	101. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	103. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	115. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	120. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	137. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	110. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	130. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	105. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	107. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	96. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	115. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	92. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	101. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	95. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005432

UNDER SOFTWARE LOCK 05/15/87 08:51:38 T1-28

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
SGGTE1154	568. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	132. DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	311. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89. DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	77. DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8008	114. DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	435. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	74. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	416. DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	482. DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	117. DEGF	HOT RH DR DSUPHTR 3-T		

W: FORWARD PAGING DRN1

IP14_005433

UNDER SOFTWARE LOCK 05/15/87 08:52:02 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	284.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	121.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	147.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	118.	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	227.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	139.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	160.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	198.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRNC

IP14_005434

UNDER SOFTWARE LOCK 05/15/07 00:52:23 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	108. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	103. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	116. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	99. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	102. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	120. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	134. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	108. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	125. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	103. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	95. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	113. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	82. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	101. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	95. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005435

UNDER SOFTWARE LOCK 05/15/87 09:03:29 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	570.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGETE8418	122.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	308.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	77.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8888	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	435.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	74.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	415.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	482.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005436

UNDER SOFTWARE LOCK 05/15/87 09:03:53 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	274.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	121.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	147.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	119.	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	215.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	137.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	168.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	191.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005437

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	99. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	103. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	114. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	98. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	102. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	113. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	128. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	133. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	107. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	121. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	102. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	106. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	95. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	112. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	82. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	101. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	95. DEGF	LP HTR 4 EXTR DRAIN T		

IP14_005438

UNDER SOFTWARE LOCK 05/15/87 09:17:33 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	566.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	132.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	384.	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		
SGGTE0668	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	434.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	71.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	415.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	482.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005439

UNDER SOFTWARE LOCK 05/15/87 09:17:55 P1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	261. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	122. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	147. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	122. 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	282. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE8959	134. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	168. DEGF	BFPT 1A EXTR DR T		
TECTE1046	192. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005440

UNDER SOFTWARE LOCK 05/15/87 09:18:18 F1-28

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	99. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	103. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	113. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	97. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	101. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	113. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	125. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	131. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	106. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	118. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	102. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	105. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	109. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	107. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	83. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	101. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	95. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005441

UNDER SOFTWARE LOCK 05/15/87 03:37:12 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	566.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	132.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	299.	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		
SGGTE0888	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	434.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	78.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	415.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	482.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005442

UNDER SOFTWARE LOCK 05/15/87 09:32:27 P1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	249.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	124.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	146.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	125.	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	191.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	118.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE6959	132.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	168.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	192.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005443

UNDER SOFTWARE LOCK 05/15/87 09:32:41 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	99. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	105. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	112. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	95. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	100. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	115. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	129. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	120. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	104. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	112. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	100. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	103. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	105. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	105. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	83. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	100. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	95. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005444

UNDER SOFTWARE LOCK 05/15/87 09:48:09 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	586.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	133.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	295.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	78.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8008	114.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	434.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	76.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	415.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	402.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005445

UNDER SOFTWARE LOCK 05/15/87 09:48:28 F1-28

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	241. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	125. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	146. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	126. 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	185. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	118. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	130. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	160. DEGF	BFPT 1A EXTR DR T		
TECTE1046	193. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005446

UNDER SOFTWARE LOCK 05/15/87 09:46:46

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	99. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	107. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	112. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	95. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	100. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	115. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	125. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	119. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	104. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	111. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	100. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	102. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	107. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	105. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	83. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	101. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	94. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005447

UNDER SOFTWARE LOCK 05/15/87 10:05:44 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	573.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	133.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	291.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	78.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0000	116.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	434.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	82.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	414.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	402.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005448

UNDER SOFTWARE LOCK 05/15/87 10:06:04 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1015	230.	DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	126.	DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192.	DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	146.	DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	114.	DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	126.	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	178.	DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	118.	DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	130.	DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	161.	DEGF	BFPT 1A EXTR DR T		
TECTE1046	194.	DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005449

UNDER SOFTWARE LOCK 05/15/87 10:06:29 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
TECTE1027	99.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	109.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	111.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	94.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	99.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	124.	DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	119.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	103.	DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	111.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	99.	DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	102.	DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	110.	DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	105.	DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	84.	DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	100.	DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	94.	DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005450

UNDER SOFTWARE LOCK 05/15/87 18:19:05 P1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE		DESCRIPTION	STATUS	ALARM
SGGTE1154	626.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8418	133.	DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	288.	DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE8417	89.	DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE8419	78.	DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE8008	117.	DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1285	434.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1286	85.	DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	414.	DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	482.	DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE8997	117.	DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005451

UNDER SOFTWARE LOCK 05/15/87 18:19:25 F1-28

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	222. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	126. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	191. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	146. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	115. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	124. 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	173. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	127. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	161. DEGF	BFPT 1A EXTR DR T		
TECTE1046	194. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005452

UNDER SOFTWARE LOCK 05/15/87 10:19:48 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	99. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	111. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	111. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	94. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	99. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	113. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	124. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	118. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	102. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	111. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	98. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	102. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	110. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	104. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	84. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	99. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	94. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005453

UNDER SOFTWARE LOCK 05/15/87 10:37:00 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
SGGTE1154	588. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0418	132. DEGF	MN ST LINE DRN TO BLWDN TANK T		
SGGTE1153	282. DEGF	MAIN STEAM DR TO BLOWDOWN TK T		
SGFTE0417	89. DEGF	BFPT DRAIN TO BLOWDOWN TANK T		
SGGTE0419	78. DEGF	MN ST LINE WRMG DSUPHTR 1 IN T		
SGGTE0808	119. DEGF	MN ST LINE WRMG DSUPHTR 1 OUT T		
SGJTE1205	434. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1206	87. DEGF	COLD RH DR DSUPHTR INLET TEMP		
SGJTE1157	414. DEGF	SG S HOT RH OUT TO DR DSUPHTR		
SGJTE1158	402. DEGF	SG N HOT RH OUT TO DR DSUPHTR		
SGJTE0997	119. DEGF	HOT RH DR DSUPHTR 3 T		

FORWARD PAGING DRN1

IP14_005454

UNDER SOFTWARE LOCK 05/15/87 10:58:23 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1015	213. DEGF	HP HTRS 8A & 8B TURB DRAIN T		
TECTE1016	126. DEGF	HP HTR 8A EXTRACTION DRAIN T		
TECTE1017	192. DEGF	HP HTR 8B EXTRACTION DRAIN T		
TECTE1018	147. DEGF	HP HTRS 6A & 6B TURB DRAIN T		
TECTE1019	116. DEGF	HP HTR 6A EXTRACTION DRAIN T		
TECTE1020	119. DEGF	HP HTR 6B EXTRACTION DRAIN T		
TECTE1021	117. DEGF	BFPT 1B EXTRACTION DRAIN T		
TECTE1022	119. DEGF	BFPT 1A EXTRACTION DRAIN T		
TECTE1023	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1024	169. DEGF	BFPT 1A & 1B TURB EXTR DRAIN T		
TECTE1025	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE1026	119. DEGF	DEA HTR 5 TURB EXTR DRAIN T		
TECTE0959	127. DEGF	HP COND TO DSUPHTR LINE T		
TECTE1045	161. DEGF	BFPT 1A EXTR DR T		
TECTE1046	195. DEGF	BFPT 1B EXTR DR T		

FORWARD PAGING DRN2

IP14_005455

UNDER SOFTWARE LOCK 05/15/87 10:37:45 F1-20

MEASUREMENT DISPLAY

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

BLOCK	VALUE	DESCRIPTION	STATUS	ALARM
TECTE1027	100. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1028	112. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1029	110. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1030	93. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1031	99. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1032	95. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1033	114. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1034	123. DEGF	LP HTR 2 EXTRACTION DRAIN T		
TECTE1035	118. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1036	102. DEGF	LP HTR 3 EXTRACTION DRAIN T		
TECTE1037	111. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1038	98. DEGF	LP HTR 4 EXTRACTION DRAIN T		
TECTE1039	101. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1040	110. DEGF	LP HTR 2 EXTR DRAIN T		
TECTE1041	104. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1042	84. DEGF	LP HTR 3 EXTR DRAIN T		
TECTE1043	99. DEGF	LP HTR 4 EXTR DRAIN T		
TECTE1044	94. DEGF	LP HTR 4 EXTR DRAIN T		

FORWARD PAGING DRN3

IP14_005456

6193

TEST #7,8 DATE 5/15/87

MASTER

TURBINE PERFORMANCE TESTING - CRITICAL VALVES

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

PRIORITY I VALVES (PAGE 1 OF 2)

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

GF EAST

IP14_005457

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	O / DR	DR	DR	DR
"	" 0017	"	"	O / DR	DR	DR	DR
M2037	2FWC-BV-0026	DA RECIRC. to COND.	"	O / DR	DR	DR	DR
"	" 0027	" TURB.	"	O / DR	DR	DR	DR
"	2FWC-MBV-90	"	"	O / DR	DR	DR	DR
M2020	2HRA-BV-0030 ACV-32	COND. NORMAL MU	MEZZ SW CORNER OF COND.	O / JO	MC	CN	DS
"	" 0031	"	"	O / JO	MC	CN	DS
				/ JO	MC	CN	DS
M2080A	2TEC-BV-0010	MN. STM. to turbine seals	MEZZ W. OF MN. STM HDR	O / DR	DR	DR	DR
M2069	2SGG-MBV-9	HP STM. to BFPT 1A	3rd BFPT 1A NE OF	O / JW	DS	DS	DS
"	" -10	" 1B	3rd BFPT 1B SW OF	O / JW	DS	DS	DS
M2008	2PSA-BV-0021	DA PEGGING STEAM	15th ELEVATOR N of E	O / DS	Closed →		DS
"	" 0022	"	"	O / DS	Closed →		DS
~~M2035A~~	~~2FWA-BV-37~~	~~BFPT 1A RECIRC~~	~~15th ELEV~~				
M2075	2TEC-BV-0073	HP HTRS 8A & 8B EXTRACT.	GF E OF LUBE OIL CONT.	O / DA	DA	DA	DA
"	" 0079	HP HTR 8A "	"	O / DA	DA	DA	DA
M2035C	2FWA-BV-0388	HP STOP VLV 1B1 STEM LEAK-OFF	MEZZ NW OF COND	O / DR	DR	DR	DR
"	" 0390	TURB Seat DRAIN	"	O / DR	DR	DR	DR
"	" 0391	" 1A1 " "	MEZZ N OF COND	O / DR	DR	DR	DR
M2075	2TEC-BV-0075	HP HTRS 8A & 8B EXTRACT	GF E OF LUBE OIL CENTRIFUGE	O / DA	DA	DA	DA
"	" 0081	HP HTR 8A		O / DA	DA	DA	DA
"	" 0105	HP HTR 6B	"	O / DA	DA	DA	DA
"	2TEC-BV-0121	BFPT 1A & 1B	"			DA	DA

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	"	"	LAB.			
"	" 0023	SAMPLE 7 COND. POL. OUTLET	"		LAB		
"	" 0036	"	"				
"	" 0001	SAMPLE 8 COND. AFTER GLAND COND.	"			LAB	
"	" 0002	SAMPLE 9 DA INLET	"				LAB
"	" 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	O JW	JW	JW	JW
M2071	2SGJ-BV-0056	COLD RH STM TRP 1 INLET	GF 204-B	O JW	JW	JW	JW
"	" 0057	" OUTLET	"	O JW	JW	JW	JW
M2069	2SGG-BV-0015	MN. STM. SAMPLE 14	TOP OF MEZZ MN STM	O JW	JW	JW	JW
"	" 0016	"	"	O JW	JW	JW	JW

LAB

IP14_005459

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 2 OF 3)

P&ID	VALVE #	DESCRIPTION	LOCATION	NU POSITION / CLOSE INITIALS	OPEN O INITIALS	CLOSE C INITIALS	OPEN O INITIALS
M2021	2HRB-BV-0109	SEPARATOR 1D MU	MEZZ CONDENSER VAC. PMPS	O / DA	DA	DA	DA
"	" 0110	" 1C "	"	O / DA	DA	DA	DA
"	" 0111	" 1B "	"	O / DA	DA	DA	DA
"	" 0112	" 1A "	"	O / DA	DA	DA	DA
M2071	2SGJ-BV-0090	COND to CRH DSPR HTR 2	MEZZ 3rd by	O / DA	DA	DA	DA
M2079	2TGA-BV-0005	HOOD SPRAY SUPPLY	GE Trailer	O / DA	DA	DA	DA
M2078B	2TEF-BV-0163	LP HTR 3 CONTINUOUS vent to COND	3rd LP HTR 3	O / DA	DA	DA	DA
M2078A	2TEF-BV-0077	HP HTR 6A CONTINUOUS vent to DEA	3rd HP HTR 6A	O / DA	DA	DA	DA
"	" 0080	" 6B "	3rd HP HTR 6B	O / DA	DA	DA	DA
"	" 0076	" 7A "	5th HP HTR 7A	O / DR	DR	DR	DR
"	" 0079	" 7B "	5th HP HTR 7B	O / DR	DR	DR	DR
M2078B	" 0162	LP HTR 4 " to COND	5th LP HTR 4	O / DR	DR	DR	DR
M2078A	" 0075	HP HTR 8A " to DEA	6th HP HTR 8A	O / DR	DR	DR	DR
"	" 0078	" 8B "	6th HP HTR 8B	O / DR	DR	DR	DR
M2035B	2FWA-BV-0202	Boiler Feed Sample 11	10th S OF MCC 2B09	O / DR	DR	DR	DR
"	" 0203	"	"	O / DR	DR	DR	DR
M2078A	2TEF-BV-0003	DEA CONTINUOUS VNT TO ATMOS.	14th top OF DEA	O / DS	DS	DS	DS
"	" 0007	"	"	O / DS	DS	DS	DS
"	" 0011	"	"	O / DS	DS	DS	DS
M2063B	2SGA-BV-0199	STM. TRAP 3	18th	O / DS	DS	DS	DS
M2063B	2SGA-BV-0172	STM. GEN. SAMPLE 13	17th S	O / DS	DS	DS	DS
"	" 0003	CONTINUOUS BLOWDOWN	18th E END OF DRUM	O / DS	closed	—	DNO
"	" MBV-4	"	"	O / DS	closed	—	closed
"	" MBV-2	STM SUPPLY to AUX STM	18th S OF DRUM	O / DS	closed	—	closed
"	" BV-0001	"	"	O / DS	closed	—	DS
M2008	2PSA-MBV-17	CRH SUPPLY to AUX STM	9th Behind E ELEVATOR	C / DR	closed	—	DR
"	" BV-12	"	"	O / DR	closed	—	DR
"	" BV-14	"	"	O / DR	closed	—	DR
"	" BV-58	2ND SUPERHEAT to AUX STM	17th W. SIDE	O / DS	closed	—	DS
M2063A	2SGA-BV-0195	STEAM TRAP 2		O / DS	DS	DS	DS
M2063A	2SGA-BV-0010	MN STM to AUX STM	"	O / DS		—	DS

IP14_005460

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

P&ID	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	~~CLOSED~~ ~~CLOSED~~ ~~OPEN~~ ~~OPEN~~		JW JW	JW JW
"	B-5 B-6 B-7 B-8	FLOW METER 2 BFP → open first	GF ABOVE BFPT LUBE OIL CENT.	~~CLOSED~~ ~~CLOSED~~ ~~OPEN~~ ~~OPEN~~		JW JW	JW JW

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	JW	JW
"	" 0031	"		CORNER	III	JW	JW
"	" 0035	LP HTR 3		OF	III	JW	JW
"	" 0039	"		COND. -	III	JW	JW
"	" 0043	LP HTR 4		Bottom	III	JW	JW
"	" 0047	"		Row	III	JW	JW
"	" 0003	LP HTR 2	LP TURB. SECTION 1A	GF - NE	III	JW	JW
"	" 0007	"		CORNER	III	JW	JW
"	" 0011	LP HTR 3		OF	III	JW	JW
"	" 0015	"		COND.	III	JW	JW
"	" 0019	LP HTR 4			III	JW	JW
"	" 0023	"			III	JW	JW
"	" 0051	LP HTR 2	LP TURB. SECTION 1C	GF- NW	III	JW	JW
"	" 0055	"		CORNER	III	JW	JW
"	" 0059	LP HTR 3		OF	III	JW	JW
"	" 0063	"		COND.	III	JW	JW
"	" 0067	LP HTR 4		TOP	III	JW	JW
"	" 0071	"		Row	III	JW	JW
M2038 B	2FWD-BV-0121	COND. POLISH REGEN PMP		GF	III	DR	DR
"	" 0125	"		"	III	DR	DR
M2008	2PSA-BV-0082	AUX. STM. TRAP 5		"	III	DR	DR
M2080A	2TGC-BV-0058	AUX. STM. to COND. RH		MEZZ. TOP OF VLV DECK	III	DR	DR
M2069	2SGG-BV-0058	MN. STM. WARMING LINE		MEZZ. NE OF MCC 2A03	III	DR	DR
M2068	2SGF-BV-0065	DOWNCOMER DRN. BLOWDOWN		MEZZ. S. SIDE BOILER	III	DR	DR
"	" 0055	LWR. CONVECTION PASS HDR		10th east	III	DS	CLS
"	" 0057	"		"	III	DS	C
"	" 0035	"		10th west	III	DS	C
"	" 0028	"		"	III	DS	C

IP14_005462

TEST # _____ DATE _____

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

P&ID Checkoff List TEST 7:38 5-15-87

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

HOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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				
B 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_005465

HOME TURBINE PERFORMANCE TESTING — UNIT #2 — Test # 768

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	C	DS				
M -17	CRH Supply to Aux Stm	9th floor behind east elevator	CRII	O	C							
(BV-36/37)	tell tale valves	"	N	C	C	C	C	DS				
BV-12	CRH Supply to Aux Stm	"	CRIII	O	C							
BV-14	CRH Supply " "	"	CRIII	O	C							
BV-15	CRH Supply " "	"	N	C	C	C	C	DS				
BV-133	Aux Stm to DA Tank	13th floor behind West elev - on DA tank	N	O	C	C	C	DS				
BV-6	" " " "	"	N	O	C	C	C	DS				
(BV-134)	tell tale valve	"	N	C	C	C	C	DS				
BV-7	CNDS to Aux Stm DSH	5th floor by east elevator	N	O	C	O	C	DS	C	O	DS	
BV-8	" " " " "	"	N	O	C	O	C	DS	C	O	DS	
BV-9	" " " " "	"	N		C	C	C	DS				
BV 9	Aux Stm to BFPT	Mezz floor NE corner	N	O	C	C	C	DS				
BV-18	" " " "	" "	N	O	C	C	C	DS				
(N-39/40)	tell tale	" "	N	C	C	C	C	DS				
BV-11	CRH to aux Stm	9th behind East elevator	N	O	C	C	C	DS	C	O	DS	
EA(M2073) BV-118	Aux Stm to BFPT	Mezz floor NE corner	N	O	C	C	C	DS				
BV-13	CRH to aux Stm	9th behind East elevator	N	O	C	O	C	DS	C	O	DS	
BV-82	STEAM TRAP #5	BSMT. NE CORNER OF TURB PEDISTAL	CRIII	O	C							
BV-83	"	"	N	C	C	C	C	DS				
BV-58	Aux. Steam from 2nd superheater	17th West side of Boiler	CRII	O	C							
BV-26	Aux Steam supply to steam seals	MEZZ NE CORNER TURBINE	CRIII	O	C							

IP14_005466

NOMEC TURBINE PERFORMANCE TESTING UNIT #2 Test # 7.8

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

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	Soottblowing Supply to CGR	18th floor east side	N	O	C	C	C	OR				
BV-47	" " "	" " "	N	O	C	C	C	OR				
BV-137	Sprays from BFP	16th floor east side	N	O	C	C	C	OR				
BV-139	" " "		N	O	C	C	C	OR				
BV-142	" " "		N	O	C	C	C	OR				
BV-110	CGR pump Recirc	Basement by CGR pumps	N	O	C	C	C	OR				
BV-113	" " "	"	N	O	C	C	C	OR				
BV-114	" " "	"	N	O	C	C	C	OR				
BV-117	" " "	"	N	O	C	C	C	OR				
BV-150	Return to CNDS	2nd floor above pumps	N	O	C	C	C	OR				
BV-435	" " "	Basement @ pumps 13' up	N	O	C	C	C	OR				
BV-436	- telltale	"	N	O	C	C	C	OR				
BV-125	SBCND Return	North AQCS Control Room	N	O	C	C	C	OR				- SBCNDS Return Pump OFF
BV-127	" " "	"	N	O	C	C	C	OR				

IP14_005467

HOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Date: _____

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

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							
B 20	"	"	CRI	O	C							
BV-33	Condensate EMERG. MAKE-UP	BSMT. SE CORNER CONDENSER	N	O	C	O	C	DRO	O	O	JN	
BV-34	"	"	N	O	C	O	C	DRO	O	O	JN	
BV-23	COND. EMERG. DRAW-OFF	BSMT SW CORNER CONDENSER	N	O	C	O	C	DRO	C	O	JN	
BV-24	"	"	N	O	C	O	C	DRO	C	O	JN	
BV-148)	TELL TAIL	LOCAL	N	C	C	(20' OVERHEAD CAPPED) C	C	DRO				
(BV-175)	"	"	N	C	C	C	C	DRO				
BV-176)	"	"	N	C	C	C	C	DRO				
BV-177)	"	"	N	C	C	C	C	DRO				
ACV-25	COND. RECIRC.	BSMT. SW CORNER CONDENSER	N	C	C	C	C	DRO				MAY HAVE TO CLOSE BV-28
BV-29	" BYPASS	"	N	C	C	C	C	DRO				
BV 71	COND. MISC. SERVICE PUMP OUTLET	BSMT. "1C" COND PUMP ABOVE HEAD	N	O	C	C	C	DRO				
BV-179	"	"	N	O	C	C	C	DRO				
BV-178)	TELL TAIL	"	N	C	C	C	C	DRO				
BV-90	HOT WELL DRAINS	N. OF CONENSER BSMT.	N	C	C	C	C	DRO				
BV-91	"	"	N	C	C	C	C	DRO				
BV-89	"	"	N	C	C	C	C	DRO				
BV-92	HYDRAZINE FEED	"	N	C	C	C	C	DRO				
BV-112	COND. LEAK DETECTION 1C	Basement - N. End to 1C Cond	N	O	C	C	C	DRO				OPEN after TEST
BV-113	"		N	O	C	C	C	DRO				"
BV-114	"		N	O	C	C	C	DRO				"

IP14_005468

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	DRO				OPEN after tes
BV-116	"	"	N	O	C	C	C	DRO				"
BV-117	"	"	N	O	C	C	C	DRO				"
BV-118	COND. LEAK DETECTION 1A	N. SIDE COND. 1A COND.	N	O	C	HANDLE IS BROKEN C	C	DRO				"
[illegible]-119	"	"	N	O	C	C	C	DRO				"
ACV-32	COND. NORMAL M/U	MEZZ + SE CORNER OF COND	CRI	O	C							
	P&ID 2SAC-M2056A											
BV 529	GEN. BLDG. SP. COND DRAIN to UNIT 2	BASEMENT W. END TO 1C COND	N		C	C	C	DRO				

IP14_005469

MOMENTUM TURBINE PERFORMANCE TESTING UNIT #2 Test # _____

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

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	MEZZ. 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_005470

MOMENTUM TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

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

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	C	C	JW				
BV-299	"	"	N	C	C	C	C	JW				
BV-108)	TELL TAIL	"	N	C	C	C	C	JW				
BV-188	WARM-UP LINE	MEZZ UNDER IA BFPT (203E)	N	O	C	O	C	JW				
MBV-189	"	"	N	C	C	C	C	JW				
BV-385/107	TELL TAIL	"	N	C	C	C	C	JW				
ACV-14	BBFP RECIRC.	13th W. END D.A (202G)	N	C	C	C	C	MP				
ACV-15	"	"	N	C	C	C	C	MP				
ACV-16	"	"	N	C	C	C	C	MP				
ACV-17	BFP RECIRC	13th E. END DA. (202G)	N	C	C	C	C	MP				
ACV-18	"	"	N	C	C	C	C	MP				
ACV-19	"	"	N	C	C	C	C	MP				
BV-37	"	"	CRI	O	C							

IP14_005471

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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	Position - Before Test As left	Position - Before Test Initials	Position - After Test As Found	Position - After Test As Left	Position - After Test Initials	Comments
MBV-44	HP HEATERS BYPASS	TURBINE DECK E. OF HP HTR. 6/202H	N	C	C	C	C	MP				
SGA-131	ECONOMIZER INLET HDR. DRAIN	11th FLOOR ECONOMIZER INLET	N	C	C	C	C	MP				
SGA-132	"	"	N	C	C	C	C	MP				
B 202	SAMPLE 11	10th S. of mec 2809	CRII	O	C							
BV-203	"	"	CRII	O	C							

IP14_005472

HOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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	[illegible]				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	Steam						
1BV-306	BELOW SEAT DRAIN HP STOP VALVE	"	N	C	C							
1BV-308	ABOVE SEAT DRAIN LP STOP VALVE	" N.SIDE	N	C	C							
1BV-310	BELOW SEAT DRAIN LP STOP VALVE	"	N	C	C		Leak					
1BV-312	1ST STAGE DRAIN	MEZZ NW CORNER TURB PEDISTAL-UP	N	C	C	C	C	↓				
BV-0388	HP STOP VLV 1B1 STEM LEAK-OFF	MEZZ. NW OF COND	CRI	O	C			X				
BV-0390	" SEAT DRN	"	CRI	O	C							
BV-0389	" 1A1 "	MEZZ N OF COND	CRI	O	C							

IP14_005473

INITIAL TURBINE PERFORMANCE TESTING UNIT #2 Test # 1-8

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

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

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

alve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
B-1	FM-1 BYPASS	BSMT. E.of 2A BFP	CR II	O	C							Valve-in
B-2	"	"	CR II	O	C							Flow Meter
												Carefully
B-3	Flow METER 1	"	CR II	C	O							
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_005474

MOMENTUM TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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							
B 85	" " " "	"	N	O	C			JW				
BV-86	" " " "	"	N	O	C	C	C	JW				
BV-105)	-telltale	"	N	C	C	C	C	JW				
BV-110	-telltale	"	N	C	C	C	C	JW				
BV-24	APH CNDS Supply	Mezz above CGR pumps	N	O	C	C	C	JW				
BV-23	DA tank Belly Drn	11th floor	N	C	C	C	C	JW				
1BV-9	CNDS Bypass Htr 1	Mezz 2 floor SW turb-next to stairs	N	C	C	C	C	JW				
1BV-16	CNDS Bypass Htr 2	Mezz floor SW of mainelev	N	C	C	C	C	JW				
1BV-17	CNDS Bypass Htr 3	5th floor SW Boiler	N	C	C	C	C	JW				
1BV-18	CNDS Bypass Htr 4	" "	N	C	C	C	C	JW				

IP14_005475

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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-123	" " " "	"	CR III	O	C							make sure pump
MBV-76 (38A)	CNDS DEMIN 2A DAN	1st floor East of Demin	N	C	C	C	C					don't start
MBV-77	" " 2B "	"	N	C	C	C	C					
MBV-78	" " 2C "	"	N	C	C	C	C					
MBV-79	" " 2D "	"	N	C	C	C	C					
MBV-72	DM 2A Resin Xfer Valve	"	N	C	C	C	C					
MBV-73	" 2B " " "	"	N	C	C	C	C					
MBV-74	" 2C " " "	"	N	C	C	C	C					
MBV-75	" 2D " " "	"	N	C	C	C	C					

IP14_005476

ISME TURBINE PERFORMANCE TESTING UNIT "C" Test "7.8"

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Date: _____

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

6/93

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

IP14_005477

ASME Turbine Performance Testing Unit #2 Test # 7 & 8

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

IP14_005478

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 718

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

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							
4BV-4	"	18th E. END DRUM	CR II	O	C							
BV-1	AUX STEAM SUPPLY	18th S. Drum MIDDLE	CR II	O	C							
4E-2	"	"	CR II	C	C							
BV-18	DRAIN TO BLOWDOWN HEADER	18th W. END BOILER DRUM	N	C	C	C	C					
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 PS-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							
BV-199	STM TRP #3	"	CR II	O	C							

IP14_005479

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____ 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					
BV-114	" " "	"	N	O	C	C	C					
BV-119	" " "	"	N	O	C	C	C					
BV-122	APH Recirc to Pump	"	N	O	C	C	C					
BV-123	" " " "	"	N	O	C	C	C					
BV-130	APH EMGCY RTN COND	"	N	O	C	C	C					
BV-131	" " " "	"	N	O	C	C	C					
BV-140	APH RTN to DA	13½ floor-east	N	O	C	C	C					
BV-141	APH RTN to COND	Basement West-side	N	O	C	C	C					
BV-137	" " "	"	N	O	C	C	C					
BV-139	" " "	"	N	O	C	C	C					

IP14_005480

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

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

IP14_005481

HOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

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

IP14_005482

HSME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 8

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

IP14_005483

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 748

Cycle Isolation Check off Sheets

Before Test Isolation: Start _____ End _____ Name _____

After Test Isolation: Start _____ End _____ Date: _____

SYSTEM: SOOT BLOWING P&ID # 2SGI-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	[illegible]				DISABLE SOOT
ACV-25	"	18th EAST SIDE BOILER	N		C	C	C					BLOWING SYSTEM
ACV-3	SECONDARY SUPERHTR. OUTLET HDR.	18th WEST SIDE BOILER	N		C	C	C					AT CONTROL
AC[illegible]-4	"	"	N		C	C	C					PANEL
MBV-35	HP EXTRACTION DRAIN HDR.	4th S.E. Side BOILER	N		C	C	C					
MBV-178	"	1½ floor N.E SIDE OF BOILER (M201)	N		C	C	C					

IP14_005484

MOTOR TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-56	Steam trap 1 INLET ISOL. VLV.	GF 204-B	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	Dma				
M -14	"	"	N	C	C	C	C	Dma				
MBV-18	COLD REHEAT DRN TO DESPRHTR 2	GF - 204-B	N	C	C	C	C	Dma				
ACV-58	ATTEMPERATOR SPRAY WATER From BFPT's	7th FLOOR EAST ELEV.	N	C	C	C	C	Dma				
ABV-66	"	"	N	C	C	C	C	Dma				
ACV-59	"	"	N	C	C	C	C	Dma				
A BV-67	"	"	N	C	C	C	C	Dma				
BV-90	COND to CRH DSPRHTR 2	MEZZ	CRII	O	C							

IP14_005485

MOME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

CRITICAL VALVES (1/4)

Valve #	Description		Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-27	LP HTR 2	LP TURB SECTION 1B	BSMT. N.W. CORNER OF CONDENSER ON BOTTOM ROW	CRIII	O	C							
BV-31	LP HTR 2			CRIII	O	C							
BV-35	LP HTR 3			CRIII	O	C							
[illegible]-39	LP HTR 3			CRIII	O	C							
BV-43	LP HTR 4			CRIII	O	C							
BV-47	LP HTR 4			CRIII	O	C							
BV-3	LP HTR 2	LP TURB SECTION 1A	BSMT N.E CORNER OF CONDENSER	CRIII	O	C							
BV-7	LP HTR 2			CRIII	O	C							
BV-11	LP HTR 3			CRIII	O	C							
BV-15	LP HTR 3			CRIII	O	C							
BV-19	LP HTR 4			CRIII	O	C							
BV-23	LP HTR 4			CRIII	O	C							
BV-51	LP HTR 2	LP TURB. SECTION 1C	BSMT. N.W. CORNER OF CONDENSER TOP ROW	CRIII	O	C							
BV-55	LP HTR 2			CRIII	O	C							
B. 59	LP HTR 3			CRIII	O	C							
BV-63	LP HTR 3			CRIII	O	C							
BV-67	LP HTR 4			CRIII	O	C							
BV-71	LP HTR 4			CRIII	O	C							
BV-65	LT. HTR 4		BSMT. N.W CORNER CONDENSER CEILING	CRIII	O	C							
BV-73	HP HTR's 8A & 8B		GF - LUBE OIL CENT EAST OF	CRI	O	C							
BV-79	HP HTR 8A		"	CRI	O	C							
BV-75	HP HTR's 8A & 8B		"	CRI	O	C							
BV-81	HP HTR 8A		"	CRI	O	C							
BV-105	HP HTR 6B		"	CRI	O	C							
BV-121	RCFT 10		"	CRI	O	C							

IP14_005486

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7~~1~~8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

CRITICAL VALVES (1/4)

Valve #	Description		Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-27	LP HTR 2	LP TURB SECTION 1B	BSMT. N.W. CORNER OF CONDENSER ON BOTTOM. ROW	CRIII	O	C							
BV-31	LP HTR 2			CRIII	O	C							
BV-35	LP HTR 3			CRIII	O	C							
E 39	LP HTR 3			CRIII	O	C							
BV-43	LP HTR 4			CRIII	O	C							
BV-47	LP HTR 4			CRIII	O	C							
BV-3	LP HTR 2	LP TURB SECTION 1A	BSMT N.E CORNER OF CONDENSER	CRIII	O	C							
BV-7	LP HTR 2			CRIII	O	C							
BV-11	LP HTR 3			CRIII	O	C							
BV-15	LP HTR 3			CRIII	O	C							
BV-19	LP HTR 4			CRIII	O	C							
BV-23	LP HTR 4			CRIII	O	C							
BV-51	LP HTR 2	LP TURB. SECTION 1C	BSMT. N.W. CORNER OF CONDENSER TOP ROW	CRIII	O	C							
BV-55	LP HTR 2			CRIII	O	C							
B. 59	LP HTR 3			CRIII	O	C							
BV-63	LP HTR 3			CRIII	O	C							
BV-67	LP HTR 4			CRIII	O	C							
BV-71	LP HTR 4			CRIII	O	C							
BV-65	LT. HTR 4		BSMT. N.W CORNER CONDENSER CEILING	CRII	O	C							
BV-73	HP HTR's 8A & 8B		GF - East of LUBE OIL CENT	CRI	O	C							
BV-79	HP HTR 8A		"	CRI	O	C							
BV-75	HP HTR's 8A & 8B		"	CRI	O	C							
BV-81	HP HTR 8A		"	CRI	O	C							
BV-105	HP HTR 6B		"	CRI	O	C							
BV-121	REPT 10		"	CRI	O	C							

IP14_005487

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7~~8~~

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 (1/4)

Valve #	Description		Location	Class	Position Normal	Position Test	Position - Before Test As Found	As left	Initials	Position - After Test As Found	As Left	Initials	Comments
BV-27	LP HTR 2	LP TURB SECTION 1B	BSMT. N.W. CORNER OF CONDENSER ON BOTTOM ROW	CR III	O	C							
BV-31	LP HTR 2			CR III	O	C							
BV-35	LP HTR 3			CR III	O	C							
B. 39	LP HTR 3			CR III	O	C							
BV-43	LP HTR 4			CR III	O	C							
BV-47	LP HTR 4			CR III	O	C							
BV-3	LP HTR 2	LP TURB SECTION 1A	BSMT N.E CORNER OF CONDENSER	CR III	O	C							
BV-7	LP HTR 2			CR III	O	C							
BV-11	LP HTR 3			CR III	O	C							
BV-15	LP HTR 3			CR III	O	C							
BV-19	LP HTR 4			CR III	O	C							
BV-23	LP HTR 4			CR III	O	C							
BV-51	LP HTR 2	LP TURB. SECTION 1C	BSMT. N.W. CORNER OF CONDENSER TOP ROW	CR III	O	C							
BV-55	LP HTR 2			CR III	O	C							
BV-59	LP HTR 3			CR III	O	C							
BV-63	LP HTR 3			CR III	O	C							
BV-67	LP HTR 4			CR III	O	C							
BV-71	LP HTR 4			CR III	O	C							
BV-65	LT. HTR 4		BSMT. N.W CORNER CONDENSER CEILING	CR III	O	C							
BV-73	HP HTR's 8A & 8B		GF - EAST OF LUBE OIL CENT	CR I	O	C							
BV-79	HP HTR 8A		"	CR I	O	C							
BV-75	HP HTR's 8A & 8B		"	CR I	O	C							
BV-81	HP HTR 8A		"	CR I	O	C							
BV-105	HP HTR 6B		"	CR I	O	C							
BV-121	REPT 1A		"	CR I	O	C							

IP14_005488

TURBINE PERFORMANCE TESTING UNIT 2 Test #

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 (Cont.) 2/4

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

IP14_005489

UNIT 2 TEST

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

NON-CRITICAL VALVES

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

IP14_005490

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	Position - Before Test As left	Position - Before Test Initials	Position - After Test As Found	Position - After Test As Left	Position - After Test Initials	Comments
ACV-2	LP HTR 2 EXTRACTION DRN	WEST OF GF 40 CENT.	N	C	C	C	C	DMA				
ACV-6	"	"	N	C	C	C	C	DMA				
ACV-10	LP HTR 3 EXTRACTION DRN	"	N	C	C	C	C	DMA				
ACV-14	"	"	N	C	C	C	C	DMA				
AC -18	LP HTR 4 EXTRACTION DRN	"	N	C	C	C	C	DMA				
ACV-22	"	"	N	C	C	C	C	DMA				
ACV-146	BFPT 1C to LP COND	2ND	N	C	C	C	C	DMA				
ACV-152	BFPT 1A to HP COND	"	N	C	C	C	C	DMA				
BV-163	MISC. DRAINS RECV. TANK DRN	GF MISC. DRAINS RECVR.	N	C	C	C	C	DMA				

IP14_005491

MOVIE TURBINE PERFORMANCE TESTING UNIT #2 Test # 7-8

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							
NCV-13	HP Htr Drains Pump 1A Recirc	3rd Floor Near HP Htr 6A	N	C	C	C	C	mp				
NCV-14	" 1B	" 6B	N	C	C	C	C	mp				

IP14_005492

HDME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7&8

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 Cond IC	CRI	O	C							
BV-9	"	"	CRI	O	C							
BV-19	Htr 3 ALTN (HI LEVEL) DUMP	Ground floor West side Cond IC	CRI	O	C							
BV-11	"	"	CRI	O	C							
BV-21	Htr 2 ALTN (HI LEVEL) DUMP	"	CRI	O	C							AT LOW LOAD MAY LEAVE ALT DRN VLV to LP HTR 2 OPEN & CLOSE NORMAL DRAIN BV-12, 20
BV-13	"	"	CRI	O	C							
BV-22	FLASH TANK ALTN (HI LEVEL) DUMP	Ground floor SW Corner Cond IC	CRI	O	C							
BV-15	"	"	CRI	O	C							
BV-129	Cycle MU to LP DRNS	Ground floor @ DRN COOLER	N	C	C	C	C	Dma				
2WF (M2040)												
BV-66	Cycle MU to LP DRNS	Ground floor Overhead SO. of DRN CLR	N	O	C	C	C	Dma				

IP14_005493

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 788

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

IP14_005494

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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	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-8	DEA HTR 5 Bypass CONTINUOUS VNT TO ATMS	14th	N	C	C	C	C	[illegible]				
BV-10	"	"	N	C	C	C	C	[illegible]				
BV-12	"	"	N	C	C	C	C	[illegible]				
[illegible]-14	"	"	N	C	C	C	C	[illegible]				

IP14_005495

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

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

IP14_005496

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 7 & 8

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	CRII	O	C							

[illegible] TESTING UNIT 2 TEST ~~#28~~

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

Valve #	Description	Location	Class	Position Normal	Position Test	Position - Before Test As Found	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-58	aux. steam to cold reheat	Mezz. top of valve deck	CRIII	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	[illegible]				
MBV-6	"	"	N	C	C	C	C	[illegible]				
ACV-17	HP turbine leakoff to steam seal HDR	"	N	O	C	C	C	[illegible]				
ACV-1	Main steam to steam seal HDR	"	N	O	C	C	C	[illegible]				
MBV-2	"	"	N	O	C	C	C	[illegible]				
MBV-3	"	"	N	O	C	C	C	[illegible]				
BV-25	Cond. to steam seal DSPRHTR 1	Mezz - steam packing exhauster	N	C	C	C	C	[illegible]				

IP14_005498

MOMEO TURBINE PERFORMANCE TESTING UNIT #2 Test # 7&8

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

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

IP14_005499