TEST #7

Unit 2 Turbine Perf. Tests

5/15/87 Fri. 315-515

775 MWg/3rd VP

IP14_005195

EST EXH PRESS 3.51 EXH CORR
2.4

TEST POINT 7 5-17-87 11:00AM

TEST LOAD 774305. TEST HR 7872.8

GROUP 1 CORRECTIONS

| | DESIGN | TEST | HR | LOAD |
|---|---|---|---|---|
| TD(F) | -2.00 | -2.28 | 1.0000 | 0.9997 |
| EXTR DP(%) | 3.00 | 0.91 | 0.9997 | 0.9974 |
| AUX EXT(%) | 4.20 | 3.76 | 0.9964 | 1.0036 |
| MSD(#/HR) | 0.0 | 0. | 1.0000 | 1.0000 |
| APH(%) | 2.33 | 1.66 | 0.9963 | 1.0037 |
| RHD(#/HR) | 0.0 | 0. | 1.0000 | 1.0000 |
| COND SC(F) | 0.0 | 0.40 | 1.0000 | 1.0000 |
| COMBINED FACTOR | | | 0.9924 | 1.0044 |

GROUP 2 CORRECTIONS

| | DESIGN | TEST | HR | LOAD |
|---|---|---|---|---|
| PT(PSIA) | 2412.20 | 2388.90 | 1.0008 | 0.9903 |
| TT(F) | 1000.00 | 1006.60 | 0.9990 | 0.9994 |
| THR(F) | 1000.00 | 1004.30 | 0.9994 | 1.0020 |
| DP RH(%) | 10.00 | 7.77 | 0.9978 | 1.0057 |
| P EXH(HG) | 2.30 | 3.51 | 1.0243 | 0.9763 |
| COMBINED FACTOR | | | 1.0212 | 0.9737 |

CORR LOAD 791664. CORR HR 7768.9

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IP14_005196

# ELECTRICAL LOAD

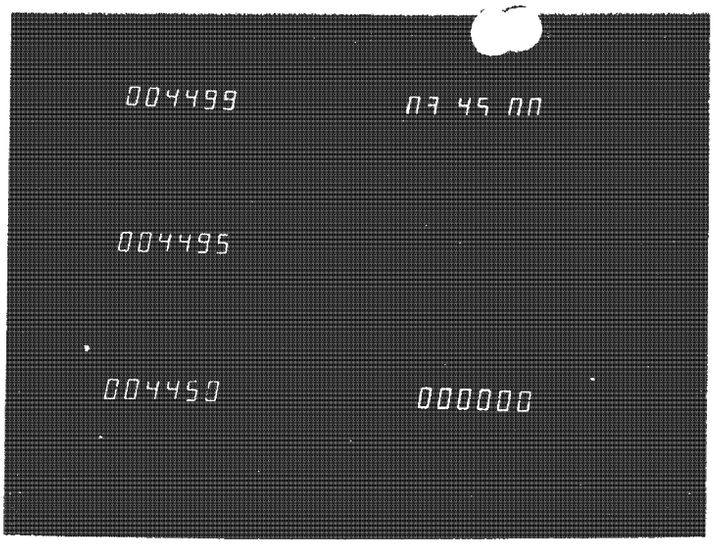
INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

MEASUREMENT (CONTROL ROOM)

TEST POINT # 7 ~~2nd~~ 3rd VP
LOAD MWg 770
DATE 5/14/87
NAME CS Reece, IV

| | TIME HR/MIN/SEC | COUNTS A PHASE | COUNTS B PHASE | COUNTS C PHASE |
|---|---|---|---|---|
| | 2:45:00 | 0 | 0 | 0 |
| | 3:00:00 | 2248 | 2247 | 2226 |
| | | | | |
| RESTART | 3:15:00 | 0 | 0 | 0 |
| | 3:30: | 00 2251 | 15 2287 | 30 2301 |
| | 3:45:00 | 4499 | 4496 | 4450 |
| | 4:00: | 00 6750 | 15 6784 | 30 6753 |
| | 4:15:00 | 9011 | 9003 | 8910 |
| | 4:30 | 00 11282 | 15 11298 | 30 11218 |
| | 4:45:00 | 13535 | 13514 | 13373 |
| | 5:00 | 00 15846 | 15 15809 | 30 15680 |
| | 5:15:00 | 18137 | 18029 | 17837 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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


004499
07 45 00
004495
004490
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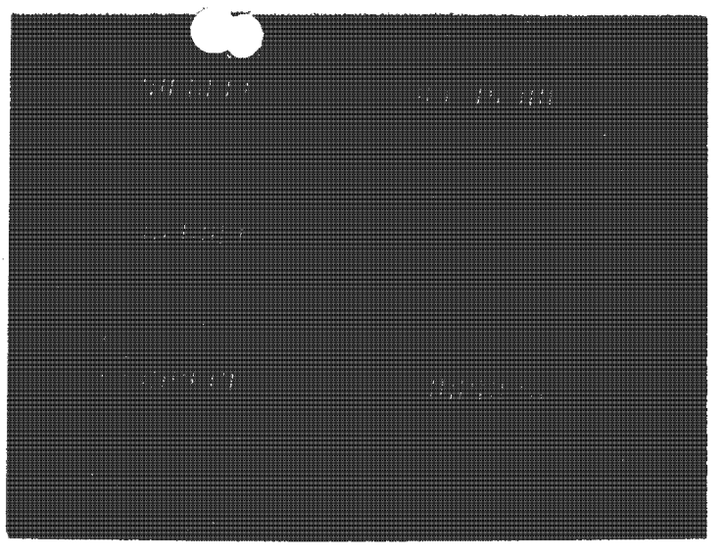

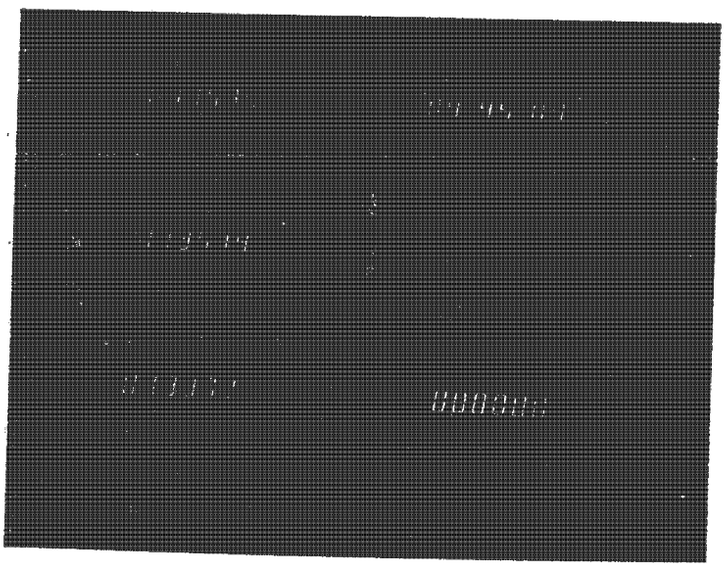

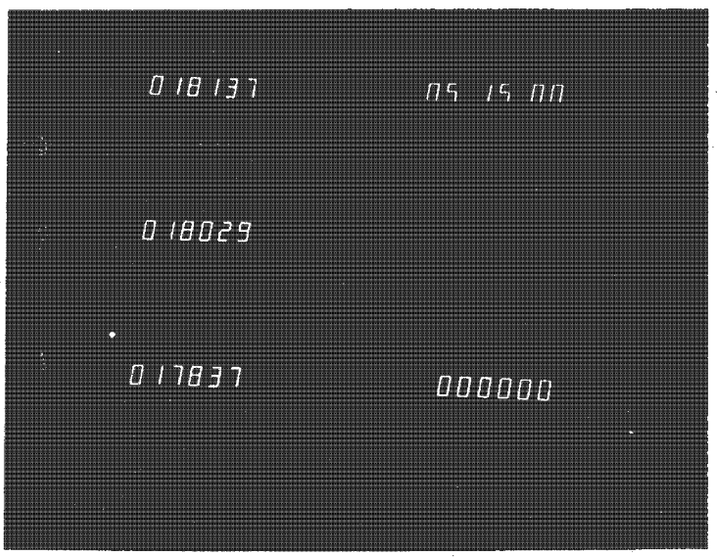
018137
05 15 00
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017837
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INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

Test Point # 7?
MW g
Date 5-15-87 1ST TEST
Observer L LEWIS

CONDENSER HOT WELL LEVEL \ MEASUREMENT

| TIME | C HOOD LEVEL | B HOOD LEVEL | A HOOD LEVEL |
|---|---|---|---|
| 0245 | 14" | 12 1/4" | |
| 0300 | 14 1/16 | 12 1/8 | |
| 0315 | 14" | 12 1/8 | |
| 0330 | 13 15/16" | 12 1/8" | |
| 0345 | 13 3/4 | 11 7/8 | |
| 0400 | 13 1/2 | 11 5/8 | |
| 0415 | 13 1/2 | 11 5/8 | |
| 0430 | 13 5/16 | 11 1/2 | |
| 0445 | 13 1/4 | 11 3/8 | |
| 0500 | 13 1/4 | 11 7/16 | |
| 0515 | 13 1/16 | 11 1/8 | |
| | | | |
| | | | |
| | | | |

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

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

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

DEARRATOR LEVEL

| TIME | LEVEL Low | LEVEL High |
|---|---|---|
| 0245 | 8.75 | 10.50 |
| 0300 | 8.75 | 10.50 |
| 0315 | 9.00 | 10.25 |
| 0330 | 8.75 | 10.50 |
| 0345 | 8.75 | 10.25 |
| 0400 | 9.00 | 10.00 |
| 0415 | 8.50 | 10.25 |
| 0430 | 9.00 | 10.25 |
| 0445 | 9.00 | 10.25 |
| 0500 | 8.75 | 10.25 |
| 0515 | 9.00 | 10.75 |
| | | |
| | | |

NOTE: READ DEARRATOR LEVEL LOCALLY EVERY 15 MINUTES.

INTERMOUNTAIN POWER PROJECT
UNIT #2 TURBINE 270T151

Test Point #_____
MW g _____
Date 5-15-87
Observer B. Warner L Lewis

STEAM PACKING EXH DRAIN FLOW

| TIME | TIME INCREMENT |
|---|---|
| 0225 | 3:01.35 |
| 0230 | 3:02.54 |
| 0515 | 2:57.26 |
| 0520 | 2:55.01 |

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.

7 COT PT 7

1554986
16555
2153236
0000000
1443132
08114
1938848
0000000
1319265
99137
1765036
0000000
1199732
98158
1596101
0000000
1080245
81180
1421576
0000000
0961106
72196
1251846
0000000
0841607
63211
1077420
0000000
0721599
54225
0903071
0000000
0602266
45239
0733672
0000000
0482990
36248
0559046
0000000
0363667
27253
0384416
0000000
0244025
18253
0209983 Booster
0000000
0124457 [illegible]
09236 Time

TEST PT 7

2317826
0000000
1554986
16555
2153236
0000000
1443132
08114
1938848
0000000
1319265
99137
1765036
0000000
1199732
90158
1596101
0000000
1080245
81180
1421576
0000000
0961106
72196
1251846
0000000
0841607
63211
1077420
0000000
0721599
54225
0903071
0000000
0602266
45239
0733672
0000000
0482990
36248
0559046
0000000
0363667
27253
0384416
0000000
0244025
18253
0209983 BOOSTER
0000000

5/14/87 Test #7 ~~2nd~~ 3rd VP 2:45-4:45

| Time | Barometric Pressure, IN HGA | Ambient Temperature, F |
|---|---|---|
| 2:48 | 25.44 | 72 |
| 3:48 | 25.43 | 72 |
| 4:49 | 25.45 | 72 |

5/15/07 Test #7 2:45 - 4:45 ~~2nd~~ 3rd VP

BOILER FEED PUMP TURBINES

| | | BFPT 1A | | | BFPT 1B | | |
|---|---|---|---|---|---|---|---|
| | Time | Speed | Torque | HP | Speed | Torque | HP |
| | 2:47 | 4981 | 10,750 | 10,160 | 5015 | 11,190 | 10,700 |
| | 3:02 | 4978 | 10,680 | 10,120 | 5028 | 11,270 | 10,800 |
| RESTART | 3:17 | 4958 | 10,610 | 10,010 | 5015 | 11,210 | 10,710 |
| | 3:31 | 4952 | 10,560 | 9950 | 5007 | 11,220 | 10,690 |
| | 3:47 | 4950 | 10,570 | 9960 | 4965 | 11,000 | 10,410 |
| | 4:01 | 4957 | 10,590 | 9990 | 5011 | 11,200 | 10,680 |
| | 4:17 | 4968 | 10,640 | 10,080 | 5025 | 11,260 | 10,780 |
| | 4:32 | 4965 | 10,660 | 10,070 | 5014 | 11,220 | 10,700 |
| | 4:48 | 4948 | 10,530 | 9900 | 4985 | 11,070 | 10,530 |
| | 5:02 | 4960 | 10,610 | 10,010 | 5011 | 11,170 | 10,630 |
| | 5:17 | 4953 | 10,630 | 10,060 | 5032 | 11,310 | 10,800 |

5:15

5/15/87

Test #7 3rd VP

LAB Flow

Sample #2 Condensate Pump discharge 1 l/54.73 sec + 1 l/16.67 sec

Sample # ~~6~~ 8 ~~DEA~~ CNDS AFT GLd COND 1 l/1 min .4 sec + 1 l/3 min 8.99

Sample #12 Boiler Water 1 l/2 min 27.79 sec

pump stroke ammonia 21

hydrazine 17

IP14_005206

5-15-87 Test #7

0300 hr. Coal FEEDER 2A
0400 hr. Coal FEEDER 2B
0500 hr. Coal FEEDER 2C

UNDER SOFTWARE LOCK 05/15/87 02:49:10 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 769. | MW | UNIT LOAD | | |
| APEKV0005 | [illegible] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005D | 44.43 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5394. | KPPH | STEAM FLOW (FW + SSP) | | |
| COAXI015A | 1010. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1010. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2393. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2393. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0013 | 999. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 999. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 458. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 461. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5394. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5330. | KPPH | BOILER FEEDWATER F | | |
| ~~COAXI001A~~ | ~~293.0~~ | ~~TPH~~ | ~~TOTAL FUEL FLOW~~ | | |
| COAXI080A | 5.4 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 5.4 | PCT | EAST FLUE GAS O2 | | |
| COAXI083A | -.3 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.4 | INWC | SG EAST FLUE GAS PR | | |

FORWARD PAGING DESX1

IP14_005208

UNDER SOFTWARE LOCK 05/15/87 02:49:24 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS ALARM |
|---|---|---|---|---|
| HRAPT0112 | 1.3 | INHGA | HP COND 1A SHELL PR | |
| HRAPT0113 | .6 | INHGA | IP COND 1B SHELL PR | |
| COAXI110A | 2.6 | INHGA | CONDENSER ABSOLUTE PRESSURE | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | HI-WRN |
| SGBTE0929 | 300. | DEGF | SEC AH 1B GAS OUT T | |
| SAAKK0007 | .461 | LB/MB | STACK NOX CONVERTED | |
| SAAKK0002 | 483. | PPM | SCRUB INLET SO2 | |
| SAAKK0004 | 26.9 | 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 | 128. | DEGF | IP COND 1B OUTLET T WEST | |
| HRCTE0394 | 116. | DEGF | IP COND 1B OUTLET T EAST | |
| HRCTE0397 | 118. | DEGF | HP COND 1A WEST OUTLET T | |
| HRCTE0401 | 119. | DEGF | HP COND 1A EAST OUTLET T | |
| COAXI078A | 86.1 | PCT | TOTAL AIR FLOW | |

FORWARD PAGING DESK2

IP14_005209

UNDER SOFTWARE LOCK 05/15/87 03:03:10 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 774. | MW | UNIT LOAD | | |
| APEKV0005 | [redacted] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005B | 44.32 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5423. | KPPH | STEAM FLOW (FW + SSF) | | |
| COAXI015A | 1005. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1006. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2401. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2401. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0013 | 1002. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 1002. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 460. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 463. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5423. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5348. | KPPH | BOILER FEEDWATER F | | |
| COAXI001A | 293.6 | TPH | TOTAL FUEL FLOW | | |
| COAXI080A | 5.0 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 6.3 | PCT | EAST FLUE GAS O2 | | |
| COAXI003A | -.4 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.4 | INWC | SG EAST FLUE GAS PRE | | |

FORWARD PAGING DESK1

IP14_005210

UNDER SOFTWARE LOCK 05/15/87 03:03:27 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| HRAPT0112 | 1.3 | INHGA | HP COND 1A SHELL PR | | |
| HRAPT0113 | .6 | INHGA | IP COND 1B SHELL PR | | |
| COAXI110A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 399. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .450 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 487. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 87. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 87. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 87. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 87. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 120. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | DEGF | IP COND 1B OUTLET T EAST | | |
| HRCTE0397 | 116. | DEGF | HP COND 1A WEST OUTLET T | | |
| HRCTE0401 | 118. | DEGF | HP COND 1A EAST OUTLET T | | |
| COAXI078A | 85.3 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005211

UNDER SOFTWARE LOCK 05/15/87 03:18:01 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 772. | MW | UNIT LOAD | | |
| APEKV0005 | [redacted] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005B | 44.11 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5565. | KPPH | STEAM FLOW (FW + SSF) | | |
| COAXI015A | 1007. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1007. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2411. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2410. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0015 | 1008. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 1003. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 458. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 461. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5588. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5494. | KPPH | BOILER FEEDWATER F | | |
| COAXI001A | 291.9 | TPH | TOTAL FUEL FLOW | | |
| COAXI000A | 5.2 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 5.1 | PCT | EAST FLUE GAS O2 | | |
| COAXI003A | -.4 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.8 | INWC | SG EAST FLUE GAS PR | | |

FORWARD PAGING DESK1

IP14_005212

UNDER SOFTWARE LOCK 05/15/87 03:18:18 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| HRAPT0112 | 1.3 | INHGA | HP COND 1A SHELL PR | | |
| HRAPT0113 | .6 | INHGA | IP COND 1B SHELL PR | | |
| COAXI110A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGDTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGDTE0929 | 300. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .458 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 487. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 120. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | DEGF | IP COND 1B OUTLET T EAST | | |
| HRCTE0397 | 116. | DEGF | HP COND 1A WEST OUTLET T | | |
| HRCTE0401 | 118. | DEGF | HP COND 1A EAST OUTLET T | | |
| COAXI078A | 85.0 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005213

UNDER SOFTWARE LOCK 05/15/87 03:34:19 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 770. | MW | UNIT LOAD | | |
| APEKV0005 | [redacted] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005B | 44.04 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5355. | KPPH | STEAM FLOW (FW + SSF) | | |
| COAXI015A | 1006. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1006. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2398. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2398. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0013 | 1001. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 1001. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 458. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 461. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5355. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5328. | KPPH | BOILER FEEDWATER F | | |
| COAXI001A | 297.5 | TPH | TOTAL FUEL FLOW | | |
| COAXI080A | 5.2 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 5.5 | PCT | EAST FLUE GAS O2 | | |
| COAXI083A | -.5 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.5 | INWC | SG EAST FLUE GAS PR | | |

FORWARD PAGING DESK1

IP14_005214

UNDER SOFTWARE LOCK 05/15/87 03:34:34 P1-20

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 | | |
| COAXI116A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 297. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .461 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 487. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 25.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | DEGF | IP COND 1B OUTLET T EAST | | |
| HRCTE0397 | 116. | DEGF | HP COND 1A WEST OUTLET T | | |
| HRCTE0401 | 118. | DEGF | HP COND 1A EAST OUTLET T | | |
| COAXI078A | 85.6 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005215

UNDER SOFTWARE LOCK 05/15/87 03:49:54 P1-28

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 772. | MW | UNIT LOAD | | |
| APEKV0005 | [redacted] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005B | 44.86 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5381. | KPPH | STEAM FLOW (FW + SSF) | | |
| COAXI015A | 1010. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1011. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2401. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2400. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0013 | 1005. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 1005. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 455. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 461. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5381. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5312. | KPPH | BOILER FEEDWATER F | | |
| COAXI001A | 294.1 | TPH | TOTAL FUEL FLOW | | |
| COAXI080A | 5.4 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 5.5 | PCT | EAST FLUE GAS O2 | | |
| COAXI083A | -.6 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.9 | INWC | SG EAST FLUE GAS PR | | |

FORWARD PAGING DESK1

IP14_005216

UNDER SOFTWARE LOCK 05/15/87 03:58:11 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 | | |
| COAXI110A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 297. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .452 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 486. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | 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 | 85.8 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005217

UNDER SOFTWARE LOCK 05/15/87 04:06:23 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 | | |
| COAXI110A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 298. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .455 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 485. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0388 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | 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 | | |
| COAXT078A | 85.8 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005218

UNDER SOFTWARE LOCK 05/15/87 04:18:57 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 | | |
| COAXI110A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 298. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .458 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 483. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | 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 | 85.4 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005219

UNDER SOFTWARE LOCK 05/15/87 04:33:46 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 | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 298. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .468 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 486. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 114. | 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 | 84.8 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005220

UNDER SOFTWARE LOCK 05/15/87 04:49:54 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 772. | MW | UNIT LOAD | | |
| APEKY0005 | [redacted] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005B | 44.05 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5374. | KPPH | STEAM FLOW (FW + SSF) | | |
| COAXI015A | 1009. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1008. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2396. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2396. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0013 | 1006. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 1006. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 458. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 461. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5374. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5288. | KPPH | BOILER FEEDWATER F | | |
| COAXI001A | 294.4 | TPH | TOTAL FUEL FLOW | | |
| COAXI008A | 5.2 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 5.6 | PCT | EAST FLUE GAS O2 | | |
| COAXI003A | -.6 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.8 | INWC | SG EAST FLUE GAS PR | | |

FORWARD PAGING DESK1

IP14_005221

UNDER SOFTWARE LOCK 05/15/07 04:50:07 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 | 2.4 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 299. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .457 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 487. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 25.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 85. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 85. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 85. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 114. | DEGF | IP COND 1B OUTLET T EAST | | |
| HRCTE0397 | 115. | DEGF | HP COND 1A WEST OUTLET T | | |
| HRCTE0401 | 112. | DEGF | HP COND 1A EAST OUTLET T | | |
| COAXI078A | 85.3 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005222

UNDER SOFTWARE LOCK 05/15/87 05:02:50 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| COAXI027A | 774. | MW | UNIT LOAD | | |
| APEKV0005 | [redacted] | MW | AUX PWR USED | BYPASS | NO-IN |
| APEKK0005B | 44.25 | MW | TOTAL AUX POWER (ANALOG) | | |
| COAXI023A | 5387. | KPPH | STEAM FLOW (FW + SSF) | | |
| COAXI015A | 1008. | DEGF | THROTTLE TEMP | | |
| SGGTE0004 | 1008. | DEGF | MAIN STEAM LINE T | | |
| COAXI012A | 2405. | PSIG | TURBINE THROTTLE PRESS | | |
| SGGPT0001 | 2404. | PSIG | MAIN STEAM LINE PR | | |
| SGJTE0013 | 1006. | DEGF | TURBINE N HOT REHEAT INLET T | | |
| SGJTE0016 | 1006. | DEGF | TURBINE S HOT REHEAT INLET T | | |
| SGJPT0006 | 468. | PSIG | TURBINE N HOT REHEAT INLET PR | | |
| SGJPT0007 | 461. | PSIG | TURBINE S HOT REHEAT INLET PR | | |
| COAXI021A | 5387. | KPPH | FDW FLOW TO ECONOMIZER | | |
| FWAFT0025 | 5328. | KPPH | BOILER FEEDWATER F | | |
| COAXI001A | 294.3 | TPH | TOTAL FUEL FLOW | | |
| COAXI080A | 5.3 | PCT | WEST FLUE GAS O2 | | |
| COAXI079A | 5.7 | PCT | EAST FLUE GAS O2 | | |
| COAXI083A | -.5 | INWC | FURNACE PRESS | | |
| SGAPT0171 | -.6 | INWC | SG EAST FLUE GAS PR | | |

FORWARD PAGING DESK1

IP14_005223

UNDER SOFTWARE LOCK 05/15/87 05:03:04 F1-20

MEASUREMENT DISPLAY

UNIT 2 PERFORMANCE LOG

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| HRAPT0112 | 1.2 | INHGA | HP COND 1A SHELL PR | | |
| HRAPT0113 | .5 | INHGA | IP COND 1B SHELL PR | | |
| COAXI118A | 2.5 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 299. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKR0007 | .454 | LB/MB | STACK NOX CONVERTED | | |
| SAAKR0002 | 482. | PPM | SCRUB INLET SO2 | | |
| SAAKR0004 | 28.2 | PPM | STACK SO2 | | |
| HRCTE0377 | 85. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 86. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 86. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 115. | 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 | 85.0 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005224

BLR AUX TEST-3 05/15/87 02:47:00

| TOTAL COAL | TOT COAL |
|---|---|
| 02120912. | 00335778. |
| | TONS |
| | TOTAL COAL |

| 1A1 AUX P | 1A2 AUX P | 1B1 AUX P | 1B2 AUX P |
|---|---|---|---|
| 00006330. | 00004826. | 00007160. | 00004849. |
| MW/HR | MW/HR | MW/HR | MW/HR |
| 1A1 AUX POWER | 1A2 AUX POWER | 1B1 AUX POWER | 1B2 AUX POWER |

IP14_005225

BLR AUX TEST-3 05/15/87 03:00:35

| TOTAL OIL | TOT COAL |
|---|---|
| 02129199. | 00335843. |
| GAL. | TONS |
| TOTAL IGNTR OIL | TOTAL COAL |

| 1A1 AUX P | 1A2 AUX P | 1B1 AUX P | 1B2 AUX P |
|---|---|---|---|
| 00006332. | 00004827. | 00007162. | 00004850. |
| 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

BLR AUX TEST-3 05/15/87 03:15:02

| | |
|---|---|
| 02129269. | 00335914. |
| CAL. | TONS |
| TOTAL | TOTAL |
| CNTR | COAL |
| OIL | |

| | | | |
|---|---|---|---|
| 00006333. | 00004828. | 00007163. | 00004852. |
| MW/HR | MW/HR | MW/HR | MW/HR |
| 1A1 | 1A2 | 1B1 | 1B2 |
| AUX | AUX | AUX | AUX |
| POWER | POWER | POWER | POWER |

L/L SCN L/L < > L/L L/L GTO

IP14_005227

BLR AUX TEST-3 05/15/87 03:30:40

| TOTAL OIL | TOTAL COAL | | |
|---|---|---|---|
| 02129221. | 00335990. | | |
| GAL. | TONS | | |
| TOTAL IGNTR OIL | TOTAL COAL | | |
| 1A1 AUX P | 1A2 AUX P | 1B1 AUX P | 1B2 AUX P |
| 00006335. | 00004830. | 00007165. | 00004853. |
| 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_005228

BLR AUX TEST-3 05/15/87 04:06:47

| | |
|---|---|
| 02129263. | 00336167. |
| GAL. | TONS |
| TOTAL DISTR OIL | TOTAL COAL |

| | | | |
|---|---|---|---|
| 00006338. | 00004833. | 00007170. | 00004856. |
| 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_005229

BLR AUX TEST-3 05/15/87 04:16:36

| TOTAL OIL | TOT COAL |
|---|---|
| 02129277. | 00336215. |
| GAL. | TONS |
| TOTAL IGNTR OIL | TOTAL COAL |

| 1A1 AUX P | 1A2 AUX P | 1B1 AUX P | 1B2 AUX P |
|---|---|---|---|
| 00006339. | 00004834. | 00007171. | 00004857. |
| 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_005230

BLR AUX TEST-3 05/15/87 04:33:50

| TOTAL OIL | TOT COAL |
|---|---|
| 02129306. | 00336300. |
| GAL. | TONS |
| TOTAL IGNTR OIL | TOTAL COAL |

| 1A1 AUX P | 1A2 AUX P | 1B1 AUX P | 1B2 AUX P |
|---|---|---|---|
| 00006341. | 00004835. | 00007173. | 00004858. |
| 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_005231

BLR AUX TEST-3 05/15/87 04:45:38

| | |
|---|---|
| 00000000 | 00000000 |
| 02129328. | 00336357. |
| GAL. | TONS |
| TOTAL DISTR OIL | TOTAL COAL |

| | | | |
|---|---|---|---|
| 00 AUX 2 | 00 AUX 2 | 00 AUX 2 | 00 AUX 2 |
| 00006342. | 00004836. | 00007174. | 00004659. |
| 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_005232

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

| | | | |
|---|---|---|---|
| 00000000 | 00000000 | | |
| 02129357. | 00336428. | | |
| CAL. | TONS | | |
| TOTAL ICNTR OIL | TOTAL COAL | | |
| 00000000 | 00000000 | 00000000 | 00000000 |
| 00006343. | 00004837. | 00007176. | 00004861. |
| 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 GTO

BLR AUX TEST-3 05/15/87 05:00:23

| TOTAL OIL | TOTAL COAL |
|---|---|
| 02129357. | 00336429. |
| GAL. | TONS |
| TOTAL IGNTR OIL | TOTAL COAL |

| 1A1 AUX P | 1A2 AUX P | 1B1 AUX P | 1B2 AUX P |
|---|---|---|---|
| 00006343. | 00004837. | 00007176. | 00004861. |
| 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_005234

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

| | |
|---|---|
| 00000000 | 00000000 |
| 82129391. | 00036502. |
| GAL. | TONS |
| TOTAL IGNTR OIL | TOTAL COAL |

| 1G1 AUX B | 1G2 AUX B | 1B1 AUX B | 1B2 AUX B |
|---|---|---|---|
| 00006344. | 00004839. | 00007178. | 00004862. |
| 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_005235

UNDER SOFTWARE LOCK 05/15/87 02:40:16 T1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.8 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 15.0 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [redacted] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI627A | 768. MW | UNIT LOAD | | |
| APEKV0007 | 723.9 MW | NET UNIT MEGAWATTS | | |

| | | |
|---|---|---|
| APEKK0001B | 9.64 MW | SWGR 2A1 POWER (ANALOG) |
| APEKK0002B | 11.12 MW | SWGR 2A2 POWER (ANALOG) |
| APEKK0003B | 9.82 MW | SWGR 2B1 POWER (ANALOG) |
| APEKK0004B | 13.77 MW | SWGR 2B2 POWER (ANALOG) |
| APEKK0005B | 44.54 MW | TOTAL AUX POWER (ANALOG) |

FORWARD PAGING AUXFDR

IP14_005236

UNDER SOFTWARE LOCK 05/15/87 03:03:45 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.2 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 14.4 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI027A | 773. MW | UNIT LOAD | | |
| APEKV0007 | 728.3 MW | NET UNIT MEGAWATTS | | |
| APEKK0001D | 9.49 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002D | 10.87 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003D | 9.81 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004D | 13.88 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005D | 44.34 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005237

UNDER SOFTWARE LOCK 05/15/87 03:18:37 F1-28

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.0 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 15.0 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAX1027A | 772. MW | UNIT LOAD | | |
| APEKV0007 | 729.0 MW | NET UNIT MEGAWATTS | | |
| APEKK0001D | 9.60 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002D | 10.73 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003D | 9.84 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004D | 13.72 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005D | 44.00 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING — NUMBER

IP14_005238

UNDER SOFTWARE LOCK 05/15/87 03:34:52 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 9.6 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 15.0 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [redacted] MW | AUX PWR USED | BYPASS | NO-IN |
| COAX1027A | 771. MW | UNIT LOAD | | |
| APEKV0007 | 727.4 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 9.64 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.72 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 9.35 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 14.01 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 43.72 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005239

UNDER SOFTWARE LOCK 05/15/07 03:48:34 F1-28

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.2 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 14.4 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI027A | 770. MW | UNIT LOAD | | |
| APEKV0007 | 72857 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 10.00 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.74 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 9.40 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 13.97 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 43.99 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005240

UNDER SOFTWARE LOCK 05/15/87 07:06:23 F1-28

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.2 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 15.0 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [redacted] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI027A | 774. MW | UNIT LOAD | | |
| APEKV0007 | 728.8 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 9.29 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.75 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 9.14 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 14.00 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 43.18 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005241

UNDER SOFTWARE LOCK 05/15/87 04:17:34 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.2 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.2 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 15.0 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI027A | 773. MW | UNIT LOAD | | |
| APEKV0007 | 729.1 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 9.99 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.71 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 9.50 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 13.76 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 43.96 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005242

UNDER SOFTWARE LOCK 05/15/87 04:36:51 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.8 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.8 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 14.4 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | 0 MW | AUX PWR USED | BYPASS | NOPIN |
| COAXI027A | 771. MW | UNIT LOAD | | |
| APEKV0007 | 727.8 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 10.15 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.74 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 9.81 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 13.42 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 43.99 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005243

UNDER SOFTWARE LOCK 05/15/87 04:49:27 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.8 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.2 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 14.4 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI027A | 773. MW | UNIT LOAD | | |
| APEKV0007 | 729.6 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 10.25 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.65 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 9.78 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 13.44 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 43.74 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005244

UNDER SOFTWARE LOCK 05/15/87 05:03:31 T1-28

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.8 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 10.8 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.8 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 14.4 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXT027A | 774 MW | UNIT LOAD | | |
| APEKV0007 | 738.2 MW | NET UNIT MEGAWATTS | | |
| APEKK0001B | 10.18 MW | SWGR 2A1 POWER (ANALOG) | | |
| APEKK0002B | 10.67 MW | SWGR 2A2 POWER (ANALOG) | | |
| APEKK0003B | 10.03 MW | SWGR 2B1 POWER (ANALOG) | | |
| APEKK0004B | 13.42 MW | SWGR 2B2 POWER (ANALOG) | | |
| APEKK0005B | 44.18 MW | TOTAL AUX POWER (ANALOG) | | |

FORWARD PAGING AUXFDR

IP14_005245

UNDER SOFTWARE LOCK 05/15/07 05:17:39 F1-28

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| APEKK0001 | 10.8 MW | SWGR 1A1 MEGAWATT | | |
| APEKK0002 | 11.4 MW | SWGR 1A2 MEGAWATT | | |
| APEKK0003 | 10.2 MW | SWGR 1B1 MEGAWATT | | |
| APEKK0004 | 14.4 MW | SWGR 1B2 MEGAWATT | | |
| APEKV0005 | [illegible] MW | AUX PWR USED | BYPASS | NO-IN |
| COAXI027A | 772. MW | UNIT LOAD | | |
| APEKV0007 | 728.1 MW | NET UNIT MEGAWATTS | | |

| | | |
|---|---|---|
| APEKK0001B | 10.00 MW | SWGR 2A1 POWER (ANALOG) |
| APEKK0002B | 11.00 MW | SWGR 2A2 POWER (ANALOG) |
| APEKK0003B | 10.00 MW | SWGR 2B1 POWER (ANALOG) |
| APEKK0004B | 13.23 MW | SWGR 2B2 POWER (ANALOG) |
| APEKK0005B | 44.23 MW | TOTAL AUX POWER (ANALOG) |

FORWARD PAGING AUXFDR

IP14_005246

# TURBINE PERF TEST

Nissen 5/16/87

- Punch List for Test Package -

TEST # 7

Date Friday 5/15/87

Time Period 245-515

Test Conditions: (GE Calcs)

Load MWg 774.3

VP 3rd

Throttle Press 2389

Throttle Temp 1007

HRH 1004

BP 3.51

X Preliminary Results (GE)

X Electrical Load

X Pictures - copy

X HW Level

X DA Level

X Stm Packing Exh flow

X Turbine Meter - copy

X Baro

X 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

X-NO Htr2 Altr Drn Metal Temps

X DRN1 / DRN2 / DRN3

Cycle Isolation Check List

IP14_005247

# LOGS

TEST # 7

Date Fri 5/15/87
(test duration)
Time 315-515

Times

GE Raw Data

X Temps

X Press/Flows/Misc

FoxIA Class II Calcs

315-515 FoxIA Trend #2 Standard Log
315-515 Perf #9 " "
315-515 Perf #10 " "

315-515 FoxIA Perf #9 Average Log
315-515 " #10 " "

STD (+1 hour)

X TGSI Status Printout
std/DLS

3:00/4:00/5:00/6:00 TRC hourly printouts

IP14_005248

Turbine TEST Unit#2

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

TEST #7

3rd Valve Point (Cracking Point #4)
LOAD ~775MWg (5MW low ? BP? )
<Request load change to 895 @ 6:30 - start>
+ go as high as possible

Start: ~~245~~ ~~3:00~~ 3:15 - 5:15
extension due to #1 IP Cooling Stm / #2 Moved off valve pt CY#4

Talk to Walt → leave flow

#1) IP Admission Cooling Steam Supply TGC-M2080A GE-SRCY-
closed down 1 1/8 turns on BY-20
8th Stage Wheel spacing temp Alarm 973°
<Tuned 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 GE
start 1:46 877/864 ~~215~~ @315 934/896
2:00 930/895 @4:30 940/898

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

IP14_005249

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-RCV-62 popped open momentarily

| | @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 | |
| | AuxPwr | 44.34 |
| | SumFlow | ~~5404~~ 5478 |
| | PW | ~~[illegible]~~ 5404 |

IP14_005251

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 #1 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 }

H. Christensen

5/15/87
Test #7 3YP

1/

IPP # 1

ISOLATION - CHECK LIST

Boiler Roof

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

Blowdown Tank Vent (north side)

IP14_005254

IPP # 1

ISOLATION - CHECK LIST

18th Floor - Top of Boiler

Vent from each Reheat line
Steam leakage near relief valves

| | | |
|---|---|---|
| 200 | T | Boiler Drum to Aux Steam (South) (Valve 1 & MBV2) |
| 112 | T | Trap open |
| 440 | T | Superheat Steam to Aux Stm - (18th & 17th floor) (west) |
| 180 | T | Superheat Steam to Air Heater Soot Blowers (139, MBV 140) |
| 302 | T | Superheat Steam to Boiler Soot Blowers (141, MBV 142) |
| 352 | T | MS to Reheater Bypass (ACV 134, MUV 133) |
| 271 | T | Superheat Steam to Boiler Soot Blowers (143, MBV144) - east |
| 115 / 119 | T | Combustion gas Reheat Soot Blowers (17, MBV-24) - east |

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

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

IPP #1
ISOLATION - Check LIST

13th - 17th Floors

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

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

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

T downstream 196 / T upstream 249 11th 4" Drain from DA to Bsmt sump (valve #23)
CRH pressure taps

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

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

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

| @ 3:15 | @ 4:09 | | 4:50 | 9th | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 362 | 352 | T | 332 | Floor | CRH | SPLY | To | Aux | Hdr (west) | (BV-11/12) |
| 401 | 383 | T | 355 | SE | CRH | SPLY | To | Aux | Hdr | (BV 13/14) |
| 357 | 350 | T | 338 | Corner | CRH | SPLY | To | Aux | Hdr (east) | (BV 15) |

IPP # 1

ISOLATION - CHECK LIST

4th - 7th Floors

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

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

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

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

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

IPP # 1

ISOLATION Check LIST

TB DECK

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

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

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

IP warming valve
Ventelator valve

Hood Sprays
Hood Spray press Reading

Computer Trailer

Control Room

IPP #1

Isolation Check List

Boiler - 3 floor to Bsmt

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

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

2ND FLOOR - EAST
BOILER DRAINS 170,69

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

Bsmt

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

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

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

2ND FLOOR West
Boiler drains.

IPP #1

Isolation Check List

Scrubber Bldg.

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

IPP # 1

ISOLATION Check LIST

MEZZ

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

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

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

MS drains to Blowdown tank MBV-11/12/13/14
MS drains to Condenser MBV 55/56/25/26
4 Control valve ~~before~~ before seat drains
4 Stop valve before seat drains
Main Steam Bypass to Condenser DV & TT
Condensate for desuperheating ACV 59, ACV89, ACV86
Drains from Rotor cooling line to CRH line
CIV drain to Condenser
CIV drain to sump - mezz near condensate for HRH drains drawer
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_005264

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

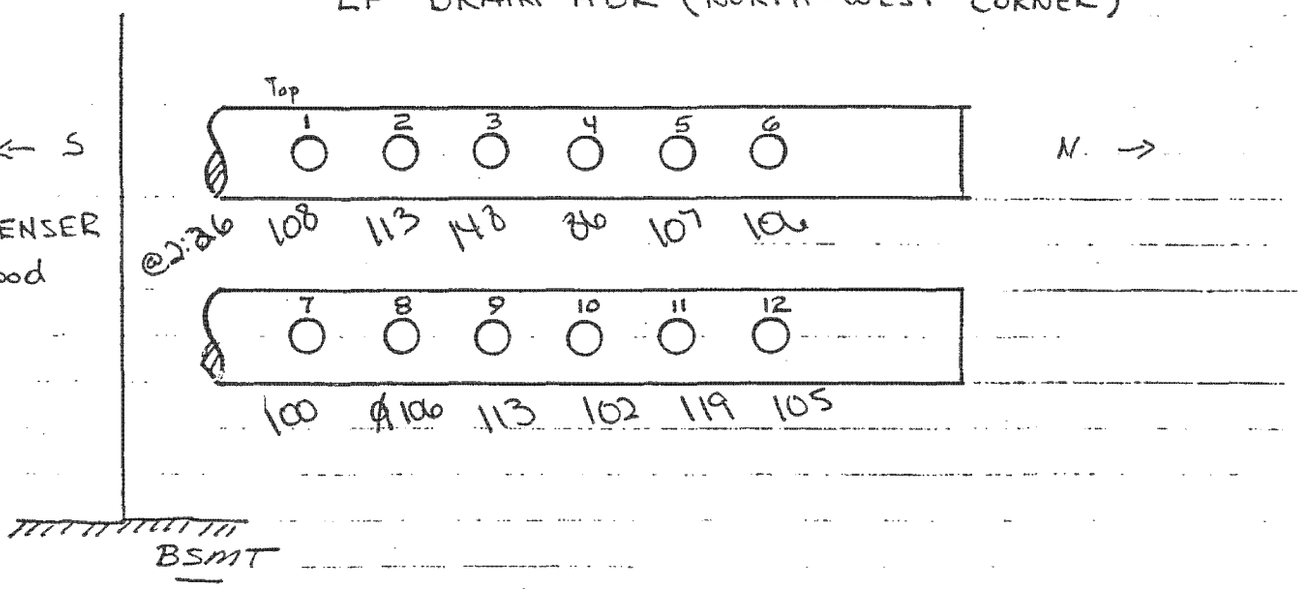
Samples

Chem. Feed

Sumps

Test #7
5/15/87
(1st Test)

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 " " "

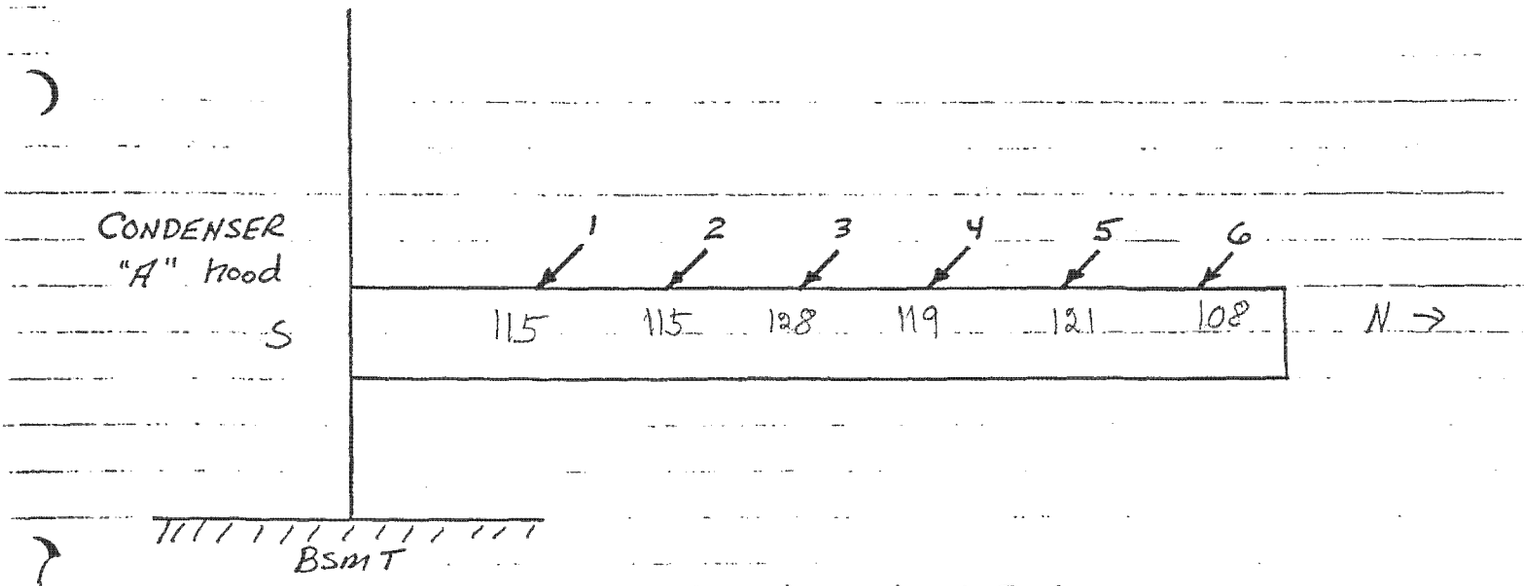
* ALSO CHECK TRAPS AND DRAIN TO SUMP

OK

LP HTR 2 Hi Level DR TO CND 1C 122

IP14_005266

LP DRAIN HDR (NORTH-EAST CORNER)



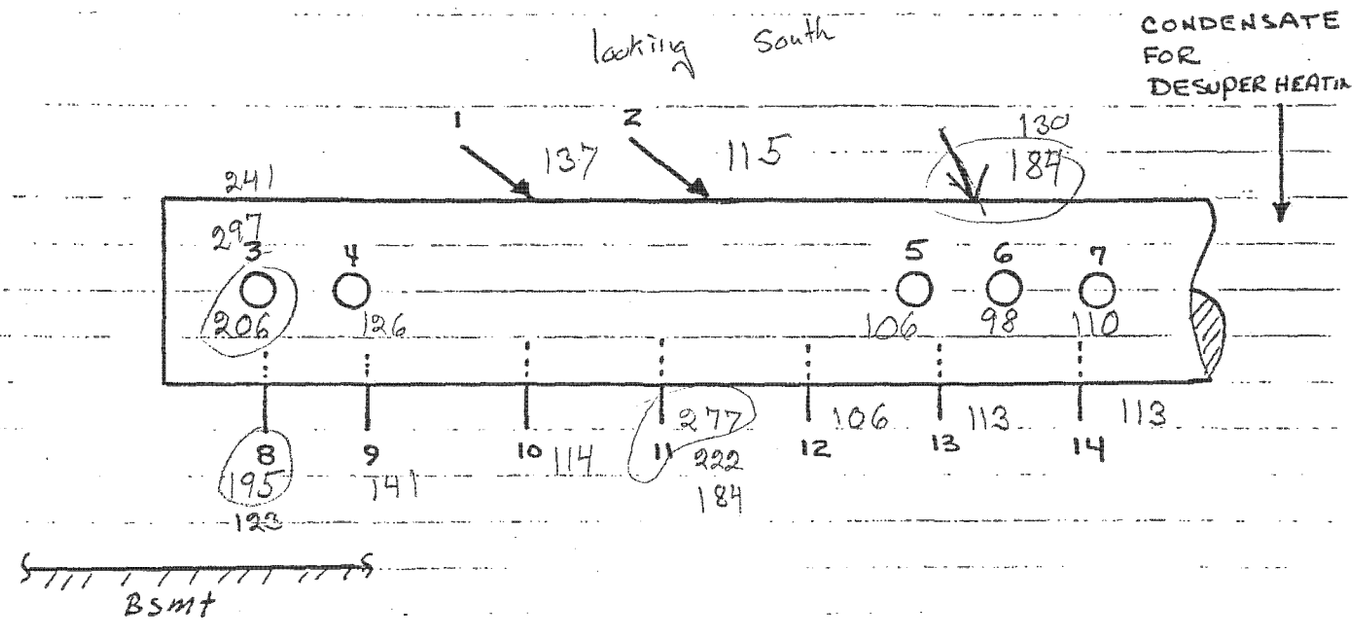

ELEVATION VIEW
(LOOKING WEST)

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 Ok

IP14_005267

HP DRAIN HDR
(EAST SIDE - BSMT LEVEL)



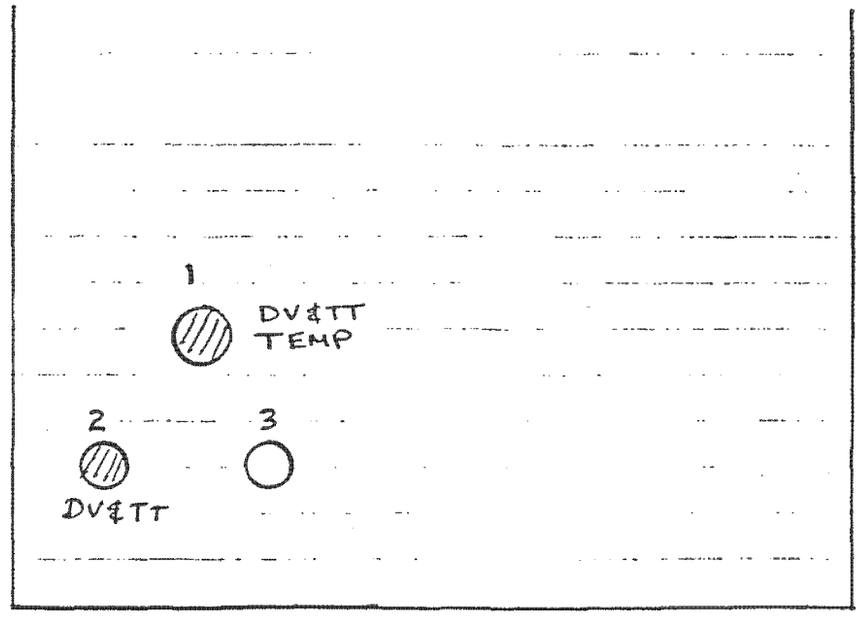

ELEVATION VIEW
(LOOKING SOUTH)

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 OK

IP14_005268

CONDENSER CONNECTIONS MEZZ - TB END



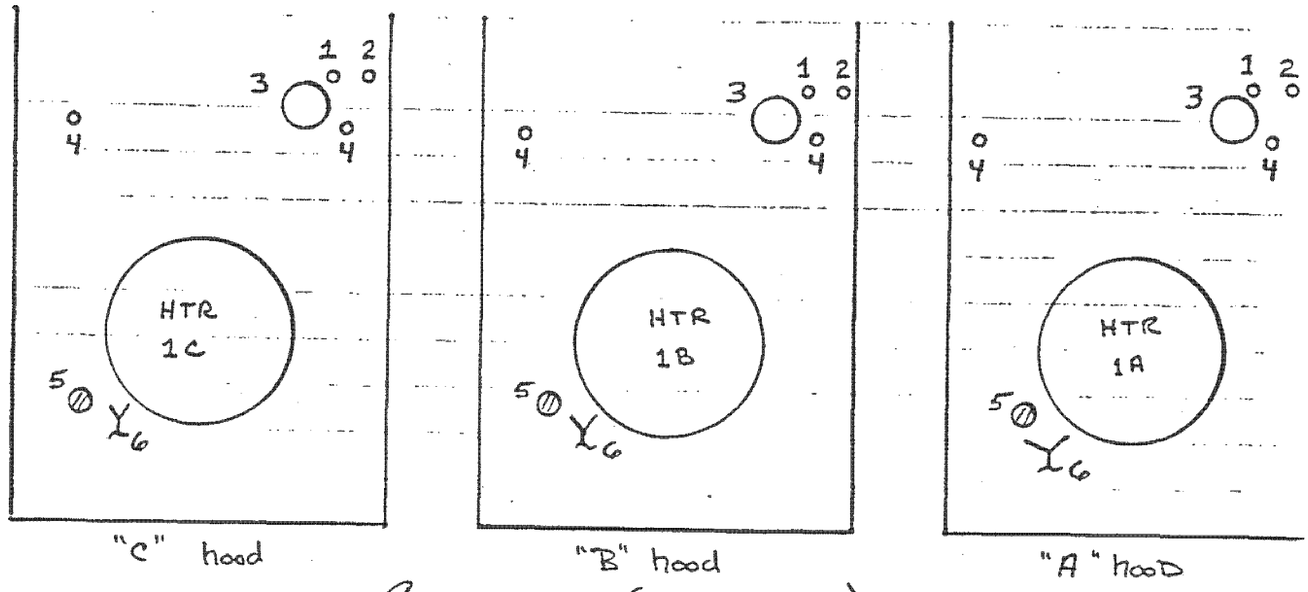

CONDENSER (MEZZ LEVEL)
(TB-END)

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

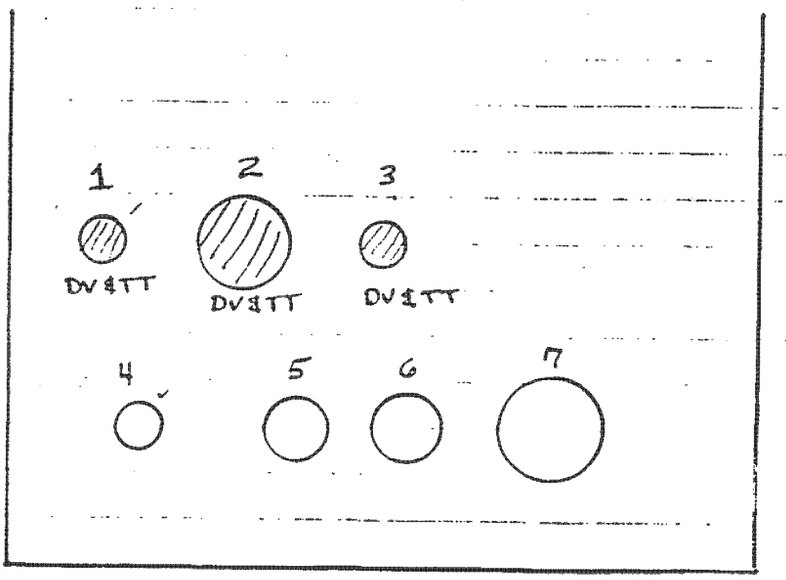
CONDENSER CONNECTIONS MEZZ - SOUTH




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.

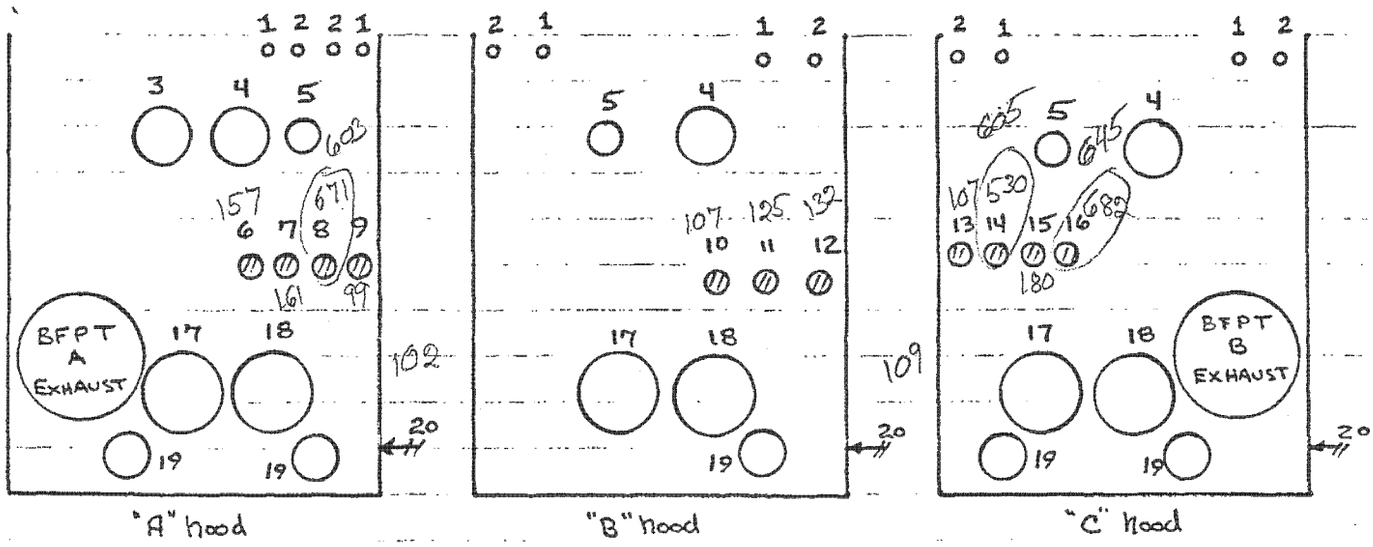
CONDENSER CONNECTIONS MEZZ – GEN. END




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

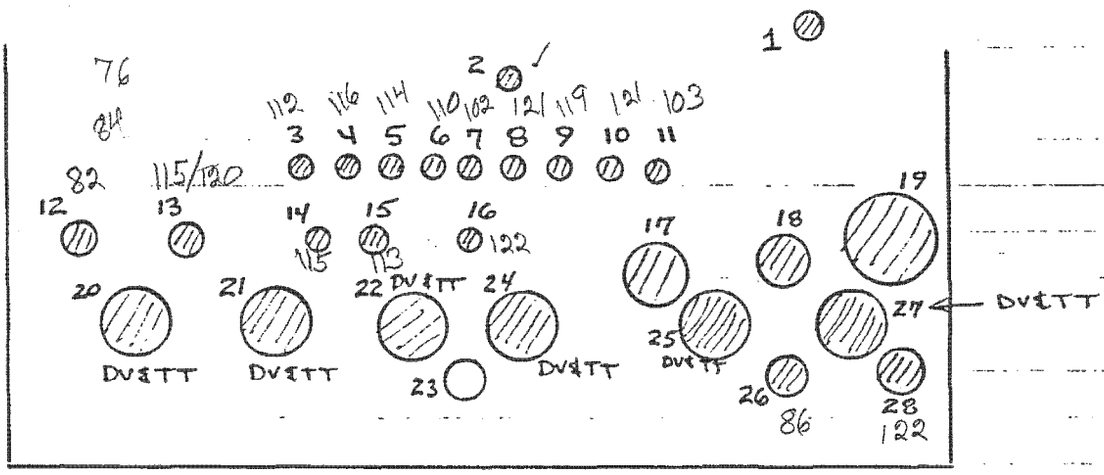
CONT.

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

IP14_005272

CONDENSER CONNECTIONS

Bsmt - TB END



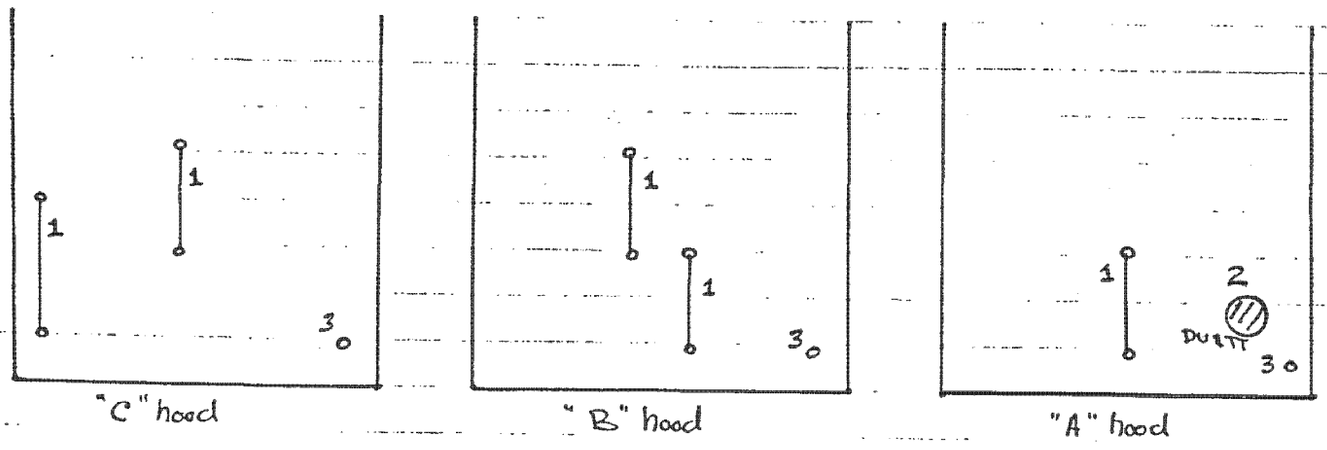

CONDENSER - Bsmt
(TB END)

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_005273

CONDENSER CONNECTIONS

BSMT - SOUTH SIDE

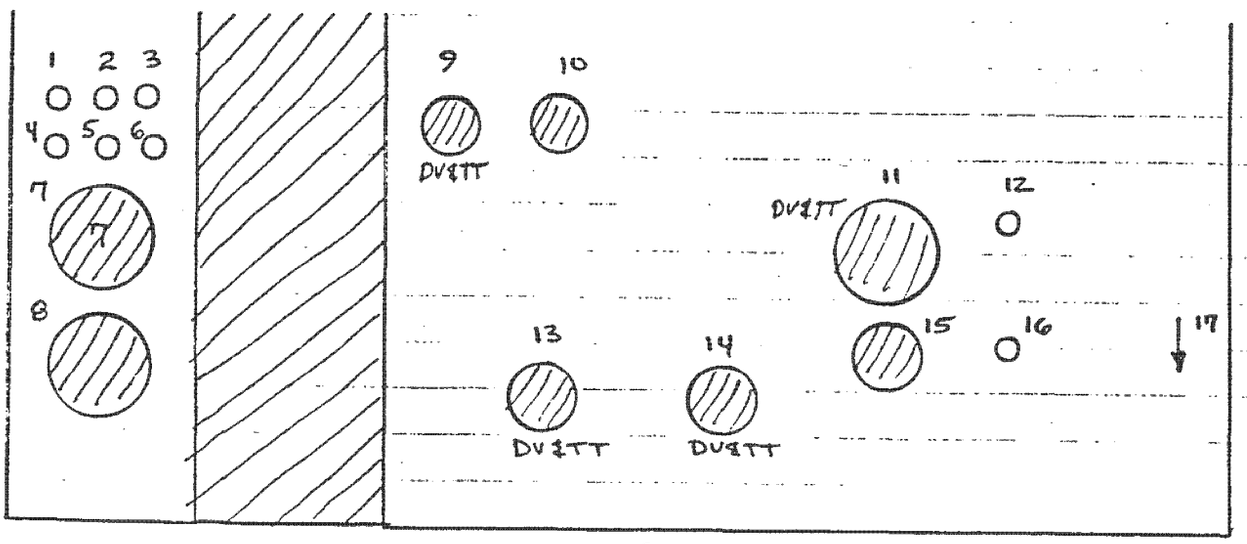



CONDENSER - BSMT
SOUTH SIDE

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

CONDENSER CONNECTIONS

BSMT - GEN END

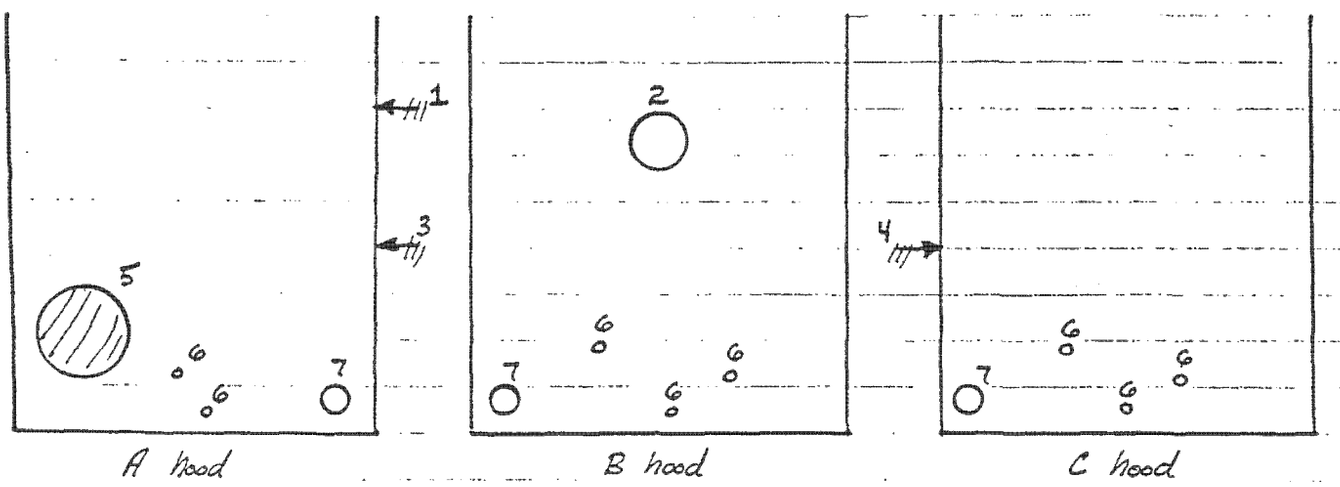



CONDENSER BSMT
GEN END

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.

IP14_005276

# MEZZANINE TC'S

LP HTR 2 DR
To Flash TK 1
161

MS WARM LINE
84

MS DRAIN WARM LINE - 1MSDSH
88

MS DRAIN WARM LINE - 1MSDSH
88

BOOSTER BFP DISC
TO MAIN + STBY BF
161

MS DRAINS TO
BLOWDOWN TANK
181
171
92

ST. SEAL
EXTRACTIONS
UP 1/2 LEVEL
208
205
396
404
238
246

DOWN ON MEZZANINE
TDV TO CONDENSER

IP14_005277

UNDER SOFTWARE LOCK 05/15/87 02:48:27 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 616. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE8418 | 135. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 359. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE8417 | 89. | DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE8419 | 79. | DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE8088 | 115. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 78. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 403. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 389. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE8997 | 128. | DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005278

UNDER SOFTWARE LOCK 05/15/87 02:48:40 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 368. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 125. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 192. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 145. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 118. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 265. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 120. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 121. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 122. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 123. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE8959 | 136. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 156. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 186. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005279

UNDER SOFTWARE LOCK 05/15/87 02:48:54 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 103. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 113. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 152. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 135. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 139. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 124. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 120. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 118. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 169. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 139. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 150. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 119. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 148. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 88. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 131. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 118. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005280

UNDER SOFTWARE LOCK 05/15/07 03:02:22 F1-28

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| SGGTE1154 | 617. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 135. DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 353. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0417 | 89. DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE0419 | 79. DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE0008 | 114. DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 77. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 483. DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 389. DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 120. DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005281

UNDER SOFTWARE LOCK 05/15/87 03:02:36 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 291. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 125. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 192. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 145. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 118. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 246. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 121. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 121. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE8959 | 134. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 156. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005282

UNDER SOFTWARE LOCK 05/15/87 03:02:49 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 102. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 113. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 149. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 136. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 137. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 125. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 117. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 167. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 136. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 150. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 118. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 145. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 79. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 108. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 119. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005283

UNDER SOFTWARE LOCK 05/15/87 03:17:14 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| SGGTE1154 | 618. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 134. DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 347. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0417 | 89. DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE0419 | 79. DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE0808 | 112. DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1205 | 421. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1206 | 76. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 483. DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 120. DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005284

UNDER SOFTWARE LOCK 05/15/87 03:17:28 F1-28

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 279. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 125. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 192. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 144. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 118. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 231. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 121. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 121. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE0959 | 134. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 156. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005285

UNDER SOFTWARE LOCK 05/15/87 03:17:42 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 101. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 112. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 147. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 136. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 135. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 126. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 116. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 164. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 134. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 136. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 150. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 117. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 142. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 78. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 101. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 128. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005286

UNDER SOFTWARE LOCK 05/15/87 03:33:26 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 621. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 135. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 341. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0417 | 89. | DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE0419 | 79. | DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE0000 | 112. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 74. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 483. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 128. | DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005287

UNDER SOFTWARE LOCK 05/15/87 03:33:39 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 263. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 125. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 189. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 144. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 210. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 121. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 121. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE8959 | 132. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 157. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005288

UNDER SOFTWARE LOCK 05/15/87 09:33:52 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 | | |
| ECTE1028 | 111. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| CTE1029 | 145. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TE1030 | 137. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TE1031 | 134. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| E1032 | 126. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| 1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| 034 | 116. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| 035 | 162. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| 6 | 134. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| 7 | 137. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| | 150. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| | 115. DEGF | LP HTR 2 EXTR DRAIN T | | |
| | 139. DEGF | LP HTR 3 EXTR DRAIN T | | |
| | 78. DEGF | LP HTR 3 EXTR DRAIN T | | |
| | 99. DEGF | LP HTR 4 EXTR DRAIN T | | |
| | 120. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005289

UNDER SOFTWARE LOCK 05/15/87 03:49:00 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 622. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 135. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 334. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0417 | 89. | DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE0419 | 79. | DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE0008 | 112. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 71. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 408. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 119. | DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005290

UNDER SOFTWARE LOCK 05/15/87 03:49:16 F1-28

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 250. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 127. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 191. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 144. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 283. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 121. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 121. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 122. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE0959 | 132. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 156. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005291

UNDER SOFTWARE LOCK 05/15/87 03:49:32 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 | 118. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 143. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 137. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 132. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 123. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 115. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 160. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 134. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 139. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 148. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 113. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 137. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 78. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 98. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 128. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005292

UNDER SOFTWARE LOCK 05/15/87 04:07:06 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 620. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 134. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 328. | 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 | 112. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 77. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 403. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 119. | DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005293

UNDER SOFTWARE LOCK 05/15/87 04:07:24 F1-28

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 239. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 127. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 192. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 143. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 192. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 118. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 120. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 120. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE8959 | 130. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 157. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005294

UNDER SOFTWARE LOCK 03/13/07 01:07:44 F1-2

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 | 188. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 141. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 136. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 131. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 123. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 115. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 158. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 134. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 140. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 146. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 134. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 77. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 98. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 128. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005295

UNDER SOFTWARE LOCK 05/15/87 04:17:51 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 620. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 134. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 324. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0417 | 89. | DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE0419 | 78. | DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE0008 | 112. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1205 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1206 | 81. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 403. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 119. | DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005296

UNDER SOFTWARE LOCK 05/15/87 08:10:05 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 231. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 129. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 189. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 143. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 185. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 118. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 120. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTRS 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 120. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE0959 | 130. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 157. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005297

UNDER SOFTWARE LOCK 05/15/87 04:18:16 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 98. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 107. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 140. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 135. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 130. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 122. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 114. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 158. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 142. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 144. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 111. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 110. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 134. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 77. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 98. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 119. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005298

UNDER SOFTWARE LOCK 05/15/87 04:35:15 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| SGGTE1154 | 618. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 135. DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 318. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0417 | 89. DEGF | BFPT DRAIN TO BLOWDOWN TANK T | | |
| SGGTE0419 | 79. DEGF | MN ST LINE WRMG DSUPHTR 1 IN T | | |
| SGGTE0008 | 112. DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 85. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 483. DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 119. DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRN1

IP14_005299

UNDER SOFTWARE LOCK 05/15/87 04:35:39 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 221. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 129. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 192. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 143. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 177. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 120. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 120. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE0959 | 130. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 157. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRN2

IP14_005300

UNDER SOFTWARE LOCK 05/15/07 04:36:08 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 98. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 106. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 139. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 132. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 128. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 119. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 118. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 156. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 145. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 141. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 110. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 103. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 131. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 77. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 98. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 117. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005301

UNDER SOFTWARE LOCK 05/15/87 04:50:28 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 611. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 134. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 313. | 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 INLT | | |
| SGGTE0068 | 112. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 87. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 483. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 388. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 119. | DEGF | HOT RH DR DSUPHTR 3 T | | |

FORWARD PAGING DRAI

IP14_005302

UNDER SOFTWARE LOCK 05/15/87 01:58:47 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 | 138. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 189. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 143. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 178. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 128. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 128. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE8959 | 129. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 157. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

FORWARD PAGING DRM2

IP14_005303

UNDER SOFTWARE LOCK 05/15/87 04:51:11 P1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 97. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 185. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 138. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 138. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 128. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 117. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 116. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 155. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 146. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 138. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 110. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 185. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 138. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 77. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 97. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 116. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005304

UNDER SOFTWARE LOCK 05/15/87 05:02:32 F1-20

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| SGGTE1154 | 611. DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE0418 | 134. DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 389. 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 | | |
| SGGTE0088 | 112. DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1205 | 421. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1206 | 88. DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 484. DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 389. DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE0997 | 119. DEGF | HOT RH DR DSUPHTR 3 T | | |

BACKWARD PAGING DRN1

IP14_005305

UNDER SOFTWARE LOCK 05/15/87 05:02:03 F1-28

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 97. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 105. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 138. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 128. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 127. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 115. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 119. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 116. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 154. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 148. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 136. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 109. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 106. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 129. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 77. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 97. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 115. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005306

UNDER SOFTWARE LOCK 05/15/87 05:19:15 P1-28

MEASUREMENT DISPLAY

HP STM DRAIN TEMPS

| BLOCK | VALUE | | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|---|
| SGGTE1154 | 622. | DEGF | MAIN STEAM DR TO BLOWDOWN TK T | | |
| SGFTE8418 | 135. | DEGF | MN ST LINE DRN TO BLWDN TANK T | | |
| SGGTE1153 | 384. | 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 | | |
| SGGTE8888 | 112. | DEGF | MN ST LINE WRMG DSUPHTR 1 OUT T | | |
| SGJTE1285 | 421. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1286 | 89. | DEGF | COLD RH DR DSUPHTR INLET TEMP | | |
| SGJTE1157 | 484. | DEGF | SG S HOT RH OUT TO DR DSUPHTR | | |
| SGJTE1158 | 389. | DEGF | SG N HOT RH OUT TO DR DSUPHTR | | |
| SGJTE8997 | 119. | DEGF | HOT RH DR DSUPHTR 3 T | | |

BACKWARD PAGING DRN1

IP14_005307

UNDER SOFTWARE LOCK 05/15/87 05:18:56 F1-20

MEASUREMENT DISPLAY

HP/IP EXTR STM DRN HDR TEMPS

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1015 | 199. DEGF | HP HTRS 8A & 8B TURB DRAIN T | | |
| TECTE1016 | 138. DEGF | HP HTR 8A EXTRACTION DRAIN T | | |
| TECTE1017 | 198. DEGF | HP HTR 8B EXTRACTION DRAIN T | | |
| TECTE1018 | 143. DEGF | HP HTRS 6A & 6B TURB DRAIN T | | |
| TECTE1019 | 117. DEGF | HP HTR 6A EXTRACTION DRAIN T | | |
| TECTE1020 | 168. DEGF | HP HTR 6B EXTRACTION DRAIN T | | |
| TECTE1021 | 119. DEGF | BFPT 1B EXTRACTION DRAIN T | | |
| TECTE1022 | 128. DEGF | BFPT 1A EXTRACTION DRAIN T | | |
| TECTE1023 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1024 | 128. DEGF | BFPT 1A & 1B TURB EXTR DRAIN T | | |
| TECTE1025 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE1026 | 121. DEGF | DEA HTR 5 TURB EXTR DRAIN T | | |
| TECTE0959 | 129. DEGF | HP COND TO DSUPHTR LINE T | | |
| TECTE1045 | 158. DEGF | BFPT 1A EXTR DR T | | |
| TECTE1046 | 185. DEGF | BFPT 1B EXTR DR T | | |

BACKWARD PAGING DRN2

IP14_005308

UNDER SOFTWARE LOCK 05/15/87 05:18:38 F1-20

MEASUREMENT DISPLAY

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

| BLOCK | VALUE | DESCRIPTION | STATUS | ALARM |
|---|---|---|---|---|
| TECTE1027 | 97. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1028 | 104. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1029 | 137. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1030 | 125. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1031 | 126. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1032 | 113. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1033 | 118. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1034 | 117. DEGF | LP HTR 2 EXTRACTION DRAIN T | | |
| TECTE1035 | 153. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1036 | 133. DEGF | LP HTR 3 EXTRACTION DRAIN T | | |
| TECTE1037 | 149. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1038 | 132. DEGF | LP HTR 4 EXTRACTION DRAIN T | | |
| TECTE1039 | 108. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1040 | 107. DEGF | LP HTR 2 EXTR DRAIN T | | |
| TECTE1041 | 128. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1042 | 77. DEGF | LP HTR 3 EXTR DRAIN T | | |
| TECTE1043 | 97. DEGF | LP HTR 4 EXTR DRAIN T | | |
| TECTE1044 | 113. DEGF | LP HTR 4 EXTR DRAIN T | | |

FORWARD PAGING DRN3

IP14_005309

UNDER SOFTWARE LOCK 05/15/87 05:18:01 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 | 2.4 | INHGA | CONDENSER ABSOLUTE PRESSURE | | |
| SGBTE0927 | [illegible] | DEGF | SEC AH 1A GAS OUT T | | HI-WRN |
| SGBTE0929 | 298. | DEGF | SEC AH 1B GAS OUT T | | |
| SAAKK0007 | .462 | LB/MB | STACK NOX CONVERTED | | |
| SAAKK0002 | 482. | PPM | SCRUB INLET SO2 | | |
| SAAKK0004 | 26.9 | PPM | STACK SO2 | | |
| HRCTE0377 | 85. | DEGF | IP COND 1B INLET T | | |
| HRCTE0378 | 85. | DEGF | IP COND 1B INLET T | | |
| HRCTE0379 | 86. | DEGF | LP COND 1C EAST INLET T | | |
| HRCTE0380 | 85. | DEGF | LP COND 1C WEST INLET T | | |
| HRCTE0389 | 119. | DEGF | IP COND 1B OUTLET T WEST | | |
| HRCTE0394 | 114. | 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 | 85.1 | PCT | TOTAL AIR FLOW | | |

FORWARD PAGING DESK2

IP14_005310

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 | 0 JW | JW | JW | JW |
| " | " 0020 | " 8A " | " | 0 JW | JW | JW | JW |
| " | " 0027 | " 7A " | " | 0 JW | JW | JW | JW |
| " | " 0028 | " 7A " | " | 0 JW | JW | JW | JW |
| " | " 0035 | " 6A " | " | 0 JW | JW | JW | JW |
| " | " 0036 | " 6A " | " | 0 JW | JW | JW | JW |
| " | " 0021 | " 8B " | " | 0 JW | JW | JW | JW |
| " | " 0022 | " 8B " | " | 0 JW | JW | JW | JW |
| " | " 0029 | " 7B " | " | 0 JW | JW | JW | JW |
| " | " 0030 | " 7B " | " | 0 JW | JW | JW | JW |
| " | " 0037 | " 6B " | " | 0 JW | JW | JW | JW |
| " | " 0038 | " 6B " | " | 0 JW | JW | JW | JW |
| M2020 | 2HRA-BV-0019 | COND. NORMAL DRAWOFF | GF SW CORNER OF COND | 0 DA | DA | DA | DA |
| " | -0020 | " | " | 0 DA | DA | DA | DA |
| M2077 | 2TEE-BV-0011 | LP HTR 3 ALT. HLVL DUMP | GF - WEST OF COND | 0 DA | DA | DA | DA |
| " | " 0019 | " 3 " | " | 0 DA | DA | DA | DA |
| " | " 0013 | " 2 " | " | 0 DA | DA | DA | DA |
| " | " 0021 | " 2 " | " | 0 DA | DA | DA | DA |
| " | " 0015 | FLASH TANK " | GF - SW OF COND | 0 DA | DA | DA | DA |
| " | " 0022 | " " | " | 0 DA | DA | DA | DA |

GF EAST

IP14_005311

TEST _____ DATE _____

# PRIORITY I VALVES (PAGE 2 of 2)

| P&ID | VALVE # | DESCRIPTION | LOCATION | VLV POSITION / CLOSE INITIALS | OPEN O INITIALS | CLOSE C INITIALS | OPEN O INITIALS |
|---|---|---|---|---|---|---|---|
| M2077 | 2TEE-BV-0009 | LP HTR 4 ALT HLVL DUMP | MEZZ. WEST OF COND | O / DR | DR | DR | DR |
| " | " 0017 | " | " | O / DR | DR | DR | DR |
| M2037 | 2FWC-BV-0026 | DA RECIRC. to COND. | " | O / DR | DR | DR | DR |
| " | " 0027 | " TURB. | " | O / DR | DR | DR | DR |
| " | 2FWC-MBV-90 | " | " | O / DR | DR | DR | DR |
| M2020 | 2HRA-BV-0030 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~~ | ~~13th FLOOR~~ | | | | |
| 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 |

IP14_005312

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 | GF NW CORNER COND 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_005313

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 2 OF 3)

| P&ID | VALVE # | DESCRIPTION | LOCATION | KEY POSITION / CLOSE INITIALS | OPEN O INITIALS | CLOSE C INITIALS | OPEN O INITIALS |
|---|---|---|---|---|---|---|---|
| M2021 | 2HRB-BV-0109 | SEPARATOR 1D Mu | MEZZ. CONDENSER VAC. PMPS | 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-0165 | 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 | MS STM to AUX STM | " | O / DS | closed | — | DS |

TEST # _____ DATE _____

PRIORITY II VALVES (PAGE 3 of 3)

| P&ID | VALVE # | DESCRIPTION | LOCATION | VALVE POSITION CLOSE INITIAL | OPEN O INITIAL | CLOSE C INITIAL | OPEN O INITIAL |
|---|---|---|---|---|---|---|---|
| 2FWB M2036 | | | | | | | |
| " | B-1 | FLOW METER 1 BBFP | GF-W OF BBFP 2A | ~~O~~ ~~JW~~ | | | JW |
| | B-2 | | | ~~C~~ ~~JW~~ | | | JW |
| | B-3 | open first | | ~~OPEN~~ | | JW | |
| | B-4 | | | ~~OPEN~~ | | JW | |
| " | B-5 | FLOW METER 2 BBFP | GF ABOVE BFPT LUBE OIL CENT. | ~~CLOSED~~ | | | JW |
| | B-6 | | | ~~CLOSED~~ | | | JW |
| | B-7 | open first | | ~~open~~ | | JW | |
| | B-8 | | | ~~OPEN~~ | | 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 CORNER OF COND. - Bottom Row | III | JW | JW |
| " | " 0031 | " | | | III | JW | JW |
| " | " 0035 | LP HTR 3 | | | III | JW | JW |
| " | " 0039 | " | | | III | JW | JW |
| " | " 0043 | LP HTR 4 | | | III | JW | JW |
| " | " 0047 | " | | | III | JW | JW |
| " | " 0003 | LP HTR 2 | LP TURB. SECTION 1A | GF - NE CORNER OF COND. | III | JW | JW |
| " | " 0007 | " | | | III | JW | JW |
| " | " 0011 | LP HTR 3 | | | III | JW | JW |
| " | " 0015 | " | | | III | JW | JW |
| " | " 0019 | LP HTR 4 | | | III | JW | JW |
| " | " 0023 | " | | | III | JW | JW |
| " | " 0051 | LP HTR 2 | LP TURB. SECTION 1C | GF- NW CORNER OF COND. TOP Row | III | JW | JW |
| " | " 0055 | " | | | III | JW | JW |
| " | " 0059 | LP HTR 3 | | | III | JW | JW |
| " | " 0063 | " | | | III | JW | JW |
| " | " 0067 | LP HTR 4 | | | III | JW | JW |
| " | " 0071 | " | | | III | JW | JW |
| M2038 B | 2FWD-BV-0121 | COND. POLISH Regen Pump | | GF | III | DR | DR |
| " | " 0125 | " | | " | III | DR | DR |
| M2008 | 2FSA-BV-0082 | AUX. STM. TRAP 5 | | " | III | DR | DR |
| M2080A | 2TEC-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 2A3 | III | DR | DR |
| M2068 | 2SGF-BV-0065 | DOWNCOMER DRN. BLOWDOWN | | MEZZ. S. SIDE BOILER | III | DR | DR |
| " | " 0055 | LWR. CONVECTION PASS HDR | | 10th east | III | DS | C closed |
| " | " 0057 | " | | " | III | DS | C |
| " | " 0035 | " | | 10th west | III | DS | C |
| " | " [illegible] | " | | " | III | DS | C |

IP14_005316

TEST # _____ DATE _____

| P&ID | VALVE # | DESCRIPTION | LOCATION | PRIORITY | CLOSE C INITIAL | OPEN O INITIAL |
|---|---|---|---|---|---|---|
| M2068 | 2SGF-BV-0041 | SECOND. SPRHTR OUT HDR. | 15th - West | III | DS | CLO |
| " | " 0043 | " " INTERMED 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 | DRC |

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

| P&I's | NON-CRITICAL COMPLETE | CRIT - COMPLETE | OPEN CRITICAL COMPLETE | OPEN NON-CRITICAL COMPLETE |
|---|---|---|---|---|
| 9 PSA - M2008 | ROG | | | |
| 2 PSA - M2008 | ROG | | | |
| 2CCD - M2013A | ROG | | | |
| 2HRA - M2020 | ROG | | | |
| 2HRB - M2021 | N/A | | | |
| 2 FWA - M2035A | ROG | | | |
| 2FWA - M2035B | ROG | | | |
| 2 FWA - M2035C | ROG | | | |
| 2 FWC - M2037 | ROG | | | |
| 2 FWD - 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 | | | |
| 2 SGF - 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 | | | |

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

IP14_005319

# ASME 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 # 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 | | | | |
| MBV-17 | CRH Supply to Aux Stm | 9th floor behind east elevator | CRII | O | C | | | | | | | |
| (BV-36/37) | tell tale valves | " | N | C | C | C | C | DS | | | | |
| BV-12 | CRH Supply to Aux Stm | " | CRII | O | C | | | | | | | |
| BV-14 | CRH Supply " " | " | CRII | 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- | " " " " " | " | N | | C | C | C | DS | | | | |
| BV-19 | Aux Stm to BFPT | Mezz Floor NE corner | N | O | C | C | C | DS | | | | |
| BV-18 | " " " " | " " | N | O | C | C | C | DS | | | | |
| (BV-39/40) | tell tale | " " | N | C | C | C | C | DS | | | | |
| BV-11 | CRH to aux Stm | 9th behind east elevator | N | O | C | O | 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_005320

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: COMBUSTION GAS REHEAT P&ID# M2013A

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BV-44 | Sootblowing Supply to CGR | 18th floor east side | N | O | C | C | C | 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 12' 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 |
| BV-127 | " " " | " | N | O | C | C | C | OR | | | | OFF |

IP14_005321

# ASME 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: 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 | Bsmt. SE corner condenser | CRI | O | C | | | | | | | |
| BV-31 | make-up | " | CRI | O | C | | | | | | | |
| BV-19 | Condensate ~~Normal~~ DRAW OFF | BSMT. SW CORNER CONDENSER | CRI | O | C | | | | | | | |
| BV-20 | " | " | CRI | O | C | | | | | | | |
| BV-33 | Condensate ~~EMERG.~~ MAKE-UP | BSMT. SE CORNER CONDENSER | N | O | C | O | C | DRO | O | O | JW | |
| BV-34 | " | " | N | O | C | O | C | DRO | O | O | JW | |
| BV-23 | COND. EMERG. DRAW-OFF | BSMT SW CORNER CONDENSER | N | O | C | O | C | DRO | C | O | JW | |
| BV-24 | " | " | N | O | C | O | C | DRO | C | O | JW | |
| 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 CLOS BV-28 |
| ~~BV~~-29 | " BYPASS | " | N | C | C | C | C | DRO | | | | |
| BV-71 | COND. MISC. SERVICE PUMP OUTLET | BSMT. "1C" COND. PUMP ABOVE HEAD | N | O | C | C | C | DRO | | | | |
| BV-179 | " | " | N | O | C | C | C | DRO | | | | |
| BV-178) | TELL TAIL | " | N | C | C | C | C | DRO | | | | |
| BV-90 | HOT WELL DRAINS | N. OF 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_005322

Cycle I. Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

SYSTEM: CONDENSING P&ID # 2HRA-M2020 / 2SCA-M2056 A (CONT.)

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BV-115 | COND LEAK DETECTION 1B | N. SIDE COND. 1B COND. | N | O | C | C | C | DRO | | | | OPENS 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 | | | | " |
| BV-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_005323

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # ____

Cycle Isolation Check off Sheets

Before Test-Isolation: Start ____ End ____ Name ____

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

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

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

IP14_005324

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: BOILER FEED P&ID # 2FWA-M2055A

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BV-298 | Bootstrap | MEZZ NEAR HTR. 2 (207-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 1A 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 P.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. (207G) | 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_005325

# 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 | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBV-44 | HP HEATERS BYPASS | TURBINE DECK E. of HP HTR. 6 (202H) | N | C | C | C | C | 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 | | | | |
| BV-202 | SAMPLE 11 | 10th S. of mec 2809 | CRII | O | C | | | | | | | |
| BV-203 | " | " | CRII | O | C | | | | | | | |

IP14_005326

# 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-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 | | | | | 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_005327

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

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

IP14_005328

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 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 C Condenser | CRI | O | C | | | | | | | |
| BV-27 | " " " " | " | CRI | O | C | | | | | | | |
| MBV-90 | " " " " | " | CRI | C | C | | | | | | | |
| BV-85 | " " " " | " | N | O | C | | | | | | | |
| BV-86 | " " " " | " | N | O | C | C | C | JW | | | | |
| BV-105 | -tell tale | " | N | C | C | C | C | JW | | | | |
| BV-110 | -tell tale | " | 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 stair | N | C | C | C | C | JW | | | | |
| 1BV-16 | CNDS Bypass Htr 2 | Mezz floor SW of manelow | 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_005329

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-M2038A/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 Booster Pump | CR III | O | C | | | | | | | Regen Pumps - off |
| BV-125 | " " " " | " | CR III | O | C | | | | | | | make sure pump |
| 1BV-76 (38A) | CNDS DEMIN 2A DAN | 1st floor East of Demin | N | C | C | C | C | | | | | don't start |
| 1BV-77 | " " 2B " | " | N | C | C | C | C | | | | | |
| 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_005330

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

6/93

| alve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BV-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 | |
| BV-6 | 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 | O | 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_005331

Cycle 7 Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Name _____

Date: _____

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

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | 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-2 | LAB SAMPLE 9 D.A. INLET | WATER LAB - Behind Panel | CRII | O | C | O | C | KS | C | C | KS | |
| BV-13 | LAB SAMPLE 10 D.A. Outlet BD | | N | | C | C | C | KS | C | C | KS | Sample #10 - OPEN |
| BV-26 | LAB SAMPLE 11 ECON INLET | | CRII | O | C | O | C | KS | C | O | KS | Sample #11 - close two valves |
| BV-14 | " BD | | N | | C | C | C | KS | C | C | KS | |
| BV-59 | " Needle Valve | | CRII | O | C | O | C | KS | C | O | KS | |
| BV-15 | LAB SAMPLE 12 Drum BD | | N | O | C | C | C | KS | C | C | KS | Sample #12 - OPEN |
| BV-3 | LAB SAMPLE 13 Seal Stm | | CRII | O | C | O | C | KS | C | O | KS | Sample #13 - Close one valve |
| BV-4 | LAB SAMPLE 14 Main Stm | | CRII | O | C | O | C | KS | C | O | KS | Sample #14 - close two valves |
| BV-16 | " BD | | N | | C | C | C | KS | C | C | KS | |
| BV-26 | " | | CRII | O | C | O | C | KS | C | O | KS | |
| BV-41 | " | | CRII | O | C | O | C | KS | C | O | KS | |
| | | | | | | | | | | | | |
| BV-107 | Sample Recovery Pump Suction | | N | O | C | C | C | KS | C | C | KS | |
| BV-110 | Discharge | | N | O | C | C | C | KS | C | C | KS | |

IP14_005332

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

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBV-142 | BLR SB STM SUPPLY | 18th floor East End - Middle Blr. | N | C | C | O | C | | + | | | |
| 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 | " " " " | 17th 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_005333

ASME TURBINE PERFORMANCE TESTING UNIT #2 Test # 718

Cycle Isolation Check off Sheets

Before Test-Isolation: Start _____ End _____ Name _____

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

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

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

IP14_005334

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

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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_005335

# 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 | | | | | | | |
| BV-43 | SECONDARY SUPERHEAT INTERM. INLET HEADER | " | CR~~III~~ | O | C | | | | | | | |
| BV-45 | " | " | CR~~III~~ | O | C | | | | | | | |
| BV-49 | SECONDARY SUPERHEAT PLATEN OUTLET DRAIN | " | CR~~III~~ | O | C | | | | | | | |
| BV-51 | ROOF INLET HEAD. DRAIN | " | CR~~III~~ | O | C | | | | | | | |
| BV-55 | LWR. CONVEC. PASS HEADER DRAIN | 10th EAST SIDE | CR~~III~~ | O | C | | | | | | | |
| BV-57 | " | " | CR~~III~~ | O | C | | | | | | | |
| BV-65 | DOWNCOMER DRAIN BLOW DOWN | 2nd S. SIDE BOILER | CR~~III~~ | O | C | | | | | | | |
| BV-30 | ECONOMIZER INLET HEADER DRAIN | 10th WEST SIDE | N | C | C | C | C | 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 | | | | |
| BV-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_005336

# 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 | | | | | | | |
| BV-43 | SECONDARY SUPERHEAT INTERM. INLET HEADER | " | CR~~III~~ | O | C | | | | | | | |
| BV-45 | " | " | CR~~III~~ | O | C | | | | | | | |
| BV-49 | SECONDARY SUPERHEAT PLATEN OUTLET DRAIN | " | CR~~III~~ | O | C | | | | | | | |
| BV-51 | ROOF INLET HDR. 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 | | | | |
| BV-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_005338

# 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 & 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 | | | | |
| MBV-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_005339

# 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: 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBV-9 | HP STM to BFPT 1A | Turb Deck NE Corner on BFPT1A | CR I | O | C | | | | | | | |
| MBV-10 | HP STM to BFPT 1B | Turb Deck SW on BFPT1B | CR I | O | C | | | | | | | |
| BV-23 | MBV-9 Bypass | Turb Deck BFPT1A NE | N | C | C | C | C | | | | | |
| BV-24 | MBV-10 Bypass | Turb Deck BFPT 1B SW | N | C | C | C | C | | | | | |
| BV-58 | MStm WARMING LINE | Mezz Deck East of MCC 2A03 | CR III | O | C | | | | | | | |
| MCV-18 | " " " | " | N | C | C | C | C | | | | | |
| MBV-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 | | | | | |
| MBV-55 | " " | " | N | C | C | | C | | | | | |
| MBV-56 | " " | " | N | C | C | | C | | | | | |
| MBV-13 | MStm DRN to BD Tank | " | N | C | C | | C | | | | | |
| MBV-14 | " " " | " | N | C | C | | C | | | | | |
| MBV-25 | " " " | " | N | C | C | | C | | | | | |
| MBV-26 | " " " | " | N | C | C | | C | | | | | |
| MBV-21 | MStm Vent to Atm | 10th floor middle | N | C | C | C | C | | | | | |
| BV 15 | SAMPLE 14 | MEZZ E. END | CR II | O | C | | | | | | | |
| BV 16 | " | MEZZ E END | CR II | O | C | | | | | | | |

IP14_005340

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: SOOT BLOWING P&ID # 25GI-M2070

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACV-26 | SECONDARY SUPERHTR. PLATEN OUTLET HDR. | 18th WEST SIDE BOILER | N | | C | C | C | [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 |
| ACV-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_005341

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

| Valve # | Description | Location | Class | Position Normal | Position Test | Position - Before Test As Found | As left | Initials | Position - After Test As Found | As Left | Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BV-56 | Steam trap 1 INLET ISOL. VLV. | GF 204-B | CR II | O | C | | | | | | | |
| BV-57 | STEAM TRAP 1 OUTLET ISOL. VLV. | " | CR II | O | C | | | | | | | |
| MBV-16 | HOT Reheat DRAIN to DESPRHTR 3 | GF - 204-C | N | C | C | C | C | Dma | | | | |
| MBV-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 | | | | |
| ABV-67 | " | " | N | C | C | C | C | Dma | | | | |
| BV-90 | COND to CRH DSPRHTR 2 | MEZZ | CR II | O | C | | | | | | | |

IP14_005342

HJME 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 | CR III | O | C | | | | | | | |
| BV-31 | LP HTR 2 | | | CR III | O | C | | | | | | | |
| BV-35 | LP HTR 3 | | | CR III | O | C | | | | | | | |
| BV-39 | LP HTR 3 | | | CR III | O | C | | | | | | | |
| BV-43 | LP HTR 4 | | | CR III | O | C | | | | | | | |
| BV-47 | LP HTR 4 | | | CR III | O | C | | | | | | | |
| BV-3 | LP HTR 2 | LP TURB SECTION 1A | BSMT N.E CORNER OF CONDENSER | CR III | O | C | | | | | | | |
| BV-7 | LP HTR 2 | | | CR III | O | C | | | | | | | |
| BV-11 | LP HTR 3 | | | CR III | O | C | | | | | | | |
| BV-15 | LP HTR 3 | | | CR III | O | C | | | | | | | |
| BV-19 | LP HTR 4 | | | CR III | O | C | | | | | | | |
| BV-23 | LP HTR 4 | | | CR III | O | C | | | | | | | |
| BV-51 | LP HTR 2 | LP TURB. SECTION 1C | BSMT. N.W. CORNER OF CONDENSER TOP ROW | CR III | O | C | | | | | | | |
| BV-55 | LP HTR 2 | | | CR III | O | C | | | | | | | |
| BV-59 | LP HTR 3 | | | CR III | O | C | | | | | | | |
| BV-63 | LP HTR 3 | | | CR III | O | C | | | | | | | |
| BV-67 | LP HTR 4 | | | CR III | O | C | | | | | | | |
| BV-71 | LP HTR 4 | | | CR III | O | C | | | | | | | |
| BV-65 | LT. HTR 4 | | BSMT. N.W CORNER CONDENSER CEILING | CR III | O | C | | | | | | | |
| BV-73 | HP HTR's 8A & 8B | | GF - Foot 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) | DEPT 1A | | " | CR I | O | C | | | | | | | |

IP14_005343

HPTL TURBINE PERFORMANCE TESTING UNIT #2 Test # _____

Cycle Isolation Check off Sheets

Name _____

Before Test-Isolation: Start _____ End _____

After Test-Isolation: Start _____ End _____

Date: _____

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

CRITICAL VALVES (Cont.) (2/4)

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

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