

DR030HBP

HWO BROWSE

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TO PAGE:

HWO NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 1-84-1131-01	P-WRK-APPR	ELEC	RMUEBB	015-03	ELECT. COVERS MISSING 5/24/85
OK 1-84-1611-00	P-WRK-APPR	FMD	JMHANS	013-06	PERM. SEAL CORE BORES 5/24/85
OK 1-84-1855-00	P-WRK-APPR	MECH	TATHON	099-09	SHAFT SEAL LEAK. 6/8/85
OK 1-84-2220-00	P-WRK-APPR	WELD	SDHENR	011-01	SW0379-MISSING ON P003-3 6/12/85
OK 1-84-2883-00	P-WRK-APPR	ELEC	JWLONG	015-03	SPRAY SHIELD WALKDOWN
OK 1-84-3002-04	P-WRK-APPR	IC	GLPYZI	028-01	CTRM EVS 1-1 TEST TP641 4/8/85
OK 1-84-3002-05	P-WRK-APPR	IC	GLPYZI	028-01	CTRM EVS 1-2 TEST TP641
OK 1-84-3084-00	P-WRK-APPR	ELEC	APWISE	005-01	CLEAN UP BACK OF BE309 SAC 1
OK 1-84-3173-00	P-WRK-APPR	PIPE	JJONEI	049-02	ROTATIONAL MOVEMENT scrubber
OK 1-84-3305-01	P-WRK-APPR	PIPE	TATHON	022-01	GAGE DDS Acid Strg. Tk
OK 1-84-3324-00	P-WRK-APPR	PIPE	TRISLE	016-04	NN1892 CONTROLS IMPROPER CCW Surge Tk
OK 1-84-3412-00	P-WRK-APPR	MECH	GLPYZI	013-08	DO ST5016.11
OK 1-84-3413-00	P-WRK-APPR	MECH	GLPYZI	042-03	CIRC WTR PMP DAMPERS CLOS
OK 1-84-3503-02	P-WRK-APPR	WELD	SDHENR	011-01	CRCKD WELD-F15-3 R/D LINE SW Pump 3
OK 1-84-3648-00	P-WRK-APPR	IC	TRISLE	014-01	CMPT PT BAD #2 PMP UPR BR TPC Pump 2

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

MWO NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 1-85-0002-01	P-WRK-APPR	ELEC	JWLONG	015-03	RACKING BREAKERS Generic
OK 1-85-0004-01	P-WRK-APPR	ELEC	RWUEBB	015-03	FUSE & LAMP REPLACEMENT Generic
OK 1-85-0013-02	P-WRK-APPR	MECH	MBRAYN	085-07	5PSIG TK PMP #2 BOUNDUP
OK 1-85-0086-01	P-WRK-APPR	PIPE	TATHOM	016-04	FILTER PLUGGED, CRDC
OK 1-85-0121-00	P-WRK-APPR	PIPE	SDHENR	011-01	SW VALVE STUD CORROSION
OK 1-85-0236-01	P-WRK-APPR	ELEC	JAFEHL	060-05	TEMP. S.S. FAN DATA
OK 1-85-0347-01	P-WRK-APPR	ELEC	RWUEBB	099-06	BATTERY SB LOW SG Security
OK 1-85-0374-01	P-WRK-APPR	IC	JMDESA	007-02	GENERIC MWO FREEZE PROT.
OK 1-85-0396-00	P-WRK-APPR	IC	BFHICK	061-01	TEMP PROBE BAD CS Pump 1
OK 1-85-0407-02	P-WRK-APPR	IC	TNGULV	072-01	SEE ACTION DESCRIPTION, Daily CK. 02 Monitors
OK 1-85-0433-00	P-WRK-APPR	IC	RPTOTH	013-09	FIRE DET ALARMING.
OK 1-85-0574-00	P-WRK-APPR	ELEC	APWISE	007-01	DRASTIC INCREASE IN AMPS Cathodic Probe
OK 1-85-0605-00	P-WRK-APPR	IC	GTCHUN	093-02	T489 READS BAD, HP Turb. Thrust Brgs
OK 1-85-0661-02	P-WRK-APPR	IC	BFHICK	079-01	CTMT POST ACC RAD HON 4/4/85 Generic
OK 1-85-0661-03	P-WRK-APPR	IC	BFHICK	079-01	CTMT POST ACC RAD HON 4/4/85 Generic

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

DAVIS-BESSE MAINTENANCE MANAGEMENT SYSTEM

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TO PAGE:

HWO NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 1-85-0727-00	P-WRK-APPR	SERV	SHMURR	099-19	PAINTING IN RACA
OK 1-85-0829-02	P-WRK-APPR	IC	TRISLE	064-03	FY 4338 SATURATED 6/12/85 RCP 2-1 Seal Leakage
OK 1-85-0855-00	P-WRK-APPR	MECH	GLPYZI	029-01	REPAIR TEMP CONTROLLER. Warehouse 1A ✓
OK 1-85-0874-00	P-WRK-APPR	ELEC	APWISE	007-02	BA H/T CKT 98 & 139
OK 1-85-0923-00	P-WRK-APPR	SERV	SHMURR	099-06	PREPARE & CHG. SECR LOCKS
OK 1-85-0949-01	P-WRK-APPR	IC	BFHICK	018-01	STATION AIR COMP SETPOINT
OK 1-85-1073-01	P-WRK-APPR	PIPE	CRANDE	013-03	FP0318 PACKING HARD
OK 1-85-1108-00	P-WRK-APPR	SERV	SHMURR	099-20	IMPRV CHP LAB APPEARANCE
OK 1-85-1111-00	P-WRK-APPR	SERV	SHMURR	099-19	RACA PAINTING
1-85-1169-00	P-WRK-APPR	IC	TRISLE	085-08	AUX BOILER WORK Generic
OK 1-85-1289-00	P-WRK-APPR	FMD	DTELDR	012-01	VERIFY LP SPARES. Lighting Spares
OK 1-85-1297-00	P-WRK-APPR	MECH	GLPYZI	032-04	HIGH VIBRATION - C014-01
OK 1-85-1304-00	P-WRK-APPR	SERV	SHMURR	099-18	PAINT TURBINE RM FLOOR
OK 1-85-1315-00	P-WRK-APPR	SERV	SHMURR	019-03	PAINT FIRE DOORS.
OK 1-85-1355-00	P-WRK-APPR	IC	JADESA	047-01	LPEW HTR LVL CONTROL BAD

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

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MWD NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 1-85-1395-00	P-WRK-APPR	ELEC	JWLONG	005-01	PCB INSPECTION
OK 1-85-1409-00	P-WRK-APPR	IC	TRISLE	043-04	JUMPER RE1003B LO FLOW
OK 1-85-1439-01	P-WRK-APPR	IC	LLMAKA	099-14	CTRL PROB ON CTRM CAMERA
OK 1-85-1498-00	P-WRK-APPR	FMD	DRBREE	099-16	NCR 85-0033
1-85-1547-00	P-WRK-APPR	PIPE	GLPYZI	021-03	E51-1 LEAKS
OK 1-85-1556-00	P-WRK-APPR	IC	BFHICK	048-01	CV5016 SAM LITE NOT FLASH 5/21/85
OK 1-85-1627-00	P-WRK-APPR	FMD	DRBREE	013-09	COND. INTERF. NCR#85-0041
OK 1-85-1627-01	P-WRK-APPR	FMD	DRBREE	099-16	FIREPROOFING NCR#85-0041
OK 1-85-1641-00	P-WRK-APPR	FMD	DRBREE	099-16	FIREPROOFING NCR#85-0039
OK 1-85-1646-02	P-WRK-APPR	IC	JLTABB	064-03	FY 4438 SATURATED 6/10/85 RCP 22 Seal Leakage
OK 1-85-1673-00	P-WRK-APPR	IC	JMDESA	058-01	RC FLOW INPUT TO RPS CH 4 5/15/85
OK 1-85-1691-00	P-WRK-APPR	PIPE	TATHOM	039-01	FILTER NEEDS CHANGED.
OK 1-85-1692-00	P-WRK-APPR	ELEC	APWISE	021-01	WTR TRTMT FD PMP 1-2 STRN
OK 1-85-1724-00	P-WRK-APPR	PIPE	CRANDE	049-02	DH63 PACKING LEAK
OK 1-85-1759-00	P-WRK-APPR	PIPE	KLDIET	099-16	LOOSE BOLTS ON S/S

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

MWD NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 1-85-1773-00	P-WRK-APPR	PIPE	GLPYZI	085-01	P125 LEAKING @ FLANGE
OK 1-85-1775-00	P-WRK-APPR	MECH	GLPYZI	028-01	HV5356B DOESN'T FULL OPEN <i>from Vent.</i>
OK 1-85-1777-00	P-WRK-APPR	PIPE	GLPYZI	030-02	AUTO VENT HEAR AC45 LEAKS
OK 1-85-1780-00	P-WRK-APPR	IC	RPTOTH	013-04	PSH-8818 IS INOPERABLE
OK 1-85-1785-00	P-WRK-APPR	MECH	GLPYZI	032-03	#1 MN EXH FAN VIBR. DATA
OK 1-85-1788-00	P-WRK-APPR	ELEC	JWLONG	015-03	CTRM SMART FIRE CABLES
OK 1-85-1822-00	P-WRK-APPR	FMD	DTELDR	099-20	BUILDING PAINTING.
OK 1-85-1828-00	P-WRK-APPR	IC	RPTOTH	018-01	SOL VLV FOR INST AIR DRY
OK 1-85-1830-00	P-WRK-APPR	FMD	MPBEIE	050-03	NCR 85-0053
OK 1-85-1852-00	P-WRK-APPR	MECH	GLPYZI	028-01	CTRM SYS #2 NOT BALANCED
OK 1-85-1864-00	P-WRK-APPR	MECH	MAKUSN	018-01	3000HR INSPECTION REPAIRS
OK 1-85-1879-00	P-WRK-APPR	ELEC	APWISE	018-01	STA AIR COMP TRIPPED 6/3/85
1-85-1887-00	P-WRK-APPR	IC	JMDESA	036-02	TRBLSHOOT MEPT ¹ TRIP CKT 6/5/85
1-85-1887-01	P-WRK-APPR	IC	JMDESA	036-02	TRBLSHOOT MEPT ⁸ TRIP CKT
OK 1-85-1893-00	P-WRK-APPR	CSYS	JWLONG	031-01	ESSEN BUS C1 VOLT ANNUNC.

7 Strip Chart P. under 2

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

MMO NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
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1-85-1894-00	P-WRK-APPR	PIPE	TATHON	022-01	WT-6763 LEAKAGE.
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OK 1-85-1895-00	P-WRK-APPR	IC	TAGULV	085-06	HV2075 NOT CONTROLLING BA Evap 2
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1-85-1897-00	P-WRK-APPR	IC	JNDESA	036-02	TRBLSHOOT MEPT 2 TRIP Strip Chart Recorders
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OK 1-85-1910-00	P-WRK-APPR	FMD	DRBREE	099-16	OIL DRUM STORAGE PAD
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OK 1-85-1931-01	P-WRK-APPR	PIPE	MAKUSN	018-01	SAC#1 CW SIGHTGLASS DIRTY
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OK 1-85-1933-00	P-WRK-APPR	IC	TRISLE	079-01	INSTALL JUMPER RE 4598BA
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1-85-1934-00	P-WRK-APPR	ELEC	RWUEBB	002-03	RC4401 POWER FUSE
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1-85-1935-00	P-WRK-APPR	IC	JNDESA	036-02	TROUBLESHOOT 6/1/85 <i>mpw</i>
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OK 1-85-1947-00	P-WRK-APPR	ELEC	RWUEBB	098-01	GENERATOR BRUSHES
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OK 2-78-0038-05	P-WRK-APPR	FMD	ASWILS	045-01	REWORK R.O.
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OK 2-79-0421-22	P-WRK-APPR	FMD	HPBEIE	050-01	BOOT-SEALS
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OK 2-79-0421-23	P-WRK-APPR	FMD	HPBEIE	050-01	BOOT SEALS
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OK 2-81-0171-04	P-WRK-APPR	FMD	RPKOCI	071-03	GROUT & PAINT REQ'D
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OK 2-83-0034-02	P-WRK-APPR	FMD	DTELDR	099-06	CORE DRILLS
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OK 2-83-0034-03	P-WRK-APPR	FMD	DTELDR	099-06	INSTALL CONDUIT
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MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

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HMO BROWSE

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TO PAGE:

HMO NUMBER	STATUS	RESP GROUP	RESP ENCR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 2-84-0008-09	P-WRK-APPR	FMD	DTELDR	013-10	REMOVE FD1157.
OK 2-84-0053-01	P-WRK-APPR	FMD	DRBREE	099-16	FIRE WALL RM. 411
OK 2-84-0207-01	P-WRK-APPR	FMD	HPBEIE	084-01	MSR HIGH LEVEL SENSORS
OK 2-85-0033-01	P-WRK-APPR	FMD	DRBREE	099-16	ROOF INCIDENTALS
OK 2-85-0033-02	P-WRK-APPR	FMD	DRBREE	099-16	REPLACE OFF. ROOF
2-85-0087-01	P-WRK-APPR	IC	WHBEHR	050-03	INSTALL TEMP. INST. <i>AFW 6/3/85</i>
OK 3-84-0959-01	P-WRK-APPR	IC	JWRDGE	014-01	LT1588 *CALIB CK*TPCW LVL
OK 3-84-0979-01	P-WRK-APPR	IC	LLMAKA	022-01	LT6707-CALIB CK-NEUT TK
OK 3-85-0133-06	P-WRK-APPR	IC	HRBURN	065-01	AE1999/AR1999 *WKLY PH
OK 3-85-0134-01	P-WRK-APPR	IC	HRBURN	065-01	AE1999*DISCRM & DET CURVE
OK 3-85-0254-06	P-WRK-APPR	IC	LLMAKA	046-01	EXT STEAM HRV WEEKLY PH
OK 3-85-0331-06	P-WRK-APPR	IC	GTCHUN	097-01	CIT2463 *CLN* GEN CONDUCT
OK 3-85-0556-06	P-WRK-APPR	IC	JDWAR	095-03	C4101 *CK* H2 ANALYZ WKLY
OK 3-85-0664-01	P-WRK-APPR	ELEC	JWLONG	004-01	ACD4 *CLN&INSP* SW PHP #3
OK 3-85-0665-01	P-WRK-APPR	ELEC	JWLONG	004-01	ACD5 *CLN&INSP* SW PHP #3

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

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TO PAGE:

HWD NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 3-85-0730-06	P-WRK-APPR	ELEC	RMUEBB	096-01	DAILY MN GEN, EXC, ALTEREX
OK 3-85-0739-01	P-WRK-APPR	CSYS	RMUEBB	015-02	CALIB/INSP*PROT REL/INSTR
OK 3-85-0789-06	P-WRK-APPR	IC	JDSWAR	018-01	*INST AIR RCVR DEW POINT* <i>Generic</i>
OK 3-85-0877-06	P-WRK-APPR	IC	TRISLE	085-08	*CLEAN* AUX BLR FIRE EYE
OK 3-85-0912-02	P-WRK-APPR	IC	GABLUN	007-02	BA & FREZ PROT HEAT TRACE
OK 3-85-0913-02	P-WRK-APPR	IC	GABLUN	007-02	BA & FREZ PROT H/T*CALIB*
OK 3-85-0927-01	P-WRK-APPR	MECH	SDHENR	011-01	F015-03 *LUB* SW STRNR #3
OK 3-85-0933-01	P-WRK-APPR	MECH	SDHENR	011-01	MP0033 *LUB* SW PMP #3
OK 3-85-1170-06	P-WRK-APPR	IC	JHDESA	028-01	AE5358A*DRIP RATE*CTRM CL
OK 3-85-1171-06	P-WRK-APPR	IC	JHDESA	028-01	AE5358B*DRIP RATE*CTRM CL
OK 3-85-1172-06	P-WRK-APPR	IC	JHDESA	028-01	AE4863A*DRIP RATE*CTRM CL
OK 3-85-1173-06	P-WRK-APPR	IC	JHDESA	028-01	AE4863B*DRIP RATE*CTRM CL
OK 3-85-1284-01	P-WRK-APPR	MECH	GLPYZI	032-04	C014-01 *INSP*RAD MST EXH
OK 3-85-1317-01	P-WRK-APPR	MECH	GLPYZI	033-02	*DASHB & CLH* CIRC PHP
OK 3-85-1471-06	P-WRK-APPR	IC	NRBURN	072-01	AE3992*RECHRG&CALIB*02MON

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

MWO NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OV 3-85-1472-06	P-WRK-APPR	IC	MRBURN	072-04	AE4968*RECHRG&CALIB*02H0N
OV 3-85-1781-06	P-WRK-APPR	IC	JWZINH	043-04	DETECTOR FILTER CHANGE
OV 3-85-1782-06	P-WRK-APPR	IC	JWZINH	043-04	DETECTOR FILTER CHANGE
OK 3-85-1811-06	P-WRK-APPR	IC	TRISLE	079-04	RE MONTHLY FILTR CHG
OV 3-85-1812-06	P-WRK-APPR	IC	MRBURN	071-03	RE1878A*CLN&CHNG LINER*
OV 3-85-1813-06	P-WRK-APPR	IC	MRBURN	071-03	RE1878B*CLN&CHNG LINER*
OK 3-85-1814-06	P-WRK-APPR	IC	TRISLE	079-04	RE4597AB*OBSERVE STARTUP*
OK 3-85-1815-06	P-WRK-APPR	IC	TRISLE	079-04	OBSERVE RAD MON STARTUP
OV 3-85-1818-04	P-WRK-APPR	IC	JDSWAR	079-04	RE4598AB-CK-POST ACC VENT
OV 3-85-1819-04	P-WRK-APPR	IC	JDSWAR	079-04	RE4598BB-CK-POST ACC VENT
OK 3-85-1907-04	P-WRK-APPR	IC	LLMAKA	031-04	*CLN/ALIGN* CTRM CRTS
OV 3-85-1913-05	P-WRK-APPR	IC	LLMAKA	031-04	*CLN* MAG TAPE UNITS 1&2
OV 3-85-1914-04	P-WRK-APPR	IC	LLMAKA	031-04	* *10MB DISK DRIVES (2)
OV 3-85-1929-04	P-WRK-APPR	MECH	TATHOM	099-09	SAN LIFT#6 *CLEAN FILTER*
OV 3-85-1974-04	P-WRK-APPR	ELEC	JAFEHL	021-04	*CLN&CK* SEWAGE TRAT HTRS

MORE DATA IS AVAILABLE. DEPRESS FORWARD FOR ACCESS.

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MWO NUMBER	STATUS	RESP GROUP	RESP ENGR	SUBSYS NUMBER	PROBLEM SUMMARY
OK 3-85-2133-01	P-WRK-APPR	MECH	HAKUSH	018-01	C101-01*3000HR INSP*SAC#1
*****	*****	****	*****	*****	*****

YOU HAVE REACHED THE END OF THIS FILE. THERE IS NO MORE DATA AVAILABLE.

PDR 37 98

Preliminary Status Report on Action Plan 1A, 1B
July 10, 1985

Action Plan Description: To identify the root cause for the Auxiliary Feed Pumps overspeed trips.

MWO's Written: 1-85-2131-00
1-85-2132-00

Activities: Step 1.0 thru 1.7 of the Action Plan have been completed. Both AFPT governors were inspected by the Woodward Representative on 7/3/85. No problems were found. The governors were then reassembled.

The remote trip device (Step 1.8) is being procured. The mounting and linkages must be designed and fabricated.

The test procedure (Step 2.1) rough draft is completed.

The data needed to compare the PGG governor vs. the PG-PL governor (Step 3.0 Action Plan 1B only) is being obtained.

Analyses investigating steam condensation in cold steam supply to the AFPT and possible effects on turbine response are in progress.

Summary: The remaining steps of both Action Plans require the plant to be in mode 3. The actual testing will be at that time.

DW:dld

Preliminary Status Report on Action Plan 1D
July 10, 1985

Action Plan Description: Determine the root cause of the problem in relatching the Overspeed Trip Mechanism (OTM) and of opening the Trip and Throttle (T&T) valves of AFPT 1-1 and 1-2 on June 9, 1985.

MWO's Written: 1-85-2063-01 (AFPT 1-1)
1-85-2065-01 (AFPT 1-2)

Activities: Completed steps 1, 2, and 3 of the Action Plan.

Step 4 of the Action Plan to be conducted in plant Mode 3 in conjunction with Action Plans 1A and 1B.

Summary: There were no mechanical deficiencies noted that would prevent the OTM from resetting.

The OTM was properly adjusted.

All mechanism pivot points and components were sufficiently free.

Operator difficulty in resetting the OTM was noted during the investigations. This difficulty is attributed to incomplete understanding of the operation of the OTM.

Existing instructions do not accurately reflect the proper operation of the OTM.

When properly operated, the OTM demonstrated stable, positive resetting.

A complete report of the troubleshooting and investigations conducted to identify the root cause of the problem in relatching the OTM is being prepared.

RJG:lrh

Preliminary Status Report on Action Plan 8
July 10, 1985

Action Plan Description: To identify the root cause for the Main Feed Pump Turbine (MFPT) 1-1, June 9, 1985 trip.

MWO's Written: MWO 1-85-1997-01 was generated to perform Action Plan steps 1, 2, and 3a.

Activities: Troubleshooting started on 6-20-85.

During troubleshooting an electrical check of circuit board 4 was performed. The frequency to voltage (F/V) converter on this board, which provides a voltage corresponding to actual turbine speed, was found to be faulty.

Application of a representative varying input signal to the F/V converter yielded a constant zero voltage output.

Summary: The failure resulted in a zero indicated turbine speed, which in turn resulted in an "increase speed demand" error signal.

This speed error signal will cause the control valves to open further. With control valves farther open than actually required, the MFPT's speed will continue to increase until the emergency governor trips the turbine.

During the week of July 8, 1985, the circuit board will be tested at General Electric Factory, Fitchburg, MA to confirm that the direct cause is an electronic failure of the F/V converter. A troubleshooting and investigation findings report will be submitted after the board has been tested.

DEM:dld

Preliminary Status Report on Action Plan 9a & 9b
July 10, 1985

Action Plan Description: To determine the cause of the Turbine Bypass Valve 2.2 (SP13A2) failure.

MWO's Written: 1-85-1942-02
1-85-1942-03
1-85-1942-04
1-85-1942-05
1-85-1942-06
1-85-1942-07
1-85-1942-08

Activities:

1. Disassembled and inspected steam traps ST3 and ST3A and solenoid actuated drain valve MS2575. These steam traps and drain valve are located on the same main steam header as turbine bypass valve SP13A2. The following conditions were noted:
 - a. ST3 strainer was clogged and considered inoperable.
 - b. ST3A strainer was deformed and the steam trap had failed open.
 - c. MS2575 was found to be in an operable condition with no sign of obstruction.

Preliminary, it appears that while ST3 may not have been operable, drainage of the header could have occurred through ST3A and MS2575, if actuated.

2. Disassembled SP13A2 actuator.
 - a. Available actuator piston travel was determined to be 1 9/32 inch. (This compares to a design travel of 1 9/16 inch.)
 - b. Discoloration of the yoke was noted at the break location.
 - c. Positioner showed no damage other than broken linkage.
3. Disassembled SP13A2 valve.
 - a. Stem was scored at several locations, apparently due to clamping in vise.

Preliminary Status Report on Action Plan 10
July 10, 1985

Action Plan Description: To review the operation of the PORV.

MWO's Written:

Activities:

The PORV was removed from the system and disassembled on 7/6/85.

- Valve inspection was completed. No corrosion products or debris was found that could have caused the valve to stick open.
- Measurements were taken on the valve. All clearances appeared proper. We are still evaluating the dimensions to determine if they are acceptable.

Summary:

We have compared the pressure signal to the PORV control circuit to the other pressure signals and verified it tracked those signals during the transient. Even though the signal tracked during the event, we plan to verify proper calibration. We also plan to verify the control circuits are functioning properly.

We are currently planning to reinstall the valve and perform a functional test. We are still in the process of developing the detailed tests to be run in Mode 3.

TRI:lrh

Preliminary Status Report on Action Plan 12
July 10, 1985

Action Plan Description: To identify the root cause for the failure of AFW valves AF599 and AF608 to open.

MWO's Written:	1-85-1941-01	Inspect and test AF599
	1-85-1941-02	Test AF599 at 1050 psid
	1-85-1945-01	Inspect and test AF608
	1-85-1945-02	Test AF608 at 1050 psid

Activities:	- 6/18/85 - AF608 was inspected and tested using MOVATS at 0 psig
	- 6/19/85 - AF599 was inspected and tested using MOVATS at 0 psig
	- 7/5/85 - AF608 was tested using MOVATS at 1050 psig
	- 7/6/85 - AF599 was tested using MOVATS at 1050 psid
	- 7/8/85 - The spring packs for both valves were inspected

NOTE: MOVATS provides detailed information about valve operator performance.

Summary:

The motor operator torque limit switch bypass contacts on both valves were determined to be opening prior to the valves unseating. This bypass switch is used to permit higher torques during initial valve opening. The premature opening of the bypass contacts is considered to be the direct cause of the valves failing to open.

Based on the test results, it also appears that the recommended torque switch settings and the procedure for setting the bypass contacts may be erroneous.

The spring pack locknut for AF599 was installed backwards with no setscrew installed. The AF608 spring pack was lightly preloaded. These two findings had no effect on the June 9th anomalies.

JWL:lrh

Preliminary Status Report on Action Plans 15A-1 & 15A-2
July 10, 1985

Action Plan Description: To identify the root cause for the intermittent elevated count rate of (15A-1) and the intermittent spiking (15A-2) of NI-1, Source Range Nuclear Instrumentation.

MWO's Written: 1-85-2092-00 Pulse/Noise data *for NI-1
 1-85-2092-01 Cable checks for NI-1
 1-85-2192-00 Pulse/Noise data for NI-2
 1-85-2192-01 Cable checks for NI-2

Activities: Commenced troubleshooting NI-1. Obtained baseline traces of pulses and noise using both plant equipment and a vendor supplied, faster response digital oscilloscope (per Action Plan Item 1A) without presence of elevated count rate.

Met with Ohio State University personnel cognizant of pulse instrumentation to discuss possible causes for NI noise spiking and inoperability.

Summary: No MWO's have yet been written to investigate the spiking problem as outlined in Action Plan 15A-2. No root causes have yet to be identified for the elevated count rate, Action Plan 15A-1. The data obtained for these MWO's will be presented to OSU personnel for evaluation and analysis. The results obtained will determine/plan next step in identifying root cause.

MLB:lrh

Preliminary Status Report on Action Plan 15B
July 10, 1985

Action Plan Description: To identify the root cause for the failure of NI-2 Count Rate level indication during and subsequent to the June 9, 1985 trip.

MWO's Written: 1-85-2030-00

Activities: Completed source range functional test, ST 5091.01, to demonstrate operability of NI-2 on 6/9/85.

- Commenced troubleshooting NI-2 on 7/5/85.
- Attempted to reproduce failure on NI-2, Count Rate level indication by switching Detector High Voltage "ON" and "OFF". Attempt was unsuccessful.
- Attempted to reproduce failure of NI-2 Count Rate level indication by tapping on associated modules and connectors. Attempt was unsuccessful.
- Attempted to reproduce failure of NI-2 Count Rate level indication by opening and closing RPS cabinet doors. Attempt was unsuccessful.

Summary:

Plan to continue attempts at reproducing the failure of NI-2 Count Rate level indication. We will be unable to determine root cause of failure without first reproducing the failure condition. Future plans include installing a strip chart recorder to monitor the output of the Count Rate Amplifier module and attempting to reproduce the failure of NI-2 by tripping and resetting the high voltage cutoff bistables.

JD:dd

Preliminary Status Report on Action Plan 16
July 10, 1985

Action Plan Description: Determine root cause of erratic pressure control experienced in both main steam headers following closure of main steam isolation valves.

MWO's Written: 1-85-2190-00
1-85-2152-00

Activities: Performed visual inspection of non-nuclear instrumentation and Integrated Control System (ICS) cabinets containing control circuitry for the atmospheric vent valves. No abnormalities noted.

Performed string check of ICS modules (Item 4.a) controlling atmospheric vent valves (AVVs). Two modules associated with AVV #2 were found to be out of calibration. As a result of the out-of-calibration condition, the AVV open setpoint would be at about 1030 psig rather than 1015 psig as desired. This condition would not explain the erratic pressure control observed during the June 9, 1985 event.

Performed operational check of hand/auto station in Control Room (Item 4.b). Satisfactory operation observed.

Held meeting with MSSV vendor (Dresser) and MPR Associates to review MSSV operating and maintenance history. Determined that inlet bore size to MSSVs is smaller than Dresser states is basis for valve rating. Initial judgement is that this should not affect proper operation of MSSV.

Summary: The findings to date do not explain the observed conditions. The action plan for investigating and troubleshooting is continuing.

LH:dd

Preliminary Status Report on Action Plan 18
July 10, 1985

Action Plan Description: To determine if there were problems with the operation of the Main Feedwater #2 Startup-Control Valve (SP-7a) or its controls.

MWO's Written: 1-85-2112-00 in Closeout
1-85-2113-00 in Scheduling

Activities: Work Completed:

F-868, Main Feedwater loop 2 startup uncompensated flow instrument string was checked for proper calibration and found to be within specified tolerance for low flow (below 25 inches of water pressure differential over the flow element).

FTSP3A, the associated flow transmitter, was pressurized to 1000 psig to check for a shift in the output voltage at operating pressure. A maximum shift of 50 mv was noted, but in the negative (toward 0 flow) direction. This shows that the indicated flow was lower than the actual flow. Indications are that this was not a contributing factor to the anomaly.

Summary:

Calibration checks show the indicated flow through SP-7A to be accurate for the flow range indicated after the SFRCS trip during the transient.

Preliminary study of computer point output, shows that there was flow through SP-7A as the valve opened upon demand.

Projected Work:

Operate SP-7A and verify proper response to control signals, and trip reset.

Check calibration of SP-7A to determine if the valve position is what the demand signal is calling for.

TG:dld

Preliminary Status Report on Action Plan 26
July 10, 1985

Action Plan Description: To determine the root cause for the inadvertent Auxiliary Feedwater #1 suction supply transfer.

MWO's Written: 1-85-2130-00 in Closeout
1-85-2133-00 in Closeout
1-85-2144-00 in Scheduling Process
1-85-2146-00 in Scheduling Process

Activities: Visual inspections and photographs taken of the following:

PSL4928A, PSL4928B, PSL503 (Auxiliary Feedwater 1-1 suction pressure switches)

PSL4929A, PSL4929B, PSL507 (Auxiliary Feedwater 1-2 suction pressure switches)

Calibration check and time response on the following Auxiliary Feedwater suction pressure switches:

Pressure switches in Auxiliary Feedwater 1-1 suction supply were found in tolerance.

Pressure switch PSL507 in Auxiliary Feedwater 1-2 suction supply was found out of tolerance. This finding does not identify a direct cause because this pressure switch is in Auxiliary Feedwater 1-2 suction header. Pressure switches PSL 4928A and PSL 4928B were found in tolerance.

The time response (actuation and reset) of the 11 psi alarm pressure switches PSL503 and PSL507 is quicker than the computer scan rate. This could explain the lack of a computer alarm prior to the auxiliary feedwater #1 suction supply transfer.

Summary:

None of the above findings establish the direct cause of the Auxiliary Feedwater suction supply transfer. Work is continuing to complete the action plan.

Auxiliary Feedwater strainers 5201, 5206, and 5257 will be removed and inspected.

ST 5071.13 (Auxiliary Feedwater System channel functional test) will be performed for Auxiliary Feed Pumps 1-1 and 1-2.

A corrective action plan and MWO will be written to recalibrate PSL507.

Auxiliary Feedwater 1-1 and 1-2 suction pressure switches will be monitored during Auxiliary Feed Pump testing by connecting chart recorders across the pressure switch contacts.

TC:dld

Preliminary Status Report on Action Plan 27
July 10, 1985

Action Plan Description: To determine the root cause for the apparent interruption of the open control circuit to Auxiliary Feed Pump Turbine 1-1 Main Steam Inlet Valve Isolation Valve MS-106.

MWO's Written: 1-85-2105-00 Action Plan 27 - MS-106

Activities:

- Commenced testing and inspection of MS-106 valve, starter D135, and PSL-4930A
- Performed wiring checks of MS-106, starter D135 and PSL-4930A
- Performed as-found calibration check and functional check of PSL-4930A
- Stroked MS-106 with MOVATS monitoring operation of MS-106. MOVATS provides detailed information about valve operator performance.
- Steps 1 through 17 summarized above, of Action Plan 27, Rev. 1 are completed. Step 18 is yet to be completed. Step 18 requires valve testing under system operating parameters.

Preliminary Findings:

1. A loose connection was found between the wire terminal and the stud on the limit switch contact which is used for MS-106 alarm position indication.
2. Wiring discrepancies between as-found wiring of MS-106 and wiring diagram.
3. Wiring discrepancies between as-found wiring of the starter D135 and wiring diagram.
4. Unnecessary gap between the spring pack locknut and outer thrust washer.
5. Packing gland flange cocked to one side.

Summary: Of the findings, items 1, 2, and 3 do not appear to have had an influence on the operation of MS-106 during the June 9, 1985 transient.

Item #4 may have had an influence on the operation but to what extent is not yet known.

A preliminary assessment indicates that MS-106 probably stopped opening in midstroke due to open torque switch activation. MS-106 would then have driven closed. This would account for the apparent shorter operating stroke time noted on

PDR
108

Preliminary Status Report on Action Plan 10
July 10, 1985

Action Plan Description: To review the operation of the PORV.

MWO's Written:

Activities:

The PORV was removed from the system and disassembled on 7/6/85.

- Valve inspection was completed. No corrosion products or debris was found that could have caused the valve to stick open.
- Measurements were taken on the valve. All clearances appeared proper. We are still evaluating the dimensions to determine if they are acceptable.

Summary:

We have compared the pressure signal to the PORV control circuit to the other pressure signals and verified it tracked those signals during the transient. Even though the signal tracked during the event, we plan to verify proper calibration. We also plan to verify the control circuits are functioning properly.

We are currently planning to reinstall the valve and perform a functional test. We are still in the process of developing the detailed tests to be run in Mode 3.

Note:

During initial inspection three of eight bolts on the inlet flange were loose. No leakage evidence was noted. We feel this condition did not effect PORV operation during the transient.
(Added 7/15/85)

TRI:lrh

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AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
CTMT H ₂ CONC		AY1-5027	0-10 VDC	2	C	M-29B	0-10
A302	AE-5027	CS763A	0-10 VDC	127 & 128	3	J-102 Sh. 54	%
CS PMP 1 DISCH FLOW	ORIFICE	FY-1547	1-5 VDC	2	B	M-034	0-2000
F283	FE-1547	CS758C	1-5 VDC	79 & 80	5	J-102 Sh. 41	GPM
CS PMP 2 DISCH FLOW	ORIFICE	FY-1535	1-5 VDC	2	B	M-043	0-2000
F291	FE-1535	CS758F	1-5 VDC	82 & 83	7	J-102 Sh. 40	GPM
HP INJ 1-1 FLOW	NOZZLE	FY-RF03C	±10 VDC	1	A	M-033	0-500
F461	FE-RF03C	CS760	±10 VDC	25 & 26	24	J-102 Sh. 33	GPM
HP INJ 1-2 FLOW	NOZZLE	FY-RF03D	±10 VDC	1	A	M-033	0-500
F464	FE-RF03D	CS760	±10 VDC	28 & 29	22	J-102 Sh. 34	GPM

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DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
HP INJ 2-1 FLOW	NOZZLE	FY-HP03A	±10 VDC	1	A	M-033	0-500
F467	FE-HP03A	C5759	±10 VDC	19 & 20	13	J-102 Sh.36	GPM
HP INJ 2-2 FLOW	NOZZLE	FY-HP03B	±10 VDC	1	A	M-033	0-500
F470	FE-HP03B	C5759	±10 VDC	22 & 23	11	J-102 Sh.35	GPM
LP INJ 2 FLOW	ORIFICE	FY-DH02A	±10 VDC	1	A	M-033	0-5000
F592	FE-DH02A	C5759	±10 VDC	13 & 14	17	J-102 Sh.37	GPM
LP INJ 1 FLOW	ORIFICE	FY-DH02B	±10 VDC	1	A	M-033	0-5000
F593	FE-DH02B	C5760	±10 VDC	16 & 17	15	J-102 Sh.38	GPM
MN FW 1 COMP FLOW	BY6241	FY-SP02B1	±10 VDC	2	A	M-007	0-7000
F674	FT-SP02B1	C5759	±10 VDC	43 & 44	6	J-102 Sh.4	KPPH

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AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE IS #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
MN FW 2 COMP FLOW	BY1241A	FY-SP02A1	±10 VDC	2	A	M-007	0-7000
F679	FT-SP02A1	C5759	±10 VDC	40 & 41	4	J-102 Sh.5	KPPH
RC LOOP 1 MLG FLOW		FY-RC01B	±10 VDC	1	B	M-030B	0-90
F727	FT-RC01B	C5760	±10 VDC	55 & 56	19	J-102 Sh.15	MPPH
RC LOOP 2 HLG FLOW		FY-RC01A	±10 VDC	1	B	M-030B	0-90
F732	FT-RC01A	C5759	±10 VDC	52 & 53	21	J-102 Sh.14	MPPH
SG 1 AFW FLOW		FY-4630	1-5 VDC	2	C	M-007	0-1000
F874	FT-4630	C5763A	1-5 VDC	142 & 143	4	J-103 Sh.1	GPM
SG 2 AFW FLOW		FY-4631	1-5 VDC	2	C	M-007	0-1000
F875	FT-4631	C5755G	1-5 VDC	139 & 140	2	J-103 Sh.2	GPM

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DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
MN FW 1 SU FLOW		FY-SP03B	±10 VDC	2	A	M-007	0-1500
F878	FT-SP03B	C5760	±10 VDC	28 & 29	5	J-102 Sh.13	KPPH
MN FW 2 SU FLOW		FY-SP03A	±10 VDC	2	A	M-007	0-1500
F879	FT-SP03A	C5759	±10 VDC	25 & 26	3	J-102 Sh.12	KPPH
GEN GROSS PWR	WATT XDCR	JT-6003	0-100 mVDC	1	A		0-1200
J427	JT-6003	C5760C	0-10 VDC	10 & 11	19	J-102 Sh.44	MWE
BWST LVL SFAS CH 1	FX/E130M	LI-1525A	20-100 mVDC	1	A	M-033	0-50
L062	LI-1525A	C5716	0-10 VDC	4 & 5	23	J-102 Sh.39	FT
CTMT NORM SUMP LVL, CH 2		LY-4617	1-5 VDC	2	C	M-033	0-4
L318	LE-4617	C5755G	1-5 VDC	130 & 131	5	J-100 Sh.1	FT

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DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
CTMT WR LEVEL, CH 1		LY-4595C	0-10 VDC	2	C	M-033	538.3 - 588.3
L321	LT-4595	C5763A	0-10 VDC	133 & 134	7	J-104 Sh.1	FT
HILMS LOOP 2 HLG LVL, CH 2			2-10 VDC	1	D	M-030A	-35 - 0
L721	LT-5448A		2-10 VDC	157 & 158	11		PSID
RC MU TK LVL	(RM) BY8230A	LY-MU16-1	±10 VDC	1	A	M-031	0-100
L761	LT-MU16-1	C5759	±10 VDC	31 & 32	20	J-102 Sh.32	IN
RC PRZR COMP LVL	(RM) BY3340X	LY-RC14	±10 VDC	1	B	M-030A	0-320
L768	LT-RC14-1	C5760	±10 VDC	67 & 68	11	J-102 Sh.24	IN
RC PRZR QUENCH TK LVL	(RM) 1151DP	LT225	0.200 to 1.000 VDC	2	C	M-040A	0-10

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AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
L775	LT225	CTMT 565'-0"	1-5 VDC	145 & 146	6	J-106 Sh.3	FT
SG 1 OPERATE LVL	(BM) BY8B41X	LY-SP09B1	±10 VDC	2	B	M-007	0-100
L881	LT-SP09B1	C5759	±10 VDC	73 & 74	1	J-102 Sh.18	%
SG 1 SU RANGE LVL	(BM) BY8B41X	LY-SP9B3	±10 VDC	2	B	M-007	0-250
L883	LT-SP09B3	C5760	±10 VDC	76 & 77	3	J-102 Sh.6	IN
SG 2 OPERATE LVL	(BM) BY8B41X	LY-SP9A1	±10 VDC	2	A	M-007	0-100
L891	LT-SP9A1	C5759	±10 VDC	46 & 47	8	J-102 Sh.19	%
SG 2 SU RANGE LVL	(BM) BY8B41X	LY-SP9A3	±10 VDC	2	A	M-007	0-250
L893	LT-SP9A3	C5759	±10 VDC	49 & 50	10	J-102 Sh.7	IN
AFP 1 DISCH PRESS	(GE) 556	PI-505	20-100 mVDC	2	B	M-006B	0-1500

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DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
P001	PT-505	C5709	0-10 VDC	91 & 92	4	J-102 Sh.2	PSIG
AFP 2 DISCH PRESS	(GE) 556	PI-509	20-100 mVDC	2	B	M-006B	0-1500
P004	PT-509	C5709	0-10 VDC	94 & 95	6	J-102 Sh.3	PSIG
CTHT WR PRESS, CH 1		PY-4587A	0-10 VDC	2	C	M-029B	0-200
P305	PT-4587	C5763A	0-10 VDC	136 & 137	9	J-105 Sh.1	PSIA
RC LOOP 1 HLG WR PRESS, SFAS CH 3	(FX) E11GH	FP-302	20-100 mVDC	1	B	M-030	0-2500
P725	PT-RC02B3	C5763	0-10 VDC	73 & 74	22	J-102 Sh.17	PSIG
RC LOOP 2 HLG WR PRESS, SFAS CH 2	(FX) E11GH	FP-202	20-100 mVDC	1	B	M-030B	0-2500
P732	PT-RC02A4	C5755C	0-10 VDC	70 & 71	24	J-102 Sh.16	PSIG
RC PRZR QUENCH TK PRESS	(RM) 1151GP	PT-224	20-100 mVDC	1	A	M-040A	0-200

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AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
P770	PT-224	CTMT 565'0"	0-10 VDC	7 & 8	21	J-102 Sh.42	PSIG
SG 1 OUT STM PRESS	(FX) E11GH-S	PY-SP12B2	±10 VDC	2	A	M-007	0-1200
P932	PT-SP12B2	C5759	±10 VDC	34 & 35	9	J-102 Sh.20	PSIG
SG 2 OUT STM PRESS	(FX) E11GH-S	PY-SP12A1	±10 VDC	2	A	M-007	0-1200
P936	PT-SP12A1	C5760	±10 VDC	31 & 32	7	J-102 Sh.21	PSIG
CTMT NORM RG PRCLT RAD	(KS) SKID	RY-4597AAA	0-10 VDC	1	D	M-029C	10 ⁻¹⁰ to 10 ⁻²
R291	RE-4597AAA	C5763B	0-10 VDC	136 & 137	25	J-115 Sh.1	MC/cc
CTMT NORM RG I-131 RAD	(KS) SKID	RY-4597AAB	0-10 VDC	1	D	M-029C	10 ⁻¹⁰ to 10 ⁻²
R292	RE-4597AAB	C5763B	0-10 VDC	139 & 140	23	J-115 Sh.1	MC/cc
CTMT NORM RG XE-133 RAD	(KS) SKID	RY-4597AAC	0-10 VDC	1	D	M-029C	10 ⁻⁸ to 10 ⁰

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AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
R293	RE-4597AAC	C5763B	0-10 VDC	142 & 143	21	J-115 Sh.1	MC/cc
CTMT MID/HI RG XE-133 RAD	(KS) SKID	RY-4597ABC	0-10 VDC	1	D	M-029C	10 ⁻³ to 10 ⁵
R294	RE-4597ABC	C5763B	0-10 VDC	145 & 146	19	J-115 Sh.2	MC/cc
CTMT HI RG AREA RAD CH 1	(GA) RP23A	RY-4596A	0-10 VDC	2	D	M-029B	10 ⁰ to 10 ⁸
R299	RE-4596A	C5763B	0-10 VDC	187 & 188	9	J-119	R/HR
RPS AUCTIONEERED AVG PWR		AUCTIONEER PWR	0-10 VDC	1	B		0-125
R790		AUCTIONEER PWR	0-10 VDC	58 & 59	17	J-102 Sh.4.3	%
RPS CH 1 PR NI6 FLUX	(BM) RY211	SUMMING AMP	0-10 VDC	1	A		0-125
R795	NI-NI06	C5762	0-10 VDC	37 & 38	16	J-102 Sh.4.5	%

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DAVIS-BESSE UNIT 1
AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
RPS CH 1 SR NI2 FLUX	(BM) RY110	COUNT RATE AMP	0-10 VDC	1	A		-1 to 6
R796	NI-NI02	C5762	0-10 VDC	43 & 44	12	J-102 Sh.46	LOG CPS
RPS CH 2 PR NI5 FLUX	(BY) RY211	SUMMING AMP	0-10 VDC	1	A		0-125
R804	NI-NI05	C5755	0-10 VDC	40 & 41	14	J-102 Sh.47	%
RPS CH 2 SR NI1 FLUX	(BM) RY110	COUNT RATE AMP	0-10 VDC	1	A		-1 to 6
R805	NI-NI01	C5755	0-10 VDC	34 & 35	18	J-102 Sh.48	LOG CPS
RPS CH 3 IR NI4 FLUX	(BM) RY110	LOG AMPLIFIER	0-10 VDC	1	B		-11 to -3
R812	NI-NI04	C5763	0-10 VDC	61 & 62	15	J-102 Sh.49	LOG AMPS
RPS CH 3 PR NI8 FLUX	(BM) RY211	SUMMING AMPLIFIER	0-10 VDC	1	B		0-125

DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
R814	NI-NI08	C5756	0-10 VDC	49 & 50	23	J-102 Sh.50	%
RPS CH 4 IR NI3 FLUX	(BM) RY110	LOG AMPLIFIER	0-10 VDC	1	B		-11 to -3
R818	NI-NI03	C5756	0-10 VDC	64 & 65	13	J-102 Sh.51	LOG AMPS
RPS CH4 PR NI7 FLUX	(BM) RY211	SUMMING AMPLIFIER	0-10 VDC	1	B		0-125
R820	NI-NI07	C5756	0-10 VDC	46 & 47	25	J-102 Sh.52	%
UNIT VENT NORM PRCLT	KS/SKID	RY-4598AAA	0-10 VDC	2	D		-10 to -2
R844	RE4598AAA	C5763B	0-10 VDC	190 & 191	2	J-107, Sh.1	LMC/cc
UNIT VENT NORM I-131	KS/SKID	RY-4598AAB	0-10 VDC	2	D		-10 to -2
R845	RE-4598AAB	C5763B	0-10 VDC	193 & 194	4	J-117, Sh.1	LMC/cc

DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	F&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
UNIT VENT NORM XE-133	KS/SKID	RY-4598AAL	0-10 VDC	2	D		-8 to 0
R846	RE4598AAC	CS763B	0-10 VDC	196 & 197	6	J-117, Sh.1	LMC/cc
UNIT VENT MID/HI XE-133	KS/SKID	RY-4598ABC	0-10 VDC	2	D		-3 to 5
R847	RE4598ABC	CS763B	0-10 VDC	202 & 203	10	J-117, Sh.2	LMC/cc
AFPT #1 SPEED		SY-815	20-100 mVDC	2	C	M-024B	0-5000
S008	ST-815	AUX BLDG 565' -0"	0-10 VDC	124 & 125	1	J-102 Sh.30	RPM
AFPT #2 SPEED		SY-816	20-100 mVDC	2	A	M-024B	0-5000
S018	ST-816	AUX BLDG	0-10 VDC	22 & 23	1	J-102 Sh.31	RPM
INCORE OUT TEMP F3	TC TYPE K	TY-1M03FB	0-10 VDC	1	C	M-030B	0-2300

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DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	F&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
TS14	TE-IM03F	C5763A	0-10 VDC	91 & 92	25	J-101 Sh.6	°F
INCORE OUT TEMP L3	TC TYPE K	TY-IM03LA	0-10 VDC	1	C	M-030B	0-2300
TS15	TE-IM03L	C5755G	0-10 VDC	94 & 95	23	J-101 Sh.12	°F
INCORE OUT TEMP G5	TC TYPE K	TY-IM05GA	0-10 VDC	1	C	M-030B	0-2300
TS20	TE-IM05G	C5763A	0-10 VDC	97 & 98	21	J-101 Sh.6	°F
INCORE OUT TEMP K5	TC TYPE K	TY-IM05KA	0-10 VDC	1	C	M-030B	0-2300
TS22	TE-IM05K	C5755G	0-10 VDC	100 & 101	19	J-101 Sh.12	°F
INCORE OUT TEMP C6	TC TYPE K	TY-IM06CA	0-10 VDC	1	C	M-030B	0-2300
TS24	TE-IM06C	C5755G	0-10 VDC	103 & 104	17	J-101 Sh.12	°F
INCORE OUT TEMP O6	TC TYPE K	TY-IM06OA	0-10 VDC	1	C	M-030B	0-2300

DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	COMPUTER POINT #	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	CABINET NUMBER	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	LOOP DIAGRAM	UNIT	PROCESSED RANGE
TS27		TE-IM060	C5763A		0-10 VDC	106 & 107	15	J-101 Sh.6		°F	
INCORE OUT TEMP E7		TC TYPE K	TY-IM07EA		0-10 VDC	1	C	M-030B		0-2300	
TS30		TE-IM07E	C5755G		0-10 VDC	109 & 110	13	J-101 Sh.12		°F	
INCORE OUT TEMP M7		TC TYPE K	TY-IM07MB		0-10 VDC	1	C	M-030B		0-2300	
TS32		TE-IM07M	C5763A		0-10 VDC	112 & 113	11	J-101 Sh.6		°F	
INCORE OUT TEMP E9		TC TYPE K	TY-IM09EA		0-10 VDC	1	C	M-030B		0-2300	
TS39		TE-IM09E	C5763A		0-10 VDC	115 & 116	24	J-101 Sh.5		°F	
INCORE OUT TEMP M9		TC TYPE K	TY-IM09MA		0-10 VDC	1	C	M-030B		0-2300	
TS42		TE-IM09M	C5755G		0-10 VDC	118 & 119	22	J-101 Sh.11		°F	
INCORE OUT TEMP C10		TC TYPE K	TY-IM10CA		0-10 VDC	1	C	M-030B		0-2300	

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DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	F&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
T544	TE-IM10C	CS763A	0-10 VDC	121 & 122	20	J-101 Sh. 5	°F
INCORE OUT TEMP O10	TC TYPE K	TY-IM100A	0-10 VDC	1	C	M-030B	0-2300
T547	TE-IM100	CS755G	0-10 VDC	124 & 125	18	J-101 Sh. 11	°F
INCORE OUT TEMP G11	TC TYPE K	TY-IM116A	0-10 VDC	1	C	M-030B	0-2300
T550	TE-IM11G	CS755G	0-10 VDC	127 & 128	16	J-101 Sh. 11	°F
INCORE OUT TEMP K11	TC TYPE K	TY-IM11KA	0-10 VDC	1	C	M-030B	0-2300
T551	TE-IM11K	CS763A	0-10 VDC	130 & 131	14	J-101 Sh. 5	°F
INCORE OUT TEMP F13	TC TYPE K	TY-IM13FA	0-10 VDC	1	C	M-030B	0-2300
T557	TE-IM13F	CS7	0-10 VDC	133 & 134	12	J-101 Sh. 11	°F
INCORE OUT TEMP L13	TC TYPE K	TY-IM13LA	0-10 VDC	2	D	M-030B	0-2300

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DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
T560	TE-1M13L	C5763A	0-10 VDC	199 & 200	8	J-101 Sh. 5	°F
MN FW TEMP TO ICS	RTD-2	TT-SP1-1	±10 VDC	2	A	M-007	0-600
T671	TE-SP-1	C5759	±10 VDC	37 & 38	2	J-102 Sh. 22	°F
RC AVG NR TEMP	(BM) SUMMER	TYT-RC07	±10 VDC	1	B	M-030A	520-620
T709	TYT-RC07	C5759	±10 VDC	88 & 89	12	J-102 Sh. 29	°F
RC HLG SUBCOOLED, CH 1		TY-4951	0-10 VDC	2	D		-1024 to 1024
T751	TDY-4951	C5763B	0-10 VDC	178 & 179	3	J-107 Sh. 10	°F
RC HLG SUBCOOLED, CH 2		TY-4950	0-10 VDC	2	D		-1024 to 1024
T752	TDY-4950	C5755A	0-10 VDC	181 & 182	5	J-107 Sh. 11	°F
RC LOOP 1 HLG NR TEMP, CH 1	RTD-2	TY-RC385A	1-5 VDC	2	D	M-030A	120-920

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DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
T753	TE-RC3B5	C5763A	1-5 VDC	184 & 185	7	J-107 Sh.5	°F
HILMS LOOP 2 REF LEG TEMP, CH 2							
T768	TE-5449A		2-10 VDC	1	D	M-030A	100-300
RC PRZR TEMP							
T777	RTD-2	TT-RC15-2	±10 VDC	1	A	M-030A	0-700
	TE-RC15-2	C5760	±10 VDC	1 & 2	25	J-102 Sh.23	°F
RCP 1-1 DISCH CLG WR TEMP	RTD-2	TY-RC4B2	±10 VDC	1	B	M-030	50-650
T781	TE-RC4B2	C5759	±10 VDC	82 & 83	16	J-102 Sh.27	°F
RC LOOP 2 HLG WR TEMP CH 1	RTD-2	TY-RC3A5A	1-5 VDC	2	D	M-030A	120-920
T782	TE-RC3A5	C5763A	1-5 VDC	175 & 176	1	J-107 Sh.10	°F
RCP 1-2 DISCH CLG WR TEMP	RTD-2	TY-RC4B4	±10 VDC	1	B	M-030	50-650

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DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
T801	TE-RC4B4	C5760	±10 VDC	85 & 86	14	J-102 Sh.28	°F
RCP 2-1 DISCH CLG WR TEMP	RTD-2	TY-RC4A2	±10 VDC	1	B	M-030	50-650
T821	TE-RC4A2	C5759	±10 VDC	76 & 77	20	J-102 Sh.25	°F
RCP 2-2 DISCH CLG WR TEMP	RTD-2	TY-RC4A4	±10 VDC	1	B	M-030	50-650
T841	TE-RC4A4	C5760	±10 VDC	79 & 80	18	J-102 Sh.26	°F
SG 1 OUT STM TEMP	RTD	TT-614	0.200 to 1.000 VDC	2	C	M-007	0-700
T885	TE-614	C5758C	1-5 VDC	148 & 149	8	J-106, Sh.2	°F
SG 2 OUT STM TEMP	RTD	TT-613	0.200 to 1.000 VDC	2	C	M-007	0-700
T901	TE-613	C5758F	1-5 VDC	151 & 152	10	J-106, Sh.2	°F

DAVIS-BESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	P&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
MN FW 1 CTRL VLV	(BM) 131327	ZT-SP06B	±10 VDC	2	B	M-007	0-100
Z673	ZT-SP06B	HEATER BAY 603' -0"	±10 VDC	85 & 86	9	J-102 Sh. 8	% OPEN
MN FW 1 SU CTRL VLV	(BM) 131327	ZT-SP07B	±10 VDC	2	B	M-067	0-100
Z675	ZT-SP07B	HEATER BAY 603' -0"	±10 VDC	100 & 101	10	J-102 Sh. 10	% OPEN
MN FW 2 CTRL VLV	(BM) 131327	ZT-SP06A	±10 VDC	2	B	M-007	0-100
Z678	ZT-SP06A	HEATER BAY 603' -0"	±10 VDC	88 & 89	2	J-102 Sh. 9	% OPEN
MN FW 2 SU CTRL VLV	(MB) 131327	ZT-SP07A	±10 VDC	2	B	M-007	0-100
Z680	ZT-SP07A	HEATER BAY 603' -0"	±10 VDC	97 & 98	8	J-102 Sh. 11	% OPEN

DAVIS-PESSE UNIT 1

AVAILABLE INPUTS FOR SAFETY PARAMETER DISPLAY SYSTEM (SPDS)

DESCRIPTION	SOURCE TYPE	INSTRUMENT INPUTTING TO VALIDYNE	INPUT VALIDYNE	VALIDYNE TB #	VALIDYNE MUX	F&ID	PROCESSED RANGE
COMPUTER POINT #	SOURCE NUMBER	CABINET NUMBER	OUTPUT VALIDYNE	TERMINATION NUMBER	VALIDYNE CARD	LOOP DIAGRAM	UNIT
PRZR PWR RLF VLV	DIGITAL	RAA-4263A	0 or 24 VDC	3	H	<i>M-030A</i>	BIT 0/1
2765	ZE-4263	C5763B		154 & 155	1A	J-102 Sh.53B	OP/CL
RC PRZR PRESS RLF VLV 13-2	DIGITAL	RBA-4265A	0 or 24 VDC	3	H	<i>M-030A</i>	BIT 0/1
2766	ZE-4265	C5763B		156 & 157	1B	J-102 Sh.53B	OP/CL
RC PRZR PRESS RLF VLV 13-1	DIGITAL	RCA-4267A	0 or 24 VDC	3	H	<i>M-030A</i>	BIT 0/1
2767	ZE-4267	C5763B		158 & 159	1C	J-102 Sh.53B	OP/CL

10: MARK KING

FOR

(17)

*FROM JOHN HARTIGAN X

AFPT 1-1

MWO #

Problem Summary

Close date

1-83-2454-00	Overspeed Trip test & adj	1-3-85
1-85-1495-00	Add oil to governor drive	4-30-85
1-85-1878-00	Check Slip clutch	6-3-85
1-85-1878-01	Install new low speed stop pin (followup)	6-3-85

AFPT 1-2

1-84-1189-01	Overspeed trip test & adj	1-2-85
1-84-3748-00	Make adjustments to linkage & gov	1-14-85
1-85-0232-00	Governor erratic	1-14-85
1-85-0232-01	Governor erratic (followup)	1-14-85
1-85-0232-02	Governor erratic (followup)	1-14-85
1-85-1009-00	AFB bearing oil level	4-23-85
2-83-0136-11	Replace gov. speed setting bushing	4-12-85