5-30-90

T-ENG-90-15
Rev 0

UNIT ONE TRAIN A
DCP 88-V1N0070 SEQUENCER FUNCTIONAL
TEST

D.W. HINES

Expiration Date: April 20, 1990

Approval: J Berkhoff Date: 3/23/90

JC - CSO - hold point on step 5.2.3 Rev 11 3/26/90

Released for testing per NRC Paulette Kelly 3/26/90

~~Attach to~~ MWO 18903678

READ AND DESTROY

9202190577 920116
PDR ADOCK 05000424
S PDR

1.0 PURPOSE:

This procedure will test the U/V RESET SWITCH and the remote U/V reset relay (K311) installed in Unit One Train A Sequencer. A Sequencer Operability Check along with this procedure will complete the functional test requirements of DCP 88-V1N0070 for Train A. The DG Brkr Fail To Close relay (K317) and the U/V Reset Enable relay (K306) will also be tested in this procedure.

2.0 PRECAUTIONS AND LIMITATIONS:

2.1 This test, once begun, shall be carried through to completion. If the test must be interrupted, then a detailed explanation of the interruption must be entered into the log.

2.2 Operator assistance should be obtained to operate equipment as required.

2.3 Observe all appropriate precautions and limitations in the plant operating procedures for the equipment operated during this test.

2.4 Prior to the start of the test, the Responsible Engineer shall review the Prerequisites and Initial Conditions, Section 4.0.

2.5 All procedural steps may be signed off by the Responsible Engineer, Shift Supervisor, or designated individual.

2.6 All switches and lights are located on the Unit One Train A Sequencer Test Panel unless otherwise stated.

2.7 Train B 4160Vac (1BA03) is meeting the electrical needs of Unit One. Train A 4160Vac (1AA02) switchgear will be de-energized during this procedure.

2.8 Alarms generated during performance of this procedure may be reset at the discretion of the Responsible Engineer.

2.9 Relay K311 may be removed to connect and disconnect the temporary power supply.

3.0 MEASUREMENT AND TEST EQUIPMENT

3.1 Volt-ohm meter, Simpson model 260 or equivalent, for monitoring a K317 spare normally open contact. This meter will check the operation of K317 relay and will be referred to as relay K317 in this procedure.

3.2 Volt-ohm meter, Simpson model 260 or equivalent, for monitoring a K306 spare normally open contact. This meter will check the operation of K306 relay and will be referred to as relay K306 in this procedure.

3.3 Stop Watch. The stop watch will be used to check the approximate time of relay and light operation.

3.4 A 48Vdc power supply to operate the remote U/V reset relay K306.

3.5 A switched jumper that will be used to simulate DG1A breaker (1AA0219) is closed.

4.0 PREREQUISITES OR INITIAL CONDITIONS:

4.1 The Responsible Engineer has reviewed Section 2.0

DW H / 3/29/90

4.2 The Unit One Train A Sequencer is in normal operating mode.

DW H / 3/29/90

4.3 The Diesel Generator Output Brkr, 1AA0219, is open.

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4.4 Establish communications, using sound powered phones, from the Unit One Train A Sequencer panel to the control room.

DW H / 3/29/90

4.5 The Unit One Shift Supervisor has given permission to perform this test.

[signature] / 3/29/90 / 1306
SS Signature / Date / Time

5.0 TEST SECTION

5.1 Initial Setup

5.1.1 Connect a VOM across a spare normally open contact, 8 and 9, of relay K317.

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5.1.2 Connect a VOM across a spare normally open contact, 4 and 5, of relay K306.

DWH / 3/29/90

5.1.3 Set the DC voltage supply for approximately 48Vdc.

DWH / 3/29/90

5.1.4 Connect a 48Vdc supply, supply turned off, across the coil, 6 and 7, of relay K311.

DWH / 3/29/90

Section 5.1 Complete [signature] / 3/29/90
sign / date

5.2 SEQUENCER TEST - U/V RESET WITH DE-ENERGIZED BUSS AND DIESEL GENERATOR 1A NOT RUNNING

5.2.1 Place DG1A OUTPUT BRKR (HS-1AA0219 at QEAB) into PTL.

DWH / 3/29/90

5.2.2 Place the DG1A in the LOCAL MAINTENANCE mode.

DWH / 3/29/90

NOTE:
THE FOLLOWING STEP WILL DE-ENERGIZE BUSS 1AA02.

QC ✓
HOLD POINT

QC IN # 39423
3-29-90

5.2.3 Open the PREF NORM INCM BRKR (1AA0205)

DWH / 3/29/90

5.2.4 Wait 60 seconds for time delay relays to operate.

DWH / 3/29/90

5.2.5 Using the toggle switch located on the card in slot A4-2, reset the "3 UV in 2 hours" card.

DWH / 3/29/90

5.2.6 Verify relays K317 and K306 are energized.

DWH / 3/29/90

5.2.7 Verify the UV RESET SWITCH is illuminated.

DWH / 3/29/90

NOTE
Step 5.2.11 will occur approximately 15 seconds after step 5.2.8 is performed. Start the stopwatch at step 5.2.8

5.2.8 Depress the UV RESET SWITCH.

DWH / 3/29/90

5.2.9 Verify relays K317 and X306 de-energize.

DWH / 3/29/90

5.2.10 Verify the UV RESET SWITCH is not illuminated.

DWH / 3/29/90

5.2.11 Verify relay K317 energizes approximately 15 seconds after the UV RESET SWITCH was depressed.

Dw H / 3/29/90

5.2.12 Verify relay K306 energizes and the UV RESET SWITCH illuminates approximately 60 seconds after the UV RESET SWITCH was depressed.

Dw H / 3/29/90

NOTE
Step 5.2.16 will occur approximately 15 seconds after step 5.2.13 is performed. Start the stopwatch at step 5.2.13.

5.2.13 Momentarily energize relay K311.

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5.2.14 Verify relays K317 and K306 de-energize.

Dw H / 3/29/90

5.2.15 Verify the UV RESET SWITCH is not illuminated.

Dw H / 3/29/90

5.2.16 Verify relay K317 energizes approximately 15 seconds after relay K311 is energized.

Dw H / 3/29/90

5.2.17 Verify relay K306 energizes and the UV RESET SWITCH illuminates approximately 60 seconds after relay K311 is energized.

Dw H / 3/29/90

5.2.18 Using the toggle switch located on the card in slot A4-2, reset the "3 UV in 2 hours" card.

DWH / 3/29/90

Section 5.2 Completed [signature] / 3/29/90
sign date

5.3 SEQUENCER TEST - U/V WILL NOT RESET WHILE SEQUENCER IS CYCLING

NOTE
The following steps must be performed before the Sequencer step timer completes the sequence steps (approximately 30 seconds). The sequence will begin when step 5.3.1 is performed.

5.3.1 Place a jumper from 1TB51-1 to 1TB51-3

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5.3.2 Verify the Sequencer begins to sequence by observing the Elapsed Timer is running.

DWH / 3/29/90

5.3.3 Depress the UV RESET SWITCH.

DWH / 3/29/90

5.3.4 Verify that the Sequencer does not reset by observing the Elapsed Timer does not restart from 0.

DWH / 3/29/90

5.3.5 Momentarily energize relay K311.

DWH / 3/29/90

5.3.6 Verify that the Sequencer does not reset by observing the Elapsed Timer does not restart from 0.

DWH / 3/29/90

5.3.7 Remove the jumper from 1TB51-1 to 1TB51-3.

DWH / 3/29/90

MZZ / 3/29/90
IVOR

5.3.8 After the UV RESET SWITCH illuminates, push the UV RESET SWITCH to stop the timer.

DWH / 3/29/90

Section 5.3 Complete [signature] / 3/29/90
sign date

6.0 RESTORATION

6.1 Inform the Unit One Shift Supervisor of the completion of this test and 1AA02 may be returned to service.

DWH / 3/29/90

6.2 Remove all test equipment.

1) VOM connected to relay K317

DWH / 3/29/90

MZZ / 3/29/90
IVOR

2) VOM connected to relay K306

DWH / 3/29/90

MZZ / 3/29/90
IVOR

3) Power supply connected to relay K311

Dw H / 3/29/90

MKJ / 3/29/90
IVOR

6.3 Verify K311 is installed correctly.

Dw H / 3/29/90

MKJ / 3/29/90
IVOR

7.0 ACCEPTANCE CRITERIA

7.1 All steps have been completed satisfactorily.

Dw H / 3/29/90

Quality Control Inspection Report

Georgia Power

VOGTLE GENERATING PLANT—UNITS 1 & 2

34222

Page 1 of 1

MWO/ODR/DR No.	Building	Procedure/Spec. No./Rev.
18903678	CONTROL	T-ENG-90-15 Rev 0
Room No./Level No.	Sys./Start-Up Designator	Tag No.
RA-48 Level A		1AH0205
Drawing No./Rev.	Vendor Manual Log No.	Other
N/A	N/A	N/A

1. Inspector will use separate form for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
2. Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
3. Upon completion of the inspection activity, enter results below and sign and date.

Remarks

Method Visual
Verified 1AH0205 PRCF Normal Breaker closed when Unit one Train A Sequencer Functional Test was performed DCP-88-V1N0070

Sketch

Inspection Results

☑ SAT. ☐ UNSAT—ODR/DR NO.(s):

7056 16A MC8191

Inspector Carol Cuebel

Date 3-29-90

WHITE—Work Package CANARY—Q.C. Supv. PINK—Inspector

MWO COVER SHEET

MWO# 19001576 DATE: 03/28/90 SYSTEM: 2403 FOREMAN: MWO

OUTAGE REQUIRED: CLEARANCE:

YES NO X PARTS REQUIRED: NO

05-31-90

STATUS: 6D C RCN: ICOP

PRIORITY CODE: 1 (PRIORITY) 4 (MODE RESTR) PI .NT STATUS RESTRAINT

CONTROL FIELD: * (CATE-GORY) * (COMMIT) OUTAGE SPEC REQ SPEC REQ PROB TYPE

STATUS COMMENTS

** COPY ** COPY ** COPY ** COPY ** COPY ** COPY **COPY ** COPY ** COPY ** COPY

NUCLEAR PLANT MAINTENANCE WORK ORDER

1.CONTROL NO. 19001576 00 2.DATE 03/28/90 3.UNIT 1 4.SYSTEM LIST

5.MPL/TAG NO. LIST

MPL/TAG(S) ASSOCIATED WITH SPECIAL INDICATORS 5A.REPAIR TAG

6.PROB/ WORK REQ. DIESEL GENERATOR 1A TRIPPED TWICE FOLLOWING TWO ACTUAL LOSS OF OFFSIT START CONDITIONS. THE TRIPS ACCURRED AFTER APPROXIMATELY 80 SECONDS AND 70 SECONDS OF OPERATION.

CONT. N

NPRD

7.INITIATOR KEN STOKES 8.SUPRV JP REDDING

9.MWO CLASS S EQP CLASS LIST 10.UNIT STAT LOC LIST

12.DCR N 13.NCR/DR N 14.TYPE MAINT P 11.FIRE PROTECT N

16.CRAFT MECH(EST/ACT) ELEC(EST/ACT) I&C(EST/ACT) CONT(EST/ACT) HP/OT(EST/ACT) 15.DURATION

CREW HRS.	0	0	0	0	0
EXP.	0	0	0	0	0
SCHED BEG	__/__/__	__/__/__	__/__/__	__/__/__	__/__/__
SCHED END	__/__/__	__/__/__	__/__/__	__/__/__	__/__/__
RESP FOREMAN					

17.CLR Y

18.WELD PERM N RWP PERM N

19.QC HOLD PTS 20.PROC

QC REVIEWED BY __/__/__ 21.PRI 14 22.LCO

23.WORK INST. *

SEE CONTINUATION SHEET

COOPER ENERGY TO PERFORM WORK UNDER P.O #6002124.

CONT. Y

---------- 24 INITIATE REVIEW ----------

OPS DATE __/__/__ MNT DATE __/__/__ 25.SPEC REV REQ N

HP DATE __/__/__ ENG DATE __/__/__ ---- 26.MWO RELEASE FOR WORK ------

SIG. DATE __/__/__

27.ACT WORK PERFRMED

CONT. N

HIST SUM

28.MTRL REQD

29.PERSON PERFORMING WORK(NAME) DATE 30.MAINTENANCE FOREMAN DATE

31.INSPECTION PERFORMED BY __/__/__ __/__/__

32.METHOD OF F.T. DATE __/__/__

33.PROCEDURE # 34.PERFORMED BY 35.DATE __/__/__

36.PROVES OPERABILITY 37.METHOD USED TO PROVE OPERABILITY

38.SATISFY./UNSATISFY 39.IF UNSAT .CORR. ACTION

40.UNIT STATUS AT TIME OF FAILURE 41.TYPE FAIL 42.MODE OF FAIL

43.CAUSE OF FAILURE 44.DETECT BY 45.EFFECT ON SYS

46.EFF ON PLANT 47.MWO STAT 6D 48.CAUSE 49.CORR ACT.

50.NEW MWO 51.OPER. ACCEPT BY DATE __/__/__

52.OSOS APPROVAL DATE __/__/__

53.SPEC REV COMP DATE __/__/__ 54.MEET.# DATE __/__/__

55.CLOSE OUT APPROVAL BY QC

CONTROL NO. 19001576 00

MPL/TAG NO.	SYSTEM	EQP CLS	DESCRIPTION	LOCATION
12403G4001	2403	015	DIESEL GENERATOR	1DGGB1-
12403P5DG2	2403	11J	DG 1A ENGINE CNTRL PNL	1DGGB1

CONTROL NO. 19001576 00

WORK INSTRUCTIONS: PERFORM ENGINE LOGIC TESTING PER PROCEDURE 27563-C, REV 2. COOPER ENERGY SERVICES PERSONNEL WILL BE PERFORMING APPLICABLE PROTIONS OF THE PROCEDURE WITH ASSISTANCE FROM GPC PERSONNEL, AS REQUIRED. THE ELECTRICAL PORTIONS OF THE PROCEDURE NEED NOT BE RETESTED. ADDITIONAL INSTRUMENTATION MAY BE CONNECTED BY TEST PERSONNEL TO AID IN TROUBLESHOOTING ANY INSTRUMENTATION CONNECTED OR ADJUSTMENTS MADE SHALL BE DOCUMENTED COMPLETELY ON THIS MWO. DOCUMENT ANY PROBLEMS ENCOUNTERED WHILE PERFORMING THIS TEST.

STEP 1: FOLLOWING THE LOGIC TEST THE ENGINE WILL BE STARTED IN THE EMERGENCY MODE AND A LEAK TEST PERFORMED ON THESE LINES:

E-10A - TRIP LOW PRESSURE LUBE OIL
B - " " " " "
C - " " " " "
E-16A - TRIP HIGH TEMPERATURE JACKET WATER
B - " " " " "
C - " " " " "
E-68 - TRIP HIGH PRESSURE CRANKCASE
E-92 - TRIP LOW PRESSURE TURBO OIL
E-14 - TRIP LOW PRESSURE JACKET WATER
E-23H - TRIP HIGH VIBRATION
E-19 - TRIP HIGH TEMPERATURE ENGINE BEARINGS
E-18 - TRIP HIGH TEMPERATURE LUBE OIL.

TEST FOR LEAKAGE BY DISCONNECTING TUBING AT CONTROL PANEL BULKHEAD AND CONNECTING PNEUMATIC BUBBLE TESTER. OBSERVE TESTER FOR AIR FLOW WHEN LINE IS PRESSURIZED. RESTORE TUBING CONNECTION AT BULKHEAD AND CONTINUE WITH NEXT INSTRUMENT LINE.

STEP #2 NORMAL START
-TRIP BY HI-TEMP LUBE OIL

STEP #3 LOSP START (JUMPER IN GEN CONTROL PANEL 211 TO 213)
-TRIP BY HIGH VIBRATION

STEP #4 NORMAL START
-TRIP BY HIGH PRESS CRANKCASE

STEP #5 SI START (JUMPER IN GEN. CONTROL PANEL 204 TO 209)
-TRIP BY 2 OF 3 L.O. PRESSURE

NOTE

THE AREA OF TESTING SHALL BE ROPED AND ENTRANCE LIMITED TO ESSENTIAL PERSONNEL AS DETERMINED BY COOPER REPRESENTATIVES AND GPC ENGINEERING.

GPC ENGINEERING SHALL BE PRESENT FOR ALL TESTING AND QC REPRESENTATIVE PRESENT AS REQUIRED.

Ken Stokes
3/28/90

Georgia Power

05-33-90
Part 1 of 3 05-31-90
Protects Alarm Print Out (44)

(42)

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1 20 MAR 90  08:20:54  ALARM RPSM 19 LO-LO SG WATER L
                       LI0446 STM GEN 3 LO-LO CH I  LT-0539      TR
1 20 MAR 90  08:20:54  ALARM RPSM 19 LO-LO SG WATER L
                       LI0444 STM GEN 3 LO-LO CH II LT-0553      TR
1 20 MAR 90  08:20:55  ALARM RPSM 19 LO-LO SG WATER L
                       LI0442 STM GEN 3 LO-LO CH IV LT-0537      TR
1 20 MAR 90  08:20:56  ALARM RPSM 19 LO-LO SG WATER L
                       LI0447 STM GEN 3 LO-LO LEVEL TRIP         TR
1 20 MAR 90  08:20:56  ALARM RPSM 19 LO-LO SG WATER L
                       LI0463 STM GEN 4 LO-LO CH I  LT-0554      TR
1 20 MAR 90  08:20:57  ALARM RPSM 19 LO-LO SG WATER L
                       LI0465 STM GEN 4 LO-LO CH III LT-0548     TR
1 20 MAR 90  08:20:57  ALARM RPSM 19 LO-LO SG WATER L
                       LI0466 STM GEN 4 LO-LO CH IV LT-0547      TR
1 20 MAR 90  08:20:59  ALARM RPSM 19 LO-LO SG WATER L
                       LI0467 STM GEN 4 LO-LO LEVEL TRIP         TR
1 20 MAR 90  08:20:59  ALARM RPSM 19 LO-LO SG WATER L
                       LI0405 STM GEN 1 LO-LO CH III LT-0517     TR
1 20 MAR 90  08:21:02  ALARM RPSM 19 LO-LO SG WATER L
                       LI0445 STM GEN 3 LO-LO CH III LT-0538     TR
1 20 MAR 90  08:21:06  ALARM RPSM 19 LO-LO SG WATER L
                       LI0464 STM GEN 4 LO-LO CH II LT-0549      TR
1 20 MAR 90  08:21:07  ALARM RPSM 11 LO PRESSURIZER P
                       PI0456 PRZR LO PRESS 3                    TR
20 MAR 90  08:21:07  RETURN RPSM 11 LO PRESSURIZER P
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1 08:21:08:2   SEQUENCE OF EVENTS TRIP TIME => 08:19:55:3   STATUS   ELAPSED MSEC   VOGTLE UNIT NO.2   20 MAR 90
SEQ. OF EVTS.  YD2002  YAT B HI SIDE NEUT BKUP              TRIP        0.
SEQ. OF EVTS.  YD2003  EHC 125VDC TRIP BUS                  ENERGIZD   26.                55:3
SEQ. OF EVTS.  YD2446  EHC COMBINED TRIP BUS                TRIP       35.                55:25
SEQ. OF EVTS.  YD2529  EHC ELECTRICAL MALFUNCTION           TRIP       40.                55:30
SEQ. OF EVTS.  YD2005  UNIT POWER LOAD UNBALANCE            INACTION   46.                55:42
SEQ. OF EVTS.  ZD2004  4.16KV BUS 2BA03 NORM INCM BRK       OPEN       69.                55:72 -
SEQ. OF EVTS.  ZD2006  4.16KV BUS 2NA05 NORM INCM BRK       OPEN       71.
SEQ. OF EVTS.  YD2040  GENERATING UNIT PRI DIFF             TRIP       77.
SEQ. OF EVTS.  ZD2001  13.8KV BUS 2NA4 NORM INCM BRKR       OPEN       89.
SEQ. OF EVTS.  ZD2401  EHC FAST CLOSING IV SIGNAL           INACTION   94.                55:91 -
SEQ. OF EVTS.  ZD2402  13.8KV BUS 2NAB NORM INCM BRKR       OPEN       99.
SEQ. OF EVTS.  ZD2007  4.16KV BUS 2NA01 NORM INCM BRK       OPEN      103.
SEQ. OF EVTS.  ZD2008  4.16KV BUS 2NA04 NORM INCM BRK       OPEN      104.
SEQ. OF EVTS.  ED2021  EHC LOW ETS PRESS TRIP               TRIPPED   119.
SEQ. OF EVTS.  ZD2013  MN TURB CV 2                         CLOSED    162.
SEQ. OF EVTS.  ZD2011  MN TURB CV 1                         CLOSED    167.
SEQ. OF EVTS.  ZD2012  MN TURB CV 3                         CLOSED    168.
SEQ. OF EVTS.  ZD2009  MN TURB SV 4 (CH4)                   CLOSED    169.
SEQ. OF EVTS.  SD2015  EHC LOSS OF 60HZ PMG POWER           TRIP      233.
SEQ. OF EVTS.  SD2015  EHC LOSS OF 60HZ PMG POWER           RESET     245.
SEQ. OF EVTS.  ZD2007  MN TURB SV 3 (CH3)                   CLOSED    363.
SEQ. OF EVTS.  YD2005  UNIT POWER LOAD UNBALANCE            RESET     370.
SEQ. OF EVTS.  ZD2003  MN TURB SV 1 (CH1)                   CLOSED    373.
SEQ. OF EVTS.  ZD2055  MN TURB REHEAT INTMD SV 6            CLOSED    381.
SEQ. OF EVTS.  ZD2047  MN TURB REHEAT INTMD SV 3            CLOSED    396.
SEQ. OF EVTS.  ZD2045  MN TURB REHEAT INTMD SV 2            CLOSED    399.
SEQ. OF EVTS.  ZD2051  MN TURB REHEAT INTMD SV 5            CLOSED    400.
SEQ. OF EVTS.  ZD2049  MN TURB REHEAT INTMD SV 4            CLOSED    408.
SEQ. OF EVTS.  ZD2005  MN TURB SV 2 (CH2)                   CLOSED    467.
SEQ. OF EVTS.  YD2528  EHC ELECTRICAL MALFUNCTION           RESET     519.
SEQ. OF EVTS.  ZD2001  EHC FAST CLOSING IV SIGNAL           RESET     557.
SEQ. OF EVTS.  YD2001  EHC LOSS OF 24VDC POWER              TRIP      596.
SEQ. OF EVTS.  YD2446  EHC COMBINED TRIP BUS                RESET     614.
SEQ. OF EVTS.  YD2554  EHC 60 HZ HOUSE POWER                FAILURE   624.
SEQ. OF EVTS.  ZD2010  MN TURB EMERG BRG OIL PMP            RUNNING   741.
SEQ. OF EVTS.  ZD2402  13.8KV BUS 2NAA 2 T INCM BRKR        CLOSED    741.
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SEQ. OF EVTS.    ZD2911    4.16KV BUS 2NF05 ALT INCM BRKR    CLOSED      976.

09:21   TGR STAT SLOT 7 DEVIATION        AVG = 139.6 DEGF    HI LIM 147.1 DEGF
SEQ. OF EVTS.    ZD2398    AUX FW PMP 3                        RUNNING     1653.
                                                            LO LIM 133.1 DEGF
SEQ. OF EVTS.    VD2911    EHC MECH OVERSPEED TRIP             TRIPPED     2770.
SEQ. OF EVTS.    VD2804    EHC 60 HZ HOUSE POWER               NORMAL      2781.
SEQ. OF EVTS.    VD2829    EHC ELECTRICAL MALFUNCTION          TRIP        2781.
SEQ. OF EVTS.    VD2001    EHC LOSS OF 24VDC POWER             RESET       2782.
SEQ. OF EVTS.    VD2666    EHC COMBINED TRIP BUS               TRIP        2783.
SEQ. OF EVTS.    ZD2001    EHC FAST CLOSING TV SIGNAL          INACTION    2827.

SEQ. OF EVTS.    FD2001    EHC GEN LOSS OF STATOR CLO          PRE-TRIP    2948.

T3001  T3002  T3003  T3004  T3005  T3006  T3007  T3008  T3009  T3010  T3011  T3012
SEQ. OF EVTS.    ZL2802    GENNEREX VOLT REG                   MANUAL      7733.
 138.   138.   136.   137.   137.   134.   155.   155.   152.   154.   152.   157.
SEQ. OF EVTS.    ZD2794    4.16KV BUS 2BA03 DG B BRKR 19       CLOSED      7875.

SEQ. OF EVTS.    ZD2397    AUX FW PMP 2                        RUNNING     28443.
                 END SEQUENCE OF EVENTS PRINTOUT


T3013  T3014  T3015  T3016  T3017  T3018  T3019  T3020  T3021  T3022  T3023  T3024

1 08:21:45.40   SEQUENCE OF EVENTS TRIP TIME => 08:19:55.5    STATUS   ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90
 135.   135.   135.   139.   136.   140.   141.   139.   137.   134.   137.   137.
SEQ. OF EVTS.    VD0390    TURB TRIP & P9 CAUSE RE             TR          0.                                  55.5

T3025  T3026  T3027  T3028  T3029  T3030  T3031  T3032  T3033  T3034  T3035  T3036
 131.   139.   137.   143.   135.   141.   140.   138.  XXXXXX  135.   138.   129.

SEQ. OF EVTS.    ZD2915    XFMR 2NAA09X FDR BRKR 2NAA09        OPEN        18.
T3037  T3038  T3039  T3040  T3041  T3042  T3043  T3044  T3045  T3046  T3047  T3048
 147.   145.   147.   138.   137.   137.   137.   140.   142.   141.   128.   128.

T3049  T3050  T3051  T3052  T3053  T3054  T3055  T3056  T3057  T3058  T3059  T3060
 140.   137.   135.   136.   136.   135.   140.   2511   136.   137.   138.   137.
SEQ. OF EVTS.    VD0007    RX MAIN TRIP BRKR B                 TR          66.                                 65.71

SEQ. OF EVTS.    VD0006    RX MAIN TRIP BRKR A                 TR          103.
T3061  T3062  T3063  T3064  T3065  T3066  T3067  T3068  T3069  T3070  T3071  T3072
 138.   139.   141.   141.   137.   133.   141.   141.   149.   134.   137.   143.
SEQ. OF EVTS.    ND0029    PWR RNG CHAN HI 0 RATE PRINTER       TR          364.
SEQ. OF EVTS.    YD0390    TURB TRIP & P9 CAUSE RE             NOT TR      512.
SEQ. OF EVTS.    VD0324    RCP BUS UNDER V & P7 RELAY          TR          272.
SEQ. OF EVTS.    FD0425    RCL LO FLOW & P7 RX TRIP            TR          2541.
SEQ. OF EVTS.    PD0458    PRZR LO PRESS & P7                  TR          2216.
SEQ. OF EVTS.    ZD2915    XFMR 2NAA09X FDR BRKR 2NAA09        CLOSED      2134.
SEQ. OF EVTS.    MD0458    PRZR LO PRESS & P7                  NOT TR      3530.
SEQ. OF EVTS.    LD0427    STM GEN 2 LO-LO LEVEL TRIP          TR          7208.
SEQ. OF EVTS.    LD0447    STM GEN 3 LO-LO LEVEL TRIP          TR          7356.
SEQ. OF EVTS.    LD0467    STM GEN 4 LO-LO LEVEL TRIP          TR          7445.
SEQ. OF EVTS.    LD0407    STM GEN 1 LO-LO LEVEL TRIP          TR          7524.
SEQ. OF EVTS.    PD0458    PRZR LO PRESS & P7                  TR          9562.
SEQ. OF EVTS.    MD0458    PRZR LO PRESS & P7                  NOT TR      14191.
SEQ. OF EVTS.    PD0458    PRZR LO PRESS & P7                  TR          [illegible]
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J 08:22:07:9   SEQUENCE OF EVENTS TRIP TIME => 08:21:03:4    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    SQ0015    ERC LOSS OF 60HZ PMG POWER        TRIP          0.
SEQ. OF EVTS.    KF0202    ERC GEN LOSS OF STATOR C/B TRI    TRIPPED     5698.
              END SEQUENCE OF EVENTS PRINTOUT


08:22   TGR STAT SLOT T DEVIATION        AVG = 138.6 DEGF    HI LIM 146.6 DEGF
                                                            LO LIM 132.6 DEGF

T3001  T3002  T3003  T3004  T3005  T3006  T3007  T3008  T3009  T3010  T3011  T3012
 137.   137.   129.   136.   135.   133.   154.   155.   151.   153.   151.   152.

T3013  T3014  T3015  T3016  T3017  T3018  T3019  T3020  T3021  T3022  T3023  T3024
 136.   137.   133.   137.   137.   139.   140.   138.   136.   133.   136.   137.

T3025  T3026  T3027  T3028  T3029  T3030  T3031  T3032  T3033  T3034  T3035  T3036
 129.   138.   136.   143.   134.   140.   139.   137. XXXXXB   134.   137.   138.

T3037  T3038  T3039  T3040  T3041  T3042  T3043  T3044  T3045  T3046  T3047  T3048
 147.   135.   147.   137.   135.   137.   137.   139.   141.   140.   127.   127.

T3049  T3050  T3051  T3052  T3053  T3054  T3055  T3056  T3057  T3058  T3059  T3060
 139.   136.   136.   135.   135.   134.   139.   150.   135.   135.   136.   136.

T3061  T3062  T3063  T3064  T3065  T3066  T3067  T3068  T3069  T3070  T3071  T3072
 137.   139.   140.   140.   136.   133.   141.   140.   148.   133.   135.   142.

J 08:22:43:4   SEQUENCE OF EVENTS TRIP TIME => 08:21:37:2    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    VD0324    RCP BUS UNDER V & P7 RELAY        NOT TR        570.
SEQ. OF EVTS.    FD0423    RCL LO FLOW & P7 RX TRIP          NOT TR        570.
SEQ. OF EVTS.    PD0433    PRZR LO PRESS & P7                NOT TR        571.
              END SEQUENCE OF EVENTS PRINTOUT


J 08:23:41:5   SEQUENCE OF EVENTS TRIP TIME => 08:22:34:9    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    ZD2001    ERC FAST CLOSING IV SIGNAL        RESET         0.
              END SEQUENCE OF EVENTS PRINTOUT


J 08:26:43:7   SEQUENCE OF EVENTS TRIP TIME => 08:25:37:2    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    MD0036    ERC LOW SRG OIL PRESS TRIP        TRIPPED       0.
              END SEQUENCE OF EVENTS PRINTOUT


08:28 20 MAR 90    VOGTLE UNIT NO 2    BORON FOLLOW MAKEUP SUMMARY
      GALLONS ADDED                UNCORRECTED          CORRECTED
                        ADD        29.7  X  .900 =      29.4
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CURRENT BORON CONC:     321.0 PPM IN CVCS RC FILTER  XXXXXXXB PPM IN VCT.
                  XXXXXXXB PPM IN PRZR XXXXXXXB PPM IN LOOP
CURRENT MEASURED BORON CONC (CVCS BORON METER) =     321. PPM

1 08:29:21:5   SEQUENCE OF EVENTS TRIP TIME => 08:28:14:7     STATUS   ELAPSED MSEC    VOGTLE UNIT NO 2    20 MAR 90)
SEQ. OF EVTS.    PD2021    EHC LOW ETS PRESS TRIP            RESET         0.
SEQ. OF EVTS.    PD2021    EHC LOW ETS PRESS TRIP            TRIPPED       8.
SEQ. OF EVTS.    PD2001    EHC VACUUM TRIP                   TRIPPED   43390.
               END SEQUENCE OF EVENTS PRINTOUT

08:30 NET FLOW FROM SYSTEM DURING PAST   402.8  MIN =XXXXXXXXB  GAL:    ORXXXXXXXXB  GPM
      VCT LEVEL DURING PAST    402.1  MIN: MAX =  77.81 PCT: MIN  =  28.30 PCT: CUR =  37.[illegible] PCT.
      TIME INTERVAL =     60.0  MIN
60   TIME      U1118V  U1118H  U1118D
08:30  20 MAR 90    VOGTLE UNIT NO.2   BORON FOLLOW MAKEUP SUMMARY
     GALLONS ADDED            UNCORRECTED          CORRECTED
                         ACID       0.0   X   .900 =       0.0
                         WATER     39.0   X 1.100 =       97.9
                         TOTAL     89.0                   97.9
CURRENT BORON CONC:      319.0 PPM IN CVCS RC FILTER  XXXXXXXB PPM IN VCT.
                  XXXXXXXB PPM IN PRZR XXXXXXXB PPM IN LOOP
CURRENT MEASURED BORON CONC (CVCS BORON METER) =     319. PPM

08:40   TGR STAT SLOT T DEVIATION        AVG = 123.2 DEGF   HI LIM 135.8 DEGF
                                                            LO LIM 121.8 DEGF

T3001  T3002  T3003  T3004  T3005  T3006  T3007  T3008  T3009  T3010  T3011  T3012
60                   MW     MW     MW
 122.   122.   116.   121.   119.   118.   130.   142.   139.   140.   138.   143.

60 08:40:23        0     3407     34035
60   TIME      U1118V  U1118H  U1118D
T3013  T3014  T3015  T3016  T3017  T3018  T3019  T3020  T3021  T3022  T3023  T3024
 120.   121.   119.   124.   122.   122.   124.   123.   122.   117.   121.   121.

60                   MW     MW     MW
T3025  T3026  T3027  T3028  T3029  T3030  T3031  T3032  T3033  T3034  T3035  T3036
 112.   121.   122.   127.   119.   122.   123.   121. XXXXXB  119.   122.   123.

T3037  T3038  T3039  T3040  T3041  T3042  T3043  T3044  T3045  T3046  T3047  T3048
 130.   129.   131.   121.   119.   120.   122.   122.   125.   126.   113.   112.

T3049  T3050  T3051  T3052  T3053  T3054  T3055  T3056  T3057  T3058  T3059  T3060
 123.   122.   119.   120.   121.   118.   123.   135.   121.   119.   120.   119.

T3061  T3062  T3063  T3064  T3065  T3066  T3067  T3068  T3069  T3070  T3071  T3072
60 08:40:30        0     3407     34035
 120.   123.   122.   125.   120.   118.   123.   123.   133.   118.   120.   124.
60   TIME      U1118  U1118V  U1118H  U1118D          N0049  N0050  N0051  N0052  U1167        CASE  P0408
60                   MW     MW     MW     MW               PC     PC     PC     PC                  PE10
60 08:40:32        0      0     3407   34035          [illegible]                       0.0
              T0418V  T0438V  T0458V  T0478V  P0408  P0423  P0408  [illegible]  P0408
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119 08:40:3_   PC      PC      PC      PC      PC      MW      PCDF    PCDF    PCDF    PCDF    PCDF    PC      STEPS
                0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0
119 TIME        U0485   U0484   T0496   P0398   P0399   3407    Q2830   Q2831   Q2832   P2095   P2097   P2099   114.3
119             PC      DEGF    DEGF    PSIG    PSIG    MW      MW      MW      MVARS   INHG    INHG    INHG    T2523
119 08:40:40    1.1     550.88  557.75  2.6     .9      0       0       XXXXXXB 29.8    29.2    30.0    DEGF
                                                                                                        438.5

: 08:40:53:1   SEQUENCE OF EVENTS TRIP TIME => 08:39:46:3    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    LD0447    STM GEN 3 LO-LO LEVEL TRIP        NOT IR.      0.
                END SEQUENCE OF EVENTS PRINTOUT


08:41   TGR STAT SLOT T DEVIATION        AVG = 123.1 DEGF   HI LIM 130.2 DEGF
                                                             LO LIM 116.2 DEGF

T3001  T3002  T3003  T3004  T3005  T3006  T3007  T3008  T3009  T3010  T3011  T3012
 121.   122.   116.   121.   119.   118.   139.   141.   139.   140.   138.   143.

T3013  T3014  T3015  T3016  T3017  T3018  T3019  T3020  T3021  T3022  T3023  T3024
 120.   121.   118.   124.   122.   122.   124.   123.   122.   117.   121.   121.

T3025  T3026  T3027  T3028  T3029  T3030  T3031  T3032  T3033  T3034  T3035  T3036
 11_.   121.   122.   127.   119.   122.   122.   121.  XXXXXXB  119.   122.   123.

T3037  T3038  T3039  T3040  T3041  T3042  T3043  T3044  T3045  T3046  T3047  T3048
 125.   123.   131.   121.   115.   126.   121.   122.   125.   126.   113.   112.

T3049  T3050  T3051  T3052  T3053  T3054  T3055  T3056  T3057  T3058  T3059  T3060
 123.   122.   119.   120.   121.   118.   123.   135.   121.   119.   120.   115.

T3061  T3062  T3063  T3064  T3065  T3066  T3067  T3068  T3069  T3070  T3071  T3072
 120.   123.   122.   125.   120.   117.   123.   123.   133.   118.   120.   125.
AB   TIME     U1118V  U1119H  U1118B
AB            MW      MW      %
AB 08:41:32   0       3407    34035


: 08:42:20:1   SEQUENCE OF EVENTS TRIP TIME => 08:41:13:4    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    LD0427    STM GEN 2 LO-LO LEVEL TRIP        NOT IR      1515.
SEQ. OF EVTS.    LD0407    STM GEN 1 LO-LO LEVEL TRIP        NOT IR      51934.
                END SEQUENCE OF EVENTS PRINTOUT


: 08:45:19:3   SEQUENCE OF EVENTS TRIP TIME => 08:44:12:8    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90\
SEQ. OF EVTS.    LD0467    STM GEN 4 LO-LO LEVEL TRIP        NOT IR      26645.
                END SEQUENCE OF EVENTS PRINTOUT


08:46   TGR STAT SLOT T DEVIATION        AVG = 120.7 DEGF   HI LIM 128.2 DEGF
                                                             LO LIM 114.2 DEGF
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T3013	T3014	T3015	T3016	T3017	T3018	T3019	T3020	T3021	T3022	T3023	T3024
117.	118.	117.	122.	120.	120.	121.	120.	119.	115.	119.	119.

T3025	T3026	T3027	T3028	T3029	T3030	T3031	T3032	T3033	T3034	T3035	T3036
110.	119.	120.	125.	117.	119.	120.	118.	XXXXXB	117.	120.	120.

T3037	T3038	T3039	T3040	T3041	T3042	T3043	T3044	T3045	T3046	T3047	T3048
127.	126.	128.	119.	115.	118.	119.	120.	123.	124.	116.	109.

T3049	T3050	T3051	T3052	T3053	T3054	T3055	T3056	T3057	T3058	T3059	T3060
120.	120.	116.	118.	119.	115.	120.	133.	119.	117.	118.	117.

T3061	T3062	T3063	T3064	T3065	T3066	T3067	T3068	T3069	T3070	T3071	T3072
117.	121.	119.	123.	118.	116.	120.	121.	131.	116.	118.	121.

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68   TIME      U1118V  U1118H  U1118D
68             MW      MW      MW
68 08:51:12      0     3407    34035

J 08:59:21:4   SEQUENCE OF EVENTS TRIP TIME => 08:58:14:8    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90
SEQ. OF EVTS.    PD2021    EHC LOW ETS PRESS TRIP            RESET        0.
SEQ. OF EVTS.    PD2021    EHC LOW ETS PRESS TRIP            TRIPPED      7.
                 END SEQUENCE OF EVENTS PRINTOUT

68   TIME      U1118V  U1118H  U1118D
68             MW      MW      MW
68 09:01:11      0     1183    34035
68   TIME      U1118V  U1118H  U1118D
68             MW      MW      MW
68 09:11:11      0     1183    34035

J 09:13:32:1   SEQUENCE OF EVENTS TRIP TIME => 09:12:25:1    STATUS    ELAPSED MSEC    VOGTLE UNIT NO.2    20 MAR 90
SEQ. OF EVTS.    YD2040    TURNING GEAR MOTOR CONTROL        LOCAL     8408.
SEQ. OF EVTS.    YD2040    TURNING GEAR MOTOR CONTROL        REMOTE    14133.
                 END SEQUENCE OF EVENTS PRINTOUT

09:16   TGR STAT SLOT Y DEVIATION      AVG = 116.7 DEGF   HI LIM 123.8 DEGF
                                                         LO LIM 109.8 DEGF
```

T3001	T3002	T3003	T3004	T3005	T3006	T3007	T3008	T3009	T3010	T3011	T3012
115.	115.	110.	114.	114.	112.	132.	134.	133.	133.	130.	135.

T3013	T3014	T3015	T3016	T3017	T3018	T3019	T3020	T3021	T3022	T3023	T3024
115.	115.	115.	119.	117.	115.	117.	116.	115.	111.	115.	115.

T3025	T3026	T3027	T3028	T3029	T3030	T3031	T3032	T3033	T3034	T3035	T3036
107.	115.	116.	121.	114.	114.	116.	115.	XXXXXB	113.	116.	116.

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T3049	T3050	T3051	T3052	T3053	T3054	T3055	T3056	T3057	T3058	T3059	T3060
116.	116.	112.	115.	113.	111.	117.	129.	115.	114.	114.	112.

T3061	T3062	T3063	T3064	T3065	T3066	T3067	T3068	T3069	T3070	T3071	T3072
114.	116.	114.	119.	115.	112.	116.	117.	127.	113	114.	116.

68	TIME	U1119V	U1118H	U1119D
69		MW	MW	MW
68	09:21:11	0	1183	34035

1 09:29:35:9 SEQUENCE OF EVENTS TRIP TIME => 09:27:29:3 STATUS ELAPSED MSEC VOGTLE UNIT NO.2 20 MAR 90\
SEQ. OF EVTS. YD2040 TURNING GEAR MOTOR CONTROL LOCAL 0.
SEQ. OF EVTS. YD2040 TURNING GEAR MOTOR CONTROL REMOTE 8626.
END SEQUENCE OF EVENTS PRINTOUT

1 09:28:39:6 SEQUENCE OF EVENTS TRIP TIME => 09:27:33:1 STATUS ELAPSED MSEC VOGTLE UNIT NO.1 20 MAR 90\
SEQ. OF EVTS. ZD2037 MN TURB YG OIL PMP RUNNING 0.
SEQ. OF EVTS. FD2036 EHC LOW BRG OIL PRES TRIP RESET 384.
SEQ. OF EVTS. FD2021 EHC LOW ETS PRESS TRIP RESET 41839.
SEQ. OF EVTS. FD2021 EHC LOW ETS PRESS TRIP TRIPPED 41847.
END SEQUENCE OF EVENTS PRINTOUT

1 09:30:43:0 SEQUENCE OF EVENTS TRIP TIME => 09:29:41:4 STATUS ELAPSED MSEC VOGTLE UNIT NO.2 20 MAR 90\
SEQ. OF EVTS. ZD2038 MN TURB EMERG BRG OIL PMP STOPPED 0.
END SEQUENCE OF EVENTS PRINTOUT

68	TIME	U1119V	U1118H	U1119D
69		MW	MW	MW
68	09:31:12	0	1183	34035

90	TIME	U1119	U1118V	U1118H	U1119D	N0049	N0050	N0051	N0052	U1169		U0496	P0406
90		MW	MW	MW	MW	PC	PC	PC	PC	PC		PSIG	PSIG
90	09:32:11	0	0	1183	34035	0.0	0.0	0.0	0.0	0		XXXXXX	2117.1

116	TIME	T0419V	T0438V	T0458V	T0478V	F0403	F0423	F0443	F0463	P0406	P0420	P0440	P0460
116		DEGF	DEGF	DEGF	DEGF	KBH	KBH	KBH	KBH	PSIG	PSIG	PSIG	PSIG
116	09:35:12	431.6	433.0	434.2	437.3	106.1	0.0	0.0	218.2	1051.9	1044.8	1008.4	994.6

118	TIME	N0049	N0050	N0051	N0052	U1150	U1118H	U1145	U1144	U1142	U1141	U1143	U1163	U0052
118		PC	PC	PC	PC	PC	MW	PCDF	PCDF	PCDF	PCDF	PCDF	PC	STEPS
118	09:35:13	0.0	0.0	0.0	0.0	.0	1183	0.00	0.0	0.0	0.0	0.0	29.0	0

119	TIME	U0485	U0484	T0496	P0398	P0399	W2830	W2831	W2832	F2095	N0[illegible]	[illegible]	12528
119		PC	DEGF	DEGF	PSIG	PSIG	MW	MW	MVARS	INHG	INHG	[illegible]	[illegible]
119	09:35:15	.1	551.69	557.71	2.6	.9	0	0	XXXXXX	29.8	[illegible]	[illegible]	436.2

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Elect Stat reg

09:13:00	03/19/90	ZD9421 SPRAY ADDITIVE TANK OUTLET TRAIN B OPEN	
09:13:05	03/19/90	ZD9420 SPRAY ADDITIVE TANK OUTLET TRAIN B OPEN	
09:13:18	03/19/90	ZD9420 SPRAY ADDITIVE TANK OUTLET TRAIN B NOT OPEN	
09:13:25	03/19/90	ZD9421 SPRAY ADDITIVE TANK OUTLET TRAIN B CLOSED	
09:17:15	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL 1 TRAIN B COOLER	OFF
09:17:50	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
09:25:45	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
09:39:13	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
09:47:35	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
09:52:05	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
10:01:55	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
10:08:25	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
10:19:55	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
10:41:40	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL 1 TRAIN B COOLER	ON
10:43:03	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
10:46:25	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
10:48:00	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
10:50:03	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL 1 TRAIN B COOLER	OFF
10:51:00	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
11:08:40	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
11:09:35	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
11:16:13	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
11:20:45	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
11:36:35	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
11:42:55	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
11:48:10	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
12:01:53	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
12:02:53	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
12:08:58	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
12:27:28	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
12:32:18	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
12:38:58	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
12:45:03	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF

RPI - Print out Lost Power

Georgia Power

13:00:50	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
13:09:30	03/19/90	ZD9327 BORIC ACID TO CHARGING PUMP B	OPEN
13:09:30	03/19/90	ZD9328 BORIC ACID TO CHARGING PUMP B	NOT CLOSED
13:09:33	03/19/90	ZD9327 BORIC ACID TO CHARGING PUMP B	NOT OPEN
13:09:33	03/19/90	ZD9328 BORIC ACID TO CHARGING PUMP B	CLOSED
13:14:10	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
13:18:50	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
13:27:20	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
13:34:45	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
13:40:30	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
13:41:38	03/19/90	ZD8726 BORIC ACID TRANSFER PUMP TRAIN B	RUNNING
13:41:45	03/19/90	ZD9327 BORIC ACID TO CHARGING PUMP B	OPEN
13:41:45	03/19/90	ZD9328 BORIC ACID TO CHARGING PUMP B	NOT CLOSED
13:41:48	03/19/90	ZD9327 BORIC ACID TO CHARGING PUMP B	NOT OPEN
13:41:48	03/19/90	ZD9328 BORIC ACID TO CHARGING PUMP B	CLOSED
13:58:30	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
14:01:58	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
14:03:28	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
14:15:53	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
14:19:33	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
14:19:45	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
14:32:50	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
14:36:35	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
14:40:35	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
14:50:53	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
14:51:55	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL I TRAIN B COOLER	ON
14:54:28	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
15:03:53	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
15:09:10	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL I TRAIN B COOLER	OFF
15:09:28	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
15:18:43	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
15:31:03	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON

15:47:05	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
16:05:23	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
16:06:53	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
16:34:58	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
16:35:40	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
16:44:55	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
16:52:79	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
17:07:53	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
17:14:03	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
17:23:28	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
17:31:23	03/19/90	ZD9449 NSCW TOWER A BLOWDOWN	NOT CLOSED
17:33:35	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
17:37:45	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
17:53:09	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
18:04:13	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
18:13:08	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
18:28:48	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
18:28:53	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL I TRAIN B COOLER	ON
18:33:18	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
18:35:28	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
18:45:48	03/19/90	ZD9553 ELEC SWGR & MCC RM LEVEL I TRAIN B COOLER	OFF
18:54:38	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
18:59:28	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
19:13:23	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
19:15:48	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
19:16:13	03/19/90	ZD9160 PRESSURIZER LIQUID SPACE SAMPLE TRN A	NOT CLOSED
19:16:13	03/19/90	ZD9162 PRESSURIZER LIQUID SPACE SAMPLE TRN B	NOT CLOSED
19:21:08	[illegible]	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
19:27:43	[illegible]	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
[illegible]	[illegible]	[illegible] TRAIN FUEL TRB [illegible] TRIP VLV TRIPPED	
[illegible]	[illegible]	[illegible] THROTTLE VLV [illegible]	
19:45:[illegible]	[illegible]	[illegible]	

Georgia Power

22:02:28	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
22:16:05	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
22:31:15	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
22:36:20	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
22:39:15	03/19/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
22:42:53	03/19/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
23:01:13	00/00/=0	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
23:01:15	00/00/=0	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
23:05:03	00/00/=0	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
23:15:40	00/00/=0	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
23:19:50	00/00/=0	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON

00:11:00	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
00:27:40	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
00:29:25	03/20/90	ZD-443 MSCW TOWER A BLOWDOWN CLOSED	
00:48:05	03/20/90	ZD-553 ELEC SWGR & MCC RM LEVEL 1 TRAIN A COOLER	OFF
00:51:05	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
01:02:15	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
01:03:43	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
01:11:20	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
01:27:10	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
01:33:10	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
01:39:30	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
01:43:38	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
01:50:35	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
02:06:25	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
02:15:12	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	ON
02:27:15	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
02:32:50	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
02:40:35	03/20/90	ZD-547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER	OFF
[illegible]	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	ON
02:59:[illegible]	03/20/90	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	OFF
03:00:12	03/20/90	ZD-443 MSCW TOWER A BLOWDOWN NOT CLOSED	
[illegible]	[illegible]	ZD-543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER	[illegible]
[illegible]	[illegible]	ZD-[illegible] ELEC SWGR & MCC RM LEVEL [illegible] TRAIN A COOLER	ON
[illegible]	[illegible]	ZD-[illegible] ELEC SWGR & MCC RM LEVEL [illegible] TRAIN A COOLER	[illegible]

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[illegible]	[illegible]	ZD7616 NSCW FAN [illegible]
[illegible]	[illegible]	ZD7613 NSCW FAN [illegible] A ON
[illegible]	[illegible]	[illegible] A ON
[illegible]	[illegible]	ZD7616 NSCW FAN 1 TRAIN B ON
[illegible]	[illegible]	ZD7617 NSCW FAN 2 TRAIN B ON
[illegible]	[illegible]	[illegible] B ON
[illegible]	[illegible]	[illegible] B ON
[illegible]	[illegible]	[illegible] LEVEL D TRAIN A COOLER ON
[illegible]	[illegible]	[illegible] ELEC SWGR & MCC RM LEVEL [illegible] TRAIN B COOLER
[illegible]	03/20/90	[illegible] LEVEL C TRAIN A COOLER ON
[illegible]	[illegible]	ZD7543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER OFF
04:01:29	[illegible]	[illegible] ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER OFF
[illegible]	[illegible]	[illegible] ELEC SWGR & MCC RM LEVEL 1 TRAIN B COOLER OFF
[illegible]	[illegible]	[illegible] CCW PUMP [illegible] TRAIN A ON
04:12:34.[illegible]	[illegible]	ZD7541 CCW PUMP [illegible] TRAIN A OFF
[illegible]	[illegible]	[illegible] LEVEL 1 TRAIN A COOLER ON
[illegible]	[illegible]	[illegible] COOLER [illegible]
04:22:48	[illegible]	[illegible] A COOLER [illegible]
04:26:50	03/20/90	ZD7547 ELEC SWGR & MCC RM LEVEL [illegible] TRAIN A COOLER OFF
[illegible]	[illegible]	ZD6554 PRESSURIZER HEATERS BACKUP GROUP [illegible] OFF
04:38:02.[illegible]	03/20/90	ZD7641 CCW PUMP [illegible] TRAIN A ON
[illegible]	[illegible]	[illegible] CCW PUMP 5 TRAIN A OFF
[illegible]	[illegible]	ZD7543 [illegible] LEVEL [illegible] TRAIN A COOLER ON
04:45:45	03/20/90	ZD7547 [illegible] LEVEL [illegible] TRAIN A COOLER [illegible]
04:49:[illegible]	[illegible]	[illegible] SWGR & MCC RM LEVEL D TRAIN A COOLER OFF
[illegible]	[illegible]	[illegible] NSCW FAN [illegible] TRAIN A OFF
04:[illegible]	[illegible]	[illegible] NSCW FAN 4 TRAIN B OFF
[illegible]	[illegible]	[illegible] NSCW FAN 3 TRAIN B OFF
[illegible]	[illegible]	ZD7617 NSCW FAN 2 TRAIN B OFF
[illegible]	[illegible]/20/90	ZD7616 NSCW FAN 1 TRAIN B OFF
[illegible]:01.731	03/20/90	ZD7614 NSCW FAN 4 TRAIN A OFF
04:54:02.284	03/20/90	ZD7613 NSCW FAN [illegible] TRAIN A OFF

Georgia Power

Georgia Power

} Types Lost Power

08:22:32	02/20/90	ZD-827 SG2 MSIV UPSTREAM TRAIN B BYPASS	NOT OPEN
08:22:33	02/20/90	ZD-821 SG3 MSIV UPSTREAM TRAIN B BYPASS	NOT OPEN
08:22:33	02/20/90	ZD-815 SG1 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:33	02/20/90	ZD-822 SG4 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:33	02/20/90	ZD-826 SG2 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:33	02/20/90	ZD-830 SG3 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:33	02/20/90	ZD-820 SG1 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:33	02/20/90	ZD-824 SG4 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:33	02/20/90	ZD-828 SG2 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:33	02/20/90	ZD-832 SG3 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:33	02/20/90	ZD7169 STM DUMP FV-507C TO CONDENSER C CLOSED	
08:22:33	02/20/90	ZD7167 STM DUMP FV-507B TO CONDENSER B CLOSED	
08:22:33	02/20/90	ZD7165 STM DUMP FV-507A TO CONDENSER A CLOSED	
08:22:33	02/20/90	ZD7103 SG2 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN
08:22:33	02/20/90	ZD7111 SG1 MAIN STM ISOL VLV UPSTREAM TRAIN B	NOT OPEN
08:22:33	02/20/90	ZD7101 SG1 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN
08:22:33	02/20/90	ZD7117 SG4 MAIN STM ISOL VLV UPSTREAM TRAIN B	NOT OPEN
08:22:33	02/20/90	ZD7107 SG4 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN
08:22:33	02/20/90	ZD7115 SG3 MAIN STM ISOL VLV UPSTREAM TRAIN B	NOT OPEN
08:22:33	02/20/90	ZD7105 SG2 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN

Typus Lost Power

08:22:00	03/20/90	ZD827 SG2 MSIV UPSTREAM TRAIN B BYPASS	NOT OPEN
08:22:00	03/20/90	ZD831 SG1 MSIV UPSTREAM TRAIN B BYPASS	NOT OPEN
08:22:00	03/20/90	ZD828 SG1 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:00	03/20/90	ZD822 SG4 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:00	03/20/90	ZD834 SG3 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:00	03/20/90	ZD830 SG3 MSIV UPSTREAM TRAIN A BYPASS	CLOSED
08:22:00	03/20/90	ZD820 SG1 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:00	03/20/90	ZD824 SG4 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:00	03/20/90	ZD832 SG2 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:00	03/20/90	ZD832 SG3 MSIV UPSTREAM TRAIN B BYPASS	CLOSED
08:22:00	03/20/90	ZD7168 STM DUMP PV-507C TO CONDENSER C	CLOSED
08:22:00	03/20/90	ZD7167 STM DUMP PV-507B TO CONDENSER B	CLOSED
08:22:00	03/20/90	ZD7125 STM DUMP PV-507A TO CONDENSER A	CLOSED
08:22:00	03/20/90	ZD7105 SG2 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN
08:22:00	03/20/90	ZD7111 SG1 MAIN STM ISOL VLV UPSTREAM TRAIN B	NOT OPEN
08:22:00	03/20/90	ZD7101 SG1 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN
08:22:00	03/20/90	ZD7117 SG4 MAIN STM ISOL VLV UPSTREAM TRAIN B	NOT OPEN
08:22:00	03/20/90	ZD7107 SG4 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN
08:22:00	03/20/90	ZD7115 SG3 MAIN STM ISOL VLV UPSTREAM TRAIN B	NOT OPEN
08:22:00	03/20/90	ZD7105 SG3 MAIN STM ISOL VLV UPSTREAM TRAIN A	NOT OPEN

Types Lost Power

08:20:[illegible]	03/20/90	[illegible]
08:20:[illegible]	03/20/90	ZD7607 APCWL [illegible]
08:20:[illegible]	03/20/90	[illegible]
08:20:[illegible]	03/20/90	ZD7104 SG1 MAIN STM ISOL VLV UPSTREAM TRAIN A CLSD
08:21:[illegible]	03/20/90	ZD7112 SG1 MAIN STM ISOL VLV DNSTRM TRAIN B CLOSED
08:21:[illegible]	03/20/90	ZD7104 SG1 MAIN STM ISOL VLV UPSTREAM TRAIN A CLSD
08:22:[illegible]	03/20/90	ZD7112 SG4 MAIN STM ISOL VLV DNSTRM TRAIN B CLOSED
08:22:[illegible]	03/20/90	ZD7100 SG4 MAIN STM ISOL VLV UPSTREAM TRAIN A CLSD
08:22:[illegible]	03/20/90	ZD7112 SG3 MAIN STM ISOL VLV DNSTRM TRAIN B CLOSED
08:22:[illegible]	03/20/90	ZD7104 SG3 MAIN STM ISOL VLV UPSTREAM TRAIN A CLSD
08:22:[illegible]	03/20/90	ZD7114 SG2 MAIN STM ISOL VLV DNSTRM TRAIN B CLOSED
08:22:40.[illegible]	03/20/90	ZD8424 CNMT BLDG AIR COOLING UNIT 2 HIGH SPEED
08:22:41.[illegible]	03/20/90	ZD8420 CNMT BLDG AIR COOLING UNIT 4 HIGH SPEED
08:22:41.[illegible]	03/20/90	ZD8422 CNMT BLDG AIR COOLING UNIT 7 HIGH SPEED
08:22:42.[illegible]	03/20/90	ZD8420 CNMT BLDG AIR COOLING UNIT 4 NOT HIGH SPEED
08:22:42.[illegible]	03/20/90	ZD8420 CNMT BLDG AIR COOLING UNIT 4 HIGH SPEED
08:23:15.437	03/20/90	ZD7605 NSCW COOLING TOWER BYP VALVE TRAIN B OPEN
08:23:18	03/20/90	ZD9568 DG SUPPLY FAN 4 TRAIN B DAMPER OPEN
08:23:18	03/20/90	ZD9566 DG SUPPLY FAN 2 TRAIN B DAMPER OPEN
08:23:35.[illegible]	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
08:24:03.[illegible]	03/20/90	ZD7337 TDAFW DISCH VLV TO SG3 NOT OPEN
08:24:04.[illegible]	03/20/90	ZD7331 TDAFW DISCH VLV TO SG4 NOT OPEN
08:24:15.707	03/20/90	ZD7338 TDAFW DISCH VLV TO SG3 CLOSED
08:24:16.[illegible]	03/20/90	ZD7332 TDAFW DISCH VLV TO SG4 CLOSED
08:24:17.[illegible]	03/20/90	ZD7333 TDAFW DISCH VLV TO SG1 NOT OPEN
08:24:17.[illegible]	03/20/90	ZD7335 TDAFW DISCH VLV TO SG2 NOT OPEN
08:24:[illegible]	03/20/90	ZD7334 TDAFW DISCH VLV TO SG1 CLOSED
08:24:[illegible]	03/20/90	ZD7336 TDAFW DISCH VLV TO SG2 CLOSED
08:24:53.[illegible]	03/20/90	ZD7341 MD AFW-B DISCH VLV TO SG3 NOT OPEN
08:24:54.[illegible]	03/20/90	ZD7343 MD AFW-A DISCH VLV TO SG4 NOT OPEN
08:24:59.505	03/20/90	ZD7342 MD AFW-B DISCH VLV TO SG1 NOT OPEN
08:25:01.[illegible]	03/20/90	ZD7344 MD AFW-A DISCH VLV TO SG2 NOT OPEN
08:25:[illegible]	03/20/90	ZD7347 MD AFW-A DISCH VLV TO SG1 OPEN

Georgia Power

[illegible]	[illegible]	CHARGING PUMP B OPEN
[illegible]	[illegible]	BORIC ACID TO CHARGING PUMP B NOT CLOSED
[illegible]	[illegible]	ZD9327 BORIC ACID TO CHARGING PUMP B NOT OPEN
[illegible]	03/20/90	ZD9328 BORIC ACID TO CHARGING PUMP B CLOSED
08:30:58.016	03/20/90	ZD6552 PRESSURIZER HEATERS BACKUP GROUP A OFF
08:30:58.030	03/20/90	ZD6553 PRESSURIZER HEATERS BACKUP GROUP B OFF
[illegible]	[illegible]	ZD9347 ECCS SWGR & MCC RM LEVEL C TRAIN A COOLER OFF
[illegible]	03/20/90	ZD6552 PRESSURIZER HEATERS BACKUP GROUP A ON
08:35:02.529	03/20/90	ZD7450 CONDENSATE PUMP 2 STOPPED
[illegible]	03/20/90	ZD8542 FCV-456A REW VLV HV-8000A NOT CLOSED
[illegible]	03/20/90	ZD8541 FCV-456A BLOWD VLV HV-[illegible]A OPEN
08:38:18.462	03/20/90	ZD6553 PRESSURIZER HEATERS BACKUP GROUP B OFF
08:40:31.[illegible]	[illegible]	ZD7651 [illegible] OFF
08:41:35.[illegible]	[illegible]	ZD6552 PRESSURIZER HEATERS BACKUP GROUP A OFF
08:45:24.263	03/20/90	ZD7340 MD AFW-B DISCH VLV TO SG2 CLOSED
08:45:27.024	03/20/90	ZD7344 MD AFW-A DISCH VLV TO SG4 CLOSED
08:46:05.[illegible]	03/20/90	ZD7344 MD AFW-A DISCH VLV TO SG4 NOT CLOSED
08:46:42	03/20/90	ZD9406 MD AUX FEED PUMP B MINIFLOW VALVE NOT CLOSED
08:46:55	03/20/90	ZD9405 MD AUX FEED PUMP B MINIFLOW VALVE OPEN
08:51:31.063	03/20/90	ZD7342 MD AFW-B DISCH VLV TO SG3 CLOSED
08:51:58	03/20/90	ZD7357 TDAFW STEAM INLET VALVE NOT OPEN
08:52:00	03/20/90	ZD7358 TDAFW STEAM INLET VALVE CLOSED
08:52:10.544	03/20/90	ZD7334 TDAFW DISCH VLV TO SG1 NOT CLOSED
08:52:11.305	03/20/90	ZD7336 TDAFW DISCH VLV TO SG2 NOT CLOSED
08:52:17.759	03/20/90	ZD7333 TDAFW DISCH VLV TO SG1 OPEN
08:52:18.633	03/20/90	ZD7335 TDAFW DISCH VLV TO SG2 OPEN
08:52:24.306	03/20/90	ZD7335 TDAFW DISCH VLV TO SG3 NOT CLOSED
08:52:30.565	03/20/90	ZD7337 TDAFW DISCH VLV TO SG3 OPEN
08:52:33.185	03/20/90	[illegible]

Manual - per RP Smith

Manual per RP Smith

Georgia Power

[illegible]	[illegible]	[illegible] MAIN FEED REG VALVE - MFRV NOT CLOSED
[illegible]	03/20/90	ZD7340 MD AFW-B DISCH VLV TO SG2 NOT CLOSED
09:48:03	03/20/90	ZD9405 MD AUX FEED PUMP B MINIFLOW VALVE NOT OPEN
09:48:13	03/20/90	ZD9406 MD AUX FEED PUMP B MINIFLOW VALVE CLOSED
09:49:01.992	03/20/90	ZD8551 PRESSURIZER HEATERS CONTROL GROUP C ON
09:50:17.060	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
09:50:17.060	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
09:50:17.073	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
09:50:48.038	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
09:50:48.041	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
09:50:48.049	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
09:53:41.199	03/20/90	ZD7340 MD AFW-B DISCH VLV TO SG2 CLOSED
09:53:44.557	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
09:53:44.560	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
09:53:44.573	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
09:53:45	03/20/90	ZD9406 MD AUX FEED PUMP B MINIFLOW VALVE NOT CLOSED
09:53:53	03/20/90	ZD9405 MD AUX FEED PUMP B MINIFLOW VALVE OPEN
09:54:20.187	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
09:54:20.190	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
09:54:20.197	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
09:59:43.269	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
09:59:43.274	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
09:59:43.286	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:00:13.281	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:00:13.294	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:00:13.306	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:06:27.751	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:06:27.753	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:06:27.765	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:07:03.554	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:07:03.564	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:07:03.572	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF

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10:09:22	03/20/90	ZD9553 ELEC SGNA R HOT RM LEVEL 1 INDIV B COOLER ON
10:10:31.823	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:10:31.823	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:10:31.837	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:11:07.222	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:11:07.235	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:11:07.241	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:14:28	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN ON
10:15:10	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN OFF
10:15:25.197	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:15:25.198	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:15:25.212	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:15:58.910	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:15:58.923	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:15:58.929	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:21:49.844	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:21:49.844	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:21:49.860	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:22:22.920	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:22:22.929	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:22:22.941	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:25:38	03/20/90	ZD9577 AUX FW PUMP HOUSE TRAIN B SUPPLY FAN ON
10:26:36	03/20/90	ZD9577 AUX FW PUMP HOUSE TRAIN B SUPPLY FAN OFF
10:26:37.715	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:26:37.716	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:26:37.731	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:27:09.608	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:27:09.610	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:27:09.622	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:31:15	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN ON
10:31:55	03/20/90	ZD9573 AUX FW MP HOUSE TRAIN A SUPPLY FAN OFF
10:33:20.228	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:33:20.231	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON

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10:23:20.243	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:23:48.972	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:33:48.975	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:33:48.988	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:40:55	03/20/90	ZD9577 AUX FW PUMP HOUSE TRAIN B SUPPLY FAN ON
10:41:53.076	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:41:53.090	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:41:53.103	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:41:55	03/20/90	ZD9577 AUX FW PUMP HOUSE TRAIN B SUPPLY FAN OFF
10:42:24.172	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:42:24.187	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:42:24.227	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:45:25	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN ON
10:46:05	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN OFF
10:51:25	03/20/90	ZD9543 ELEC SWGR & MCC RM LEVEL D TRAIN A COOLER OFF
10:53:45.163	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B ON
10:53:45.166	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A ON
10:53:45.183	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D ON
10:54:13.575	03/20/90	ZD8553 PRESSURIZER HEATERS BACKUP GROUP B OFF
10:54:13.588	03/20/90	ZD8552 PRESSURIZER HEATERS BACKUP GROUP A OFF
10:54:13.597	03/20/90	ZD8554 PRESSURIZER HEATERS BACKUP GROUP D OFF
10:54:25	03/20/90	ZD9577 AUX FW PUMP HOUSE TRAIN B SUPPLY FAN ON
10:55:28	03/20/90	ZD9577 AUX FW PUMP HOUSE TRAIN B SUPPLY FAN OFF
10:56:28	03/20/90	ZD9533 ELEC SWGR & MCC RM LEVEL I TRAIN B COOLER OFF
10:59:03	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN ON
10:59:45	03/20/90	ZD9573 AUX FW PUMP HOUSE TRAIN A SUPPLY FAN OFF
11:00:16.573	03/20/90	ZD7366 CIRCULATING WATER PUMP 2 STOPPED
11:00:43	03/20/90	ZD9547 ELEC SWGR & MCC RM LEVEL C TRAIN A COOLER OFF

Georgia Power

PROTEUS ALARM

1:45 sec before CRF

	HI ALERT RE		[illegible] DELTA T 1 SETPT	107.3	120.0	PC	\
\ 07:59:27	SENSOR RETURN	T0265	HTR 1A DRAIN FLOW	2.00	1.60	VOLTAGE	\
2 07:59:32	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	132.0	120.0	PC	\
2 07:59:32	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	132.0	122.0	PC	\
1 07:59:56	SENSOR LO ALARM	F2265	HTR 1A DRAIN FLOW	1.78	1.60	VOLTAGE	\
\ 08:00:12	RETURN	LA1500	XE PRED/BOR CALC	RUN	\		
2 08:00:12	ALARM	LA1500	XE PRED/BOR CALC	NOT RUN	\		
2 08:00:12	ALARM	LA0515	RMP 15 RCL OVERPWR DT SETPOINT	ALARM	\		
\ 08:00:12	SENSOR LO ALARM	F2265	HTR 1A DRAIN FLOW	2.06	1.60	VOLTAGE	\
\ 08:00:64	HI ALERT RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	84.5	120.0	PC	\
\ 08:00:62	HI ALARM RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	84.5	122.0	PC	\
2 08:00:[illegible]	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	149.4	120.0	PC	\
2 08:00:[illegible]	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	149.4	122.0	PC	\
2 08:00:[illegible]	SENSOR LO ALARM	T0402	RCL 1 NAR RNG COLD LEG TEMP	-.65	5.50	VOLTAGE	\
\ 08:00:[illegible]	RETURN	LA0502	RMP 03 PWR RNG BOT DETECTOR D	NORMAL	\		
\ 08:00:16	RETURN	LA0515	RMP 15 RCL OVERPWR DT SETPOINT	NORMAL	\		
2 08:00:[illegible]	ALARM	YD0102	BLENDER TO CCP VALVE	NOT CL	\		
\ 08:02:53	RETURN	YD0103	BLENDER TO CCP VALVE	CL	\		
\ 08:02:[illegible]	SENSOR RETURN	T0402	RCL 1 NAR RNG COLD LEG TEMP	.22	5.50	VOLTAGE	\
2 08:03:16	SENSOR HI ALARM	T0402	RCL 1 NAR RNG COLD LEG TEMP	10.53	10.50	VOLTAGE	\
2 08:03:05	ALARM	ON-LINE BAD CARD STATUS	F2266	\			
\ 08:03:26	RETURN	ON-LINE BAD CARD STATUS	F2266	\			
08:[illegible]	[illegible]	SELECTED:	1 PEN RECORDER TREND GRAPH				
2 08:04:45	SENSOR LO ALARM	F2265	HTR 1A DRAIN FLOW	1.34	1.60	VOLTAGE	\
\ 08:[illegible]17	LO ALERT RETURN	T0400	RCL1 1 TAVG	620.5	593.0	DEGF	\
2 08:[illegible]	HI ALERT	T0400	RCL1 1 TAVG	630.4	598.5	DEGF	\
2 08:[illegible]7	HI ALARM	T0400	RCL1 1 TAVG	630.4	591.0	DEGF	\
2 08:[illegible]	SENSOR LO ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	-.77	1.50	VOLTAGE	\
\ 08:[illegible]	HI ALERT RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	120.0	PC	\
2 08:[illegible]	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	120.0	PC	\
\ 08:[illegible]	HI RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	122.0	PC	\
2 08:10:[illegible]	SENSOR LO ALARM	T0407	RCL1 OVERPWR DELTA T 1 SETPT	-.70	-.50	VOLTAGE	\
2 08:10:[illegible]	LO ALERT	T0407	RCL1 OVERPWR DELTA T 1 SETPT	XXXX.XXX	0.000	PC	\
2 08:[illegible]	LO ALERT	L0523	RCL ROD CNTL MAX DT DEV FROM ME	-100.0	-3.0	PC	\
2 08:10:[illegible]	HI ALERT	L0527	RCL CNTL MAX TAVG DEV FROM MEAS	[illegible]	3.0	DEGF	\
\ 08:10:2A	SENSOR RETURN	T0407	RCL1 OVERPWR DELTA T 1 SETPT	[illegible]	-.50	VOLTAGE	\
\ 08:10:2[illegible]	LO ALERT RETURN	T0407	RCL1 OVERPWR DELTA T 1 SETPT	31.129	0.000	PC	\
\ 08:10:[illegible]	SENSOR RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	[illegible]	-.50	VOLTAGE	\
\ 08:10:[illegible]	LO ALERT RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	[illegible]	[illegible]	[illegible]	\
\ 08:10:[illegible]	SENSOR RETURN	F2265	HTR 1A DRAIN FLOW	2.79	1.60	[illegible]LTAGE	\
1 08:[illegible]:27	ALARM	LA0515	RMP 15 RCL OVERPWR DT SETPOINT	ALARM	\		
\ 08:[illegible]:36	SENSOR RETURN	T0402	RCL 1 NAR RNG COLD LEG TEMP	[illegible]	10.50	VOLTAGE	\
1 08:[illegible]:37	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	154.9	120.0	PC	\
1 08:[illegible]:37	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	154.9	122.0	PC	\
\ 08:[illegible]	HI RETURN	T0400	RCL1 1 TAVG	583.6	591.0	DEGF	\
\ 08:[illegible]	LO ALERT RETURN	L0418	RCL1 DELTA T TILT	-1.5	-1.0	PC	\
\ 08:[illegible]	HI ALARM RETURN	L0438	RCL2 DELTA T TILT	[illegible]	3.5	PC	\
\ 08:[illegible]	HI ALERT RETURN	L0458	RCL3 DELTA T TILT	[illegible]	3.5	PC	\
\ 08:[illegible]	HI ALERT RETURN	L0478	RCL4 DELTA T TILT	[illegible]	3.5	PC	\
\ 08:[illegible]	LO ALERT RETURN	L0523	RCL ROD CNTL MAX DT DEV FROM MEA	[illegible]	[illegible]	PC	\
\ 08:[illegible]	HI ALERT RETURN	L0527	RCL CNTL MAX TAVG DEV FROM MEAS	[illegible]	3.0	DEGF	\
\ 08:[illegible]	RETURN	TD0400	RCL1 OVERPWR DELTA T 1 (PART)	NOT TR	\		
\ 08:[illegible]	RETURN	LA0712	RPSM 12 HI OVERTEMP DELTA T	NORMAL	\		
\ 08:[illegible]	RETURN	LA0713	RPSM 13 HI OVERPOWER DELTA T	NORMAL	\		
\ 08:[illegible]	HI ALERT RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	114.8	120.0	PC	\
\ 08:[illegible]	HI RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	114.8	122.0	PC	\
\ 08:[illegible]	RETURN	LA0504	RMP 04 PWR RNG TOP DETECTOR D	NORMAL	\		
\ 08:[illegible]	RETURN	LA0510	RMP 10 RCL TAVG	NORMAL	\		
\ 08:13:18	RETURN	LA0512	RMP 12 RCL DT	NORMAL	\		
\ 08:13:18	RETURN	LA0514	RMP 14 RCL OVERTEMP DT SETPOINT	NORMAL	\		
\ 08:13:18	RETURN	LA0515	RMP 15 RCL OVERPWR DT SETPOINT	NORMAL	\		
\ 08:13:18	RETURN	LA0547	RMP 47 RCL NAR RNG TCOLD	NORMAL	\		
\ 08:14:09	HI ALERT RETURN	LM406	RCL1 OPDT SETPT MARGIN DEV FROM	-1.9	5.0	PC	\
\ 08:14:09	HI ALERT RETURN	LM408	RCL1 OPDT SETPT MARGIN DEV FROM	.4	5.0	PC	\
08:14	[illegible]	2	[illegible] PEN 3				
08:16	[illegible]	2					

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08:16	KY 4 2	CLEARED ALARM					
08:16	KY 4 2	POINT U1:45	IS ASSIGNED TO SEN 4 AND IS ON TREND				
08:15:14	ALARM	ZD4000	+PROTEUS/ERF TIME SYNC BID	ON			
08:15:17	RETURN	ZD4000	PROTEUS/ERF TIME SYNC BID	OFF			
08:16	KY 4 2	1:401	NSCW TRAIN A SUPPLY HDR	67.3	DEGF		
08:16	KY 4 2	GROUP 1:1	4 GROUP DISPLAY/ASSIGN/REVIEW				
08:16	KY 4 2	GROUP 1:1	SELECTED: RQ & BCF SAT				
08:17:59	SENSOR LO ALARM	F2245	HTR 1A DRAIN FLOW	1.34	1.60	VOLTAGE	
08:17:59	SENSOR RETURN	F2245	HTR 1A DRAIN FLOW	2.41	1.60	VOLTAGE	
08:17:59	SENSOR LO ALARM	F2245	HTR 1A DRAIN FLOW	1.36	1.60	VOLTAGE	
08:17:59	SENSOR RETURN	F2245	HTR 1A DRAIN FLOW	1.77	1.60	VOLTAGE	
08:18:26	ALARM (STATI)	ZE2240	GENERATING UNIT PRI DIFF	TRIP			
08:18:26	ALARM	PD0326	TURB HYD OIL LO PRESS 1	TR			
08:18:26	ALARM	PD0327	TURB HYD OIL LO PRESS 2	TR			
08:18:26	ALARM	PD0328	TURB HYD OIL LO PRESS 3	TR			
08:18:26	ALARM	PD2021	EHC LOW ETS PRESS TRIP	TRIPPED			
08:18:26	ALARM	ZL2215	REMR 2NAA09X CDR BRKR 2NAA09	OPEN			
08:18:26	LO ALERT	C0009	S/D ROD BK A GROUP 1 POS D03	156.	225.	STEPS	
08:18:26	ALARM	VD2003	EHC 125VDC TRIP BUS	ENERGIZED			
08:18:26	ALARM	VD2006	EHC COMBINED TRIP BUS	TRIP			
08:18:26	ALARM	YD0392	TURB STOP VLV 2 SHUT RELAY	TR			
08:18:26	ALARM	YD0393	TURB STOP VLV 3 SHUT RELAY	TR			
08:18:26	ALARM	YD0394	TURB STOP VLV 4 SHUT RELAY	TR			
08:18:26	ALARM	YD0002	*RX MAIN TRIP BRKR B	TR			
08:18:26	LO ALERT	C0011	S/D ROD BK A GROUP 1 POS M14	[illegible]	225.	STEPS	
08:18:26	ALARM	ZD2003	MN TURB SV 1 (CH1)	[illegible]			
08:18:26	ALARM	ZD2004	MN TURB SV 2	NOPEN			
08:18:26	LO ALERT	C0014	S/D ROD BK A GROUP 2 POS B04	XXXXXXXX	[illegible]	STEPS	
08:19:56	ALARM	ZD2005	MN TURB SV 2 (CH2)	CLOSED			
08:19:56	ALARM	ZD2007	MN TURB SV 3 (CH3)	CLOSED			
08:19:56	ALARM	ZD2008	MN TURB SV 4	NOPEN			
08:19:56	ALARM	ZD2009	MN TURB SV 4 (CH4)	CLOSED			
08:19:56	LO ALERT	C0015	S/D ROD BK A GROUP 2 POS D14	84.	225.	STEPS	
08:19:56	ALARM	ZD2015	MN TURB CV 3	CLOSED			
08:19:56	RETURN	ZD2038	MN TURB EMERG BRG OIL PMP	RUNNING			
08:19:56	ALARM	ZD2042	MN TURB REHEAT INTMD SV 3	CLOSED			
08:19:56	ALARM	ZD2045	MN TURB REHEAT INTMD SV 4	CLOSED			
08:19:56	ALARM	ZD2051	MN TURB REHEAT INTMD SV 5	CLOSED			
08:19:56	LO ALERT	C0016	S/D ROD BK A GROUP 2 POS P12	84.	225.	STEPS	
08:19:56	ALARM	ZD2052	MN TURB REHEAT INTMD SV 6	CLOSED			
08:19:56	ALARM	ZD2055	MN TURB REHEAT IV 1	CLOSED			
09:2[illegible]	KY 2 SELECTED:	4 GROUP DISPLAY/ASSIGN/REVIEW					
08:19:56	ALARM	ZD2057	MN TURB REHEAT IV 2	CLOSED			
08:19:56	LO ALERT	C0017	S/D ROD BK A GROUP 2 POS M02	226.	225.	STEPS	
08:19:56	ALARM	ZD2059	MN TURB REHEAT IV 3	CLOSED			
08:19:56	ALARM	ZD2061	MN TURB REHEAT IV 4	CLOSED			
08:19:56	ALARM	ZD2062	MN TURB REHEAT IV 5	CLOSED			
08:19:56	ALARM	ZD2063	MN TURB REHEAT IV 6	CLOSED			
08:19:57	LO ALERT	C0019	S/D ROD BK B GROUP 1 POS C03	XXXXXXXX	225.	STEPS	
08:19:57	ALARM	ZD2011	MN TURB CV 1	CLOSED			
08:19:57	ALARM	ZD2506	SAFETY SYS BY-PASSED TRAIN A	YES			
08:19:57	RETURN	ZD2539	SG 2 B/D ISO VALVE	OPEN			
08:19:57	SENSOR RETURN	P2647	LP TURB A STAGE 12 TURB END EXTR	9.17	10.50	VOLTAGE	
08:19:57	ALARM	ZE2212	NORMAL WTR CHILLER 3	STOPPED			
08:19:57	LO ALERT	C0020	S/D ROD BK B GROUP 1 POS C09	12.	225.	STEPS	
08:19:57	RETURN	ZD2610	NSCW RETURN TO BASIN TRAIN B	CLOSED			
08:19:57	RETURN	ZD2605	NSCW RETURN TO CLG TWR TRAIN B	OPEN			
08:19:57	ALARM	ZD2206	4.16KV BUS 2NA05 NORM INCM BRKR	OPEN			
08:19:57	LO ALERT	C0021	S/D ROD BK B GROUP 1 POS C13	0.	225.	STEPS	
08:19:57	ALARM	ZD2207	4.16KV BUS 2NA01 NORM INCM BRKR	OPEN			
08:19:57	ALARM	ZD2211	13.8KV BUS 2NAA NORM INCM BRKR Q	OPEN			
08:19:57	ALARM	ZD2202	13.8KV BUS 2NAB NORM INCM BRKR Q	OPEN			
08:19:57	ALARM	ZD2212	4.16KV BUS 2NAA ALT INCM BRKR Q1	CLOSED			
08:19:57	ALARM	ZD2208	4.16KV BUS 2NA04 NORM INCM BRKR	OPEN			
08:19:57	ALARM	ZD2211	4.16KV BUS 2NA05 ALT INCM BRKR Q	CLOSED			

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	ALARM	[illegible]	[illegible]	TRIP			
	ALARM	VD0021	[illegible]	TR			
3	ALARM	VD0029	RCP BUS UNDER V & P7 R[illegible]Y	TR			
[illegible]	ALARM	VD0027	PWR RNG CHAN 2 HI Q RATE	TR			
[illegible]	[illegible]	[illegible]	[illegible] FT-0444	TR			
[illegible]	[illegible]	[illegible]	RCL LO FLOW [illegible] 2 TRIP P8	RESET			
[illegible]	[illegible]	[illegible]	[illegible]	CLOSED			
[illegible]	[illegible]	[illegible]	[illegible] GROUP 2 POS N07	0.	225.	STEPS	
[illegible]	[illegible]	[illegible]	[illegible] 2BB01 [illegible] BRKR	OPEN			
[illegible]	[illegible]	[illegible]	[illegible] 2 POS C07	0.	225.	STEPS	
[illegible]	[illegible]	[illegible]	[illegible]	ON			
[illegible]	[illegible]	FD0442	RCL CH I LO FLOW FT-0445	TR			
[illegible]	[illegible]	[illegible]	RCL CH II LO FLOW FT-0425	TR			
[illegible]	[illegible]	[illegible]	RCL LO FLOW & P7 RX TRIP	TR			
[illegible]	[illegible]	FD0442	RCL4 CH II LO FLOW FT-0442	TR			
[illegible]	ALARM	FD0442	RCL4 CH III LO FLOW FT-0442	TR			
[illegible]	[illegible]	FD0422	RCL LO FLOW LOOP 1 TRIP P8	RESET			
[illegible]	[illegible]	C0024	S/D ROD BK B GROUP 2 POS N13	0.	225.	STEPS	
[illegible]	[illegible]	FD0426	RCL LO FLOW LOOP 2 TRIP P8	RESET			
[illegible]	[illegible]	FD0428	RCL LO FLOW LOOP 4 TRIP P8	RESET			
[illegible]	[illegible]	FD0422	RCL LO FLOW TRIP P8 PERM	RESET			
[illegible]	ALERT	C0025	S/D ROD BK B GROUP 2 POS N09	0.	225.	STEPS	
[illegible]	[illegible]	ND0097	PWR RNG CHAN 2 HI Q LO SETPT	NOT TR			
[illegible]	ALARM	ND0100	NUC PWR 1 RX TRP P9 PART	RESET			
[illegible]	ALARM	ZD0410	SWGR 2BB16 INCM BRKR 2BB1601	OPEN			
[illegible]	[illegible]	ND0098	PWR RNG CHAN 2 HI Q LO SETPT	NOT TR			
[illegible]	[illegible]	ND0099	PWR RNG CHAN 4 HI Q LO SETPT	NOT TR			
[illegible]	[illegible]	ND0011	NUC PWR 1 RX TRP P10 PART	RESET			
[illegible]	[illegible]	ND0012	NUC PWR 2 RX TRP P10 PART	RESET			
[illegible]	[illegible]	ND0020	INTMD RNG 1 HI Q RX TRIP	NOT TR			
[illegible]	ALARM	LS0029	DISPLAY - RESV AUX XFMR B	ALARM			
[illegible]	[illegible]	ND0021	INTMD RNG 2 HI Q RX TRIP	NOT TR			
[illegible]	[illegible]	ND0022	INTMD RNG HI Q RX TRIP B BLOCK	RESET			
[illegible]	ALARM	ND0026	PWR RNG CHAN 2 HI Q RATE	TR			
[illegible]	ALARM	ND0028	PWR RNG CHAN 4 HI Q RATE	TR			
09:19:30	[illegible]	ND0027	PWR RNG CHAN HI Q RATE RX TRIP	TR			
09:19:30	[illegible]	ND0013	NUC PWR 3 RX TRP P10 PART	RESET			
09:19:30	ALARM	ND0025	PWR RNG CHAN 1 HI Q RATE	TR			
09:17:30	ALARM	ZD0082	MN TURB REHEAT INTMD SV 2	CLOSED			
[illegible]	[illegible]	ND0101	NUC PWR 1 RX TRP P9 PART	RESET			
[illegible]	[illegible]	ND0102	NUC PWR 2 RX TRP P9 PART	RESET			
[illegible]	[illegible]	ND0103	NUC PWR 4 RX TRP P9 PART	RESET			
[illegible]	ALARM	ND0104	NUC PWR P9 PERMISSIVE	RESET			
[illegible]	L2 ALERT	C0026	S/D ROD BK B GROUP 2 POS N03	0.	225.	STEPS	
[illegible]	L2 ALERT	C0029	S/D ROD BK C GROUP 1 POS C11	0.	225.	STEPS	
[illegible]	[illegible]	ND0014	NUC PWR 4 RX TRP P10 PART	RESET			
[illegible]	L2 ALERT	C0020	S/D ROD BK C GROUP 1 POS L12	0.	225.	STEPS	
[illegible]	ALARM	FD0422	RCL2 CH III LO FLOW FT-0426	TR			
[illegible]	L2 ALERT	C0031	S/D ROD BK C GROUP 1 POS N05	0.	225.	STEPS	
09:10:30	ALARM	VD0221	RCP 2 BUS UNDER V RELAY	TR			
[illegible]	ALARM	VD0223	RCP 4 BUS UNDER V RELAY	TR			
[illegible]	L2 ALERT	C0022	S/D ROD BK D GROUP 1 POS C05	0.	225.	STEPS	
[illegible]	ALARM	VD2202	4.16KV BUS 2BA03 UNDERVOLTAGE	ALARM			
[illegible]	[illegible]	YI0006	RX MAIN TRIP BRKR A	TR			
[illegible]	L2 ALERT	C0032	S/D ROD BK D GROUP 1 POS E13	0.	225.	STEPS	
[illegible]	ALARM	YI2520	EHC ELECTRICAL MALFUNCTION	TRIP			
[illegible]	[illegible]	ZD0001	EHC FAST CLOSING IV SIGNAL	INACTION			
[illegible]	L2 ALERT	C0034	S/D ROD BK D GROUP 1 POS N11	0.	225.	STEPS	
[illegible]	[illegible]	ZD0[illegible]	AUX SW PMP 2	RUNNING			
[illegible]	[illegible]	C0035	S/D ROD BK D GROUP 1 POS L03	0.	225.	STEPS	
[illegible]	ALARM	ZD2[illegible]	SG 2 B/D VLV VALVE	NOPEN			
[illegible]	ALARM	ZD2[illegible]	NSCW PMP 2	STOPPED			
[illegible]	L2 ALERT	C0036	S/D ROD BK E GROUP 1 POS H04	0.	225.	STEPS	
[illegible]	ALARM	ZD2[illegible]	NSCW PMP 6	STOPPED			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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[illegible]	ALARM	[illegible]	[illegible] 2280601	[illegible]			
[illegible]	ALARM	[illegible]	[illegible] BRKR 2280701	[illegible]			
[illegible]	RETURN	[illegible]	[illegible] RX TRIP A BLOCK	RESET			
[illegible]	RETURN	[illegible]	[illegible] LO SETPT	NOT TR			
[illegible]	RETURN	[illegible]	PWR RNG HI & LO SP RX TRIP A BLO	RESET			
[illegible]	[illegible]	[illegible]	PWR RNG HI & LO SP RX TRIP B BLO	RESET			
[illegible]	ALARM	[illegible]	PRZR LO PRESS 2	TR			
[illegible]	ALARM	[illegible]	PRZR LO PRESS & 07	TR			
[illegible]	ALARM	[illegible]	[illegible] STATOR CLG	PRE-TRIP			
[illegible]	[illegible]	[illegible]	XFMR 2NA02X [illegible] BRKR 2NA0[illegible]	CLOSED			
[illegible]	LO ALERT	C0037	S/D ROD BK E GROUP 1 POS D08	0.	225.	STEPS	
[illegible]	ALARM	[illegible]	[illegible] MECH OVERSPEED TRIP	TRIPPED			
[illegible]	ALARM	[illegible]	SG 1 B/D ISO VALVE	NOPEN			
[illegible]	ALARM	ZD2541	SG 4 B/D ISO VALVE	NOPEN			
[illegible]	RETURN	ED0425	PRZR LO PRESS 2	NOT TR			
[illegible]	RETURN	ED0438	PRZR LO PRESS & 07	NOT TR			
[illegible]	LO ALERT	C0030	S/D ROD BK E GROUP 1 POS H12	0.	225.	STEPS	
[illegible]	LO ALERT	C0032	S/D ROD BK E GROUP 1 POS M08	0.	225.	STEPS	
[illegible]	ALARM	LA0702	RPSM 02 HI INTERM RNG FLUX	ALARM			
[illegible]	ALARM	LA0703	RPSM 03 HI POWER RNG LO RNG FLUX	ALARM			
[illegible]	LO ALERT	P2386	MFPT A HYDRAULIC AND BRG OIL	4.	14.	PSIG	
[illegible]	LO ALERT RETURN	T0440	RCL2 1 TAVG	584.21	528.50	DEGF	
[illegible]	LO ALERT	T3147	MN GEN STATOR CLG WTR OUT BAR 47	138.	139.	DEGF	
[illegible]	ALARM	ZD2541	SG 3 B/D ISO VALVE	NOPEN			
[illegible]	LO ALERT	C0020	S/D ROD BK C GROUP 1 POS E03	0.	225.	STEPS	
08:20:01	LO ALERT	C0012	S/D ROD BK A GROUP 1 POS F04	0.	225.	STEPS	
08:20:01	LO ALERT	F0421	RCL2 CH II FT-0425 FLOW	61.4	90.0	PC	
08:20:01	LO ALARM	F0421	RCL2 CH II FT-0425 FLOW	61.4	89.0	PC	
08:20:01	LO ALERT	F0420	RCL2 CH I FT-0424 FLOW	61.6	90.0	PC	
08:20:02	LO ALARM	F0420	RCL2 CH I FT-0424 FLOW	61.6	89.0	PC	
08:20:01	LO ALERT	P2406	MFPT B HYDRAULIC AND BRG OIL	5.	14.	PSIG	
08:20:01	HI ALERT RETURN	T0400	RCL1 1 TAVG	582.2	588.5	DEGF	
08:20:02	ALARM	VD2902	13.8KV BUS 2NAB UNDERVOLTAGE	ALARM			
08:20:02	ALARM	VD2914	4.16KV BUS 2NA04 UNDERVOLTAGE	ALARM			
08:20:02	ALARM	ZD2219	MSDT B DRN TO CNDSR	NCLOSED			
08:20:02	ALARM	ZD2254	HTR 1A DRN TO CNDSR	NCLOSED			
08:20:02	ALARM	ZD2264	HTR 1C DRN TO CNDSR	NCLOSED			
08:20:02	ALARM	ZD2461	CONDENSATE PMP C	STOPPED			
08:20:02	ALARM	LA0714	RPSM 14 TURBINE TRIP	ALARM			
08:20:02	RETURN	YC0400	ROD ALARM CCO	NORMAL			
08:20:02	LO ALERT	F0462	RCL4 CH III FT-0446 FLOW	57.1	90.0	PC	
08:20:02	LO ALARM	F0462	RCL4 CH III FT-0446 FLOW	57.1	89.0	PC	
08:20:03	SENSOR LO ALARM	P2814	GEN HYDROGEN	-.78	-.50	VOLTAGE	
08:20:03	HI ALERT RETURN	T0460	RCL4 1 TAVG	585.03	588.50	DEGF	
08:20:03	HI ALERT	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	120.0	PC	
08:20:03	HI ALARM	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	122.0	PC	
08:20:03	SENSOR LO ALARM	F2442	HTR DRN PMP B FLOW	1.34	1.60	VOLTAGE	
08:20:03	LO ALERT	T3108	MN GEN STATOR CLG WTR OUT BAR 8	138.	139.	DEGF	
08:20:03	LO ALERT	T3132	MN GEN STATOR CLG WTR OUT BAR 32	137.	139.	DEGF	
08:20:03	ALARM	ZD2214	MSDT A DRN TO CNDSR	NCLOSED			
08:20:03	ALARM	ZD2224	MSDT C DRN TO CNDSR	NCLOSED			
08:20:03	ALARM	ZD2259	HTR 1B DRN TO CNDSR	NCLOSED			
08:20:03	ALARM	LD0425	STM GEN 2 LO-LO CH III LT-0528	TR			
08:20:03	HI ALERT	U0438	RCL2 DELTA T TILT	5678.3	3.5	PC	
08:20:03	HI ALERT	U0478	RCL4 DELTA T TILT	5827.6	3.5	PC	
08:20:04	LO ALERT	U0527	RCL CNTL MAX TAVG DEV FROM MEAS	-6.0	-3.0	DEGF	
08:20:04	HI ALERT	P2411	MFP B SUCT	660.	635.	PSIG	
08:20:04	LO ALERT	P0481	PRESSURIZER 2 PRESSURE	2093.0	2100.0	PSIG	
08:20:04	HI ALERT	P2391	MFP A SUCT	660.64	635.00	PSIG	
08:20:04	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	155.0	120.0	PC	
08:20:04	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	155.0	122.0	PC	
08:20:04	HI ALERT RETURN	T0420	RCL2 1 TAVG	578.05	588.50	DEGF	
08:20:04	ALARM	LD0403	STM GEN 1 LO-LO CH I LT-0551	TR			
08:20:04	ALARM	LD0404	STM GEN 1 LO-LO CH II LT-0518	TR			
08:20:04	ALARM	LD0406	STM GEN 1 LO-LO CH IV LT-[illegible]	TR			
[illegible]	ALARM	[illegible]	[illegible]	[illegible]			

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[illegible]

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	STM GEN 1 LO-LO CH I LT-0529	TR			
	STM GEN 2 LO-LO CH II LT-0532	TR			
	STM GEN 3 LO-LO CH IV LT-0527	TR			
	STM GEN 3 LO-LO LEVEL TRIP	TR			
.44	STM GEN 4 LO-LO CH I LT-0542	TR			
	STM GEN 4 LO-LO CH II LT-0522	TR			
	STM GEN 4 LO-LO CH IV LT-0527	TR			
	STM GEN 4 LO-LO LEVEL TRIP	TR			
	STM GEN 2 LO-LO CH I LT-0526	TR			
	STM GEN 4 LO-LO CH III LT-0549	TR			
	STM GEN 4 LO-LO CH IV LT-0547	TR			
	STM GEN 4 LO-LO LEVEL TRIP	TR			
	4.16KV BUS 1B18 INCM BRKR 2BB0601	CLOSED			BUS Bus energized
	4.16KV BUS 1B003 UNDERVOLTAGE	NORMAL			
	SAFETY SYS IN FORCED TRAIN A	NO			
ZD2724	4.16KV BUS 1B003 DG B PWR 12	CLOSED			
ZD2802	0-4NCRLY V2-7 DGV	MANUAL			
ZD2726	4.16 1B006 INCM BRKR 2BB0691	CLOSED			
ZD2470	1B007 INCM BRKR 2BB0701	CLOSED			
LD0495	STM GEN 1 LO-LO CH III LT-0517	TR			
LD0445	STM GEN 2 LO-LO CH III LT-0528	TR			
LD0464	STM GEN 4 LO-LO CH II LT-0549	TR			
FD461	RCL4 CH II FT-0445 FLOW	49.1	90.0	PC	
FD461	RCL4 CH II FT-0445 FLOW	48.1	89.0	PC	
490	RCL4 CH I FT-0444 FLOW	48.1	90.0	PC	
FD460	RCL4 CH I FT-0444 FLOW	49.1	89.0	PC	
420	RCL2 OVERTEMP DELTA T 1 SETPT	152.662	120.000	PC	
FD420	RCL2 OVERTEMP DELTA T 1 SETPT	153.662	122.000	PC	
TD770	RCL3 OVERTEMP DELTA T 1 SETPT	10.66	10.50	VOLTAGE	
	RCL3 OVERTEMP DELTA T 1 SETPT	XXXXXXXB	120.00	PC	
	RCL3 OVERTEMP DELTA T 1 SETPT	XXXXXXXB	122.00	PC	
	RMS 20 22 2 STM OUT P	NORMAL			
	RMS 22 DCL HOT LEG T	NORMAL			
	RMS 20 22 3 STM OUT P	NORMAL			
PD2[illegible]	[illegible] LO PRESS 3	TR			
ZD2443	[illegible] DRN [illegible] 0 HTR 4B	NCLOSED			
PD462	RCL3 LO PRESS 2	TR			
PD[illegible]	RCL2 LO PRESS 2 PZ	TR			
FD447	STM GEN 3 BLOWDOWN FLOW	10.	30.	GPM	
FD447	STM GEN 3 BLOWDOWN FLOW	10.	30.	GPM	
FD447	STM GEN 3 BLOWDOWN FLOW	10.	52.	GPM	
FD447	STM GEN 3 BLOWDOWN FLOW	10.	28.	GPM	
FD467	STM GEN 4 BLOWDOWN FLOW	5.	30.	GPM	
FD467	STM GEN 4 BLOWDOWN FLOW	5.	30.	GPM	
FD467	STM GEN 4 BLOWDOWN FLOW	5.	52.	GPM	
FD467	STM GEN 4 BLOWDOWN FLOW	5.	28.	GPM	
PD480	PRESSURIZER 1 PRESSURE	2073.0	2100.0	PSIG	
PD480	PRESSURIZER 1 PRESSURE	2073.0	2090.0	PSIG	
ZD2605	NSCW RETURN TO CLG TWR TRAIN B	NOPEN			
T152	MN GEN STATOR CLG WTR OUT BAR 52	136.	139.	DEGF	
PD151	REHEATING STM TO MSR A	1046.	1000.	PSIG	
TD[illegible]	REHEAT STM TO LP TURB C	-.52	-.50	VOLTAGE	
PD[illegible]	REHEAT STM TO LP TURB A	-.50	-.50	VOLTAGE	
PD[illegible]	REHEATING STM TO MSR B	1016.	1000.	PSIG	
PD431	PRESSURIZER 3 PRESSURE	2050.8	2100.0	PSIG	
PD431	PRESSURIZER 3 PRESSURE	2050.8	2090.0	PSIG	
[illegible]	PRESSURIZER 2 PRESSURE	2057.8	2140.0	PSIG	
[illegible]	PRESSURIZER 2 PRESSURE	2058.8	2130.0	PSIG	
[illegible]	MLDT D BAR [illegible]	NCLOSED			
[illegible]	[illegible]	1.[illegible]	1.60	VOLTAGE	
[illegible]	REHEATING STM TO MSR 2	1018.	1[illegible]0.	PSIG	
[illegible]	REHEATING STM TO MSR 1	1046.	10[illegible]0.	PSIG	
[illegible]	STM GEN 1 BLOWDOWN FLOW	0.	30.	GPM	
[illegible]	STM GEN 1 BLOWDOWN FLOW	0.	30.	GPM	
[illegible]	STM GEN 1 BLOWDOWN FLOW	[illegible]	[illegible]	GPM	

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[illegible]	[illegible]	[illegible]	59.0	59.0	DEG
[illegible]	[illegible]	[illegible]	SET TR	\	
[illegible]	[illegible]	[illegible]	NOT TR	\	
[illegible]	[illegible]	[illegible]	12.5	15.0	GPM \
[illegible]	[illegible]	[illegible]	12.5	15.0	GPM \
[illegible]	[illegible]	[illegible]	12.7	15.0	GPM \
[illegible]	[illegible]	[illegible]	12.7	15.0	GPM \
[illegible]	[illegible]	[illegible]	10.56	10.50	VOLTAGE \
[illegible]	[illegible]	[illegible]	NOT TR	\	
[illegible]	[illegible]	[illegible]	126.	128.	DEGF \
[illegible]	[illegible]	[illegible]	8.7	7.6	PC \
[illegible]	[illegible]	[illegible]	-8.7	-7.6	PC \
[illegible]	[illegible]	[illegible]	20.	131.	DEGF \
[illegible]	[illegible]	[illegible]	20.	132.	DEGF \
[illegible]	[illegible]	[illegible]	20.	136.	DEGF \
[illegible]	[illegible]	[illegible]	-22.1	-8.0	PC \
[illegible]	[illegible]	[illegible]	124.	132.	DEGF \
[illegible]	[illegible]	[illegible]	131.	139.	DEGF \
[illegible]	[illegible]	[illegible]	121.	139.	DEGF \
[illegible]	[illegible]	[illegible]	563.9	564.0	DEGF \
[illegible]	[illegible]	[illegible]	2.	50.	GPM \
[illegible]	[illegible]	[illegible]	9.	30.	GPM \
[illegible]	[illegible]	[illegible]	2.	52.	GPM \
[illegible]	[illegible]	[illegible]	9.	28.	GPM \
[illegible]	[illegible]	[illegible]	133.	139.	DEGF \
[illegible]	[illegible]	[illegible]	121.	132.	DEGF \
[illegible]	[illegible]	[illegible]	CLOSED	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	614.	635.	PSIG \
[illegible]	[illegible]	[illegible]	2001.4	2090.0	PSIG \
[illegible]	[illegible]	[illegible]	611.43	635.00	PSIG \
[illegible]	[illegible]	[illegible]	.9	12.5	PC \
[illegible]	[illegible]	[illegible]	-.9	-12.5	PC \
[illegible]	[illegible]	[illegible]	CLOSED	\	
[illegible]	[illegible]	[illegible]	RUNNING	\	
[illegible]	[illegible]	[illegible]	ALARM	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	9.78	10.50	VOLTAGE \
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	OPEN	\	
[illegible]	[illegible]	[illegible]	NCLOSED	\	
[illegible]	[illegible]	[illegible]	ALARM	\	
[illegible]	[illegible]	[illegible]	560.02	564.00	DEGF \
[illegible]	[illegible]	[illegible]	CLOSED	\	
[illegible]	[illegible]	[illegible]	545.	545.	DEGF \
[illegible]	[illegible]	[illegible]	108.1	108.0	PC \
[illegible]	[illegible]	[illegible]	52.6	52.0	PC \
[illegible]	[illegible]	[illegible]	52.6	52.0	PC \

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	RETURN			RUNNING			
	ALARM			ALARM			
	LO ALERT	YD6600	RCP ALWR LOCS				
		YD420	RCP 1 TAVG	563.76	564.00	DEGF	
	LO ALARM	PS2602	NSCW TRAIN B SUPPLY HDR	14.	65.	PSIG	
	HI ALERT	L0426	STM GEN 2 WR LT-0502 LVL	54.0	55.0	PC	
		L0427	STM GEN 2 WR LT-0502 LVL	53.0	56.0	PC	
	HI ALERT	L0446	STM GEN 3 WR LT-0503 LVL	53.6	55.0	PC	
		L0447	STM GEN 3 WR LT-0503 LVL	53.6	56.0	PC	
		TD2282	RCP 2 DRAIN TO HTR 6B	596.	595.	DEGF	
		L0463	STM GEN 4 WR LT-0504 LVL	50.0	55.0	PC	
		L0464	STM GEN 4 WR LT-0504 LVL	50.0	56.0	PC	
		YD127	RCP2 SEAL INJECTION WTR FLOW	10.28	10.50	VOLTAGE	
		L0562	STM GEN 4 NR LT-0554 LVL	8.7	25.0	PC	
		L0563	STM GEN 4 NR LT-0554 LVL	8.9	24.0	PC	
		FD400	RCL1 CH I FT-0416 FLOW	100.5	100.0	PC	
		FD440	RCL2 CH I FT-0436 FLOW	100.3	100.0	PC	
		ZD2576	NSCW PMP 2	RUNNING			
		ZD2609	NSCW RETURN TO CLG TOWER TRAIN B	NCLOSED			
		LA0715	RPSM 15 RCP UNDERVOLTAGE	ALARM			
		ZD2152	MS BYPASS 2 TO CNDSR A	NOPEN			
		ZD2154	MS BYPASS 2 TO CNDSR B	NOPEN			
		ZD2156	MS BYPASS 2 TO CNDSR C	NOPEN			
		ZD2158	MS BYPASS 2 TO CNDSR A	NOPEN			
		ZD2159	MS BYPASS 3 TO CNDSR A	CLOSED			
		ZD2160	MS BYPASS 3 TO CNDSR B	NOPEN			
		ZD2161	MS BYPASS 3 TO CNDSR B	CLOSED			
		ZD2162	MS BYPASS 3 TO CNDSR C	NOPEN			
		ZD2163	MS BYPASS 3 TO CNDSR C	CLOSED			
	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM			
	HI ALARM	F2700	BLOWDOWN HX COOLANT FLOW	10.51	10.50	VOLTAGE	
	LO ALARM	P2019	MLDT A DRAIN TO MDT A	1.47	1.60	VOLTAGE	
	LO ALERT	F0431	RCL3 CH II FT-0435 FLOW	100.7	100.0	PC	
		L0441	STM GEN 3 NR LT-0539 LVL	9.5	25.0	PC	
		L0442	STM GEN 3 NR LT-0539 LVL	8.5	24.0	PC	
	HI ALARM	F2497	MTR C DRAIN FLOW	1.22	1.60	VOLTAGE	
08:20:	RETURN	[illegible]	RCL4 OVERTEMP DELTA T 1 SETPT	111.0	120.0	PC	
08:20:		[illegible]	RCL4 OVERTEMP DELTA T 1 SETPT	111.8	122.0	PC	
08:20:		ZD2558	LIMIT B,SD AIR CLG UNIT 3	HI SPEED			
		L0527	STM GEN 2 NR LT-0527 LVL	7.0	25.0	PC	
		L0528	STM GEN 2 NR LT-0527 LVL	7.0	24.0	PC	
		ZD3466	DG/ESF SUPPLY FAN 2 TRAIN B	ON			
	LO ALERT	L0402	STM GEN 1 NR LT-0551 LVL	9.2	25.0	PC	
	LO ALARM	L0402	STM GEN 1 NR LT-0551 LVL	9.2	24.0	PC	
	LO ALERT	L0403	STM GEN 1 NR LT-0517 LVL	10.2	25.0	PC	
	LO ALARM	L0403	STM GEN 1 NR LT-0517 LVL	10.3	24.0	PC	
	RETURN	ZD3472	DG/ESF SUPPLY FAN 4 TRAIN B	ON			
	LO ALERT	L0400	STM GEN 1 NR LT-0518 LVL	9.1	25.0	PC	
	LO ALARM	L0400	STM GEN 1 NR LT-0518 LVL	9.2	24.0	PC	
	LO ALERT	L0420	STM GEN 2 NR LT-0528 LVL	3.2	25.0	PC	
	LO ALARM	L0420	STM GEN 2 NR LT-0528 LVL	3.2	24.0	PC	
	ALARM	ZD3262	RCP 2	STOPPED			
	ALARM	ZD3504	RCP 4	STOPPED			
	LO ALERT	L0441	STM GEN 3 NR LT-0553 LVL	4.4	25.0	PC	
	LO ALARM	L0441	STM GEN 3 NR LT-0553 LVL	4.4	24.0	PC	
	LO ALARM	P2033	REHEAT STM TO LP TURB B	-.52	-.50	VOLTAGE	
	ALERT	P2445	HTR DRN PMP A DISCH	639.	635.	PSIG	
		L0469	STM GEN 4 NR LT-0547 LVL	8.9	25.0	PC	
		L0470	STM GEN 4 NR LT-0547 LVL	8.9	24.0	PC	
		L0431	STM GEN 1 NR LT-0519 LVL	2.9	25.0	PC	
		L0432	STM GEN 1 NR LT-0519 LVL	2.9	24.0	PC	
	HI ALARM	YC231	MN GEN FREQUENCY	55.0	58.0	HZ	
	LO LO ALARM	YC231	MN GEN FREQUENCY	55.0	57.0	HZ	
	HI ALARM	[illegible]	MN GEN FIELD TEMP	-.00	1.60	VOLTAGE	
	LO ALERT	L0421	STM GEN 2 NR LT-0552 LVL	2.1	25.0	PC	
	LO ALARM	L0421	STM GEN 2 NR LT-0552 LVL	[illegible]	24.0	PC	

Time	Alarm Type	Point	Description	Value	Limit	Units
[illegible]	LO ALARM	[illegible]	[illegible] LVL	35.4	25.0	PC
[illegible]	LO ALERT	[illegible]	STM GEN 2 WR LT-0502 LVL	[illegible]	15.0	PC
[illegible]	LO ALERT	L0440	STM GEN 3 WR LT-0503 LVL	9.1	24.0	PC
[illegible]	SENSOR [illegible]	F0127	RCP3 SEAL INJECTION WTR FLOW	10.88	10.50	VOLTAGE
[illegible]	[illegible]	F0131	RCP1 SEAL INJECTION WTR FLOW	10.90	10.50	VOLTAGE
[illegible]	[illegible]	F0129	RCP2 SEAL INJECTION WTR FLOW	11.12	10.50	VOLTAGE
[illegible]	[illegible]	PD0450	PRZR LO PRESS 2	TR		
[illegible]	[illegible]	[illegible]	PRZR LO PRESS 3	TR		
[illegible]	[illegible]	PD0488	PRZR LO PRESS 4 PT	TR		
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0540 LVL	7.2	25.0	PC
[illegible]	[illegible]	L0460	STM GEN 4 NR LT-0548 LVL	7.2	24.0	PC
[illegible]	[illegible]	L0462	STM GEN 2 NR LT-0537 LVL	[illegible]	25.0	PC
[illegible]	[illegible]	L0461	STM GEN 3 NR LT-0537 LVL	[illegible]	24.0	PC
[illegible]	[illegible]	L0461	STM GEN 4 NR LT-0547 LVL	[illegible]	25.0	PC
[illegible]	[illegible]	L0461	STM GEN 4 NR LT-0549 LVL	[illegible]	34.0	PC
[illegible]	[illegible]	F0401	RCL1 CH II FT-0415 FLOW	108.4	108.0	PC
[illegible]	[illegible]	F0400	RCL1 CH I FT-0414 FLOW	107.2	109.0	PC
[illegible]	[illegible]	F0440	RCL3 CH I FT-0434 FLOW	109.4	109.0	PC
[illegible]	[illegible]	T0460	RCL4 1 TAVG	561.88	564.00	DEGF
[illegible]	[illegible] ALARM	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	10.66	10.50	VOLTAGE
[illegible]	[illegible]	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	XXXXXXXB	120.0	PC
[illegible]	[illegible]	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	XXXXXXXB	122.0	PC
[illegible]	[illegible]	PD0484	PRZR LO PRESS 1	TR		
[illegible]	[illegible]	ZD2150	MS BYPASS 1 TO CNDSR C	NOPEN		
[illegible]	[illegible]	ZD2153	MS BYPASS 2 TO CNDSR A	CLOSED		
[illegible]	[illegible]	PD0487	PRZR LO PRESS 4	TR		
[illegible]	[illegible]	ZD2155	MS BYPASS 3 TO CNDSR B	CLOSED		
[illegible]	[illegible]	ZD2167	MS BYPASS 4 TO CNDSR B	NCLOSED		
[illegible]	[illegible]	LA0702	RPSM 02 HI INTERM RNG FLUX	NORMAL		
[illegible]	[illegible]	ZD2157	MS BYPASS 2 TO CNDSR C	CLOSED		
[illegible]	[illegible]	LA0703	RPSM 03 HI POWER RNG LO RNG FLUX	NORMAL		
[illegible]	[illegible]	[illegible]	SQ1 TOTAL THERMAL CIM Q TILT	100.2	2.3	PC
[illegible]	[illegible]	[illegible]	SQ2 TOTAL THERMAL CIM Q TILT	-100.0	-2.3	PC
[illegible]	[illegible]	[illegible]	SQ3 TOTAL THERMAL CIM Q TILT	99.8	2.3	PC
[illegible]	[illegible]	LA0711	RPSM 11 LO PRESSURIZER P	ALARM		
[illegible]	[illegible]	PD0482	PRZR LO PRESS 2 P11	RESET		
08:29:	[illegible]	PD0494	PRZR LO PRESS 3 P11	RESET		
08:20:	[illegible]	LA0711	RPSM 11 LO PRESSURIZER P	NORMAL		
[illegible]	[illegible] RETURN	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	10.43	10.50	VOLTAGE
[illegible]	ALARM	LA0719	RPSM 19 LO-LO SG WATER L	ALARM		
[illegible]	LO ALERT RETURN	U0523	RCL ROD CNTL MAX ST DEV FROM MEA	-.4	-3.0	PC
08:20:[illegible]	LO ALERT RETURN	U0527	RCL CNTL MAX TAVG DEV FROM MEAS	-2.1	-3.0	DEGF
[illegible]	SENSOR RETURN	F0127	RCP3 SEAL INJECTION WTR FLOW	7.16	10.50	VOLTAGE
[illegible]	SENSOR RETURN	F0131	RCP1 SEAL INJECTION WTR FLOW	7.08	10.50	VOLTAGE
[illegible]	SENSOR RETURN	F0129	RCP2 SEAL INJECTION WTR FLOW	7.15	10.50	VOLTAGE
[illegible]	SENSOR LO ALARM	F0429	RCL2 CH I FT-0424 FLOW	-.59	-.50	VOLTAGE
[illegible]	ALARM	F0441	RCL3 CH II FT-0435 FLOW	109.0	109.0	PC
[illegible]	HI ALERT	T2214	MSDT A DUMP TO CNDSR C	255.	150.	DEGF
[illegible]	HI ALERT	T2217	MSDT B DUMP TO CNDSR A	268.	150.	DEGF
[illegible]	HI ALERT	T2223	MSDT C DUMP TO CNDSR A	262.	150.	DEGF
[illegible]	HI ALERT	T2227	MSDT D DUMP TO CNSR A	265.	156.	DEGF
[illegible]	HI ALERT RETURN	F2151	REHEATING STM TO MSR A	964.	1000.	PSIG
[illegible]	HI ALERT RETURN	F2152	REHEATING STM TO MSR B	961.	1000.	PSIG
[illegible]	ALARM	F0402	RCL1 CH III FT-0416 FLOW	109.2	109.0	PC
[illegible]	HI ALARM	T3007	MN GEN STATOR SLOT NO 7	155.	147.	DEGF
[illegible]	[illegible]	PD0487	PRZR LO PRESS 4	NOT TR		
[illegible]	[illegible]	ZD0460	CNMT BLDG AIR CLG UNIT 4	HI SPEED		
[illegible]	[illegible]	ZD0462	CNMT BLDG AIR CLG UNIT 6	HI SPEED		
[illegible]	[illegible]	[illegible]	REHEATING STM TO MSR C	958.	1000.	PSIG
[illegible]	[illegible]	[illegible]	REHEATING STM TO MSR D	96.	1000.	PSIG
[illegible]	[illegible]	[illegible]	PRZR LO PRESS 1	NOT TR		
[illegible]	[illegible]	[illegible]	CNMT BLDG AIR CLG UNIT 7	HI SPEED		
[illegible]	[illegible]	[illegible]	MN GEN STATOR [illegible] BAR 32	126.	122.	DEGF
[illegible]	[illegible]	[illegible]	MN GEN STATOR [illegible] BAR 36	126.	120.	DEGF
[illegible]	[illegible]	[illegible]	RCP1 SEAL INJECTION WTR FLOW	[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible] FLOW	[illegible]	[illegible]	VOLTAGE
[illegible]	[illegible]	MN GEN STATOR SLOT NO [illegible]	[illegible]	[illegible]	DEGF
[illegible]	[illegible]	[illegible] BLOCK VALVE	CLOSED		
[illegible]	[illegible]	[illegible] BLOCK VALVE	CLOSED		
[illegible]	[illegible]	[illegible] BLOCK VALVE	CLOSED		
[illegible]	[illegible]	HTR [illegible] DRAIN FLOW	1.26	1.60	VOLTAGE
[illegible]	[illegible]	[illegible] COOLANT FLOW	5.72	10.50	VOLTAGE
[illegible]	[illegible]	EHC [illegible] POWER	TRIP		
[illegible]	[illegible]	HTR [illegible] DRAIN FLOW	[illegible]	1.60	VOLTAGE
[illegible]	[illegible]	MN GEN STATOR SLOT NO 2	[illegible]	147.	DEGF
[illegible]	[illegible]	MN GEN STATOR SLOT NO 10	[illegible]	147.	DEGF
[illegible]	[illegible]	MN GEN STATOR SLOT NO 11	152.	147.	DEGF
[illegible]	[illegible]	MN GEN STATOR SLOT NO 3	[illegible]	[illegible]	DEGF
[illegible]	[illegible]	RCP[illegible] SEAL INJECTION WTR FLOW	14.1	15.0	GPM
[illegible]	F0127	RCP[illegible] SEAL INJECTION WTR FLOW	14.1	15.0	GPM
[illegible]	F0131	RCP1 SEAL INJECTION WTR FLOW	13.[illegible]	15.0	GPM
[illegible]	[illegible]	EHC GEN LOSS OF STATOR CLG TRIP	TRIPPED		
[illegible]	T3C39	MN GEN STATOR SLOT NO 39	147.	147.	DEGF
[illegible]	F0401	RCL1 CH II FT-0415 FLOW	102.0	102.0	PC
[illegible]	T3047	MN GEN STATOR SLOT NO 47	128.	133.	DEGF
[illegible]	T3048	MN GEN STATOR SLOT NO 48	128.	133.	DEGF
[illegible]	ID2149	MS BYPASS 1 TO CNDSR B	CLOSED		
[illegible]	ID2151	MS BYPASS 1 TO CNDSR C	CLOSED		
[illegible]	T3069	MN GEN STATOR SLOT NO 69	1[illegible]9.	147.	DEGF
[illegible]	[illegible]	MN GEN STATOR SLOT NO 56	151.	147.	DEGF
[illegible]	LA0711	RPSM 11 LO PRESSURIZER P	ALARM		
[illegible]	[illegible]	RPSM 07 LO PRESSURIZER P (SI)	ALARM		
[illegible]	[illegible]	RPSM 12 HI OVERTEMP DELTA T	ALARM		
[illegible]	LA0720	RPSM 20 LO STEAMLINE P	ALARM		
[illegible]	[illegible]	RPSM 12 HI OVERTEMP DELTA T	NORMAL		
[illegible]	LA0711	RPSM 11 LO PRESSURIZER P	NORMAL		
[illegible]	[illegible]	HTR 1A DRN TO CNDSR	NCLOSED		
[illegible]	[illegible]	[illegible]	ALARM		
[illegible]	[illegible]	PRESSURIZER LEVEL 1/2/3 AVG	53.	60.	PC
[illegible]	[illegible]	CHARGING PMP DISCH HDR PRESS	2171.	2[illegible]0.	PSIG
08:21:[illegible]	P0162	CHARGING PMP DISCH HDR PRESS	2171.	2200.	PSIG
08:21:[illegible]	[illegible]	DISPLAY - CHARGING PUMPS	ALARM		
[illegible]	[illegible]	REL FUEL ASSY C14 PWR	.683	.600	
[illegible]	[illegible]	REL FUEL ASSY G06 PWR	.078	.600	
[illegible]	[illegible]	REL FUEL ASSY H15 PWR	.534	.600	
[illegible]	[illegible]	REL FUEL ASSY N04 PWR	HHHHHHHH	.600	
[illegible]	[illegible]	INCORE TC BASED RADIAL TILT 04	1.046	1.050	
[illegible]	[illegible]	INCORE TC BASED RADIAL TILT 02	.99[illegible]	.950	
[illegible]	[illegible]	RCL2 UNCORR FLOW 1/2/3 AVG	20.8	[illegible].0	PC
[illegible]	[illegible]	REL FUEL ASSY N14 PWR	.635	.600	
[illegible]	[illegible]	PRESSURIZER PRESS AVG	2028.	2100.	PSIG
[illegible]	[illegible]1191	REL FUEL ASSY N02 PWR	.661	.600	
[illegible]	[illegible]	MN GEN STATOR SLOT NO 36	133.	133.	DEGF
[illegible]	[illegible]	REL FUEL ASSY D02 PWR	.652	.600	
[illegible]	[illegible]	DISPLAY - RCP NO. 1	NORMAL		
[illegible]	[illegible]	MS BYPASS 1 TO CNDSR B	NCLOSED		
[illegible]	[illegible]	MS BYPASS 1 TO CNDSR C	NCLOSED		
[illegible]	[illegible]	HTR 1A DRN TO CNDSR	CLOSED		
[illegible]	[illegible]	SAFETY SYS BY-PASSED TRAIN A	YES		
[illegible]	[illegible]	DISPLAY - RCP NO. [illegible]	NORMAL		
[illegible]	[illegible]	DISPLAY - RCP SEALS	NORMAL		
[illegible]	[illegible]	DELTA FLUX PROG INPUT DATA STATE	CUTOFF		
[illegible]	[illegible]	[illegible] DRAIN TO HTR [illegible]	534.	545.	DEGF
[illegible]	[illegible]	[illegible] TRAIN B SUPPLY HDR	114.	65.	PSIG
[illegible]	[illegible]	[illegible] TO CLG TWR TRAIN B	OPEN		
[illegible]	[illegible]	[illegible] DRAIN TO HTR 6B	534.	545.	DEGF
[illegible]	[illegible]	RCL[illegible] UNCORR FLOW [illegible] AVG	[illegible]4.6	[illegible]	PC
[illegible]	[illegible]	SG1 TOTAL THERMAL LIM [illegible] TILT	0.05	[illegible]	PC
[illegible]	[illegible]	SG2 TOTAL THERMAL LIM [illegible] TILT	[illegible]	[illegible]	PC

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Time	Status	Point	Description	Value	Limit	Units
[illegible]	LO ALERT RET...	[illegible]	SOX TOTAL THERMAL GEN O TILT	[illegible]	[illegible]	PC
[illegible]	[illegible]	U0527	[illegible]	[illegible]	[illegible]	DEGF
[illegible]	HI ALERT	F0442	[illegible] FLOW	100.1	100.0	PC
[illegible]	ALARM	[illegible]	TURB TRIP & RX TRIP	RESET		
[illegible]	[illegible]	[illegible]	TREF SETPOINT DEV FROM COMPUTER	-8.2	-5.0	DEGF
[illegible]	[illegible]	[illegible]	RCL LO FLOW & P7 RX TRIP	NOT TR		
[illegible]	[illegible]	[illegible]	TURB TRIP & RX TRIP	RESET		
[illegible]	[illegible]	ID2104	HTR 1A DRN TO CNDSR	NCLOSED		
[illegible]	[illegible]	[illegible]	PRZR LO PRESS & P7	NOT TR		
[illegible]	[illegible]	[illegible]	RCP BUS UNDER V & P7 RELAY	NOT TR		
[illegible]	[illegible]	[illegible]	SG LIVE & TURB POWER RX TRIP P7	RESET		
[illegible]	[illegible]	[illegible]	RPSM 16 RCP UNDERFREQUENCY	ALARM		
[illegible]	[illegible]	ID2104	HTR 1A DRN TO CNDSR	CLOSED		
[illegible]	[illegible]	L0801	PRESSURIZER LVL DEV FROM SETPOIN	12.8	10.0	PC
[illegible]	[illegible]	L0711	RPSM 11 LO PRESSURIZER P	ALARM		
[illegible]	[illegible]	L0706	RPSM 06 HI PRESS. IZER L	ALARM		
[illegible]	[illegible]	ID2164	MS BYPASS 4 TO CNDSR A	NOPEN		
[illegible]	[illegible] RETURN	U0527	RCL CNTL MAX TAVG DEV FROM MEAS	-2.2	-3.0	DEGF
[illegible]	[illegible]	ID2168	MS BYPASS 4 TO CNDSR C	NOPEN		
[illegible]	[illegible]	ID2151	MS BYPASS 1 TO CNDSR C	CLOSED		
[illegible]	[illegible]	ID2167	MS BYPASS 4 TO CNDSR B	CLOSED		
[illegible]	[illegible]	ID2163	MS BYPASS 4 TO CNDSR A	CLOSED		
[illegible]	[illegible]	ID2169	MS BYPASS 4 TO CNDSR C	CLOSED		
[illegible]	[illegible] ALERT RETURN	P2445	HTR DRN PMP A DISCH	611.	635.	PSIG
[illegible]	[illegible] ALARM	F2287	HTR 6B DRAIN FLOW	1.27	1.60	VOLTAGE
[illegible]	ALARM	[illegible]	HTR 6B DRN TO CNDSR	NCLOSED		
[illegible]	LO ALERT RETURN	F2072	CCW TRN B SUPPLY HDR FLOW	9920.	8000.	GPM
[illegible]	LO ALERT	F2072	CCW TRN B SUPPLY HDR FLOW	9920.	8100.	GPM
[illegible]	[illegible] ALERT RETURN	P2072	CCW TRN B SUPPLY HDR	92.	93.	PSIG
[illegible]	[illegible] ALERT RETURN	T3167	MN GEN STATOR CLG WTR OUT BAR 67	11?.	112.	DEGF
[illegible]	[illegible] ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 32	11?.	112.	DEGF
[illegible]	[illegible] ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 55	11?.	112.	DEGF
[illegible]	[illegible] ALERT RETURN	[illegible]	RCL RCS CNTL MAX DT DEV FROM MEA	-2.7	-3.0	PC
[illegible]	[illegible]	[illegible]	SAFETY SYS BYPASSED TRAIN C	YES		
[illegible]	[illegible] ALERT RETURN	T3104	MN GEN STATOR CLG WTR OUT BAR 4	117.	112.	DEGF
08:22:[illegible]	[illegible] ALERT RETURN	T3101	MN GEN STATOR CLG WTR OUT BAR [illegible]	115.	112.	DEGF
08:22:[illegible]	ALARM	[illegible]	AUX FW PMP 1 DISCH SG 4 TRAIN C	NOPEN		
08:22:[illegible]	ALARM	[illegible]	AUX FW PMP 1 DISCH SG 3 TRAIN [illegible]	NOPEN		
[illegible]	[illegible] ALERT RETURN	T3103	MN GEN STATOR CLG WTR OUT BAR 3	116.	112.	DEGF
[illegible]	[illegible] ALERT RETURN	T3107	MN GEN STATOR CLG WTR OUT BAR 7	115.	112.	DEGF
[illegible]	[illegible] ALERT RETURN	T3112	MN GEN STATOR CLG WTR OUT BAR 12	115.	112.	DEGF
[illegible]	LO ALERT RETURN	T3113	MN GEN STATOR CLG WTR OUT BAR 13	115.	112.	DEGF
[illegible]	LO ALERT RETURN	T3115	MN GEN STATOR CLG WTR OUT BAR 15	115.	112.	DEGF
[illegible]	LO ALERT RETURN	T3121	MN GEN STATOR CLG WTR OUT BAR 21	115.	112.	DEGF
[illegible]	LO ALERT RETURN	T3137	MN GEN STATOR CLG WTR OUT BAR 37	115.	112.	DEGF
[illegible]	LO ALERT RETURN	T3139	MN GEN STATOR CLG WTR OUT BAR 39	121.	112.	DEGF
[illegible]	LO ALERT RETURN	T3141	MN GEN STATOR CLG WTR OUT BAR 41	120.	112.	DEGF
[illegible]	LO ALERT RETURN	T3146	MN GEN STATOR CLG WTR OUT BAR 46	1?6.	112.	DEGF
[illegible]	LO ALERT RETURN	T3150	MN GEN STATOR CLG WTR OUT BAR 50	11?.	112.	DEGF
[illegible]	LO ALERT RETURN	T3151	MN GEN STATOR CLG WTR OUT BAR 51	118.	112.	DEGF
[illegible]	LO ALERT RETURN	T3154	MN GEN STATOR CLG WTR OUT BAR 54	116.	112.	DEGF
[illegible]	LO ALERT RETURN	T3156	MN GEN STATOR CLG WTR OUT BAR 56	115.	112.	DEGF
[illegible]	LO ALERT RETURN	T3157	MN GEN STATOR CLG WTR OUT BAR 57	117.	112.	DEGF
[illegible]	LO ALERT RETURN	T3159	MN GEN STATOR CLG WTR OUT BAR 59	117.	112.	DEGF
[illegible]	LO ALERT RETURN	T3166	MN GEN STATOR CLG WTR OUT BAR 66	118.	112.	DEGF
[illegible]	LO ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 78	124.	112.	DEGF
[illegible]	[illegible]	[illegible]	MN GEN STATOR CLG WTR OUT BAR 38	124.	[illegible]	DEGF
[illegible]	ALARM	[illegible]	AUX FW PMP 1 DISCH SG 4 TRAIN C	NOPEN		
[illegible]	ALARM	[illegible]	AUX FW PMP 1 DISCH SG 3 TRAIN C	NOPEN		
[illegible]	LO ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 62	120.	112.	DEGF
[illegible]	LO ALERT RETURN	T3170	MN GEN STATOR CLG WTR OUT BAR 70	119.	112.	DEGF
[illegible]	RETURN	ID2024	HTR 6B DRN TO CNDSR	CLOSED		
[illegible]	LO ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 36	115.	112.	DEGF
[illegible]	LO ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 40	[illegible]	112.	DEGF

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\	08:22:37	SENSOR RETURN	T3052	DAB25 CLG WTR 2	[illegible]
\	08:22:37	SENSOR RETURN	T3051	DAB25 CLG WTR 1	[illegible]
\	08:22:42	RETURN	ZD2264	HTR 1C DRN TO CNDSR	CLOSED
\	08:22:44	SENSOR RETURN	F2245	HTR 1A DRAIN FLOW	[illegible]
\	08:22:45	SENSOR RETURN	F2247	HTR 6B DRAIN FLOW	[illegible]
\	08:22:46	HI ALERT RETURN	[illegible]	[illegible]	[illegible]
J	08:22:50	ALARM	LA0516	BMP 10 RCL [illegible]	[illegible]
J	08:22:50	ALARM	LA0511	BMP 11 RCL [illegible]	[illegible]
J	08:22:50	ALARM	LA0512	BMP 12 RCL [illegible]	[illegible]
J	08:22:50	ALARM	LA0518	BMP 18 PRESSURIZER [illegible]	[illegible]
J	08:22:51	HI ALERT	[illegible]	TAVG DEVIATION [illegible]	[illegible]
J	08:22:52	ALARM	ZD2274	HTR 2E DRN TO CNDSR	[illegible]
J	08:22:57	ALARM	ZD2265	BHTR DRN TO [illegible]	[illegible]
J	08:22:59	HI ALERT	F0237	RCP2 SEAL INJECTION WTR FLOW	[illegible]
J	08:22:59	HI ALERT	F0131	RCP1 SEAL INJECTION WTR FLOW	[illegible]
J	08:22:59	ALARM	LA0507	BMP 07 RCL 4 [illegible]	ALARM
\	08:22:59	RETURN	LA0513	BMP 13 RCL TAVG	NORMAL
\	08:22:59	RETURN	LA0519	BMP 19 PRESSURIZER 1	NORMAL
\	08:23:01	RETURN	P0463	FRZR LO PRESS 1	NOT TR
\	08:23:02	RETURN	P0486	FRZR LO PRESS 3	NOT TR
J	08:23:04	ALARM	ZD2147	MS BYPASS 1 TO CNDSR A	[illegible]
J	08:23:04	ALARM	ZD2151	MS BYPASS 1 TO CNDSR C	[illegible]
J	08:23:04	ALARM	ZD2153	MS BYPASS 2 TO CNDSR A	[illegible]
J	08:23:04	ALARM	ZD2155	MS BYPASS 2 TO CNDSR B	[illegible]
J	08:23:04	ALARM	ZD3501	RCP 1	[illegible]
J	08:23:04	ALARM	ZD2167	MS BYPASS 4 TO CNDSR B	[illegible]
J	08:23:04	LO ALERT	T0426	RCL2 WIDE RNG COLD LEG TEMP	[illegible]
J	08:23:04	LO ALERT	T0466	RCL4 WIDE RNG COLD LEG TEMP	[illegible]
J	08:23:04	LO ALERT	T0406	RCL1 WIDE RNG COLD LEG TEMP	[illegible]
J	08:23:04	ALARM	ZD2157	MS BYPASS 4 TO CNDSR C	[illegible]
J	08:23:04	ALARM	ZD2159	MS BYPASS 3 TO CNDSR A	[illegible]
J	08:23:04	ALARM	ZD2161	MS BYPASS 3 TO CNDSR B	[illegible]
J	08:23:04	ALARM	ZD2163	MS BYPASS 3 TO CNDSR C	[illegible]
J	08:23:04	ALARM	ZD2165	MS BYPASS 4 TO CNDSR A	[illegible]
J	08:23:05	ALARM	ZD2169	MS BYPASS 4 TO CNDSR C	[illegible]
J	08:23:07	HI ALERT	F2445	HTR DRN PMP A DISCH	[illegible]
J	08:23:08	ALARM	ZD2341	AUX FW PMP 3 DISCH SG 2 TRAIN B	NORMAL
J	08:23:08	HI ALARM	F0127	RCP3 SEAL INJECTION WTR FLOW	[illegible]
J	08:23:08	HI ALARM	F0131	RCP1 SEAL INJECTION WTR FLOW	[illegible]
J	08:23:09	ALARM	ZD2254	HTR 1A DRN TO CNDSR	ALARM
J	08:23:09	ALARM	ZD2343	AUX FW PMP 3 DISCH SG 4 TRAIN A	NORMAL
\	08:23:09	RETURN	ZD2274	HTR 2E DRN TO CNDSR	CLOSED
\	08:23:09	LO ALERT RETURN	P0142	CHARGING PMP DISCH HDR PRESS	[illegible]
\	08:23:09	LO RETURN	P0142	CHARGING PMP DISCH HDR PRESS	[illegible]
\	08:23:10	LO ALERT RETURN	T0426	RCL2 WIDE RNG COLD LEG TEMP	[illegible]
\	08:23:10	LO ALERT RETURN	T0466	RCL4 WIDE RNG COLD LEG TEMP	[illegible]
\	08:23:10	LO ALERT RETURN	T0406	RCL1 WIDE RNG COLD LEG TEMP	[illegible]
\	08:23:11	LO ALERT RETURN	T3153	MN GEN STATOR CLG WTR OUT BAR 33	[illegible]
\	08:23:12	LO ALERT RETURN	T3134	MN GEN STATOR CLG WTR OUT BAR 34	[illegible]
\	08:23:12	LO ALERT RETURN	T3144	MN GEN STATOR CLG WTR OUT BAR 44	[illegible]
J	08:23:12	HI ALERT	T3144	MN GEN STATOR CLG WTR OUT BAR 44	[illegible]
\	08:23:12	LO ALERT RETURN	T3111	MN GEN STATOR CLG WTR OUT BAR 11	[illegible]
\	08:23:12	RETURN	ZD2254	HTR 1A DRN TO CNDSR	CLOSED
J	08:23:12	ALARM	ZD2345	AUX FW PMP 3 DISCH SG 1 TRAIN A	NORMAL
\	08:23:13	LO ALERT RETURN	T3135	MN GEN STATOR CLG WTR OUT BAR 35	[illegible]
\	08:23:13	LO ALERT RETURN	T3165	MN GEN STATOR CLG AIR OUT BAR 65	[illegible]
J	08:23:14	SENSOR LO ALARM	F2247	HTR 1C DRAIN FLOW	[illegible]
J	08:23:14	ALARM	ZD2339	AUX FW PMP 2 DISCH SG 2 TRAIN B	NORMAL
\	08:23:14	RETURN	ZD2147	MS BYPASS 1 TO CNDSR A	CLOSED
\	08:23:14	RETURN	ZD2151	MS BYPASS 1 TO CNDSR C	CLOSED
\	08:23:14	RETURN	ZD2153	MS BYPASS 2 TO CNDSR A	CLOSED
\	08:23:14	RETURN	ZD2155	MS BYPASS 2 TO CNDSR B	CLOSED
\	08:23:14	RETURN	ZD3501	RCP 1	RUNNING
\	08:23:14	RETURN	ZD2167	MS BYPASS 4 TO CNDSR B	CLOSED

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\	08:23:16	RETURN	ZD2161	MS BYPASS 3 TO CNDSR B	CLOSED	
\	08:23:16	RETURN	ZD2163	MS BYPASS 2 TO CNDSR C	CLOSED	
\	08:23:16	RETURN	ZD2165	MS BYPASS 4 TO CNDSR A	CLOSED	
\	08:23:16	RETURN	ZD2169	MS BYPASS 4 TO CNDSR C	CLOSED	
1	08:23:16	ALARM	PD0493	PRZR LO PRESS 2 P11	SET	
\	08:23:18	HI ALERT RETURN	F0127	RCP2 SEAL INJECTION WTR FLOW		
\	08:23:18	HI RETURN	F0127	RCP2 SEAL INJECTION WTR FLOW		
\	08:23:18	HI ALERT RETURN	F0131	RCP1 SEAL INJECTION WTR FLOW		
\	08:23:18	HI RETURN	F0131	RCP1 SEAL INJECTION WTR FLOW		
\	08:23:18	LO ALERT RETURN	T3161	MN GEN STATOR CLG WTR OUT BRG 4		
\	08:23:18	HI ALERT RETURN	U0429	RCS TEMP A TCOLD		
\	08:23:19	LO ALERT RETURN	T3147	MN GEN STATOR CLG WTR OUT BRG 3		
\	08:23:19	LO ALERT RETURN	T3140	MN GEN STATOR CLG WTR OUT BRG 4		
\	08:23:19	LO ALERT RETURN	T3164	MN GEN STATOR CLG WTR OUT BRG 3		
\	08:23:20	LO ALERT RETURN	T3142	MN GEN STATOR CLG WTR OUT BRG 4		
	08:23	ROD SUPERVISION WARNING # 1 PROGRAM				
\	08:23:20	LO ALERT RETURN	T3147	MN GEN STATOR CLG WTR OUT BRG 3		
1	08:23:20	ALARM	PD0494	PRZR LO PRESS 3 P11		
\	08:23:21	LO ALERT RETURN	T3142	MN GEN STATOR CLG WTR OUT BRG 4		
\	08:23:22	SENSOR LO ALARM	[illegible]	HTR 1B DRAIN FLOW		
\	08:23:22	RETURN	LA0707	RPSM 27 [illegible]		
\	08:23:23	RETURN	LA0720	RPSM 20 LO STEPPING F		
\	08:23:24	LO ALERT RETURN	T3140	MN GEN STATOR CLG WTR OUT BRG 4		
\	08:23:24	LO ALERT RETURN	T3145	MN GEN STATOR CLG WTR OUT BRG 3		
\	08:23:25	LO ALERT RETURN	T3162	MN GEN STATOR CLG WTR OUT BRG 4		
\	08:23:26	LO ALERT RETURN	T3119	MN GEN STATOR CLG WTR OUT BRG 3		
\	08:23:27	RETURN	LA0523	RMF 23 RCL 5 F		
1	08:23:27	ALARM	ZL2254	HTR 1A DRN TO CNDSR		
\	08:23:27	LO ALERT RETURN	T3112	MN GEN STATOR CLG WTR OUT BRG 3		
\	08:23:29	HI ALERT	[illegible]	[illegible] DIRCH MGR [illegible]		
\	08:23:29	RETURN	ZL2255	HTR 1A DRN TO CNDSR		
\	08:23:30	HI ALERT	[illegible]	[illegible]		
\	08:23:32	SENSOR RETURN	[illegible]	HTR 1B DRAIN FLOW		
\	08:23:33	HI ALERT RETURN	[illegible]	[illegible]		
\	08:23:34	HI ALERT	U0427	STM GEN 1 NAR RNG LVL		
\	08:23:37	HI ALERT	U0429	STM GEN 2 NAR RNG LVL		
\	08:23:38	HI ALERT	U0555	STM GEN 3 NAR RNG LVL		
\	08:23:38	HI ALERT	U0572	STM GEN 4 NAR RNG LVL		
\	08:23:40	HI ALERT RETURN	U0687	TAVG DEVIATION FROM REF TEMP		
\	08:23:42	HI ALERT	U0424	STM GEN 2 WIDE RANGE LVL		
\	08:23:42	HI ALERT RETURN	U0689	TAVG DEVIATION FROM MEAS TEMP		
\	08:23:43	LO ALERT	U0687	TAVG DEVIATION FROM REF TEMP		
\	08:23:52	HI ALERT RETURN	U0671	PRESSURIZER LVL DEV FROM REF PRN		
1	08:23:53	ALARM	ZL2269	HTR 2A DRN TO CNDSR		
\	08:24:02	ALARM	ZL2259	HTR 1A DRN TO CNDSR		
\	08:24:03	RETURN	ZD2254	HTR 1A DRN TO CNDSR		
\	08:24:14	SENSOR RETURN	F2266	HTR 1B DRAIN FLOW		
1	08:24:17	ALARM	LA0509	RMF 09 RCL 5 F		
\	08:24:19	RETURN	LA0513	RMF 13 RCL 5F		
1	08:24:21	ALARM	ZL2259	HTR 2B DRN TO CNDSR		
\	08:24:25	RETURN	LA0717	RPSM 17 EAR RNG AXIAL FLUX RATE TR		
1	08:24:25	ALARM	ZL2254	HTR 1A DRN TO CNDSR		
\	08:24:27	LO ALERT RETURN	T3125	MN GEN STATOR CLG WTR OUT BRG 3		
\	08:24:28	HI ALERT	T3088	MFPT A OIL TO BRG		
\	08:24:28	RETURN	ZL2259	HTR 2B DRN TO CNDSR		
\	08:24:29	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:30	HI ALERT RETURN	T3088	MFPT A OIL TO BRG		
\	08:24:32	ALARM	[illegible]	[illegible]		
\	08:24:33	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:34	HI ALERT	[illegible]	[illegible]		
\	08:24:35	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:36	HI ALERT	[illegible]	[illegible]		
\	08:24:37	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:38	HI ALERT	[illegible]	[illegible]		
\	08:24:39	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:40	HI ALERT	[illegible]	[illegible]		
\	08:24:41	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:42	HI ALERT	[illegible]	[illegible]		
\	08:24:43	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:44	HI ALERT	[illegible]	[illegible]		
\	08:24:45	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:46	HI ALERT	[illegible]	[illegible]		
\	08:24:47	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:48	HI ALERT	[illegible]	[illegible]		
\	08:24:49	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:50	HI ALERT	[illegible]	[illegible]		
\	08:24:51	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:52	HI ALERT	[illegible]	[illegible]		
\	08:24:53	HI ALERT RETURN	[illegible]	[illegible]		
\	08:24:54	HI ALERT	[illegible]	[illegible]		
\	08:24:55	HI ALERT RETURN	[illegible]	[illegible]		

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\	08:48:36	LO ALERT RETURN	L0461	STM GEN 4 NR LT-[illegible] LVL			
\	08:48:47	LO ALERT RETURN	T3110	[illegible]			
\	08:48:45	LO RETURN	L0463	STM GEN 4 NR LT-0547 LVL			
\	08:48:58	LO ALERT RETURN	L0462	STM GEN [illegible] LVL			
\	08:49:08	LO ALERT RETURN	L0463	STM GEN [illegible] LVL			
\	08:49:[illegible]	LO ALERT RETURN	L0460	STM GEN [illegible] LVL			
\	08:49:40	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND			⇐ PI = 2310
\	08:50:05	LO ALERT RETURN	T3135	GEN CLG [illegible]			
\	08:50:18	RETURN	LA0512	RMP 12 RCL DT	NORMAL		
\	08:50:30	RETURN	ZD2330	AUX FW PMP 1 DISCH SG 1 [illegible]			
\	08:50:31	RETURN	ZD2325	AUX FW PMP 1 DISCH SG 2 [illegible]			
]	08:50:41	HI ALERT	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND			⇐ PI = 2340
\	08:50:43	SENSOR RETURN	P2229	AFW PMP TURB DIFF PS TO FW [illegible]			
\	08:50:44	RETURN	ZD2327	AUX FW PMP 1 DISCH SG 3 [illegible]			
\	08:50:54	LO ALERT RETURN	U0475	STM GEN 4 NAR RNG LVL 1/[illegible]			
\	08:50:54	RETURN	ZD2331	AUX FW PMP 1 DISCH SG 4 [illegible]			
]	08:50:55	SENSOR LL ALARM	F2151	[illegible] STM TO MSR A			
]	08:51:14	ALARM	ZD2002	CB LTS FOR BRKR 2NA0418			# 4 RCP off - spray
]	08:51:14	ALARM	ZD2001	CB LTS FOR BRKR 2NA0417			
\	08:51:[illegible]	LO ALERT RETURN	L0421	STM GEN 2 NR LT-0552 LVL			
\	08:51:[illegible]	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND			⇐
]	08:51:27	HI ALARM	P0485	PRESSURIZER RELIEF TANK PRESSURE			⇐ PORV opened
\	08:51:35	RETURN	ZD3330	CB LTS FOR BRKR 2NA0105	CLOSED		
\	08:52:31	HI ALERT RETURN	T3135	MN GEN STATOR CLG WTR OUT [illegible]			
\	08:52:40	HI RETURN	T3132	MN GEN STATOR CLG WTR OUT [illegible]			
\	08:52:41	LO RETURN	L0423	STM GEN 2 NR LT-0527 LVL			
\	08:54:04	LO ALERT RETURN	U0689	TAVG DEVIATION FROM MEAS TREF	[illegible].4		
]	08:54:16	ALARM	LA0510	RMP 10 RCL TAVG	ALARM		
]	08:54:16	ALARM	LA0513	RMP 13 RCL DT	ALARM		
]	08:35:48	HI ALERT	F0484	PRESSUPIZER SPRAY CNTL 2 DEMAND	100.0	100.0	←
\	08:56:16	RETURN	LA0509	RMP 09 RCL 4 F	NORMAL		
]	08:56:39	LO ALARM	T0484	PRESSURIZER SPRAY WTR B INL TEMP	541.8	542.0	
]	08:57:17	ALARM	LA0509	RMP 09 RCL 4 F	ALARM		
\	08:57:23	LO RETURN	L0420	STM GEN 2 NR LT-0528 LVL	24.5		
]	08:57:34	HI ALERT	L0403	STM GEN 1 NR LT-0517 LVL	70.0	70.0	
\	08:57:37	HI RETURN	P0485	PRESSURIZER RELIEF TANK PRESSURE	7.0		←
\	08:58:34	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND			
\	08:58:59	HI ALERT RETURN	L0403	STM GEN 1 NR LT-0517 LVL			
\	08:59:08	LO ALERT RETURN	U0405	STM GEN 2 NAR RNG LVL 1/[illegible]			
\	09:00:17	RETURN	LA1500	KC PRED/BOR CALC			
]	09:00:17	ALARM	LA1500	KC PRED/BOR CALC			
]	09:0[illegible]	LO ALARM	L0420	STM GEN 2 NR LT-0528 LVL			

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09:10 XY - 2 GROUP: 33 SELECTED: AD & DOF OFF

09:09:17	LO ALERT	[illegible]	[illegible]
09:10:02	HI ALERT RETURN	U0415	RCL1 SELTD [illegible]
09:10:02	LO ALERT RETURN	U0415	RCL3 IN [illegible]
09:10:20	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:10:24	RETURN, B LINE BAD CARD STATUS	N0042	
09:11:22	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:11:28	LO ALERT	L0401	STM GEN 1 NR [illegible]
09:11:28	LO ALERT	L0401	STM GEN 1 NR [illegible]
09:11:28	LO ALERT	L0401	STM GEN 1 NR [illegible]
09:11:28	LO ALERT	L0401	STM GEN 1 NR [illegible]
09:11:28	LO ALERT	L0401	STM GEN 1 NR [illegible]
09:11:28	LO ALERT	L0401	STM GEN 1 NR [illegible]
09:11:44	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:12:22	ALARM	YD2040	TURNING GEAR MOTOR CONTROL
09:12:32	RETURN	YD2040	TURNING GEAR MOTOR CONTROL
09:12:35	LO RETURN	L0401	STM GEN 1 NR LT-0512 LVL
09:12:37	RETURN	LA0247	RMP 247 RCL MAR RNG TRIP
09:12:38	LO RETURN	L0400	STM GEN 1 NR LT-0510 LVL
09:12:38	LO ALERT	U0420	RCL RNG CNT MAX FT [illegible]
09:12:42	LO ALERT	U0415	STM GEN 1 NAR RNG LVL 1/2/3/4 [illegible]
09:14:14	ALARM, B LINE BAD CARD STATUS	N0042	
09:14:16	RETURN	LA0710	RMP 10 RCA TAVG
09:14:18	LO ALERT RETURN	L0400	STM GEN 1 NR LT-0510 LVL
09:14:18	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:14:21	RETURN, B LINE BAD CARD STATUS	N0042	
09:14:30	LO ALERT RETURN	L0401	STM GEN 1 NR LT-0512 LVL
09:14:34	LO ALERT RETURN	T2130	MN GEN STATOR CLG WTR OUT BAR [illegible]
09:14:38	LO ALERT RETURN	L0400	STM GEN 1 NR LT-0510 LVL
09:15:17	LO ALERT RETURN	T2015	MN GEN STATOR SLOT NO 15
09:15:20	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:15:22	LO ALERT RETURN	U0415	STM GEN 1 NAR RNG LVL 1/2/3/4 [illegible]
09:15:24	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:15:32	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:15:48	HI ALARM	F0442	RCL3 CH III FT-0436 FLOW
09:15:56	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW
09:20:47	LO RETURN	T0482	PRESSURIZER SURGE LINE TEMP
09:22:19	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:22:52	HI ALARM	F0442	RCL3 CH III FT-0436 FLOW
09:22:20	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:22:41	HI ALERT	T0127	REGEN HX LETDOWN OUT TEMP
09:22:52	HI ALARM	T0127	REGEN HX LETDOWN OUT TEMP
09:23:22	LO ALERT RETURN	T2128	MN GEN STATOR CLG WTR OUT BAR [illegible]
09:24:13	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW
09:24:14	ALARM	LS8508	DISPLAY - REGEN HX
09:24:21	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:24:44	HI ALARM	F0442	RCL3 CH III FT-0436 FLOW
09:25:07	LO ALERT RETURN	T2129	MN GEN STATOR CLG WTR OUT BAR [illegible]
09:25:12	HI ALERT RETURN	T2080	MFPT A OIL TO BRG
09:25:21	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:25:24	HI ALERT RETURN	T0127	REGEN HX LETDOWN OUT TEMP
09:25:24	HI RETURN	T0127	REGEN HX LETDOWN OUT TEMP
09:25:32	RETURN	LS2010	DISPLAY - MFPT A
09:25:35	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW
09:25:44	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:25:54	RETURN	LS8508	DISPLAY - REGEN HX
09:26:07	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:27:20	ALARM	YD2040	TURNING GEAR MOTOR CONTROL
09:27:44	RETURN	YD2036	EMC LOW RNG HI TEMP TRIP
09:27:44	RETURN	YL2027	MN TURB TO DIV. FMP
09:27:52	RETURN	YD2040	TURNING GEAR MOTOR CONTROL
09:28:18	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR
09:28:42	HI ALARM	F0442	RCL3 CH III [illegible]
09:28:52	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW

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1	09:29:19	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
1	09:29:41	ALARM	ZD0308	MN TURB EMERG BRG OIL PMP	STARTED
\	09:29:51	HI ALERT RETURN	T3144	MN GEN STATOR C-O WTR OUT TEMP	[illegible]
\	09:30:19	LO ALERT RETURN	U0430	RCL2 UNCORR FLOW	[illegible]
\	09:30:28	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
1	09:30:41	HI ALARM	F0441	RCL3 CH III FT-0426 FLOW	[illegible]
1	09:31:21	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
1	09:31:24	HI RETURN	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
1	09:32:54	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
\	09:33:19	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
\	09:33:32	HI RETURN	F0441	RCL3 CH III FT-0426 FLOW	[illegible]
1	09:33:45	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
1	09:34:19	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
\	09:34:26	HI RETURN	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
\	09:36:19	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
1	09:36:38	SENSOR RETURN	F2257	HTR SB DRAIN FLOW	1.61
1	09:37:16	ALARM	LA0310	RWM 10 REL TAVG	ALARM
1	09:37:29	SENSOR LO ALARM	F2257	HTR SB DRAIN FLOW	1.27
1	09:38:32	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
1	09:38:40	LO ALARM	T0482	PRESSURIZER SURGE LINE TEMP	[illegible]

ALARM

1:45 sec
before CRF

08:14:14	ALARM		ZR6000	PROTRUS/ERF TIME SYNC BID	ON	
08:15:17	TERMA		ZR4000	PROTRUS/ERF TIME SYNC BID	OFF	
08:14:14	RY	4	TEMP1	NOW TRAIN A SUPPLY HDR	67.7	DEGF
08:14:14	RY	4	SELECTED	4	ENGAGE DISPLAY/ASSIGN/REVIEW	
08:14:14	RY	4	ASCUF	AO SOLENOID:1 RO 4 BUP CRT		

Catch 102

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(5T6T1)

1	08:20:02	ALARM	ZD2263	HTR 1A DRN TO CNDSR	NCLOSED	\		
1	08:20:02	ALARM	ZD2264	HTR 1C DRN TO CNDSR	NCLOSED	\		
1	08:20:02	ALARM	ZD2461	CONDENSATE PMP C	STOPPED	\		
1	08:20:02	ALARM	LA0714	RPSM 14 TURBINE TRIP	ALARM	\		
\	08:20:02	RETURN	YE0400	ROD ALARM LCD	NORMAL	\		
1	08:20:02	LO ALERT	F0462	RCL4 CH III FT-0446 FLOW	57.1	89.0	PC	\
1	08:20:02	LO ALARM	F0462	RCL4 CH III FT-0446 FLOW	57.1	85.0	PC	\
1	08:20:03	SENSOR LO ALARM	P2814	GEN HYDROGEN	-.78	-.30	VOLTAGE	\
\	08:20:03	HI ALERT RETURN	T0460	RCL4 1 TAVG	585.03	588.50	DEGF	\
1	08:20:03	HI ALERT	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	120.0	PC	\
1	08:20:03	HI ALARM	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	122.0	PC	\
1	08:20:03	SENSOR LO ALARM	F2442	HTR DRN PMP B FLOW	1.34	1.60	VOLTAGE	\
1	08:20:03	LO ALERT	T3108	MN GEN STATOR CLG WTR OUT BAR 8	138.	139.	DEGF	\
1	08:20:03	LO ALERT	T3132	MN GEN STATOR CLG WTR OUT BAR 32	137.	139.	DEGF	\
1	08:20:03	ALARM	ZD2214	MSDT A DRN TO CNDSR	NCLOSED	\		
1	08:20:03	ALARM	ZD2224	MSDT C DRN TO CNDSR	NCLOSED	\		
1	08:20:03	ALARM	ZD2259	HTR 1B DRN TO CNDSR	NCLOSED	\		
1	08:20:03	ALARM	LD0425	STM GEN 2 LO-LO CH III LT-0529	TR	\		
1	08:20:03	HI ALERT	DP438	RCL2 DELTA T TILT	3679.8	3.5	PC	\
1	08:20:03	HI ALERT	DP478	RCL4 DELTA T TILT	3827.6	3.5	PC	\
1	08:20:04	LO ALERT	UX0.7	RCL CNTL MAX TAVG DEV FROM MEAS	6.0	-3.0	DEGF	\
1	08:20:04	HI ALERT	F2411	MFP B SPLT	662.	650.	FGPM	\
1	08:20:04	LO ALERT	P2561	PRESSURIZER 2 PRESSURE	2093.9	2100.2	PSIG	\
1	08:20:04	HI ALERT	F2421	MFP A SPLT	669.64	625.00	FGPM	\
1	08:20:04	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	155.0	120.0	PC	\
1	08:20:04	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	155.0	122.0	PC	\
\	08:20:04	HI ALERT RETURN	T0420	RCL2 1 TAVG	588.05	588.50	DEGF	\
1	08:20:04	ALARM	LD0426	STM GEN 2 LO-LO CH I LT-0551	TR	\		
1	08:20:04	ALARM	LD0436	STM GEN 1 LO-LO CH II LT-0518	TR	\		
1	08:20:04	ALARM	LD0416	STM GEN 1 LO-LO CH IV LT-0517	TR	\		
1	08:20:04	ALARM	LD0407	STM GEN 1 LO-LO LEVEL TRIP	TR	\		
1	08:20:04	ALARM	LD0425	STM GEN 2 LO-LO CH I LT-0527	TR	\		
1	08:20:04	ALARM	LD0435	STM GEN 2 LO-LO CH II LT-0552	TR	\		

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✓ 1A03 Bus energized

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				2.2	23.0	PC
				1.1	25.0	PC
				1.1	20.0	PC
				2.2	25.0	PC
				2.2	24.0	PC
				108.4	105.0	PC
				102.2	105.0	PC
				102.4	105.0	PC
				361.98	364.00	DEGF
				10.66	10.50	VOLTAGE
				XXXXXXXB	120.0	PC
				XXXXXXXB	122.0	PC
				TR		
				NOPEN		
				CLOSED		
				TR		
				CLOSED		
				NCLOSED		
				NORMAL		
				CLOSED		
				NORMAL		
				100.0	0.0	PC
				-100.0	0.0	PC
				99.8	0.0	PC
				ALARM		
				RESET		
				RESET		
				NORMAL		
				10.49	10.50	VOLTAGE
				ALARM		
				-.4	-3.0	PC
				-2.1	-3.4	DEGF
				7.16	10.50	VOLTAGE
				7.08	10.50	VOLTAGE
				7.15	10.50	VOLTAGE
				-.59	.50	VOLTAGE
				102.0	105.0	PC
				250.	150.	DEGF
				248.	150.	DEGF
				252.	150.	DEGF
				247.	150.	DEGF
				964.	1000.	PSIG
				961.	1000.	PSIG
				102.2	105.0	PC
				155.	142.	DEGF
				NOT TR		
				NOT SPEED		
				NOT SPEED		
				998.	1000.	PSIG
				991.	1000.	PSIG
				NOT TR		
				NOT SPEED		
				124.	139.	DEGF
				124.	139.	DEGF
				15.0	15.5	GPM
				121.	139.	DEGF
				-2.6	-3.0	PC

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J	08:23:12	ALARM	ZD2345	AUX FW PMP 3 DISCH SG 1 TRAIN A	OPEN			
\	08:23:12	LO ALERT RETURN	T3135	MN GEN STATOR CLG WTR OUT BAR 22	116.	109.	DEGF	\
\	08:23:14	LO ALERT RETURN	T3145	MN GEN STATOR CLG WTR OUT BAR 44	112.	109.	DEGF	\
J	08:23:14	SENSOR LO ALARM	F2247	HTR 1C DRAIN FLOW	1.27	1.60	VOLTAGE	\
J	08:23:14	*ALARM	ZD2339	AUX FW PMP 2 DISCH SG 2 TRAIN B	OPEN			
\	08:23:14	RETURN	ZD2147	MS BYPASS 1 TO CNDSR A	CLOSED			
\	08:23:14	RETURN	ZD2151	MS BYPASS 1 TO CNDSR C	CLOSED			
\	08:23:14	RETURN	ZD2153	MS BYPASS 2 TO CNDSR A	CLOSED			
\	08:23:14	RETURN	ZD2155	MS BYPASS 2 TO CNDSR B	CLOSED			
\	08:23:14	RETURN	ZD3501	RCP 1	RUNNING			
\	08:23:14	RETURN	ZD2167	MS BYPASS 4 TO CNDSR B	CLOSED			
\	08:23:16	RETURN	ZD2157	MS BYPASS 2 TO CNDSR C	CLOSED			
\	08:23:16	RETURN	ZD2159	MS BYPASS 3 TO CNDSR A	CLOSED			

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T2A2	MN GEN STATOR SLOT NO 2	122.	122.	DEGF	
T2A3	MN GEN STATOR SLOT NO 12	122.	122.	DEGF	
T2A4	MN GEN STATOR SLOT NO 14	122.	122.	DEGF	
T2A5	MN GEN STATOR SLOT NO 22	122.	122.	DEGF	
T2A6	MN GEN STATOR SLOT NO 34	122.	122.	DEGF	
T2A7	MN GEN STATOR SLOT NO 37	122.	122.	DEGF	
T2A8	MN GEN STATOR SLOT NO 42	122.	122.	DEGF	
T2B1	MN GEN STATOR SLOT NO 52	121.	122.	DEGF	
T2B2	MN GEN STATOR SLOT NO 55	121.	122.	DEGF	
T2B3	MN GEN STATOR CLG WTR OUT BAR 38	120.	120.	DEGF	
T2B4	MN GEN STATOR CLG WTR OUT BAR 38	111.	119.	DEGF	
T2B5	PRESSURIZER SURGE LINE TEMP	277.6	278.0	DEGF	
T2B6	SPRAY STD A	STOPPED			
T2B7	MN GEN STATOR SLOT NO 6	121.	122.	DEGF	
T2B8	MN GEN STATOR SLOT NO 14	121.	122.	DEGF	
T2C1	MN GEN STATOR SLOT NO 26	121.	122.	DEGF	
T2C2	MN GEN STATOR SLOT NO 30	121.	122.	DEGF	
T2C3	MN GEN STATOR SLOT NO 32	121.	122.	DEGF	
T2C4	MN GEN STATOR SLOT NO 47	121.	122.	DEGF	
T2C5	STM GEN 2 LO-LO CH II LT-0528	NOT TR			
T2C6	PRESSURIZER SPRAY WTR A INL TEMP	244.7	242.2	DEGF	
T2C7	STM GEN 2 LO-LO CH IV LT-0527	NOT TR			
T2C8	PRESSURIZER SPRAY CNTL 1 DEMAND	100.0	100.0	PC	
T2D1	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0	100.0	PC	
T2D2	STM GEN 2 LO-LO CH III LT-0526	NOT TR			
T2D3	STM GEN 2 LO-LO LEVEL TRIP	NOT TR			
T2D4	STM GEN 2 LO-LO CH I LT-0525	NOT TR			
T2D5	HTR 1A SHELL OUTT TO CNDSR C	118.	125.	DEGF	
T2D6	MN GEN STATOR SLOT NO 43	122.	122.	DEGF	
T2D7	MN GEN STATOR SLOT NO 1	122.	122.	DEGF	
T2D8	MN GEN STATOR SLOT NO 21	122.	122.	DEGF	
T2E1	MN GEN STATOR SLOT NO 24	121.	122.	DEGF	
T2E2	STM GEN 2 LO-LO CH I LT-0522	NOT TR			
T2E3	RCS CH III FT-0436 FLOW	109.4	109.0	PC	
T2E4	PRESSURIZER SPRAY CNTL 1 DEMAND	96.1	100.	PC	
T2E5	STM GEN 2 LO-LO CH II LT-0524	NOT TR			
T2E6	GEN COLD H2 FROM CLF EXCITER END	86.	86.	DEGF	
T2E7	R-LO CH III FT-0436 FLOW	109.2	109.0	PC	
T2E8	HTR 1A SHELL NORMAL DRAIN	193.	190.	DEGF	
T2F1	MN GEN STATOR SLOT NO 42	121.	116.	DEGF	
T2F2	MN GEN STATOR SLOT NO 1	121.	116.	DEGF	
T2F3	DEHEATING STM TO MSR C	-0.51	-.27	MM/MSE	
T2F4	MN GEN STATOR SLOT NO 4	120.	116.	DEGF	
T2F5	STM GEN 2 MS LT-0528 LVL	24.6	24.0	PC	
T2F6	MN GEN STATOR SLOT NO 14	120.	116.	DEGF	
T2F7	MN GEN STATOR SLOT NO 21	121.	116.	DEGF	
T2F8	MN GEN STATOR SLOT NO 22	121.	116.	DEGF	
T2G1	MN GEN STATOR SLOT NO 24	121.	116.	DEGF	
T2G2	MN GEN STATOR SLOT NO 26	120.	116.	DEGF	
T2G3	MN GEN STATOR SLOT NO 32	120.	116.	DEGF	
T2G4	MN GEN STATOR SLOT NO 13	119.	116.	DEGF	
T2G5	MN GEN STATOR SLOT NO 39	121.	120.	DEGF	
T2G6	MN GEN STATOR SLOT NO 46	120.	116.	DEGF	
T2G7	MN GEN STATOR SLOT NO 42	121.	116.	DEGF	

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[illegible]	[illegible]	T3117	HI GEN STATOR CLG WTR OUT BAR 17	88.	85.	DEGF
[illegible]	[illegible]	[illegible]	VIBRATING STK TO MSR C	.29	.30	VOLTAGE
[illegible]	[illegible]	[illegible]	STM GN SHELL DUCT TO CHECK A	125.	130.	DEGF
[illegible]	[illegible]	[illegible]	MN GEN STATOR SLOT NO 24	116.	115.	DEGF
[illegible]	[illegible]	L0461	STM GEN 4 NR LT-0548 LVL	25.0	24.0	PC
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0524 LVL	24.7	24.0	PC
[illegible]	[illegible]	LA0513	RMP 13 RCL DT	ALARM		
[illegible]	[illegible]	L0460	STM GEN 4 NR LT-0548 LVL	23.8	24.0	PC
[illegible]	[illegible]	L0461	STM GEN 4 NR LT-0549 LVL	25.4	25.0	PC
[illegible]	[illegible]	[illegible]	MN GEN STATOR CLG WTR OUT BAR 18	[illegible]	75.	DEGF
[illegible]	[illegible]	[illegible]	STM GEN 4 NR LT-0547 LVL	[illegible]	[illegible]	PC
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0524 LVL	[illegible]	[illegible]	PC
[illegible]	[illegible]	[illegible]	STM GEN 4 NR LT-0548 LVL	[illegible]	[illegible]	PC
[illegible]	[illegible]	[illegible]	STM GEN 4 NR LT-0547 LVL	[illegible]	[illegible]	PC
[illegible]	[illegible]	[illegible]	PRESSURIZER SPRAY CNTL 2 DEMAND	[illegible]	100.0	PC
[illegible]	[illegible]	[illegible]	[illegible] EXCITER END	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	NORMAL		
[illegible]	[illegible]	[illegible]	[illegible] SQ 1 TRAIN C	OPEN		
[illegible]	[illegible]	[illegible]	[illegible] SQ 2 TRAIN C	OPEN		
[illegible]	[illegible]	[illegible]	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0	100.0	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] H DISCH	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] SQ 3 TRAIN C	OPEN		
[illegible]	[illegible]	[illegible]	[illegible] 1/2/3/4 AV	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] SQ 4 TRAIN C	OPEN		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	OPEN		
[illegible]	[illegible]	[illegible]	[illegible]	OPEN		
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0528 LVL	23.5	[illegible]	PC
[illegible]	[illegible]	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	62.0	100.0	PC
[illegible]	[illegible]	P0485	PRESSURIZER RELIEF TANK PRESSURE	8.1	8.0	PSIG
[illegible]	[illegible]	[illegible]	[illegible] BANK 1 A00105	CLOSED		
[illegible]	[illegible]	T3125	MN GEN STATOR CLG WTR OUT BAR 25	104.	108.	DEGF
08:52:40	HI RETURN	T3132	MN GEN STATOR CLG WTR OUT BAR 32	192.	113.	DEGF
08:53:41	LO RETURN	L0423	STM GEN 2 NR LT-0527 LVL	24.6	24.0	PC
08:54:04	LO ALERT RETURN	U0689	TAVG DEVIATION FROM MEAS TREF	-1.4	-2.0	DEGF
08:54:16	ALARM	LA0510	RMP 10 RCL TAVG	ALARM		
08:54:16	ALARM	LA0513	RMP 13 RCL DT	ALARM		
08:55:40	HI ALERT	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0	100.0	PC
08:56:16	RETURN	LA0509	RMP 09 RCL 4 F	NORMAL		
08:56:39	ALARM	T0484	PRESSURIZER SPRAY WTR B INL TEMP	541.8	542.0	DEGF
08:57:17	ALARM	LA0509	RMP 09 RCL 4 F	ALARM		
08:57:23	LO RETURN	L0420	STM GEN 2 NR LT-0528 LVL	24.5	24.0	PC
08:57:34	HI ALERT	L0403	STM GEN 1 WR LT-0517 LVL	70.0	70.0	PC
08:57:37	HI RETURN	P0485	PRESSURIZER RELIEF TANK PRESSURE	7.0	8.0	PSIG
[illegible]	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	96.5	100.0	PC
[illegible]	[illegible]	[illegible]	STM GEN 1 NR LT-0517 LVL	[illegible]	70.0	PC
[illegible]	[illegible]	[illegible]	STM GEN 1 NAR RNG LVL 1/2/3/4 AV	[illegible]	25.0	PC
[illegible]	[illegible]	[illegible]	[illegible]	RUN		
[illegible]	[illegible]	[illegible]	[illegible]	NOT RUN		
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0528 LVL	23.0	24.0	PC
[illegible]	[illegible]	[illegible]	[illegible] HI FLUX RATE TR	ALARM		
[illegible]	[illegible]	[illegible]	[illegible] HI FLUX RATE TR	NORMAL		
[illegible]	[illegible]	[illegible]	[illegible]	24.6	24.0	PC

PI = 2310

← PI = 2385

#4 RCP off - spray

← PORV opened

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05-23-90

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Proteus Alarm print out (102)

08:16					
08:15:17	ALARM	ZD4000	PROTEUS/ERF TIME SYNC MID		
08:15:17	RETURN	ZD4000	PROTEUS/ERF TIME SYNC MID		
08:16	KY = 2	TS601	NORM TRAIN A SUPPLY HDR		
08:16	KY = 2	SELECTED:	4 GROUP DISPLAY/ASSIGN/REVIEW		
08:16	KY = 2	GROUP 22	SELECTED.: RD & BOP CRT		
08:17:50	SENSOR LO ALARM	F2245	HTR 1A DRAIN FLOW		
08:18:52	SENSOR RETURN	F2245	HTR 1A DRAIN FLOW		
08:19:24	SENSOR LO ALARM	F2245	HTR 1A DRAIN FLOW		
08:19:35	SENSOR RETURN	F2245	HTR 1A DRAIN FLOW		
08:19:36	ALARM (STATI)	JD2040	GENERATING UNIT PRI DIFF	TRIP	
08:19:36	ALARM	PD0326	TURB HYD OIL LO PRESS 1	TR	
08:19:36	ALARM	PD0327	TURB HYD OIL LO PRESS 2	TR	
08:19:36	ALARM	PD0328	TURB HYD OIL LO PRESS 3	TR	
08:19:36	ALARM	PD2021	EHC LOW ETS PRESS TRIP	TRIPPED	
08:19:36	ALARM	ZD2015	GEMS 2NA02X EDR NORM ALARM	OPEN	
08:19:36	LO ALERT	C0013	S/D ROD BK A GROUP 1 POS D02		
08:19:36	ALARM	VD2003	EHC 125VDC TRIP BUS	NORMALIZED	
08:19:36	ALARM	VD2006	EHC COMBINED TRIP INS	TRIP	
08:19:36	ALARM	YD0392	TURB STOP VLV 1 SHUT RELAY	TR	
08:19:36	ALARM	YD0393	TURB STOP VLV 3 SHUT RELAY	TR	
08:19:36	ALARM	YD0394	TURB STOP VLV 4 SHUT RELAY	TR	
08:19:36	ALARM	YD0007	MN MAIN TRIP BRKR B	TR	
08:19:36	LO ALERT	C0011	S/D ROD BK A GROUP 1 POS M14		
08:19:36	ALARM	ZD2003	MN TURB SV 1 (CH1)	CLOSED	
08:19:36	ALARM	ZD2004	MN TURB SV 2	NORMAL	
08:19:36	LO ALERT	C0014	S/D ROD BK A GROUP 2 POS B04	XXXXXXXX	
08:19:36	ALARM	ZD2005	MN TURB SV 3 (CH3)	NORMAL	
08:19:36	ALARM	ZD2007	MN TURB SV 3 (CH3)	CLOSED	
08:19:36	ALARM	ZD2008	MN TURB SV 4	NORMAL	
08:19:36	ALARM	ZD2009	MN TURB SV 4 (CH4)	CLOSED	
08:19:36	LO ALERT	C0015	S/D ROD BK A GROUP 2 POS D14		
08:19:36	ALARM	ZD2013	MN TURB CV 3	CLOSED	
08:19:36	RETURN	ZD2038	MN TURB EMERG BLO OIL EMF	ENERGIZED	
08:19:36	ALARM	ZD2047	MN TURB REHEAT INTMD SV 3	CLOSED	
08:19:36	ALARM	ZD2049	MN TURB REHEAT INTMD SV 4	CLOSED	
08:19:36	ALARM	ZD2051	MN TURB REHEAT INTMD SV 5	CLOSED	
08:19:36	LO ALERT	C0016	S/D ROD BK A GROUP 2 POS F12		
08:19:36	ALARM	ZD2053	MN TURB REHEAT INTMD SV 6	CLOSED	
08:19:36	ALARM	ZD2055	MN TURB REHEAT IV 1	CLOSED	
08:21	KY = 2	SELECTED:	4 GROUP DISPLAY/ASSIGN/REVIEW		
08:19:36	ALARM	ZD2057	MN TURB REHEAT IV 3	CLOSED	
08:19:36	LO ALERT	C0017	S/D ROD BK A GROUP 3 POS M02		
08:19:36	ALARM	ZD2059	MN TURB REHEAT IV 2	CLOSED	
08:19:36	ALARM	ZD2061	MN TURB REHEAT IV 4	CLOSED	
08:19:36	ALARM	ZD2063	MN TURB REHEAT IV 5	CLOSED	
08:19:37	ALARM	ZD2065	MN TURB REHEAT IV 6	CLOSED	
08:19:37	LO ALERT	C0012	S/D ROD BK B GROUP 1 POS G02	XXXXXXXX	
08:19:37	ALARM	ZD2011	MN TURB CV 1	CLOSED	
08:19:37	ALARM	ZD2506	SAFETY SYS BY-PASSED TRAIN A	YES	
08:19:37	RETURN	ZD2537	RR & B/D IRV VALVE	NORM	
08:19:37	SENSOR RETURN	F2012	LP TURB A STAGE 12 TURB EXH PRES		
08:19:37	ALARM	ZD2112	NORMAL MTR STALLED		
08:19:37	LO ALERT	C0020	S/D ROD BK B GROUP 2 POS C02		
08:19:37	RETURN	ZD2610	NORM RETURN TO BASIC MODE B		
08:19:37	RETURN	ZD2612	NORM RETURN TO BASIC MODE B		
08:19:37	ALARM	ZD2616	4.16KV BUS 2NA02 NORM INCOM BKR		
08:19:37	ALARM	[illegible]	4.16KV BUS 2NA03 NORM INCOM BKR		
08:19:37	ALARM	[illegible]	4.16KV BUS 2NA04 NORM INCOM BKR		
08:19:37	ALARM	ZD2811	4.16KV BUS 2NA05 ALT INCM BKR	CLOSED	

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3	08:1[illegible]	ALARM	[illegible]	RAT B HI DIFF NEUT [illegible]
3	08:1[illegible]:57	ALARM	VD0391	TURB STOP VLV 1 [illegible] RELAY
3	08:19:57	ALARM	VD0324	RCP BUS UNDER V & TV RELAY
3	08:19:57	ALARM	ND0027	PWR RNG CHAN 3 HI [illegible] TRIP
1	08:1[illegible]:57	ALARM	FD0800	[illegible] 3 CH 1 LO FLOW FT [illegible]
3	08:1[illegible]:57	RETURN	FD0807	RCL LO FLOW LOOP 2 TRIP FT
3	08:1[illegible]:57	ALARM	ZR0[illegible]12	MM TURB LV [illegible]
3	08:1[illegible]:57	LO ALERT	C0022	S/D ROD BK E GROUP 2 POS ROD
3	08:1[illegible]:57	ALARM	ZR[illegible]2	4.16KV BUS [illegible]
3	08:1[illegible]:57	LO ALERT	C0022	S/D ROD BK B GROUP 2 POS ROD
1	08:1[illegible]:57	ALARM	LD0022	SWD OS [illegible]
3	08:1[illegible]:57	ALARM	FD0420	RCL3 CH I LO FLOW FT [illegible]
3	08:1[illegible]:57	ALARM	FD0421	RCL3 CH II LO FLOW [illegible]
3	08:1[illegible]:57	ALARM	FD0423	RCL LO FLOW 5 FT DX [illegible]
3	08:1[illegible]:57	ALARM	FD0441	RCL4 CH II [illegible] FLOW LO [illegible]
3	08:1[illegible]:57	ALARM	FD0443	RCL5 CH III LO FLOW [illegible]
3	08:1[illegible]:57	[illegible]	FD0[illegible]	RCL [illegible]
3	08:1[illegible]:57	LO ALERT	C0023	S/D ROD BK B GROUP 2 [illegible]
3	08:1[illegible]:57	RETURN	FD0[illegible]	RCL LO FLOW LOOP 2 TRIP [illegible]
3	08:1[illegible]:57	RETURN	FD0[illegible]	RCL LO FLOW LOOP 5 TRIP [illegible]
3	08:1[illegible]:57	ALARM	FD0429	RCL LO FLOW TRIP [illegible]
3	08:1[illegible]:57	LO ALERT	C0023	S/D ROD BK B GROUP [illegible]
3	08:1[illegible]:57	RETURN	ND0007	PWR RNG CHAN 3 HI [illegible]
3	08:1[illegible]:57	RETURN	ND010[illegible]	NUC PWR 1 RX TRP FIG FAST
3	08:1[illegible]:57	ALARM	ZD3410	SWR [illegible] INCM BAN [illegible]
3	08:1[illegible]:57	RETURN	ND0008	PWR RNG CHAN 2 HI [illegible]
3	08:1[illegible]:57	RETURN	ND0009	PWR RNG CHAN 4 [illegible]
3	08:1[illegible]:57	RETURN	ND0011	NUC PWR 2 RX TRP [illegible]
3	08:1[illegible]:57	RETURN	ND0012	NUC PWR 3 RX TRP [illegible]
3	08:1[illegible]:57	ALARM	ND0020	INTMD RNG [illegible]
3	08:1[illegible]:57	ALARM	[illegible]	[illegible] RELAY [illegible] AUX X [illegible]
3	08:1[illegible]:57	ALARM	[illegible]	[illegible]
3	08:1[illegible]:57	ALARM	[illegible]	[illegible]
3	08:1[illegible]:57	ALARM	[illegible]	[illegible]
3	08:1[illegible]:57	ALARM	[illegible]	[illegible]
3	08:1[illegible]:57	ALARM	[illegible]	[illegible]
3	08:1[illegible]:57	ALARM	ND002[illegible]	[illegible]
3	08:1[illegible]:57	ALARM	ND001[illegible]	NUC PWR [illegible]
3	08:1[illegible]:57	ALARM	ND0022	PWR RNG CHAN [illegible]
3	08:1[illegible]:57	ALARM	ZD2045	MN TURB REHEAT INTMD [illegible]
3	08:1[illegible]:57	RETURN	ND0101	NUC PWR [illegible] RX TRP [illegible]
3	08:1[illegible]:57	RETURN	ND0102	NUC PWR 2 RX TRP [illegible]
3	08:1[illegible]:57	RETURN	ND0103	NUC PWR 3 RX TRP [illegible]
3	08:19:58	ALARM	ND0104	NUC PWR [illegible] PERMISSIVE
3	08:19:58	LO ALERT	C0024	S/D ROD BK B GROUP 2 POS [illegible]
3	08:19:58	LO ALERT	C0027	S/D ROD BK B GROUP 1 POS [illegible]
3	08:19:58	RETURN	ND0016	NUC PWR 4 RX TRP FIG FAST
3	08:19:58	LO ALERT	C0030	S/D ROD BK C GROUP 1 POS [illegible]
3	08:19:58	ALARM	FD0422	RCL3 CH III LO FLOW FT [illegible]
3	08:19:58	LO ALERT	C0031	S/D ROD BK C GROUP [illegible] POS ROD
3	08:19:58	ALARM	VD0321	RCP 2 BUS UNDER V RELAY
3	08:19:58	ALARM	VD0323	RCP 4 BUS UNDER V RELAY
3	08:19:58	LO ALERT	C0021	S/D ROD BK B GROUP 1 POS ROD
3	08:19:58	ALARM	VD2[illegible]	4.16KV BUS [illegible] UNDERVOLTAGE
3	08:19:58	ALARM	VD0002	RX MAIN TRIP [illegible]
3	08:19:58	LO ALERT	C0032	S/D ROD BK [illegible] POS [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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	Time	Alarm Type	Point	Description	Value	Limit	Units
[illegible]	[illegible]	[illegible]	ZD2215	XFMR 2NAA02X [illegible]	[illegible]		
[illegible]	[illegible]	ALARM	C0037	S/D ROD BK E GROUP [illegible]	[illegible]		
[illegible]	[illegible]	ALARM	ZD2011	EHC MECH OVERSPEED [illegible]			
[illegible]	[illegible]	ALARM	ZD2537	SG 1 B/D ISO VALVE	[illegible]		
[illegible]	[illegible]	ALARM	ZD2543	SG 4 B/D ISO VALVE	[illegible]		
[illegible]	[illegible]	RETURN	PD0485	PRZR LO PRESS [illegible]	[illegible]		
[illegible]	[illegible]	RETURN	PD0488	PRZR LO PRESS [illegible]	[illegible]		
[illegible]	[illegible]	LO ALERT	C0038	S/D ROD BK E GROUP 1 [illegible]	[illegible]		
[illegible]	[illegible]	LO ALERT	C0039	S/I ROD BK E GROUP 1 [illegible]			
[illegible]	08:20:00	ALARM	LA0702	RPSM 02 HI INTERM RNG FLUX	ALARM		
[illegible]	08:20:00	ALARM	LA0703	RPSM 03 HI POWER [illegible] FLUX	ALARM		
]	08:20:00	LO ALERT	P2286	MFPT A HYDRAULIC AND BRG OIL			
\	08:20:00	HI ALERT RETURN	T0440	RCL3 1 TAVG			
]	[illegible]	LO ALERT	T3147	MN GEN STATOR CLG WTR OUT BAR 17	[illegible]		
]	08:20:01	ALARM	ZD2541	SG 3 B/D ISO VALVE	[illegible]		
]	08:20:01	LO ALERT	C0028	S/D ROD BK C GROUP 1 [illegible]			
]	08:20:01	LO ALERT	C0012	S/D ROD BK A GROUP 1 [illegible]			
[illegible]	08:20:01	[illegible]	F0421	RCL2 CH II FT [illegible]			
[illegible]	[illegible]	[illegible]	F0421	RCL2 CH II FT [illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	F0420	RCL2 [illegible]			
[illegible]	08:20:01	[illegible]	F0420	RCL2 [illegible]			
[illegible]	[illegible]	[illegible]	P2405	MFPT B HYDRAULIC [illegible]			
[illegible]	[illegible]	HI ALERT RETURN	T0460	RCL4 1 TAVG			
[illegible]	[illegible]	ALARM	VD2202	[illegible]	[illegible]		
[illegible]	[illegible]	ALARM	VD2214	[illegible]	[illegible]		
[illegible]	[illegible]	ALARM	ZD2217	MSDT B DRN TO CNDSR	[illegible]		
[illegible]	[illegible]	ALARM	ZD2254	HTR 1A DRN TO CNDSR	[illegible]		
]	[illegible]	ALARM	ZD2264	HTR 1C DRN TO CNDSR	[illegible]		
]	08:20:02	ALARM	ZD2461	CONDENSATE PMP C	[illegible]		
]	08:20:02	ALARM	LA0714	RPSM 14 TURBINE TRIP	[illegible]		
\	08:20:02	RETURN	YC0460	ROD ALARM CCO	ALARM		
]	08:20:02	LO ALERT	F0462	RCL4 CH III FT-0446 FLOW	NORMAL		
]	08:20:02	LO ALARM	F0462	RCL4 CH III FT-0446 FLOW	[illegible]		
]	08:20:03	SENSOR LO ALARM	P2814	GEN HYDROGEN	77.1		
\	08:20:03	HI ALERT RETURN	T0460	RCL4 1 TAVG	-.7		
]	08:20:03	HI ALERT	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	585.03	585.50	[illegible]
]	08:20:03	HI ALARM	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	120.0	[illegible]
]	08:20:03	SENSOR LO ALARM	F2442	HTR DRN PMP B FLOW	127.8	122.0	[illegible]
]	08:20:03	LO ALERT	T3108	MN GEN STATOR CLG WTR OUT BAR 8	1.34	1.00	VOLTAGE
]	08:20:03	LO ALERT	T3132	MN GEN STATOR CLG WTR OUT BAR 32	138.	139.	[illegible]
]	08:20:03	ALARM	ZD2214	MSDT A DRN TO CNDSR	137.	139.	[illegible]
]	08:20:03	ALARM	ZD2224	MSDT C DRN TO CNDSR	NCLOSED		
]	08:20:03	ALARM	ZD2259	HTR 1B DRN TO CNDSR	NCLOSED		
]	08:20:03	ALARM	LD0425	STM GEN 2 LO-LO CH III LT-0528	NCLOSED		
]	08:20:03	HI ALERT	U0438	RCL2 DELTA T TILT	[illegible]		
]	08:20:03	HI ALERT	U0478	RCL4 DELTA T TILT	[illegible]		
]	08:20:04	LO ALERT	U0527	RCL CNTL MAX TAVG DEV FROM MEAN	[illegible]		
]	08:20:04	HI ALERT	F2411	MFP B SUCT	[illegible]		
]	[illegible]	LO ALERT	P0481	PRESSURIZER PRESSURE	[illegible]		
]	[illegible]	HI ALERT	P[illegible]21	MFP A [illegible]	[illegible]		
[illegible]	[illegible]	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	660.64		
[illegible]	[illegible]	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	13[illegible]		
[illegible]	[illegible]	HI ALERT RETURN	T0400	RCL1 1 TAVG	[illegible]		
]	[illegible]	ALARM	LD0402	STM GEN 1 LO-LO [illegible]	[illegible]		
]	[illegible]	ALARM	LD0403	STM GEN 1 LO [illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	STM [illegible]			
[illegible]	[illegible]	ALARM	LD0407	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

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02:20:0[illegible]	ALARM	LI0424	[illegible]	
02:20:0[illegible]	[illegible]	LI0426	STM GEN 2 [illegible]	
02:20:0[illegible]	ALARM	LI0427	STM GEN 2 [illegible] LEVEL [illegible]	
02:20:0[illegible]	ALARM	LI0453	STM GEN 3 [illegible]	
02:20:0[illegible]	ALARM	LI0444	STM GEN 3 [illegible]	
02:20:0[illegible]	ALARM	LI0446	STM GEN 3 [illegible]	
02:20:0[illegible]	ALARM	LI0447	STM GEN [illegible] LEVEL [illegible]	
02:20:0[illegible]	ALARM	LI04[illegible]	STM GEN 4 [illegible]	
02:20:0[illegible]	ALARM	LI04[illegible]	STM GEN 4 [illegible]	
02:20:0[illegible]	ALARM	LI04[illegible]	STM GEN 4 [illegible]	
02:20:04	ALARM	LI0457	STM GEN [illegible] LEVEL [illegible]	
02:20:0[illegible]	[illegible]	ZD2410	[illegible]	
02:20:0[illegible]	[illegible]	VD2202	4.16KV [illegible]	
02:20:0[illegible]	[illegible]	ZD2506	SAFETY [illegible]	
02:20:04	[illegible]	ZD2778	4.16KV [illegible]	
[illegible]	[illegible]	ZD2802	[illegible]	
[illegible]	[illegible]	ZD2456	SWGR 1BB06 [illegible]	
[illegible]	[illegible]	ZD2470	SWGR 1BB07 [illegible]	
[illegible]	[illegible]	LD0505	STM GEN 1 LO-LO CH [illegible]	
[illegible]	[illegible]	LD0443	STM GEN 3 LO-LO CH [illegible]	
[illegible]	[illegible]	LD0464	STM GEN 4 LO-LO CH [illegible]	
[illegible]	[illegible]	F0461	RCL4 CH II FT-0445 FLOW	
[illegible]	[illegible]	F0461	RCL4 CH II FT-0445 FLOW	
[illegible]	[illegible]	F0460	RCL4 CH I FT-0444 FLOW	
[illegible]	[illegible]	F0460	RCL4 CH I FT-0444 FLOW	
[illegible]	[illegible]	T0420	RCL2 OVERTEMP DELTA T [illegible]	
[illegible]	[illegible]	T0420	RCL2 OVERTEMP DELTA [illegible]	
[illegible]	[illegible]	[illegible]	RCL3 OVERTEMP DELTA [illegible]	
[illegible]	[illegible]	[illegible]	RCL3 OVERTEMP DELTA [illegible]	
[illegible]	[illegible]	[illegible]	PRZR LO PRESS [illegible]	
[illegible]	[illegible]	[illegible]	PRZR LO PRESS [illegible]	
[illegible]	[illegible]	F0407	STM GEN 1 BLOWDOWN FLOW	
[illegible]	[illegible]	F0427	STM GEN 2 BLOWDOWN FLOW	
[illegible]	[illegible]	F0447	STM GEN 3 BLOWDOWN FLOW	
[illegible]	[illegible]	F0467	STM GEN 4 BLOWDOWN FLOW	
[illegible]	[illegible]	[illegible]	STM GEN [illegible] BLOWDOWN FLOW	
[illegible]	[illegible]	[illegible]	STM GEN [illegible] BLOWDOWN FLOW	
[illegible]	[illegible]	F0427	STM GEN 2 BLOWDOWN FLOW	
[illegible]	[illegible]	F0447	STM GEN 4 BLOWDOWN FLOW	
[illegible]	[illegible]	P0480	PRESSURIZER 1 PRESSURE	
[illegible]	[illegible]	P0480	PRESSURIZER 1 PRESSURE	
[illegible]	[illegible]	ZD2035	NSCW RETURN TO CLG TWR TRAIN B	
[illegible]	[illegible]	[illegible]	MN GEN STATOR CLG WTR OUT [illegible]	
[illegible]	[illegible]	F0151	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	F0152	[illegible]	
[illegible]	[illegible]	P0482	[illegible]	
[illegible]	[illegible]	F0407	STM GEN 1 BLOWDOWN FLOW	

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08:20:11	RETURN	F0486	PRZR LO PRESS 3	NOT TR	
08:20:11	RETURN	[illegible]	PRZR LO PRESS & P7	NOT TR	
08:20:12	HI ALERT	[illegible]	[illegible] HDR WTR FLOW	19.5	
08:20:12	[illegible]	[illegible]	[illegible] WTR FLOW	19.5	
[illegible]	[illegible]	[illegible]	[illegible] WTR FLOW	19.7	
[illegible]	[illegible]	[illegible]	[illegible]	19.7	
[illegible]	[illegible]	[illegible]	[illegible]	40.56	
[illegible]	[illegible]	[illegible]	[illegible]	NOT TR	
[illegible]	[illegible]	[illegible]	[illegible]	139.	
[illegible]	[illegible]	[illegible]	[illegible]	8.7	
[illegible]	[illegible]	[illegible]	[illegible]	-8.	
08:20:14	HI ALERT RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 43	20.	
08:20:15	LO ALERT	[illegible]	MN GEN STATOR CLG WTR OUT BAR 43	20.	
08:20:15	HI RETURN	[illegible]	MN GEN STATOR CLG WTR OUT BAR 43	20.	
08:20:15	LO ALERT	[illegible]	RCL ROD CNTL MAX DT DEV FROM MEA	-2.1	
08:20:15	LO ALERT	[illegible]	MN GEN STATOR CLG WTR OUT BAR 51	131.	
08:20:15	LO ALERT	T3156	MN GEN STATOR CLG WTR OUT BAR 56	131.	
08:20:15	LO ALERT	T0158	MN GEN STATOR CLG WTR OUT BAR 58	1.1.	
08:20:17	LO ALERT	T0400	RCL 1 TAVG	562.	
08:20:12	HI ALERT RETURN	F0427	STM GEN 2 BLOWDOWN FLOW		
[illegible]	LO ALERT	F042[illegible]	STM GEN 2 BLOWDOWN FLOW		
08:20:15	HI RETURN	[illegible]	STM GEN 2 BLOWDOWN FLOW		
08:20:15	LO ALARM	[illegible]	STM GEN 2 BLOWDOWN FLOW		
08:20:16	LO ALERT	[illegible]	MN GEN STATOR CLG WTR OUT BAR 38		
08:20:17	LO ALERT	[illegible]	MN GEN STATOR CLG WTR OUT BAR 28		
08:20:17	RETURN	ZD2[illegible]	HTR 1A DRN TO CNDSR	[illegible]	
08:20:17	ALARM	ZD2309	HTR 5A DRN TO CNDSR	NCLOSED	
08:20:12	HI ALERT RETURN	P2411	MFP B SUCT	6.1.	
08:20:12	LO ALARM	P0481	PRESSURIZER 2 PRESSURE	2001.5	
08:20:[illegible]	HI ALERT RETURN	P2391	MFP A SUCT	611.1	
[illegible]	HI ALERT RETURN	U0418	RCL1 DELTA T TILT		
[illegible]	LO ALERT RETURN	U0458	RCL3 DELTA T TILT		
[illegible]	RETURN	ZD2309	HTR 5A DRN TO CNDSR	CLOSED	
[illegible]	RETURN	ZD2691	ACCW PMP 2	RUNNING	
[illegible]	ALARM	L86500	DISPLAY - RCP NO. 1	ALARM	
[illegible]	ALARM	ZD2149	MS BYPASS 1 TO CNDSR B	NCLOSED	
[illegible]	ALARM	ZD2150	MS BYPASS 1 TO CNDSR C	OPEN	
08:20:20	ALARM	ZD2151	MS BYPASS 1 TO CNDSR C	NCLOSED	
[illegible]	ALARM	ZD2152	MS BYPASS 2 TO CNDSR A	OPEN	
[illegible]	ALARM	ZD2153	MS BYPASS 2 TO CNDSR A	NCLOSED	
[illegible]	ALARM	ZD2154	MS BYPASS 2 TO CNDSR B	OPEN	
08:20:20	ALARM	ZD2155	MS BYPASS 2 TO CNDSR B	NCLOSED	
08:20:20	SENSOR RETURN	T0450	RCL2 OVERTEMP DELTA T 1 SETPT	2.70	
08:20:21	ALARM	ZD2156	MS BYPASS 2 TO CNDSR C	OPEN	
08:20:21	ALARM	ZD2157	MS BYPASS 2 TO CNDSR C	NCLOSED	
08:20:21	ALARM	ZD2158	MS BYPASS 3 TO CNDSR A	OPEN	
08:20:21	ALARM	ZD2159	MS BYPASS 3 TO CNDSR A	NCLOSED	
08:20:21	ALARM	ZD2160	MS BYPASS 3 TO CNDSR B	OPEN	
08:20:21	ALARM	ZD2161	MS BYPASS 3 TO CNDSR B	NCLOSED	
[illegible]	ALARM	ZD2162	MS BYPASS 3 TO CNDSR C	OPEN	
08:20:21	ALARM	ZD2163	MS BYPASS 3 TO CNDSR C	NCLOSED	
[illegible]	ALARM	ZD2164	MS BYPASS 4 TO CNDSR A	OPEN	
[illegible]	ALARM	ZD2165	MS BYPASS 4 TO CNDSR A	NCLOSED	
[illegible]	ALARM	ZD2166	MS BYPASS 4 TO CNDSR B	OPEN	
[illegible]	ALARM	ZD2167	MS BYPASS 4 TO CNDSR B	NCLOSED	
[illegible]	ALARM	L86502	DISPLAY - RCP NO. 2	ALARM	
[illegible]	ALARM	L86512	DISPLAY - RCP SEAL	ALARM	
[illegible]	[illegible]	T0550	RCL2 1 TAVG	[illegible]	
[illegible]	[illegible]	ZD[illegible]	[illegible] RETURN [illegible] B	CLOSED	
[illegible]	[illegible]	T[illegible]	RCT B DRAIN TO HTR 6A	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	L0[illegible]	STM GEN 1 WR LT [illegible] LVL	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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FQ400	[illegible]
FQ410	[illegible]
ZD2576	[illegible]
ZD2609	[illegible]
LA0715	[illegible]
ZD2152	MS BYPASS 2 TO [illegible]
ZD2154	MS BYPASS 2 TO [illegible]
ZD2156	MS BYPASS 2 TO [illegible]
ZD2158	[illegible]
ZD2159	[illegible]
ZD2160	[illegible]

[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
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[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
FD401	[illegible]	
FD409	[illegible]	
FD440	[illegible]	
TD460	[illegible]	
TD470	[illegible]	
TD478	[illegible]	
TD470	RCS < OVERTEMP DELTA T [illegible]	
PD0404	PRZR [illegible]	
ZD2150	[illegible]	
ZD2153	[illegible]	
PD0407	[illegible]	
ZD2155	[illegible]	
ZD2157	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
FD474	PRZR LO PRES [illegible]	
LA0711	[illegible]	
TD470	[illegible] OVERTEMP DELTA [illegible]	
LA0712	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible] MAX [illegible]	
FD427	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
LD461	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
LD462	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]

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		[illegible]	[illegible]	
		[illegible]	[illegible]	
		[illegible]	[illegible]	

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T3149
PD0494
T3132
F2246
LA0707
LA0720
T3140
T3143
T3102
T3110

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[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
T2072	MN GEN STATOR SLOT NO 21
T2045	[illegible]
[illegible]	[illegible]
T2023	MN GEN STATOR SLOT [illegible]
T2032	MN GEN STATOR SLOT [illegible]
T2038	MN GEN STATOR SLOT [illegible]
T2042	MN GEN STATOR SLOT NO 42
T2053	MN GEN STATOR SLOT NO 27
[illegible]	MN GEN STATOR SLOT NO 28
[illegible]	MN GEN STATOR CLG WTR OUT [illegible]
T3128	MN GEN STATOR CLG WTR OUT [illegible]
T3182	PRESSURIZER SURGE LINE TEMP
ZL2621	ACCUM LVL 2
T3004	MN GEN STATOR SLOT NO [illegible]
T3015	MN GEN STATOR SLOT NO [illegible]
[illegible]	MN GEN STATOR SLOT NO [illegible]
[illegible]	MN GEN STATOR SLOT NO 42
[illegible]	[illegible]
[illegible]	[illegible] NO 27
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

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08:41:14	LO ALERT RETURN	T3057	MN GEN STATOR SLOT NO 57		
08:41:14	LO ALERT RETURN	T3059	MN GEN STATOR SLOT NO 59		
08:41:14	LO ALERT RETURN	T3061	MN GEN STATOR SLOT NO 61		
08:41:14	LO ALERT RETURN	T3065	MN GEN STATOR SLOT NO 65		
08:41:15	LO ALERT RETURN	T3071	MN GEN STATOR SLOT NO 71		
08:41:15	LO ALERT RETURN	T3106	MN GEN STATOR CLG WTR OUT BAR 6		
08:41:16	RETURN	LD0426	STM GEN 2 LO-LO CH IV LT-0527	NOT TR	
08:41:16	RETURN	LD0427	STM GEN 2 LW-LO LEVEL TRIP	NOT TR	
08:41:18	RETURN	LD0406	STM GEN 1 LO-LO CH IV LT-0519	NOT TR	
08:41:24	RETURN	LD0425	STM GEN 2 LO-LO CH III LT-0528	NOT TR	
08:41:30	LO ALERT RETURN	T3170	MN GEN STATOR CLG WTR OUT BAR 70		
08:41:40	LO RETURN	L0441	STM GEN 3 NR LT-0553 LVL		
08:41:42	LO ALERT RETURN	L0440	STM GEN 3 NR LT-0538 LVL		
08:41:43	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW		
08:41:44	LO ALERT RETURN	L0443	STM GEN 3 NR LT-0537 LVL		
08:41:44	LO RETURN	L0443	STM GEN 3 NR LT-0537 LVL		
08:41:50	LO ALERT RETURN	L0441	STM GEN 3 NR LT-0553 LVL		
08:42	FUNCTION SELECTED = 2		DEVICE RESTORE/FAIL/TRANSFER		
08:42:06	RETURN	ZD2508	SAFETY SYS BY-PASSED TRAIN C	NO	
08:42:06	RETURN	LD0403	STM GEN 1 LO-LO CH I LT-0551	NOT TR	
08:42:06	RETURN	[illegible]	STM GEN 1 LO-LO CH II LT-0518	NOT TR	
08:42:06	RETURN	[illegible]	STM GEN 1 LO-LO LEVEL TRIP	NOT TR	
08:42:11	RETURN	[illegible]	STM GEN 1 LO-LO CH III LT-0517	NOT TR	
08:42:11	LO ALERT RETURN	[illegible]	STM GEN 3 NR LT-0539 LVL		
08:42:11	LO RETURN	[illegible]	STM GEN 2 NR LT-0529 LVL		
08:42:17	RETURN	LA0509	RMP 09 RCL 4 F	NORMAL	
08:42:21	LO ALERT RETURN	T3119	MN GEN STATOR CLG WTR OUT BAR 19		
08:42:21	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM	
08:42:[illegible]	LO ALERT RETURN	T3126	MN GEN STATOR CLG WTR OUT BAR 26		
08:42:[illegible]	HI ALARM	F0442	RCL3 CH III FT-0436 FLOW		
[illegible]	ALARM	LA0509	RMP 09 RCL 4 F	ALARM	
[illegible]	LO ALERT RETURN	T3002	MN GEN STATOR SLOT NO 2		
[illegible]	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL	
[illegible]	LO ALERT RETURN	L0403	STM GEN 1 NR LT-0517 LVL		
[illegible]	LO RETURN	L0403	STM GEN 1 NR LT-0517 LVL		
[illegible]	LO ALERT	T3170	MN GEN STATOR CLG WTR OUT BAR 70		
[illegible]	LO ALERT RETURN	L0433	STM GEN 3 NAR RNG LVL 1/2/3/4 AV		
[illegible]	LO RETURN	L0402	STM GEN 1 NR LT-0551 LVL		
[illegible]	LO RETURN	L0400	STM GEN 1 NR LT-0518 LVL		
[illegible]	LO RETURN	L0401	STM GEN 1 NR LT-0519 LVL		
[illegible]	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW		
[illegible]	LO RETURN	L0422	STM GEN 2 NR LT-0529 LVL		
[illegible]	LO ALERT RETURN	L0402	STM GEN 1 NR LT-0551 LVL		
[illegible]	LO ALERT RETURN	L0401	STM GEN 1 NR LT-0519 LVL		
08:44:14	RETURN	LD0364	STM GEN 4 LO-LO CH II LT-0549	NOT TR	
08:44:12	LO ALERT RETURN	L0400	STM GEN 1 NR LT-0518 LVL		
08:44:[illegible]	LO ALERT RETURN	T3041	MN GEN STATOR SLOT NO 41		
08:44:14	LO ALERT RETURN	T3105	MN GEN STATOR CLG WTR OUT BAR 5		
[illegible]	RETURN	LD0463	STM GEN 4 LO-LO CH I LT-0554	NOT TR	
[illegible]	RETURN	LD0465	STM GEN 4 LO-LO CH III LT-0548	NOT TR	
[illegible]	RETURN	LD0467	STM GEN 4 LO-LO LEVEL TRIP	NOT TR	
[illegible]	HI ALARM	F0442	RCL3 CH III FT-0436 FLOW		
[illegible]	HI ALERT	T0127	REGEN HX LETDOWN OUT TEMP		
[illegible]	HI ALARM	T0127	REGEN HX LETDOWN OUT TEMP		
[illegible]	RETURN	LD0466	STM GEN 4 LO-LO CH IV LT-0547	NOT TR	
08:44:14	RETURN	LA0712	RPSM 12 LO-LO SG WATER L	NORMAL	
[illegible]	LO ALERT RETURN	T3058	MN GEN STATOR SLOT NO 58		
[illegible]	LO ALERT RETURN	T3029	MN GEN STATOR SLOT NO 29		
[illegible]	LO RETURN	L0421	STM GEN 2 NR LT-0552 LVL		
[illegible]	ALARM	LS6502	DISPLAY - REGEN HX	ALARM	
[illegible]	LO ALERT RETURN	L0422	STM GEN 2 NR LT-0529 LVL		
[illegible]	LO ALERT RETURN	L0413	STM GEN 1 NAR RNG LVL 1/2/3/4 AV		
[illegible]	HI RETURN	F0442	RCL3 CH III FT-0436 FLOW		
08:46:15	[illegible]	[illegible]	[illegible] STM TO PSRC		
08:46:18	LO ALARM	[illegible]	PRESSURIZER SPRAY WTR [illegible] TEMP	541.	

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08:46:17	SENSOR RETURN	F2153	REHEATING STM TO MSR C	
08:46:18	LO ALARM	[illegible]	PRESSURIZER SPRAY WTR A INL TEMP	541.
08:46:25	HI ALERT RETURN	10/27	REGEN HX LETDOWN OUT TEMP	537.9
08:46:26	RETURN	[illegible]	DISPLAY - REGEN HX	NORMAL
08:46:31	LO ALERT RETURN	T3105	MN GEN STATOR CLG WTR OUT BAR 7	[illegible]
08:46:32	LO ALERT RETURN	T3117	MN GEN STATOR CLG WTR OUT BAR 17	[illegible]
08:46:49	SENSOR LO ALARM	F2153	REHEATING STM TO MSR C	[illegible]
08:47:12	HI ALERT RETURN	T2284	RTR 3A SHELL DRNP TO CNDSR A	[illegible]
08:47:22	LO ALERT RETURN	T3024	MN GEN STATOR SLOT NO 24	[illegible]
08:47:27	LO RETURN	L0461	STM GEN 4 NR LT-0542 LVL	[illegible]
08:49:09	LO RETURN	L0462	STM GEN 4 NR LT-0554 LVL	[illegible]
08:49:16	ALARM	LA0513	RMP 13 RCL DT	ALARM
08:49:24	LO RETURN	L0460	STM GEN 4 NR LT-0548 LVL	[illegible]
08:49:36	LO ALERT RETURN	L0461	STM GEN 4 NR LT-0549 LVL	[illegible]
08:49:37	LO ALERT RETURN	T3118	MN GEN STATOR CLG WTR OUT BAR 18	[illegible]
08:49:45	LO RETURN	L0463	STM GEN 4 NR LT-0547 LVL	[illegible]
08:49:58	LO ALERT RETURN	L0462	STM GEN 4 NR LT-0554 LVL	[illegible]
08:49:08	LO ALERT RETURN	L0460	STM GEN 4 NR LT-0548 LVL	[illegible]
08:49:38	LO ALERT RETURN	L0463	STM GEN 4 NR LT-0547 LVL	[illegible]
08:49:49	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	[illegible]
08:50:05	LO ALERT RETURN	T2819	GEN COLD H2 FROM CLR EXCITER END	[illegible]
08:50:18	RETURN	LA0513	RMP 13 RCL DT	NORMAL
08:50:30	RETURN	ZD2[illegible]	AUX FW PMP 1 DISCH SG 1 TRAIN C	OPEN
08:50:31	RETURN	ZD2[illegible]	AUX FW PMP 1 DISCH SG 2 TRAIN C	OPEN
08:50:41	HI ALERT	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0
08:50:43	SENSOR RETURN	F2328	AFW PMP TURB DIFF MS TO FW DISCH	[illegible]
08:50:44	RETURN	ZD2327	AUX FW PMP 1 DISCH SG 3 TRAIN C	OPEN
08:50:54	LO ALERT RETURN	U0473	STM GEN 4 NAR RNG LVL 1/2/3/4 AV	[illegible]
08:50:54	RETURN	ZD2331	AUX FW PMP 1 DISCH SG 4 TRAIN C	OPEN
[illegible]	SENSOR LO ALARM	F2151	REHEATING STM TO MSR A	OPEN
[illegible]	ALARM	ZD3[illegible]	TB LTG FDR BRKR 2NA0418	OPEN
[illegible]	ALARM	ZD2221	CB LTG FDR BRKR 2NA0417	OPEN
[illegible]	ALERT RETURN	L0421	STM GEN 2 NR LT-0528 LVL	[illegible]
[illegible]	ALERT RETURN	F0434	PRESSURIZER SPRAY CNTL 2 DEMAND	[illegible]
[illegible]	ALARM	P0485	PRESSURIZER RELIEF TANK PRESSURE	[illegible]
08:51:09	RETURN	ZD3220	CB LTG FDR BRKR 2NA0105	CLOSED
08:51:31	HI ALERT RETURN	T3125	MN GEN STATOR CLG WTR OUT BAR 25	[illegible]
08:52:40	HI RETURN	T3132	MN GEN STATOR CLG WTR OUT BAR 32	[illegible]
08:52:41	LO RETURN	L0423	STM GEN 2 NR LT-0527 LVL	[illegible]
08:54:04	LO ALERT RETURN	U0689	TAVG DEVIATION FROM MEAS TREF	[illegible]
[illegible]	ALARM	LA0510	RMP 10 RCL TAVG	ALARM
[illegible]	ALARM	LA0513	RMP 13 RCL DT	ALARM
[illegible]	HI ALERT	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0
[illegible]	[illegible]	LA0509	RMP 09 RCL 4 F	NORMAL
[illegible]	[illegible]	T0484	PRESSURIZER SPRAY WTR B INL TEMP	541.8
[illegible]	[illegible]	LA0509	RMP 09 RCL 4 F	ALARM
[illegible]	[illegible]	L0420	STM GEN 2 NR LT-0528 LVL	24.9
[illegible]	[illegible]	L0403	STM GEN 1 NR LT-0517 LVL	70.0
[illegible]	[illegible]	P0485	PRESSURIZER RELIEF TANK PRESSURE	[illegible]
[illegible]	[illegible]	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	[illegible]
[illegible]	[illegible]	[illegible]	STM GEN 1 NR LT-0517 LVL	[illegible]
[illegible]	[illegible]	[illegible]	STM GEN 2 NAR RNG LVL 1/2/3/4 AV	[illegible]
[illegible]	[illegible]	[illegible]	XE PRED/BOR CALC	RUN
[illegible]	[illegible]	[illegible]	XE PRED/BOR CALC	NOT RUN
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0528 LVL	[illegible]
[illegible]	[illegible]	[illegible]	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
[illegible]	[illegible]	[illegible]	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0528 LVL	[illegible]
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0527 LVL	[illegible]
[illegible]	[illegible]	[illegible]	STM GEN 2 NR LT-0528 LVL	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	ALARM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	CLOSED
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

#4RCP off - spray

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\	09:10:02	LO ALERT RETURN	U0458	RCLS DELTA T [illegible]	
	09:10	TY = 2 GROUP 33 SELECTED.: RO & BOF CRT			
1	09:10:20	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
\	09:10:24	RETURN G-LINE BAD CARD STATUS		22 [illegible] \	
	09:10	KX = 2 GROUP 45 SELECTED.: CIRC WATER [illegible]			
\	09:11:20	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
1	09:11:50	LO ALERT	U0682	TAVG DEVIAT. W FROM MEAS TREF	[illegible]
1	09:12:03	LO ALERT	L0402	STM GEN 1 NR LT-0512 LVL	[illegible]
1	09:12:06	LO ALERT	L0400	STM GEN 1 NR LT-0518 LVL	[illegible]
1	09:12:10	LO ALERT	L0401	STM GEN 1 NR LT-0512 LVL	[illegible]
1	09:12:10	LO ALARM	L0401	STM GEN 1 NR LT-0512 LVL	[illegible]
	09:12:20	LO ALARM	L0400	STM GEN 1 NR LT-0518 LVL	[illegible]
	09:12:21	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
1	09:12:33	ALARM	YD2040	TURNING GEAR MOTOR CONTROL	LOCAL
	09:12:39	RETURN	YD2040	TURNING GEAR MOTOR CONTROL	REMOTE
\	09:12:13	LO RETURN	L0401	STM GEN 1 NR LT-0512 LVL	[illegible]
	09:12:17	RETURN	[illegible]0547	RMP 07 RCL NAR RNG TCOLD	NORMAL
	09:12:18	LO RETURN	L0400	STM GEN 1 NR LT-0518 LVL	[illegible]
	09:12:[illegible]	LO ALERT	U0528	RCL ROD CNTL MAX DT DEV FROM MEA	[illegible]
1	09:[illegible]	LO ALERT	U0417	STM GEN 1 NAR RNG LVL 1/2/3/4 AV	[illegible]
1	09:14:14	ALARM G-LINE [redacted]		NO043 \	
\	09:14:26	RETURN	[redacted]	RMP 10 RCL TAVG	NORMAL
\	09:14:[illegible]	LO ALERT RETURN	[redacted]	STM GEN 1 NR LT-0531 LVL	[illegible]
\	09:14:[illegible]	RETURN	[redacted]	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
\	09:14:[illegible]	RETURN G-LINE [redacted]		NO043 \	
\	09:14:20	LO ALERT RETURN	L0401	STM GEN 1 NR LT-0512 LVL	[illegible]
\	09:14:[illegible]	LO ALERT RETURN	T3120	MN GEN STATOR CLG WTR OUT BAR 29	[illegible]
\	09:14:40	LO ALERT RETURN	L0400	STM GEN 1 NR LT-0518 LVL	[illegible]
	09:15:17	LO ALERT RETURN	T3015	MN GEN STATOR SLOT NO 18	[illegible]
2	[illegible]	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
\	[illegible]	LO ALERT RETURN	U0415	STM GEN 1 NAR RNG LVL 1/2/3/4 AV	[illegible]
	[illegible]	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
	[illegible]	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
	[illegible]	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
	[illegible]	HI RETURN	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
\	[illegible]	LO RETURN	T2482	PRESSURIZER SURGE LINE TEMP	[illegible]
	[illegible]	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
	[illegible]	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
	[illegible]	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
	[illegible]	HI ALERT	T0127	REGEN HX LETDOWN OUT TEMP	[illegible]
	[illegible]	HI ALARM	T0127	REGEN HX LETDOWN OUT TEMP	[illegible]
\	[illegible]	LO ALERT RETURN	T3128	MN GEN STATOR CLG WTR OUT BAR 28	[illegible]
	[illegible]	HI RETURN	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
	[illegible]	ALARM	LS6508	DISPLAY - REGEN HX	ALARM
	[illegible]	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
	[illegible]	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
\	[illegible]	LO ALERT RETURN	T3129	MN GEN STATOR CLG WTR OUT BAR 29	[illegible]
\	[illegible]	HI ALERT RETURN	T2383	MFPT A OIL TO BRG	[illegible]
1	[illegible]	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
\	[illegible]	HI ALERT RETURN	T0127	REGEN HX LETDOWN OUT TEMP	[illegible]
\	[illegible]	HI RETURN	T0127	REGEN HX LETDOWN OUT TEMP	[illegible]
\	[illegible]	RETURN	LS6010	DISPLAY - MFPT A	NORMAL
\	[illegible]	HI RETURN	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
\	[illegible]	RETURN	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	NORMAL
	[illegible]	RETURN	LS6508	DISPLAY - REGEN HX	NORMAL
	[illegible]	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
	[illegible]	ALARM	YD2040	TURNING GEAR MOTOR CONTROL	LOCAL
	[illegible]	RETURN	FD2036	EHC LOW BRG OIL PRESS TRIP	NORMAL
	[illegible]	ALARM	YD2037	MN TURB TO OIL PMP	ALARM
	[illegible]	RETURN	YD2040	TURNING GEAR MOTOR CONTROL	REMOTE
	[illegible]	[illegible]	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	[illegible]
	[illegible]	HI ALARM	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
	[illegible]	HI RETURN	F0442	RCL3 CH III FT-0426 FLOW	[illegible]
	[illegible]	HI ALERT	[illegible]	RCL3 CH III FT-0426 FLOW	[illegible]
	[illegible]	ALARM	LA0717	RPSM 17 PWR RNG HI FLUX RATE TR	ALARM
	[illegible]		[illegible]	MN TURB EMPTY [illegible] OIL PMP	[illegible]

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	09:28:22	HI RETURN	F0552			
	09:28:42	LO ALERT				
1	09:29:19	ALARM		RPSM 17 PWR RNG HI		ARM
	09:29:41	ALARM		TURB EXTRA RNG		TOPPED
	09:29:51	HI ALERT RETURN		STATOR GLE	105.	105. TEMP
1	09:30:19	LO ALERT RETURN		CORR FLOW	90.0	90.0 PC
	09:30:20	RETURN		PWR RNG		NORMAL
	09:30:41	HI ALARM			102.0	102.0 PC
1	09:31:21	ALARM		RPSM 17 PWR RNG HI		ALARM
	09:31:33	HI RETURN			102.0	102.0
1	09:32:54	HI ALARM			102.1	102.1
	09:32:12	RETURN		RPSM 17 PWR RNG HI FLUX RATE TR		NORMAL
	09:32:35	HI RETURN		RCS CH 121 FT-0436 FL	102.2	102.2
1	09:33:43	HI ALARM		RCS CH 111 FT-0436 FLOW	102.1	102.1
1	09:34:12	ALARM		RPSM 17 PWR RNG HI FLUX RATE TR		ALARM
	09:34:26	HI RETURN		RCS CH 111 FT-0436 FLOW	102.4	102.4
	09:34:12	RETURN		RPSM 17 PWR RNG HI FLUX RATE TR		NORMAL
	09:36:58	SENSOR RETURN		DTR SE DRAIN FLOW	1.61	1.60
1	09:37:16	ALARM		MTP 10 RCL TAVG		ALARM
	09:37:29	SENSOR LO ALARM		HTR SE DRAIN FLOW	1.57	1.60
1	09:38:32	HI ALARM		RCS CH 111 FT-0436 FLOW	102.1	102.0
1	09:39:40	LO ALARM		PRESSURIZER SURGE LINE TEMP	577.4	577.0 TEMP

ALARM

1:45 sec before CRF

1	08:00:17	ALARM	LA0515	RMP 15 RCL OVERPWR DT SETPOINT	ALARM		
1	08:00:20	ALARM	LA0516	RMP 16 RCL OVERTEMP DT SETPOINT	ALARM		
1	08:00:22	CHANGE/ACCEPT	L.SS	RCP 16 ASSIGN [illegible]			
1	08:00:23	HI ALARM RETURN	L0537	RCL1 ANNUNCIATOR [illegible]	[illegible]	[illegible]	
1	08:00:40	HI ALERT RETURN	[illegible]	RCL1 [illegible]	[illegible]	[illegible]	
1	08:00:54	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	[illegible]	[illegible]	
1	08:00:56	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	124.8	122.0	
1	08:01:02	CHANGE/ACCEPT	[illegible]	RCP 02 [illegible]	[illegible]	[illegible]	
1	08:01:16	ALARM	LA0518	RMP 18 RCL OVERPWR DT SETPOINT	ALARM		
1	08:01:18	ALARM	LA0518	RMP 18 RCL OVERPWR DT SETPOINT	ALARM		
1	08:02:15	ALARM	[illegible]	FLENDER 2A OIL VALVE	[illegible]		
1	08:02:38	RETURN	[illegible]	FLENDER 2A OIL VALVE	[illegible]		
1	08:02:03	CHANGE RETURN	T0400	RCL 1 NAR RNG COLD LEG TEMP	1.22	10.70	VOLTAGE
1	08:02:54	ALARM HI ALARM	T0400	RCL 1 NAR RNG COLD LEG TEMP	10.52	10.50	VOLTAGE
1	08:03:00	ALARM	LINE FAL CARD STATUS	F2266			
1	08:03:36	RETURN	LINE FAL CARD STATUS	F2266			
	08:04	KY - 2	SELECTED:	1 CTRL BLOCKER TREND GRAPH			
1	08:10:04	ALARM LO ALARM	[illegible]	MTR 1A DRAIN FLOW	1.26	1.60	VOLTAGE
1	08:10:17	LO ALERT RETURN	T0400	RCL1 1 TAVG	620.4	584.0	DEGF
1	08:10:37	HI ALARM	T0400	RCL1 1 TAVG	620.4	584.0	DEGF
1	08:10:47	HI ALARM	T0400	RCL1 1 TAVG	620.4	581.0	DEGF
1	08:10:50	CHANGE/ACCEPT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	-.77	-.50	VOLTAGE
1	08:10:52	HI ALARM RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	100.0	PC
1	08:10:54	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	0.0	PC
1	08:10:56	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	122.0	PC
1	08:10:58	CHANGE/ACCEPT	[illegible]	RCL1 OVERPWR DELTA T 1 SETPT	.70	.00	VOLTAGE
1	08:10:59	HI ALERT	[illegible]	RCL1 OVERPWR DELTA T 1 SETPT	XXXXXXXX	0.000	PC
1	08:10:59	LO ALERT	[illegible]	RCL1 CNTL MAX DT DEV FROM MEA	-100.8	[illegible]	PC
1	08:10:59	HI ALERT	[illegible]	RCL1 CNTL MAX TAVG DEV FROM MEAS	42.1	3.0	DEGF
1	08:10:14	SENSOR RETURN	[illegible]	RCL1 OVERPWR DELTA T 1 SETPT	2.08	-.50	VOLTAGE
1	08:10:29	LO ALERT RETURN	[illegible]	RCL1 OVERPWR DELTA T 1 SETPT	31.128	0.000	PC
1	08:10:29	SENSOR RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	1.51	.50	VOLTAGE
1	08:10:29	LO ALERT RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	22.6	5.0	VOLTAGE
1	08:10:29	SENSOR RETURN	[illegible]	MTR 1A DRAIN FLOW	2.75	[illegible]	[illegible]
1	08:11:17	ALARM	LA0515	RMP 15 RCL OVERPWR DT SETPOINT	ALARM		
1	08:11:2	[illegible]	T0400	RCL 1 NAR RNG COLD LEG TEMP	6.47	10.70	VOLTAGE
1	08:11:35	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	104.9	120.0	PC
1	08:11:37	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	124.8	100.0	PC
1	08:11:40	HI RETURN	T0400	RCL1 1 TAVG	588.6	584.0	DEGF
1	08:11:52	LO ALERT RETURN	T0410	RCL1 DELTA T TILT	-1.5	-2.5	PC
1	08:11:42	HI ALERT RETURN	T0410	RCL1 DELTA T TILT	.1	2.5	PC
1	08:11:44	HI ALERT RETURN	U0455	RCL3 DELTA T TILT	-.4	2.5	PC
1	08:11:48	HI ALERT RETURN	U0475	RCL4 DELTA T TILT	1.8	2.5	PC
1	08:11:4	LO ALERT RETURN	U0527	RCL RNG CNTL MAX DT DEV FROM MEA	-1.1	-8.0	PC
1	08:11:43	HI ALERT RETURN	U0527	RCL CNTL MAX TAVG DEV FROM MEAS	.3	3.0	DEGF
1	08:11:4	RETURN	TDM400	RCL1 OVERPWR DELTA T 1 (PART)	NOT TR		
1	08:11:45	ALARM	LA0712	RMSM 12 RCL OVERTEMP DELTA T	NORMAL		
1	08:11:48	RETURN	LA0712	RMSM 13 HI OVERPOWER DELTA T	NORMAL		
1	08:11:52	HI ALERT RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	114.8	120.0	PC
1	08:11:52	HI RETURN	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	114.8	122.0	PC
1	08:12:10	RETURN	LA0504	RMP 04 PWR RNG TOP DETECTOR D	NORMAL		
1	08:12:10	RETURN	LA0510	RMP 10 RCL TAVG	NORMAL		
1	08:13:18	RETURN	LA0512	RMP 12 RCL DT	NORMAL		
1	08:13:18	RETURN	LA0514	RMP 14 RCL OVERTEMP DT SETPOINT	NORMAL		
1	08:13:1	RETURN	LA0515	RMP 15 RCL OVERPWR DT SETPOIN	NORMAL		
1	08:13:18	RETURN	LA0547	RMP 47 RCL NAR RNG TCOLD	NORMAL		
1	08:14:00	HI ALERT RETURN	U0476	RCL1 DT SETPT MARGIN DEV FROM	-1.9	5.0	PC
1	08:14:00	HI ALERT RETURN	U0476	RCL1 DT SETPT MARGIN DEV FROM	.4	5.0	PC
	08:14	KY - 2	CLEARED TREND PEN 2				
	08:14	KY - 2	POINT U1330	IS ASSIGNED TO PEN 2 AND IS ON TREND			
	08:14	KY - 2	CLEARED TREND PEN 4				
	08:14	KY - 2	POINT U1145	IS ASSIGNED TO PEN 4 AND IS ON TREND			
1	08:15:14	ALARM	ID8000	PROTEUS/ERF TIME SYNC BID	ON		
1	08:15:17	RETURN	ID8000	PROTEUS/ERF TIME SYNC BID	OFF		
	08:16	KY - 2	T2401	NOW TRAIN A SUPPLY HDR	67.2	DEGF	
	08:16	KY - 2	SELECTED:	4 GROUP DISPLAY/ASSIGN/REVIEW			
	08:16	KY - 2	GROUP 2: SELECTED.:	RO & BOP CRT			

Cabinet 102

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(STETI)

08:19:59	ALARM	ZD3456	SWGR 2BB06 INCM BRKR 2BB0601	OPEN			
08:19:59	ALARM	ZD3370	SWGR 2BB07 INCM BRKR 2BB0701	OPEN			

1	08:20:02	ALARM	ZD2212	RCPT B DRN TO CNDSR	NCLOSED			
1	08:20:02	ALARM	ZD2254	HTR 1A DRN TO CNDSR	NCLOSED			
1	08:20:02	ALARM	ZD2264	HTR 1C DRN TO CNDSR	NCLOSED			
1	08:20:02	ALARM	ZD2461	CONDENSATE PMP C	STARTED			
1	08:20:02	ALARM	LA0714	RPSM 14 TURBINE TRIP	ALARM			
\	08:20:02	RETURN	VC0400	ROD ALARM CCO	NORMAL			
1	08:20:02	LO ALERT	F0462	RCL4 CH III FT-0446 FLOW	57.1	80.0	PC	
1	08:20:02	LO ALARM	F0462	RCL4 CH III FT-0446 FLOW	57.1	82.0	PC	
1	08:20:03	SENSOR LO ALARM	P2814	GEN HYDROGEN	-.73	-.50	VOLTAGE	
\	08:20:03	HI ALERT RETURN	T0460	RCL4 1 TAVG	585.93	588.50	DEGF	
1	08:20:03	HI ALERT	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	120.0	PC	
1	08:20:03	HI ALARM	T0470	RCL4 OVERTEMP DELTA T 1 SETPT	127.8	122.0	PC	
1	08:20:03	SENSOR LO ALARM	F2442	HTR DRN PMP B FLOW	1.34	1.60	VOLTAGE	
1	08:20:03	LO ALERT	T3108	MN GEN STATOR CLG WTR OUT BAR 8	138.	139.	DEGF	
1	08:20:03	LO ALERT	T3132	MN GEN STATOR CLG WTR OUT BAR 32	137.	139.	DEGF	
1	08:20:03	ALARM	ZD2214	MSDT A DRN TO CNDSR	NCLOSED			
1	08:20:03	ALARM	ZD2224	MSDT C DRN TO CNDSR	NCLOSED			
1	08:20:03	ALARM	ZD2259	HTR 1B DRN TO CNDSR	NCLOSED			
1	08:20:03	ALARM	LD0425	STM GEN 2 LO-LO CH III LT-0528	TR			
1	08:20:03	HI ALERT	U0438	RCL2 DELTA T TILT	5678.3	2.5	PC	
1	08:20:03	HI ALERT	U0473	RCL4 DELTA T TILT	5827.6	3.2	PC	
1	08:20:04	LO ALERT	U0527	RCL CNTL MAX TAVG DEV FROM MEAS	-6.0	-3.0	DEGF	
1	08:20:04	HI ALERT	P2411	MFP B SUCT	663.	625.	PSIG	
1	08:20:04	LO ALERT	P0481	PRESSURIZER 2 PRESSURE	2093.0	2100.0	PSIG	
1	08:20:04	HI ALERT	P2421	MFP A SUCT	660.04	625.00	PSIG	
1	08:20:04	HI ALERT	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	155.0	120.0	PC	
1	08:20:04	HI ALARM	T0410	RCL1 OVERTEMP DELTA T 1 SETPT	155.0	122.0	PC	
\	08:20:04	HI ALERT RETURN	T0420	RCL2 1 TAVG	578.05	588.50	DEGF	
1	08:20:04	ALARM	LD0422	STM GEN 1 LO-LO CH I LT-0521	TR			
1	08:20:04	ALARM	LD0404	STM GEN 1 LO-LO CH II LT-0518	TR			
1	08:20:04	ALARM	LD0406	STM GEN 1 LO-LO CH IV LT-0519	TR			
1	08:20:04	ALARM	LD0407	STM GEN 1 LO-LO LEVEL TRIP	TR			
1	08:20:04	ALARM	LD0423	STM GEN 2 LO-LO CH I LT-0529	TR			
1	08:20:04	ALARM	LD0424	STM GEN 2 LO-LO CH II LT-0552	TR			

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1	08:20:04	ALARM	LD0406	STM GEN 1 LO-LO CH IV LT-0519	TR		
1	08:20:04	ALARM	LD0409	STM GEN 2 LO-LO CH IV LT-0529	TR		
1	08:20:04	ALARM	LD0423	STM GEN 2 LO-LO CH I LT-0529	TR		
1	08:20:04	ALARM	LD0426	STM GEN 2 LO-LO CH II LT-0529	TR		
1	08:20:04	ALARM	LD0429	STM GEN 2 LO-LO CH III LT-0529	TR		
1	08:20:04	ALARM	LD0432	STM GEN 2 LO-LO CH IV LT-0529	TR		
1	08:20:04	ALARM	LD0417	STM GEN 1 LOW LEVEL	TR		
1	08:20:04	ALARM	LD0441	STM GEN 3 LO-LO CH I LT-0549	TR		
1	08:20:04	ALARM	LD0444	STM GEN 3 LO-LO CH II LT-0549	TR		
1	08:20:04	ALARM	LD0447	STM GEN 3 LO-LO CH III LT-0549	TR		
1	08:20:04	ALARM	LD0450	STM GEN 3 LO-LO CH IV LT-0549	TR		
1	08:20:04	ALARM	LD0465	STM GEN 4 LO-LO CH I LT-0569	TR		
1	08:20:04	ALARM	LD0468	STM GEN 4 LO-LO CH II LT-0569	TR		
1	08:20:04	ALARM	LD0471	STM GEN 4 LO-LO CH III LT-0569	TR		
1	08:20:04	ALARM	LD0474	STM GEN 4 LO-LO CH IV LT-0569	TR		
1	08:20:04	ALARM	LD0487	STM GEN 4 LOW LEVEL TRIP	TR		
1	08:20:04	RETURN	AL3.3	4KV BUS 2BB12 TRANS BUS 2BB1201	CLOSED		BA03 Bus energized
1	08:20:04	RETURN	AL3.4	4.16KV BUS 2BB03 CONSERVATIVE	NORMAL		
1	08:20:04	ALARM	ZL2.2	SAFETY SYS EX-PASSED TRAIN A	NO		
1	08:20:04	RETURN	ZB.224	4.16KV BUS 2BB03 DG B BRKR 19	CLOSED		
1	08:20:04	RETURN	ZD.206	AUXILIARY VALVE ATO	NORMAL		
1	08:20:04	RETURN	AL3.6	4KV 2BB02 TRANS BUS 2BB0601	CLOSED		
1	08:20:04	RETURN	AL3.5	4KV 2BB07 DIESEL BUS B 2BB0701	CLOSED		
1	08:20:05	ALARM	LD0429	STM GEN 2 LO-LO CH III LT-0517	TR		
1	08:20:05	ALARM	LD 429	STM GEN 2 LO-LO CH III LT-0529	TR		
1	08:20:05	ALARM	LD 414	STM GEN 1 LO-LO CH II LT-0547	TR		
1	08:20:05	LO ALERT	FD0441	RCS4 CH II FT-0445 FLOW	49.1	90.0	PC
1	08:20:05	LO ALARM	FD0444	RCS4 CH II FT-0445 FLOW	49.1	89.0	PC
1	08:20:05	LO ALERT	FD400	RCS4 CH I FT-0444 FLOW	49.1	90.0	PC
1	08:20:05	LO ALARM	FD400	RCS4 CH I FT-0444 FLOW	49.1	89.0	PC
1	08:20:05	HI ALERT	TD430	RCS4 OVERTEMP DELTA T 1 SETPT	152.862	120.000	PC
1	08:20:05	HI ALARM	TD430	RCS4 OVERTEMP DELTA T 1 SETPT	152.862	122.000	PC
1	08:20:05	SENSOR HI ALARM	TD430	RCS4 OVERTEMP DELTA T 1 SETPT	10.86	10.00	VOLTAGE
1	08:20:05	HI ALERT	TD430	RCS4 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	120.00	PC
1	08:20:05	HI ALARM	TD430	RCS4 OVERTEMP DELTA T 1 SETPT	XXXXXXXX	122.00	PC
1	08:20:05	RETURN	LD0529	TDP 29 SG 2 STM OUT P	NORMAL		
1	08:20:05	RETURN	LD0511	RMP 11 HOT LEG T	NORMAL		
1	08:20:05	RETURN	LD0529	RMP 29 SG 2 STM OUT P	NORMAL		
1	08:20:06	ALARM	FD0484	TRIR LO PRESS 2	TR		
1	08:20:06	ALARM	LD2441	TRIR ESF TR C ETN TO HTR 48	CLOSED		
1	08:20:06	ALARM	FD0483	TRIR LO PRESS 1	TR		
1	08:20:06	ALARM	LD0486	TRIR LO PRESS 1 T7	TR		
1	08:20:06	HI ALERT RETURN	FD447	STM GEN 3 BLOWDOWN FLOW	10.	20.	GPM
1	08:20:06	LO ALERT	FD447	STM GEN 3 BLOWDOWN FLOW	10.	20.	GPM
1	08:20:06	HI ALARM	FD447	STM GEN 3 BLOWDOWN FLOW	10.	52.	GPM
1	08:20:06	LO ALARM	FD447	STM GEN 3 BLOWDOWN FLOW	10.	28.	GPM
1	08:20:06	HI ALERT RETURN	FD467	STM GEN 4 BLOWDOWN FLOW	5.	50.	GPM
1	08:20:06	LO ALERT	FD467	STM GEN 4 BLOWDOWN FLOW	5.	20.	GPM
1	08:20:06	HI ALARM	FD467	STM GEN 4 BLOWDOWN FLOW	5.	52.	GPM
1	08:20:06	LO ALARM	FD467	STM GEN 4 BLOWDOWN FLOW	5.	28.	GPM
1	08:20:06	LO ALERT	PD480	PRESSURIZER 1 PRESSURE	2073.0	2100.0	PSIG
1	08:20:06	LO ALARM	PD480	PRESSURIZER 1 PRESSURE	2073.0	2090.0	PSIG
1	08:20:07	CLOSE	ZD2.2	MOV RETURN TO CLD TWR TRAIN B	NOPEN		
1	08:20:07	LO ALERT	FI192	RC GEN STATOR CLS WTR OUT BAR 52	134.	139.	DEGF
1	08:20:07	LO ALERT	PI191	REHEATING STM TO MSR A	1045.	1000.	PSIG
1	08:20:07	RETURN LO ALARM	PD0000	REHEAT STM TO LP TURB C	-.52	-.50	VOLTAGE
1	08:20:07	LO ALARM	PD0000	REHEAT STM TO LP TURB A	-.50	-.50	VOLTAGE
1	08:20:07	LO ALERT	PD0000	REHEATING STM TO MSR B	1014.	1000.	PSIG
1	08:20:07	LO ALERT	PD482	PRESSURIZER 3 PRESSURE	2080.8	2100.0	PSIG
1	08:20:07	LO ALARM	PD482	PRESSURIZER 3 PRESSURE	2080.8	2090.0	PSIG
1	08:20:08	LO ALERT	PD484	PRESSURIZER 4 PRESSURE	2059.8	2140.0	PSIG
1	08:20:08	LO ALARM	PD484	PRESSURIZER 4 PRESSURE	2059.8	2130.0	PSIG
1	08:20:08	ALARM	ZD2.2	RCP 1 BRK Y CLOSED	NCLOSED		
1	08:20:08	RETURN	FD0481	RHR ERN PMP 1 FLOW	1.91	1.60	VOLTAGE
1	08:20:08	HI ALERT	PI192	REHEATING STM TO MSR C	1019.	1000.	PSIG
1	08:20:08	HI ALERT	PI193	REHEATING STM TO MSR D	1046.	1000.	PSIG
1	08:20:09	HI ALERT RETURN	FD407	STM GEN 1 BLOWDOWN FLOW	0.	50.	GPM
1	08:20:09	LO ALERT	FD407	STM GEN 1 BLOWDOWN FLOW	0.	30.	GPM
1	08:20:09	HI RETURN	FD407	STM GEN 1 BLOWDOWN FLOW	0.	52.	GPM
1	08:20:09	LO ALARM	FD407	STM GEN 1 BLOWDOWN FLOW	[illegible]	[illegible]	[illegible]

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1	08:20:12	RETURN	ZD2401	SLAB LIFT	CLOSED		
1	08:20:20	ALARM	LB0100	DELAY NOW NO. 1	RUNNING		
1	08:20:20	ALARM	ZD2110	NO BYPASS 1 TO ENDGR B	ALARM		
1	08:20:20	ALARM	ZD2120	NO BYPASS 1 TO ENDGR C	NCLOSED		
1	08:20:20	ALARM	ZD2130	NO BYPASS 1 TO ENDGR C	OPEN		
1	08:20:20	ALARM	ZD2140	NO BYPASS 2 TO ENDGR A	NCLOSED		
1	08:20:20	ALARM	ZD2150	NO BYPASS 2 TO ENDGR B	OPEN		
1	08:20:20	ALARM	ZD2160	NO BYPASS 2 TO ENDGR B	NCLOSED		
1	08:20:20	ALARM	ZD2170	NO BYPASS 2 TO ENDGR C	OPEN		
1	08:20:20	ALARM	ZD2180	NO BYPASS 2 TO ENDGR C	NCLOSED		
1	08:20:20	ALARM	ZD2190	NO BYPASS 3 TO ENDGR A	OPEN		
1	08:20:20	ALARM	ZD2200	NO BYPASS 3 TO ENDGR A	NCLOSED		
1	08:20:20	ALARM	ZD2210	NO BYPASS 3 TO ENDGR B	OPEN		
1	08:20:20	ALARM	ZD2220	NO BYPASS 3 TO ENDGR B	NCLOSED		
1	08:20:20	ALARM	ZD2230	NO BYPASS 3 TO ENDGR C	OPEN		
1	08:20:20	ALARM	ZD2240	NO BYPASS 3 TO ENDGR C	NCLOSED		
1	08:20:20	ALARM	ZD2250	NO BYPASS 4 TO ENDGR A	OPEN		
1	08:20:20	ALARM	ZD2260	NO BYPASS 4 TO ENDGR A	NCLOSED		
1	08:20:20	ALARM	ZD2270	NO BYPASS 4 TO ENDGR C	OPEN		
1	08:20:20	ALARM	ZD2280	NO BYPASS 4 TO ENDGR C	NCLOSED		
1	08:20:20	ALARM	ZD2290	DISPLAY RS: NO. 3	ALARM		
1	08:20:20	ALARM	ZD2300	DISPLAY CH: SCALE	ALARM		
1	08:20:20	LO ALARM	ZD2310	ADDS 1 TONS	32.37	264.00	DEGF
1	08:20:20	ALARM	ZD2320	NLAN RETURN TO ELE. TOWER TRAIN B	CLOSED		
1	08:20:20	HI ALARM	ZD2330	HOT B BRANCH TO HTR 6A	245.	245.	DEGF
1	08:20:20	HI ALARM	ZD2340	BOIL CW III FI-0810 FLOW	108.1	108.0	PC
1	08:20:24	HI ALARM/RETURN	LD0320	STM GEN 1 WR LI 0501 LVL	53.6	55.0	PC
1	08:20:24	HI RETURN	LD0400	STM GEN 1 WR LI-0501 LVL	53.6	56.0	PC
1	08:20:24	RETURN	ZD2307	AUX FW PMP 2	RUNNING		
1	08:20:24	RETURN	ZD2696	DCW PMP 2	RUNNING		

Georgia Power

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Georgia Power

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J	08:23:12	ALARM	ZD2345	AUX FW PMP 3 DISCH SG 1 TRAIN A	NOPEN	\		
\	08:23:13	LO ALERT RETURN	T3155	MN GEN STATOR CLG WTR OUT BAR 25	116.	109.	DEGF	\
\	08:23:13	LO ALERT RETURN	T3145	MN GEN STATOR CLG WTR OUT BAR 45	112.	109.	DEGF	\
J	08:23:14	SENSOR LO ALARM	F2287	HTR 1C DRAIN FLOW	1.27	1.60	VOLTAGE	\
J	08:23:14	ALARM	ZD2339	AUX FW PMP 2 DISCH SG 2 TRAIN B	NOPEN	\		
\	08:23:14	RETURN	ZD2147	MS BYPASS 1 TO CNDSR A	CLOSED	\		
\	08:23:14	RETURN	ZD2151	MS BYPASS 1 TO CNDSR C	CLOSED	\		
\	08:23:14	RETURN	ZD2153	MS BYPASS 2 TO CNDSR A	CLOSED	\		
\	08:23:14	RETURN	ZD2155	MS BYPASS 2 TO CNDSR B	CLOSED	\		
\	08:23:14	RETURN	ZD3501	RCP 1	RUNNING	\		
\	08:23:14	RETURN	ZD2167	MS BYPASS 4 TO CNDSR B	CLOSED	\		
\	08:23:16	RETURN	ZD2157	MS BYPASS 2 TO CNDSR C	CLOSED	\		
\	08:23:16	RETURN	ZD2159	MS BYPASS 2 TO CNDSR A	CLOSED	\		

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08:23:16	RETURN	ZD2161	MS BYPASS 3 TO CONDSR B		CLOSED		
08:23:16	RETURN	ZD2163	MS BYPASS 3 TO CONDSR C		CLOSED		
08:23:16	RETURN	ZD2165	MS BYPASS 4 TO CONDSR A		CLOSED		
08:23:16	RETURN	ZD2169	MS BYPASS 4 TO CONDSR C		CLOSED		
08:23:16	ALARM	PZ0493	PRZR LO PRESS 2 P11		SET		
08:23:16	HI ALARM RETURN	FD127	RCP3 SEAL INJECTION WTR FLOW	11.6	12.6	DEVF	
08:23:16	HI RETURN	FD127	RCP3 SEAL INJECTION WTR FLOW	11.6	12.6	DEVF	
08:23:16	HI ALARM RETURN	FD123	RCP1 SEAL INJECTION WTR FLOW	12.	10.	DEVF	
08:23:16	HI RETURN	FD123	RCP1 SEAL INJECTION WTR FLOW	12.	10.	DEVF	
08:23:16	LO ALARM RETURN	TI162	MN GEN 2 ATLG CLG WTR OUT BAR 41	120.9	120.	DEVF	
08:23:16	HI ALARM RETURN	TI162	MN GEN STATOR CLG WTR OUT BAR 47	117.	108.	DEVF	
08:23:17	LO ALARM RETURN	TI162	MN GEN STATOR CLG WTR OUT BAR 48	112.	108.	DEVF	
08:23:17	HI RETURN	TI162	MN GEN STATOR CLG WTR OUT BAR 44	118.	108.	DEVF	
08:23:17	LO ALARM RETURN	TI162	MN GEN STATOR CLG WTR OUT BAR 42	120.	108.	DEVF	
08:23:17	HI RETURN	TI162	MN GEN STATOR CLG WTR OUT BAR 49	112.	108.	DEVF	
08:23:21	ALARM	PZ0493	PRZR LO PRESS 2 P11	SET			
08:23:21	ALARM RETURN	FD0126	MN GEN STATOR CLG WTR OUT BAR 52	110.	108.	DEVF	
08:23:21	RETURN		RCP 1B DRAIN FLOW	1.47	1.60	VOLTAGE	
08:23:21	ALARM		RCP 1B TEMPERATURE F (DT)	NORMAL			
08:23:21	RETURN		RCP 1B TEMPERATURE F	NORMAL			
08:23:21	ALARM		MN GEN 2 STATOR CLG WTR OUT BAR 40	112.	108.	DEVF	
08:23:21	RETURN		MN GEN 2 STATOR CLG WTR OUT BAR 43	112.	108.	DEVF	
08:23:21	ALARM		MN GEN STATOR CLG WTR OUT BAR 2	116.	108.	DEVF	
08:23:21	RETURN		MN GEN STATOR CLG WTR OUT BAR 10	111.	108.	DEVF	
08:23:21	ALARM		[illegible]	ALARM			
08:23:21	RETURN		[illegible]	NOCLOSED			
08:23:21	ALARM		MN GEN STATOR CLG WTR OUT BAR 22	110.	108.	DEVF	
08:23:21	RETURN		[illegible]	[illegible]	[illegible]	[illegible]	
08:23:21	ALARM		[illegible]	[illegible]	[illegible]	[illegible]	
08:23:21	RETURN		[illegible]	CLOSED			
08:23:21	ALARM		[illegible]	13.6	12.4	[illegible]	
08:23:21	RETURN		[illegible]	1.61	1.60	[illegible]	
08:23:21	ALARM		[illegible]	[illegible]	[illegible]	[illegible]	
08:23:21	RETURN		[illegible]	1.6	[illegible]	[illegible]	
08:23:21	ALARM		[illegible]	1.5	[illegible]	[illegible]	
08:23:21	RETURN		[illegible]	1.6	[illegible]	[illegible]	
08:23:21	ALARM		[illegible]	1.7	[illegible]	[illegible]	
08:23:21	RETURN		[illegible]	1.7	[illegible]	[illegible]	
08:23:21	ALARM		[illegible]	5.0	3.0	[illegible]	
08:23:21	RETURN		[illegible]	36.2	32.0	[illegible]	
08:23:21	ALARM		[illegible]	2.2	2.0	DEVF	
08:23:21	RETURN		[illegible]	2.6	2.4	DEVF	
08:23:21	ALARM		[illegible]	2.8	2.0	[illegible]	
08:23:21	RETURN		[illegible]	NOCLOSED			
08:23:21	ALARM		[illegible]	NOCLOSED			
08:23:21	RETURN		[illegible]	CLOSED			
08:23:21	ALARM		[illegible]	1.45	1.60	VOLTAGE	
08:23:21	RETURN		[illegible]	ALARM			
08:23:21	ALARM		[illegible]	NORMAL			
08:23:21	RETURN		[illegible]	NOCLOSED			
08:23:21	ALARM		[illegible]	NORMAL			
08:23:21	RETURN		[illegible]	NOCLOSED			
08:23:21	ALARM		[illegible]	107.	106.	DEVF	
08:23:21	RETURN		[illegible]	130.	120.	DEVF	
08:23:21	ALARM		[illegible]	CLOSED			
08:23:21	RETURN		[illegible]	118.3	124.9	PS	
08:23:21	ALARM		[illegible]	102.	108.	DEVF	
08:23:21	RETURN		[illegible]	NOCLOSED			
08:23:21	ALARM		[illegible]	112.	108.	DEVF	
08:23:21	RETURN		[illegible]	ALARM			
08:23:21	ALARM		[illegible]	112.	108.	DEVF	
08:23:21	RETURN		[illegible]	CLOSED			
08:23:21	ALARM		[illegible]	CLOSED			
08:23:21	RETURN		[illegible]	22.1	35.0	PS	
08:23:21	ALARM		[illegible]	CLOSED			
08:23:21	RETURN		[illegible]	1.50	1.50	VOLTAGE	
08:23:21	ALARM		[illegible]	CLOSED			
08:23:21	RETURN		[illegible]				
08:23:21	ALARM		[illegible]

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06:41:10	LO ALERT RETURN	T3024	MN GEN STATOR SLOT NO 24	121.	116.	DEGF	\
06:41:10	LO ALERT RETURN	T3026	MN GEN STATOR SLOT NO 26	120.	116.	DEGF	\
06:41:11	LO ALERT RETURN	T3032	MN GEN STATOR SLOT NO 32	120.	116.	DEGF	\
06:41:11	LO ALERT RETURN	T3013	MN GEN STATOR SLOT NO 13	119.	116.	DEGF	\
06:41:11	HI ALERT	T3039	MN GEN STATOR SLOT NO 39	131.	130.	DEGF	\
06:41:11	LO ALERT RETURN	T3040	MN GEN STATOR SLOT NO 40	120.	116.	DEGF	\
06:41:11	LO ALERT RETURN	T3042	MN GEN STATOR SLOT NO 42	120.	116.	DEGF	\

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LD0442	STM GEN 3 NR LT-0537 LVL		25.5	25.0	PC	\
LD0443	STM GEN 2 NR LT-0527 LVL		25.6	24.0	PC	\
LD0441	STM GEN 3 NR LT-0558 LVL		26.0	25.0	PC	\
08.42	FUNCTION SELECTED = 2 DEVICE RESTORE/FAIL/TRANSFER					
ZL0008	SAFETY SYS BY-PASSED TRAIN C	NO				\
LD0490	STM GEN 1 LO-LO CH I LT-0531	NOT TR				\
LD0487	STM GEN 1 LO-LO CH II LT-0518	NOT TR				\
LD0427	STM GEN 1 LO-LO LEVEL TRIP	NOT TR				\
LD0400	STM GEN 1 LO-LO CH III LT-0517	NOT TR				\
LD0444	STM GEN 3 NR LT-0539 LVL		25.7	25.0	PC	\
LD0445	STM GEN 2 NR LT-0532 LVL		25.7	24.0	PC	\
LA0001	RPS SYS ALL 4 F	NORMAL				\
TD0119	MN GEN STATOR CLD WTR OUT BAR 19		97.	95.	DEGF	\
LA0716	RCSM 17 PWR AND HI FLUX RATE TR	ALARM				\
TD0120	MN GEN STATOR CLD WTR OUT BAR 20		99.	95.	DEGF	\
FD0436	RCLS CH III FT-0436 FLOW		109.2	109.0	PC	\
LA0001	RPS SYS ALL 4 F	ALARM				\
TD0121	MN GEN STATOR SLOT NO 5		118.	115.	DEGF	\
LA0717	RCSM 17 PWR AND HI FLUX RATE TR	NORMAL				\
LD0443	STM GEN 3 NR LT-0537 LVL		25.6	25.0	PC	\
LD0442	STM GEN 2 NR LT-0527 LVL		25.9	24.0	PC	\
TD0122	MN GEN STATOR CLD WTR OUT BAR 20		97.	95.	DEGF	\
LD0426	STM GEN 3 NR RNG LVL 1/2/3/4 AV		27.4	25.0	PC	\
LD0444	STM GEN 3 NR LT-0539 LVL		25.5	25.0	PC	\
LD0490	STM GEN 1 NR LT-0518 LVL		24.8	24.0	PC	\
LD0441	STM GEN 3 NR LT-0558 LVL		25.1	24.0	PC	\
FD0436	RCLS CH III FT-0436 FLOW		109.1	109.0	PC	\
LD0445	STM GEN 2 NR LT-0532 LVL		24.6	24.0	PC	\
LD0426	STM GEN 1 NR LT-0531 LVL		24.7	25.0	PC	\
LD0491	STM GEN 1 NR LT-0519 LVL		26.1	25.0	PC	\
LD0464	STM GEN 4 LO-LO CH II LT-0549	NOT TR				\
LD0400	STM GEN 1 NR LT-0518 LVL		28.7	25.0	PC	\
TD0001	MN GEN STATOR SLOT NO 41		118.	115.	DEGF	\
TD0125	MN GEN STATOR CLD WTR OUT BAR 5		98.	95.	DEGF	\
LD0462	STM GEN 4 LO-LO CH I LT-0534	NOT TR				\
LD0464	STM GEN 4 LO-LO CH II LT-0548	NOT TR				\
LD0467	STM GEN 4 LO-LO LEVEL TRIP	NOT TR				\
FD0436	RCLS CH III FT-0436 FLOW		109.1	109.0	PC	\
TD1127	REGEN HX LETDOWN OUT TEMP		492.6	395.0	DEGF	\
TD1127	REGEN HX LETDOWN OUT TEMP		492.8	395.0	DEGF	\
LD0468	STM GEN 4 LO-LO CH IV LT-0547	NOT TR				\
LD0717	RCSM 17 LO-LO SG WATER	NORMAL				\
TD0002	MN GEN STATOR SLOT NO 28		117.	115.	DEGF	\
TD0003	MN GEN STATOR SLOT NO 29		117.	115.	DEGF	\
LD0445	STM GEN 2 NR LT-0532 LVL		24.9	24.0	PC	\
TD1126	DISPLAY - REGEN HX	ALARM				\
LD0442	STM GEN 3 NR LT-0537 LVL		25.6	25.0	PC	\
LD0426	STM GEN 1 PWR RNG LVL 1/2/3/4 AV		27.7	25.0	PC	\
FD0436	RCLS CH III FT-0436 FLOW		109.2	109.0	PC	\
TD1127	REGEN HX LETDOWN OUT TEMP		492.9	395.0	DEGF	\
TD1126	REGENERATION STM TO HDR 1					

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08:49:29	RETURN	L0071F	RETY 2F LW LO SG WATER L	NORMAL			
08:50:16	LO ALERT RETURN	T0658	MN GEN STATOR CLD WTR OUT BAR 7	96.	95.	DEGF	
08:50:20	HI ALERT RETURN	T0622	MN GEN STATOR CLD WTR OUT NO 22	117.	115.	DEGF	
08:50:21	ALARM	L0424	STM GEN 2 NR LT-0552 LVL	25.2	25.0	PC	
08:50:22	ALARM	L0425B	DISPLAY - SEGMENT	ALARM			
08:50:23	HI ALERT RETURN	T0612	MN GEN STATOR CLD WTR OUT NO 12	110.	108.	DEGF	
08:50:24	HI ALERT RETURN	T0127	MONITOR TB LEAKAGE CLD TEMP	95.0	93.0	DEGF	
08:50:25	HI ALERT RETURN	F0199	TEMPERING STM TO MSR	0.0	0.0	KLBS	
08:50:26	HI ALERT RETURN	T0472	PRESSURIZER SPRAY WTR A INL TEMP	541.2	542.0	DEGF	
08:50:27	HI ALERT RETURN	T0127	RETURN MV LEAKAGE OUT TEMP	107.4	107.0	DEGF	
08:50:28	ALARM	L0450B	DISPLAY - SEGMENT AX	NORMAL			
08:50:29	HI ALERT RETURN	T0107	MN GEN STATOR CLD WTR OUT BAR 7	96.	95.	DEGF	
08:50:30	HI ALERT RETURN	T0117	MN GEN STATOR CLD WTR OUT BAR 17	92.	95.	DEGF	
08:50:31	HI ALERT RETURN	F0152	REGENERATING STM TO MSR A	.50	.200	MILLIONS	
08:50:32	HI ALERT RETURN	T0205	LTR 2A BEARING DRAIN TO CONDSR A	120.	120.	DEGF	
08:50:33	HI ALERT RETURN	T0026	MN GEN STATOR CLD WTR OUT NO 26	110.	110.	DEGF	
08:50:34	ALARM	L0561	STM GEN 4 NR LT-0542 LVL	25.0	25.0	PC	
08:50:35	ALARM	L0424	STM GEN 2 NR LT-0552 LVL	25.7	25.0	PC	
08:50:36	ALARM	L0051B	TMP 1A RCL FT	ALARM			
08:50:37	ALARM	L0410	STM GEN 3 NR LT-0548 LVL	25.8	25.0	PC	
08:50:38	HI ALERT RETURN	L0561	STM GEN 4 NR LT-0542 LVL	25.6	25.0	PC	
08:50:39	HI ALERT RETURN	T0118	MN GEN STATOR CLD WTR OUT BAR 18	99.	95.	DEGF	
08:50:40	ALARM	L0562	STM GEN 4 NR LT-0547 LVL	25.7	25.0	PC	
08:50:41	HI ALERT RETURN	L0562	STM GEN 4 NR LT-0547 LVL	25.8	25.0	PC	
08:50:42	HI ALERT RETURN	L0424	STM GEN 2 NR LT-0552 LVL	25.9	25.0	PC	
08:50:43	HI ALERT RETURN	L0410	STM GEN 3 NR LT-0548 LVL	25.8	25.0	PC	
08:50:44	HI ALERT RETURN	L0562	STM GEN 4 NR LT-0547 LVL	25.7	25.0	PC	
08:50:45	ALARM	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	25.6	100.0	PC	← PI = 2310
08:50:46	HI ALERT RETURN	T0017	HI SUPP TB TEMP CLD EXCITER END	95.	90.	DEGF	
08:50:47	ALARM	L0051B	TMP 1A RCL FT	NORMAL			
08:50:48	RETURN	Z0[illegible]	AUX FW PMP 1 DISCH SG 3 TRAIN C	OPEN			
08:50:49	RETURN	Z0[illegible]	AUX FW PMP 1 DISCH SG 2 TRAIN C	OPEN			
08:50:50	ALARM	L0484	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0	100.0	PC	← PI = 2360
08:50:51	RETURN	T0[illegible]	RCS AMP T1CD DIFF FT TO FW DISCH	[illegible]	[illegible]	[illegible]	
08:50:52	RETURN	Z0[illegible]	AUX FW PMP 1 DISCH SG 2 TRAIN C	OPEN			
08:50:53	HI ALERT RETURN	L0470	STM GEN 4 NAR RNG LVL 1/2/3/4 AV	26.2	25.0	PC	
08:50:54	RETURN	Z0[illegible]	AUX FW PMP 1 DISCH SG 3 TRAIN C	OPEN			
08:50:55	SENSOR LO ALARM	F0[illegible]	REGENERATING STM TO MSR A	[illegible]	[illegible]	[illegible]	
08:50:56	ALARM	[illegible]	TE LOW [illegible]	OPEN			
08:50:57	ALARM	[illegible]	[illegible]	OPEN			
08:50:58	HI ALERT RETURN	L0561	STM GEN 4 NR LT-0542 LVL	25.7	25.0	PC	
08:50:59	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	42.1	100.0	PC	← PORV opened
08:51:00	HI ALARM	F0485	PRESSURIZER RELIEF TANK PRESSURE	8.1	8.0	PSIG	
08:51:01	RETURN	Z0[illegible]	CB LTO DEC BRKR 2N0V1H2	CLOSED			
08:51:02	HI ALERT RETURN	T3126	MN GEN STATOR CLD WTR OUT BAR 33	106.	108.	DEGF	
08:51:20	HI RETURN	T3132	MN GEN STATOR CLD WTR OUT BAR 32	109.	113.	DEGF	
08:51:41	LO RETURN	L0423	STM GEN 2 NR LT-0527 LVL	24.8	25.0	PC	
08:54:04	LO ALERT RETURN	U0689	TAVG DEVIATION FROM MEAS TREF	-1.9	-2.0	DEGF	
08:54:16	ALARM	LA0510	RMP 10 RCL TAVG	ALARM			
08:54:16	ALARM	LA0513	RMP 13 RCL DT	ALARM			
08:55:48	HI ALERT	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	100.0	100.0	PC	←
08:56:16	RETURN	LA0509	RMP 09 RCL 4 F	NORMAL			
08:56:39	LO ALARM	T0484	PRESSURIZER SPRAY WTR B INL TEMP	541.5	542.0	DEGF	
08:57:17	ALARM	LA0509	RMP 09 RCL 4 F	ALARM			
08:57:23	LO RETURN	L0420	STM GEN 2 NR LT-0528 LVL	24.5	24.0	PC	
08:57:34	HI ALERT	L0420	STM GEN 1 NR LT-0517 LVL	70.0	70.0	PC	
08:57:37	HI RETURN	F0485	PRESSURIZER RELIEF TANK PRESSURE	7.0	8.0	PSIG	
08:58:24	HI ALERT RETURN	F0484	PRESSURIZER SPRAY CNTL 2 DEMAND	96.5	100.0	PC	←
08:58:59	HI ALERT RETURN	L0420	STM GEN 1 NR LT-0517 LVL	69.4	70.0	PC	
08:59:08	LO ALERT RETURN	L0420	STM GEN 1 NAR RNG LVL 1/2/3/4 AV	25.8	25.0	PC	
09:00:17	RETURN	LA0[illegible]	RT TAVG/TREF DALC	ALARM			
09:00:17	ALARM	LA0[illegible]	RT TAVG/TREF DALC	RUN			
09:02:46	LO ALARM	L0420	STM GEN 2 NR LT-0528 LVL	NOT RUN			
09:03:17	ALARM	LA0727	RPSM 17 PWR ANG HI FLUX RATE TR	24.0	25.0	PC	
09:04:22	RETURN	LA0727	RPSM 17 PWR ANG HI FLUX RATE TR	ALARM			
09:04:35	LO RETURN	L0420	STM GEN 2 NR LT-0528 LVL	NORMAL			
09:05:07	LO ALERT RETURN	L0423	STM GEN 2 NR LT-0527 LVL	24.6	24.0	PC	

* 4RCP off - spray

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F2457	HCR 5B DRAIN FLOW	1.61	1.60	VOLTAGE	\
L0U510	RMP 10 REL TOVO	ALARM	\		
F2457	HCR 5B DRAIN FLOW	1.57	1.60	VOLTAGE	\
F0442	RCLP 2A 111 FT-0426 FLOW	109.1	109.0	PC	\
T0482	PRESSURIZER SURGE LINE TEMP	577.4	578.0	DEGF	\

QUARANTINED EQUIPMENT LIST

REV. 2

NZB 3-29-90

05-34-90

ATTENTION

At all times, the licensee is responsible for quarantined equipment and can take action involving this equipment it deems necessary to:

- Achieve or maintain safe plant conditions,
- Prevent further equipment degradation, or
- Test or inspect, as required by the plant's Technical Specifications.

To the maximum degree possible, these actions should be coordinated with the Team Leader in advance, or notification made as soon as possible.

Effective Time: 241000MAR90

The Licensee is maintaining the following Items **Quarantined**:

1. **POL Truck (Allowable to use for normal deliveries)**
2. **230 KV Insulator to Reserve Auxiliary Transformer 1A (Broken on 20 MAR 90)**
3. **All replaced CALCON Switches for 1A & 1B Diesel Generators**
4. **ERF recorded Trip Package - Unit 1 (NOTE: Database memory tape maintained by J. P. Cash.)**

The following restrictions concerning Diesel generator troubleshooting, repair, and testing are agree to: **(This applies to DG A & DG B except as noted)**

1. **Any component replacements will be concurred with by the Team Leader prior to performing the work. All replaced components will be retained until released by the Team Leader.**
2. **The following test procedures will be reviewed by the team prior to performance:**
   a. **1B UV Test**
   b. **1A UV Test (#1)**
   c. **1A UV Test (#2)**
3. **The following tests will be announced to the team leader, or a designated representative, 4 hours prior to initiation. It will not be performed until approved by the Team Leader.**
   a. **1B Sequencer Test**
   b. **1B UV Test**
   c. **1A UV Test (#1)**
   d. **1A UV Test (#2)**

QUARANTINED EQUIPMENT LIST

The following personnel will not take vacation until approved by the Team Leader (normal off days are not restricted):

a. All Operations Department Management

b. All operators (licensed and non-licensed) in the Operations Department who were on duty during the 20 Mar 90 event

c. All Event Critique Team members

SUBMITTED BY: Herbert L Beacher
HERBERT BEACHER

DATE: March 29, 1990

EXTENSION: 3769 BEEPER: 138