

February 1, 1993
CWS LTR #93-0082

Director, Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

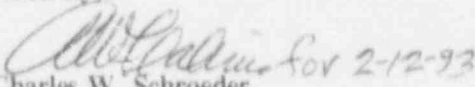
Attention: Document Control Desk

Gentlemen:

Subject: Monthly Operating Data Report
Dresden Nuclear Power Station
Commonwealth Edison Company
Docket Nos. 50-010, 50-237, and 50-249

Enclosed is the Dresden Nuclear Power Station Monthly Operating Summary Report for January, 1993. This information is supplied to your office in accordance with the instructions set forth in Regulatory Guide 1.16.

Sincerely,


Charles W. Schroeder
Station Manager

CWS/DCM:cfq

Enclosure

cc: NRC Region III Office
Illinois Dept. of Nuclear Safety, State of Illinois
U.S. NRC, Document Management Branch
Nuclear Licensing Administrator
Vice Pres. - BWR Operations
General Manager - Nuclear Services
T. S. Engr. (2)
NRC Senior Resident Inspector
Nuclear Quality Programs - Dresden
Nuclear Engineering Manager
Comptroller's Office
Manager - Quality Assurance/Nuclear Safety
Manager - Reliability Programs
INPO Records Center
UDI, Inc. - Wash., D.C.
File/NRC Op. Data
File/Numerical

18-119

(GHKLT92/2)/1

9302190107 930131
PDR ADOCK 05000010
R PDR

JE24

MONTHLY NRC
SUMMARY OF OPERATING EXPERIENCE,
CHANGES, TESTS, AND EXPERIMENTS
PER REGULATORY GUIDE 1.16 AND 10 CFR 50.59
FOR
DRESDEN NUCLEAR POWER STATION
COMMONWEALTH EDISON COMPANY
FOR January, 1993

<u>UNIT</u>	<u>DOCKET</u>	<u>LICENSE</u>
1	050-010	DPR-2
2	050-237	DPR-19
3	050-249	DPR-25

TABLE OF CONTENTS

January, 1993 NRC REPORT

- 1.0 Introduction
- 2.0 Summary of Operating Experience
 - 2.1 Unit 2 Monthly Operating Experience Summary.
 - 2.2 Unit 3 Monthly Operating Experience Summary.
- 3.0 Operating Data Statistics
 - 3.1 Monthly Operating Data Report - Unit 2
 - 3.2 Monthly Operating Data Report - Unit 3
 - 3.3 Average Daily Power Level Data - Unit 2
 - 3.4 Average Daily Power Level Data - Unit 3
 - 3.5 Unit Shutdown and Power Reduction Data - Unit 2
 - 3.6 Unit Shutdown and Power Reduction Data - Unit 3
 - 3.7 Station Maximum Daily Load Data
- 4.0 Unique Reporting Requirements
 - 4.1 Main Steam Relief and/or Safety Valve Operations - Unit 2 and Unit 3
 - 4.2 Off-Site Dose Calculation Manual Changes
 - 4.3 Major changes to the Radioactive Waste Treatment
 - 4.4 Failed Fuel Element Indications
 - 4.4.1 Unit 2
 - 4.4.2 Unit 3
- 5.0 Plant or Procedure Changes, Tests, Experiments, and Safety Related Maintenance
 - 5.1 Amendments to Facility License or Technical Specifications
 - 5.1.1 Unit 2
 - 5.1.2 Unit 3
 - 5.2 Changes to Procedures which are Described in the Final Safety Analysis Report (FSAR) (Units 2 and 3)
 - 5.3 Significant Tests and Experiments Not Described in the FSAR (Units 2 and 3)
 - 5.4 Safety Related Maintenance (Units 2 and 3)
 - 5.5 Completed Safety Related Modifications
 - 5.6 Temporary System Alterations Installed
 - 5.7 Other Required 10 CFR 50.59 Evaluations (Units 2 and 3)

1.0 Introduction

Dresden Nuclear Power Station is a three reactor generating facility owned and operated by the Commonwealth Edison Company of Chicago, Illinois. Dresden Station is located at the confluence of the Kankakee and Des Plaines Rivers, in Grundy County, near Morris, Illinois.

Dresden Unit 1 is a General Electric Boiling Water Reactor with a design net electrical output rating of 200 megawatts electrical (MWe). The unit is retired in place with all nuclear fuel removed from the reactor vessel. Therefore, no Unit 1 operating data is provided in this report.

Dresden Units 2 and 3 are General Electric Boiling Water Reactors with design net electrical output ratings of 794 MWe each.

Waste heat is rejected to a man-made cooling lake using the Kankakee River for make-up and the Illinois River for blowdown.

The Architect-Engineer for Dresden Units 2 and 3 was Sargent and Lundy of Chicago, Illinois.

This report for January, 1993 was compiled by Gregory H. King of the Dresden Technical Staff, telephone number (815) 942-2920, extension 2648.

2.0 SUMMARY OF OPERATING EXPERIENCE FOR January, 1993

2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

01-01-93 to 01-17-93	Unit 2 entered the month on line and operating at 610 MWe as specified by the System Load Dispatcher (LD). The unit operated until 01-17-93 at 0536 hours, when the Unit 2 Reactor was shutdown for Outage D2R13.
01-17-93 to 01-31-93	The unit operated the remainder of the month at this level as specified by the System LD and the Unit 2 Outage D2R13 with an availability of 70.4% and a capacity factor of 68.2%

2.0 SUMMARY OF OPERATING EXPERIENCE FOR January, 1993

2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

01-01-93 to 01-16-93	Unit 3 entered the month on-line and operating at 489 MWe and operated steady state for most of the month until the unit was manually scrammed at 1215 hours of 01-16-93 on Low Instrument Air pressure in accordance with Dresden Operating Abnormal Procedure DOA 4700-06 . The Unit was scrammed manually due to the Loss of Instrument Air through the Unit 3 Instrument Air Dryer inlet valve (AO 3-4799-1194) concurrent with failure of the backup Service Air to Instrument Air cross-tie valve (AO 3-4701-500) to open in sufficient time to restore the Instrument Air header Pressure. The investigation of this event was conducted under PIR # 249-180-93-00400 (LER 93-004) by Ken Yates of the Technical Staff.
01-16-93 to 01-21-93	Unit 3 entered Forced Outage # 001 until the Reactor became critical at 1120 on 01-20-93. The Unit was then synchronized to the grid at 0035 on 01-21-93.
01-21-93 to 01-31-93	Unit 3 finished the remainder of the month operating steady state as per the System LD with a system availability of 89.9% and a capacity factor of 85.2%.

3.0 OPERATING DATA REPORT

3.1 OPERATING DATA REPORT - DRESDEN UNIT TWO

DOCKET No. 050-237
 DATE February 1, 1993
 COMPLETED BY G.H. King
 TELEPHONE (815) 942-2920

OPERATING STATUS

1. REPORTING PERIOD: January, 1993
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth): 2,527
 MAXIMUM DEPENDABLE CAPACITY (MWe NET): 772
 DESIGN ELECTRICAL RATING (MWe Net): 794
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe Net): N/A
4. REASONS FOR RESTRICTIONS (IF ANY): N/A

REPORTING PERIOD DATA

	PARAMETER	THIS MONTH	YEAR TO DATE	CUMULATIVE
5.	HOURS IN PERIOD	744	744	199,176
6.	TIME REACTOR CRITICAL (Hours)	389.58	389.58	149,961.36
7.	TIME REACTOR RESERVE SHUTDOWN (Hours)	0.0	0.0	0.0
8.	TIME GENERATOR ON-LINE (Hours)	389.58	389.58	143,622.32
9.	TIME GENERATOR RESERVE SHUTDOWN (Hours)	0.0	0.0	0.0
10.	THERMAL ENERGY GENERATED (MWh Gross)	714,142	714,142	296,401,899
11.	ELECTRICAL ENERGY GENERATED (MWe Gross)	226,547	226,547	94611,187
12.	ELECTRICAL ENERGY GENERATED (MWe Net)	211,344	211,344	90,449,206
13.	REACTOR SERVICE FACTOR (%)	52.36	52.36	72.11
14.	REACTOR AVAILABILITY FACTOR (%)	52.36	52.36	72.11
15.	GENERATOR SERVICE FACTOR (%)	52.36	52.36	72.11
16.	GENERATOR AVAILABILITY FACTOR (%)	52.36	52.36	72.11
17.	CAPACITY FACTOR (USING MDC Net) (%)	36.90	36.90	57.02
18.	CAPACITY FACTOR (USING DER Net) (%)	35.78	35.78	53.2
19.	FORCED OUTAGE FACTOR (%)	0	0	12.08

20. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS

(Type, Date and Duration of Each)

None.

21. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP

04/15/93

(GHKLT92/2)/7

3.0 OPERATING DATA REPORT

3.2 OPERATING DATA REPORT - DRESDEN UNIT THREE

DOCKET No. 050-249
 DATE February 1, 1993
 COMPLETED BY G. H. King
 TELEPHONE (815) 942-2920

OPERATING STATUS

1. REPORTING PERIOD: January, 1993
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth): 2,527
 MAXIMUM DEPENDABLE CAPACITY (MWe Net): 773
 DESIGN ELECTRICAL RATING (MWe Net): 794
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe Net): N/A
4. REASONS FOR RESTRICTIONS (IF ANY): N/A

REPORTING PERIOD DATA

5.	HOURS IN PERIOD	744	744	188,761.0
6.	TIME REACTOR CRITICAL (Hours)	648.95	648.95	136,238.33
7.	TIME REACTOR RESERVE SHUTDOWN (Hours)	0.0	0.0	0.0
8.	TIME GENERATOR ON-LINE (Hours)	635.8	635.8	130,909.2
9.	TIME GENERATOR RESERVE SHUTDOWN (Hours)	0.0	0.0	0.0
10.	THERMAL ENERGY GENERATED (MWh Gross)	1,390,547	1,390,547	268,920,002
11.	ELECTRICAL ENERGY GENERATED (MWe Gross)	451,724	451,724	86,428,931
12.	ELECTRICAL ENERGY GENERATED (MWe Net)	431,351	431,351	82,041,531
13.	REACTOR SERVICE FACTOR (%)	90.08	44.7	71.7
14.	REACTOR AVAILABILITY FACTOR (%)	90.08	44.7	71.7
15.	GENERATOR SERVICE FACTOR (%)	88.06	40.2	68.9
16.	GENERATOR AVAILABILITY FACTOR (%)	88.06	40.2	68.9
17.	CAPACITY FACTOR (USING MDC Net) (%)	75.10	75.10	54.79
18.	CAPACITY FACTOR (USING DER Net) (%)	72.92	72.92	54.0
9.	FORCED OUTAGE FACTOR (%)	14.54	14.54	11.02

20. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS
 (Type, Date and Duration of Each)
 NONE.
21. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP
 N/A

3.3 AVERAGE DAILY UNIT POWER LEVEL

DOCKET No. 050-237
 UNIT Dresden 2
 DATE February 1, 1993
 COMPLETED BY G. H. King
 TELEPHONE (815) 942-2920

MONTH: January, 1993

DAY AVERAGE DAILY POWER LEVEL
 LEVEL
 (MWe Net)

01	575
02	576
03	572
04	572
05	568
06	565
07	561
08	559
09	556
10	554
11	549
12	548
13	545
14	541
15	540
16	515

DAY AVERAGE DAILY POWER
 LEVEL
 (MWe Net)

17	29
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0

3.4 AVERAGE DAILY UNIT POWER LEVEL

DOCKET No. 050-249
 UNIT Dresden 3
 DATE February 1, 1993
 COMPLETED BY G. H. King
 TELEPHONE (815) 942-2920

MONTH: January, 1993

DAY AVERAGE DAILY POWER LEVEL
 (MWe Net)

01	496
02	374
03	336
04	575
05	711
06	756
07	765
08	772
09	770
10	560
11	714
12	771
13	780
14	781
15	769
16	265

DAY AVERAGE DAILY POWER LEVEL
 (MWe Net)

17	0
18	0
19	0
20	0
21	347
22	582
23	705
24	740
25	776
26	780
27	776
28	764
29	793
30	763
31	787

3.7 COMMONWEALTH EDISON COMPANY
DRESDEN NUCLEAR POWER STATION
MAXIMUM DAILY ELECTRICAL LOAD
FOR THE MONTH OF January, 1993

Day	Hour Ending	KWe
-----	-------------	-----

COMPUTER PROGRAM NOT OPERATIONAL..

NUMBERS WILL BE PROVIDED IN A SUBSEQUENT REPORT UPON RESTORATION OF PROGRAM.

4.0 UNIQUE REPORTING REQUIREMENTS

4.1 MAIN STEAM RELIEF VALVE OPERATIONS

Relief valve operations during the January, 1993 reporting period are summarized in the following table. The table includes information as to which relief valve was actuated, how it was actuated, and the circumstances resulting in its actuation.

<u>Unit</u>	<u>Date</u>	<u>Valves Actuated</u>	<u>No. and Type of Actuations</u>	<u>Plant Conditions</u>	<u>Description of Events</u>
2		No Unit 2 Main Steam Relief and/or Safety Valve actuations occurred during this reporting period.			
3		No Unit 3 Main Steam Relief and/or Safety Valve actuations occurred during this reporting period.			

4.2 OFF-SITE DOSE CALCULATION MANUAL (ODCM) CHANGES

The following changes were made to the ODCM effective 12/30/92:

- 1) The actual (instantaneous) or minimum flow rate of the initial dilution stream should be used in Eq. 10-3.
- 2) Section 10.1.2 should require the setpoints of the radioactive gaseous effluent release monitors to be based on measured station effluents, or it should be shown that use of the mixture taken from NEDO-10871 is unlikely to result in under-estimation of the offsite dose.
- 3) Section 10.2.2 should require the liquid radwaste effluent monitors to be calibrated on the basis of the pre-release analysis of the undiluted radwaste.
- 4) If gaseous effluent monitor setpoints are determined in essentially the same way as at Quad Cities (using reactor building ventilation stack releases for input to Eqs. 10-1 and 10-2), sections 10.1 and 10.2 should be modified to indicate that the value of Q_{in} for solutions of Eqs. 10-1 and 10-2 are obtained from section 10.1.4.1. Otherwise, the ODCM should explain how simultaneous solution of Eqs 10-1 and 10-2 give values of Q_{in} and Q_{out} that can be adjusted.

4.2 OFF-SITE DOSE CALCULATION MANUAL (ODCM) CHANGES (CONTINUED)

The following changes were made to the ODCM effective 12/30/92:

- 5) Section 10-2-8 should identify the means of determining the initial dilution stream flow rate (e.g., flow meter, pump curves).
- 6) To avoid possible confusion with the C_i in section A.2, section 10.2.2 should identify the C_i there as the concentration of radionuclide i in the line or tank prior to dilution by the initial dilution stream.

The above mentioned changes to the ODCM are based on the NRC Safety Evaluation Report (SER) / Idaho National Engineering Laboratory Technical Evaluation Report (TER) of the Offsite Dose Calculation Manual (ODCM), Revision O.A, January 2, 1991.

4.3 MAJOR CHANGES TO THE RADIOACTIVE WASTE TREATMENT SYSTEMS DURING January, 1993

Current Status of Radioactive Waste Treatment System Upgrade Project:

- 1) Completed and operational authorized M12-2/3-87-2M which installs the Radwaste pumps seal water system.
- 2) Completed the waste neutralizer pump replacement. Modification operational authorized during the month of January.
- 3) Started the flow drain sump pump replacement.

4.4 FAILED FUEL ELEMENT INDICATIONS

4.4.1 Unit 2

Unit 2 fuel performance during January, 1993 continued to show no indications of leaking fuel. This is based on the sum of the activities of the six (6) Noble Gases as measured at the Recombiner. Therefore, Unit 2 had excellent fuel performance.

4.4.2 Unit 3

Unit 3 fuel performance during January, 1993 continued to show no indications of leaking fuel. This is based on the sum of the activities of the six (6) Noble Gases as measured at the Recombiner. Therefore, Unit 3 had excellent fuel performance.

5.0 PLANT OR PROCEDURE CHANGES, TESTS, EXPERIMENTS, AND SAFETY RELATED MAINTENANCE

5.1 Amendments to Facility License or Technical Specifications.

No new amendments to facility license or Technical Specifications were approved for use during January, 1993.

5.2 Changes to Procedures Which are Described in the FSAR (Units 2 and 3 during January, 1993.

Table 5.2.1, attached, summarizes the procedures described in the FSAR which were approved for use during this reporting period. Only those procedures that have required a new or an additional 10CFR 50.59 review of changes are included. (Procedures approved for use during the month of January are summarized below) :

- DIP 2400-03 Bypass of Unit 3 Drywell High Radiation Monitor Group 2 Isolation During Refuel Outage : During Refuel outages the Drywell High Radiation Monitor Group 2 Isolation is routinely jumpered out to prevent spurious trips which frequently occur due to welding in the detector area. This procedure was written to eliminate the necessity of using a Temporary Alteration and improve administrative controls.
- DIP 2400-02 Bypass of Unit 2 Drywell High Radiation Monitor Group 2 Isolation during Refuel Outage : During Refuel outages the Drywell High Radiation Monitor Group 2 Isolation is routinely jumpered out to prevent spurious trips which frequently occur due to welding in the detector area. This procedure was written to eliminate the necessity of using a Temporary Alteration and improve administrative controls.
- DES 8000-01 Reactor Protection M-G Set Output Breaker Trip Device : This is a new procedure to provide instructions to perform an inspection of the trip device in the RPS output breakers. This procedure supports LER 3-91-015. Work was previously done under an MMP and traveler.. This procedure provides for the placement of a temporary feed to maintain power to the applicable refuel floor radiation monitors while performing the applicable Reactor Protection M-G set output breaker trip device test. The feed will be from a regular lighting cabinet which will allow reactor building ventilation to run while the applicable RPS M-G set is out of service.
- DOP200-113 This procedure allows transfer of waste sample and floor drain sample tanks to unit 1 T-114 tank in the event of excessive clean water at 2/3 Radwaste.

5.3 Significant tests and experiments not described in the FSAR (Units 2 & 3)

Significant special procedures involving tests not described in the FSAR which were approved during the month of January, 1993 are listed below:

- SP 92-12-147 Control Rod Drive Flow Control Valve Operability Test : This procedure will verify that the trim replacement of the 6A FCV has not affected the valve's ability to operate. The SP will vary CRD System flow to verify newly installed valve trim in the 6A FCV can adequately throttle flow as required.
- SP 92-10-120 Secondary Containment Leak Rate Test for Hardened Vent Modification : Modification M12-2-96-029A requires that the 2-1601-24 valve be tested as a secondary containment boundary as well as manual isolation damper 2-5772-104. This SP will test the 2-5772-104 manual isolation damper to ensure secondary containment can be maintained with Drywell Vent / Purge inspection hatches open.
- SP 93-01-11 Work Activities Associated with the Removal and Reinstallation of the 2A Recirc. Pump during D2R13 Outage : This SP provides instructions for removing and reinstalling the 2A Reactor Recirculation Pump Motor from the Drywell and ensures that all conditions and requirements associated with the analysis of the heavy load movement, as evaluated under exempt change D15176, are satisfied.
- SP 93-01-01 Modification M12-2-88-22C Testing of Panels 902-54, 55, 56, 923-4, 5A and 7 : Commonwealth Edison committed to performing a detailed control room design review (DCRDR) per NUREG-0737, supplement 1. Modification M12-2-88-22B implements corrective action for this DCRDR. This SP is the modification test for M12-2-88-22C.

5.4 Safety Related Maintenance (Unit 2 and 3)

Safety related maintenance activities for January, 1993 are summarized in the attached tables.

ITEM	NATURE OF MAINTENANCE	LEAK OR OUTAGE NUMBER	MAINTENANCE CAUSE	MAINTENANCE RESULT	CORRECTIVE ACTION
ENGINE AIR FILTER VALVE	CORRECTIVE D13753	N/A	-----	-----	RMVD VLV BONNET, RMVD DOWN & THREADED STEM OUT OF BONNET, RMVD OLD P-RING & CLND, REINSTLD STEM W/ APPRV LUFR, REPAK VLV PER DMP 0040-07, CALCD, REINSTALLED.
ENGINE AIR FILTER VALVE	CORRECTIVE D13733	N/A	-----	-----	RMVD VLV BONNET, PACKED, CLEANED AND PLACED NEW PACKING IN PLACE OF OLD, PUT VLV BACK TOGETHER, PUT VLV BACK IN, IN AS FOUND POSITION (OPEN).
TRAIN	CORRECTIVE D15236	N/A	-----	-----	ALL COMPONENTS RAN AND TESTED FOR FULL TEST PERIOD, 30 MIN'S, FOUND NO LEAKS, SET POINTS TESTED ALL WORKED FINE, COULD FIND NO OSCILLATIONS.
IN FLOW CONTROLLER	CORRECTIVE D15403	N/A	-----	-----	RMVD/REMOVED CYL COVERS & INSTALLED SHEF SEALS ON BOTH ENDS/REINSTALLED COVERS & SNOOPED FOR LEAKS, IMD/CHECKED CAL'S & LOW AIR SUPPLY, RESET/TESTED OK
42 A-6542	CORRECTIVE D84152	N/A	-----	-----	DISASS. CRD, CLND ALL PARTS, DID INSPECT FOUND PARTS OK, PASSED PT ON HOUSING, DID ALL PMT'S AND HOLD POINTS, REBUILT PER DMP 300-1 REV 2.
167	PREVENTIVE D94918	N/A	-----	-----	DIS. OLD DRIVE, CLND PARTS, REPKD COLLET INDEX TUNE, SPUD & SEALS, PUT DRV TOGET- HER, HAD UNLATCHING PINS LOTH CKD BY QC, PUT DRV IN HOLE #1.
180	PREVENTIVE D94920	N/A	-----	-----	REBUILT PER DMP 300-1 REV 2/DISASSEMBLED CRD/CLEANED ALL PARTS/FOUND INDEX TUBE BAD/REPLACED/HAD CRD A6680 FT'D/PASSED DID ALL QC HOLD POINTS & PMT'S CLEARED.
RELIEF PILOT	PREVENTIVE D93804	N/A	-----	-----	OBTAINED NEW PARTS FOR (4) FOUR ELECTRO MATIC PILOT ASSY'S, LAPPED SEATS, TESTED ALL, PASSED, ADDRESSED ALL QC HOLD POINTS AND PMT'S.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
1L GENERATOR ENGINE	PREVENTIVE D10244	N/A	-----	-----	OPENED COVERS, CLEANED OIL AND DIRT, USED TORQUE MULTIPLIER, CHECKED ALL CRAG NUTS AND CLOSED ALL COVERS.
1 TRANS PMP DISCH VLV	PREVENTIVE D11655	N/A	-----	-----	CLEANED & INSPECTED VLV, REMOVED OLD GASKET, REPLACED WITH NEW.
1 TRANSFER PMP DISCH	PREVENTIVE D11656	N/A	-----	-----	CLEANED AND INSPECTED VLV, REPLACED OLD GASKET, TORQUED BOLTS TO RIGHT TORQUE VALUE.
MECHANICAL DIESEL	CORRECTIVE D11804	N/A	-----	-----	REMOVED SPACER, REMOVED 4 BOLTS FOR DSL END, SEPARATED PIPE FLGS, CLEANED ALL GSKT SURF, MADE UP NEW GSKT, INSTALLED PIPE TO DSL END AND BOLTED TO FLANGES.
AL DIESEL FUEL OIL	PREVENTIVE D12053	N/A	-----	-----	COMPLETED WORK PER THIS NNR AND FCII WORK PACKAGE D12053-1
TRANSFER LINE	PREVENTIVE D12054	N/A	-----	-----	COMPLETED WORK PER THIS NNR AND FCII WORK PACKAGE D12054-01
TRANSFER LINE	PREVENTIVE D12054	N/A	-----	-----	COMPLETED WORK PER THIS NNR AND FCII WORK PACKAGE D12054-01
1ATED COND STOR JITCH	CORRECTIVE D12940	N/A	-----	-----	JUMPERED OUT SWITCHES 2/3-2350-B&D PER TEMP ALT #11-25-92, REMOVED JUMPERS FOR SWITCHES 2/3-2350-B&D PER TEMP ALT #11-25-92
1ATED COND STOR JITCH	CORRECTIVE D12941	N/A	-----	-----	JUMPERED OUT SWITCHES 2/3-2350-B&D PER TEMP ALT #11-29-92, REMOVED JUMPERS FOR SWITCHES 2/3-2350-B&D PER TEMP ALT #11-29-92.
GEN FAN PANEL 13-107	CORRECTIVE D13124	N/A	-----	-----	REPLACED SEALTITE AS PER WORK INSTRUCT TRAINED CABLES, AND RELUGGED TB-6. RELANDED ALL WIRES LIFTED IN STEP #4 OF WORK INSTRUCT PERP PMV PER INSTRUCTIONS.

EVENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	RESULT	CORRECTIVE ACTION
	PREVENTIVE D01543	N/A	-----	-----	DISASSEMBLED CRD A4037 CLEANED ALL PARTS REPLACED INNER FILTER AND BARREL REBUILT PER DMP 300-1 REV 4. CHECKED ALL PARTS. DID ALL HOLD PNTS AND PNTS PASSED PT.
700 - ROD A3700	PREVENTIVE D01544	N/A	-----	-----	DISASS CRD A3700; CLEANED ALL PARTS. REPLACED INNER FILTER AND LOWER STRAINER REBUILT PER DMP 300-1 REV 2. DID ALL QC HOLD POINTS. PASSED PT.
556 - ROD A3556	PREVENTIVE D01546	N/A	-----	-----	DRIVE DISASSEMBLET; ALL PARTS CLEANED, SEALS & BUSHINGS INSTALLED; DRIVE REASS AND STORED. DID ALL PNT'S AND HOLD PNTS. USED NEW STYLE SEAL KIT.
REL DL DAY TANK	CORRECTIVE D01802	N/A	-----	-----	PERF WORK INSTR. TO FIND X-FER PP START & STOP & HI/LO ALARM PNTS. SET HI/LO ALARM & PP START. STOP AT SETPOINT AS SPECIFIED ON DATA CARD.
TARGET ROCK SPARE	PREVENTIVE Jv4595	N/A	-----	-----	VALVE AND PILOT ASSEMBLY WERE BOXED AND SHIPPED TO WYLE LABORATORY FOR REBUILD; TESTING AND RECERTIFICATION. VALV WAS REBUILT TESTED TWICE, PASSING & RECERT'D
ICING AND OVERHEAD	PREVENTIVE D04760	N/A	-----	-----	REMOVED OLD SEALS- CLEANED UP DOOR FRAME PUT NEW RUBBER ON; PUT NEW SEALS ON AND PAINTED DOOR AND FRAME FOR STATION TRAVELER.
BY DIESEL	CORRECTIVE D05359	N/A	-----	-----	TAPED LEADS ON CTPI; 2 & 3. REMOVED OLD TRANSFORMERS. NEW TRANSFORMERS DO NOT MATCH UP WITH BOLT HOLES. REPLACED OLD TRANSFORMERS AND SENT NEW BACK TO VENDOR.
IC D/O STARTING AIR	PREVENTIVE D08064	N/A	-----	-----	EQUIPMENT WAS REPLACED PER STATION TRAVELER STEPS 1-145.
G COOLING WATER	PREVENTIVE D09427	N/A	-----	-----	DISASS FLBE FOR INSTALLATION OF PANCAKE SO AS TO PERFORM HYDRO TEST. PANCAKE IS STORED IN CLEAN TOOL CRIB.
ICTING DIESEL GEN 2/4	PREVENTIVE D09428	N/A	-----	-----	DISASSEMBLED FLANGES SO AS TO INSTALL PANCAKE BETWEEN FLANGES TO DO HYDRO TEST.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2 FAST ACTING PRESSURE SWITCH	CORRECTIVE D15572	N/A			SWITCH 2-5641-68 FOUND OUT OF TECH SPEC. REPLACED SWITCH WITH NEW ONE. CHECKED CAL PER DIS 5600-3 AND PASSED BOTH FMV'S
13 TORUS/DW AD VENT TS	CORRECTIVE D15762	N/A			REMOVED AIRLINES, REPLACED VLV, RECONNECTED ALL AIR LINES. SNOOPED FOR LEAKS AT THREADED FITTINGS. NO LEAKS FOUND.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
11 NITROGEN CHARGING	CORRECTIVE D14366	N/A	-----	-----	DISASSEMBLED VALVE, REMOVED O-RING, REMOVED TEFLON BACK UP RING, CLEANED & INSPECTED ALL PARTS, REASSEMBLED, NEW O-RINGS, BACK UP RING GLAND NUT THEN SCREWED VALVE INTO BONNET
07 NITROGEN CHARGING	CORRECTIVE D14367	N/A	-----	-----	PERFORMED WORK BY UMP 0305-02 LATEST REV REPLACED HANDWHEEL, PERFORMED PMV'S PER PMT SHEET.
23 NITROGEN CHARGING	CORRECTIVE D14368	N/A	-----	-----	DISASSEMBLED, CLEANED, INSPECTED ALL PARTS, REASSEMBLED USING NEW O-RINGS AND BACK UP RING, TESTED FOR LEAKS, OK.
35 NITROGEN CHARGING	CORRECTIVE D14369	N/A	-----	-----	DISASSEMBLED, CLEANED, INSPECTED ALL PARTS, REASSEMBLED USING NEW O-RINGS AND ADJUSTED PACKING.
TOR XFER OIL PP	CORRECTIVE D14558	N/A	-----	-----	DID WORK FOLLOWING STATION TRAVELER FOLLOWING DAP 0011-25, DMP 0040-38 AND DMP 0040-42
MINING ALARM	CORRECTIVE D14615	N/A	-----	-----	JUMPERED F1S DD-87 TO DD-88 IN 903-3 PM RECEIVED ALARM, ALARM CLEARED WHEN RESET ADJUSTED AUX SWT, VERIFIED SWITCH ACTUATION, LUBRICATED AUX SWITCH.
	CORRECTIVE D14768	N/A	-----	-----	REPLACED MOTOR CONTACTOR WITH LIKE FOR LIKE, TESTED NEW CONTACTOR PICK-UP AND DROP OUT VOLTAGE, REPLACED BKR IN CUBICLE.
	CORRECTIVE D15075	N/A	-----	-----	PADS MM-90-03, CAVITY WAS CLEANED & DRAINS WERE UNBLOCKED & PUMP REPACKED, RAN PUMP & ALSO ADJUSTED PACKING.
0 PRESSURE SWITCH	CORRECTIVE D15534	N/A	-----	-----	SWITCH FOUND OUT OF TOLERANCE, REPLACED SWITCH/TESTED PER DIS 5000-3 AND PASSED BOTH PMV'S, IM'S REMOVED BUTY SPLICE AND INSTALLED RING PLR DEP 2100-06
0 REJECT PRESS	CORRECTIVE D15565	N/A	-----	-----	SWITCH 5641-69 REPLACED, CHECKED CAL PER DIS 5600-3 AND PMV, PASSED BOTH PMVS.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MAJFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
	CORRECTIVE D13929	N/A	-----	-----	REMOVED 1 1/2" NIPPLE FROM PILOT BLOCK. CLEANED THREADS & REINSTALLED. REMOVED PIPE PLUGS & CLEANED ALL THREADS & REIN- STALLED USING APPROVED PIPE SEALANT.
	CORRECTIVE D13965	N/A	-----	-----	CLND & INSPECTED CARD CONNECTORS FOR ARIS 2214. COULD NOT DUPLICATE THE PROBLEM. PERFORMED DIS 700-4 FOR IRR 16 LOOKS OK & STEADY NOW.
CONTROL UNIT #26-39	CORRECTIVE D14004	N/A	-----	-----	REMOVED AND REPLACED ACCUMULATOR G-10 (26-39) PER DMP 300-14. PERFORMED ALL PMV'S PER PNT SHEET.
CONTROL UNIT #18-55	CORRECTIVE D14004	N/A	-----	-----	REPLACED ACCUMULATOR PER DMP 0300-14. ADDED 1/2 NIPPLE AND 45 DEGREE ELBOW TO THE 107 VLV & POSITIONED DRAIN TUBE SO IT CLEARS ACCUMULATOR
CONTROL UNIT #38-03	CORRECTIVE D14005	N/A	-----	-----	VERIFIED NITROGEN & WATER PRESS DISCH'D & WATER DRND FROM ACCUM. REMOVED ACCUM AND CLND & INSPECT ALL PARTS. INSTALL NEW ACCUM. TIGHTENED UPPER & LOWER BOLTS.
4 SWITCH 3-261-2B	CORRECTIVE D14026	N/A	-----	-----	MSL HF DFFS 3-261-2B LEAKY TEST CONNECT ION. REPLACED TEST CONNECTION FITTINGS. TESTED FOR OPERATION PER PMV.
ONE HIGH FLOW	CORRECTIVE D14026	N/A	-----	-----	REPLACED TEST CONNECTION FITTINGS ON LOW SIDE AND PRESSURE TESTED. RETURNED SWITCH TO SERVICE PER DIS 250-1
RNGE MONITOR CH 15	PREVENTIVE D14316	N/A	-----	-----	CLEANED CONN FOR INPUT TO PREAMP. MEAS. RESISTANCE OF INPUT CABLE. OBSERVED INPT SIGNAL NOISY W/OCCASIONAL SPIKE. PERFORMED DIS 700-4 FOR IRR 15.
CH A-B TEMPERATURE	CORRECTIVE D14363	N/A	-----	-----	REPLACED DUAL INPUT CONVERTOR BOARD/CALC POINT 1 & 2. TEMP WAS NORMAL AFTER CAL. REPLACED COOLING FAN. ALSO DUAL CONVERTOR BOARD.
-51 NITROGEN CHARGING	CORRECTIVE D14365	N/A	-----	-----	DISASSM VLV. REMOVED O-RING. REMOVED TEFLON BACK UP RING. CLND & INSPECT ALL PARTS. REASSM. NEW O-RINGS. BACK UP RING GLAND NUT THEN SCREWED VALVE INTO BONNET

EVENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	RESULT	CORRECTIVE ACTION
RANGE MONITOR	CORRECTIVE D13121	N/A	-----	-----	REPLACED AND TESTED RELAY K5 IN PSI. CHECKED HI LIGHT ON PANEL 903-7, CAME UP AT 0.50, 100% FLOW SETTINGS, CAME UP ON BACK PANEL AT ALL JW SETTINGS.
SYSTEM	CORRECTIVE D13326	N/A	-----	-----	REPLACED 3/4" U-BOLT PER THIS NWR AND FCII WORK PACKAGE D13326-01
	CORRECTIVE D13415	N/A	-----	-----	REMOVED & REPLACED OLD STYLE VLV W/NEW FOLLOWING ALL PERT STEPS OF CWP 300-14. CHGD NIPPLE & ELBOW TO ACCOMMODATE NEW HAY. ADJSD ALL HOLD PTS & TORQ ALL BOLTS
SLVE	PREVENTIVE D13519	N/A	-----	-----	CHECKED DISTANCE OF STEM TRAVEL. 1 3/4" VERIFIED. M
WARD)	CORRECTIVE D13918	N/A	-----	-----	CHNGD OUT PILOT BLOCK & INSTLD NEW PIP PLGS. INSTLD NEW O-RGS ON 3WAY/4WAY VLV & NEW INSERT RGS/O RGS. INSTLD MNFLD BLK ASSY ON AIR CYL. HKD UP ASSOC PIPING
MSIV	CORRECTIVE D13923	N/A	-----	-----	REMOVED PIPE & PLGS FROM BLK. CLND THREADS APPLIED NEW SEALANT TO PIPE & PLGS. ROLCD BACK IN BLOCK. TEMP CLEARED OOS & SHOOP CHECKED FOR LEAKS. NO LEAKS FOUND
MSIV	CORRECTIVE D13925	N/A	-----	-----	REMOVED, INSPECTED, CLEARED & REASSEMBLED AIR LINES & PIPE PLUGS IN PILOT BLOCK. VERIFIED PLUGS INSTALLED AND TIGHT WITH APPROVED SEALANT PER PMV OF PMT SHEET.
MSIV	CORRECTIVE D13926	N/A	-----	-----	REMOVED, INSPCTD, CLND & REINSTALLED AIR LINES IN PILOT BLK. VERIFIED PLUGS TIGHT WITH SEALANT PER PMV OF PMT SHEET. TEMP CLEARED OOS. NO LEAKS FOUND.
	CORRECTIVE D13927	N/A	-----	-----	REMOVED PIPE NIPPLE (1 1/2") AND FIVE PIPE PLUGS (1 1/4"). CLEARED ALL THREADS AND USING APPROVED LUBE REINSTALLED ALL PIPE PLUG AND PIPE NIPPLE.
MSIV	CORRECTIVE D13927	N/A	-----	-----	REMOVED PIPE NIPPLE AND 5 PIPE PLUGS, CLEARED ALL THREADS & REINSTALLED USING APPROVED THREAD LUBE.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
NETRATION X-202F	PREVENTIVE D03732	N/A	-----	-----	INSTALLED RAYCHEM SEAL KITS. 68 WIRES WERE SEALED IN ALL.
TER PANEL 38-1-1	PREVENTIVE D04044	N/A	-----	-----	CLND CONTACTS, CHKD, CLND/WIPED AUX CNTS LUBED PLUNGER GUIDES, CHGD CONTACTOR, INSPECTED WIRING, TERM BLK, FUSE BLK, TESTED OVRLOS, MEGED MOTOR, CHKD OPER OK.
EVEL IND / RECRDR	CORRECTIVE D06640	N/A	-----	-----	TRANSMITTER CALIBRATION DRIFTED HIGH, REPAIRED/CALIBRATED PER MMP TRAVELER.
0-106A RELAY	CORRECTIVE D08674	N/A	-----	-----	REMOVED OLD RELAY. TESTED NEW RELAY PER DMP 500-3. INSTALLED NEW RELAY
LL REMOVAL/INSTALL	PREVENTIVE D08754	N/A	-----	-----	INSPECTED AND INSTALLED STRONGBACK PER DMP 1600 REV 4. THEN HAD T.S. PERFORM LLRT. ALSO PERFORMED AND SATISFIED ALL PMV'S.
G VENT FAN DWGR	PREVENTIVE D10746	N/A	-----	-----	RMVD BKR FROM CUB, OBTAINED UNCONDITION RPLS FOR SHIP TO REPAIR, 1ST BKR PER MICROVERSA TIP SETTINGS DATA SHEET. REPLACED BKR INTO CURICLE.
MP SWITCHES	CORRECTIVE D11016	N/A	-----	-----	SWITCH 3-261-180 WAS RPLCD LIKE FOR LIKE CAL'D PER DIS 250-9. INSTLD AND TESTED PER DIS 250-8. TEMP ALTS III-30-92 & III-32-92 WERE REMOVED.
TRANSFER PUMP	PREVENTIVE D12050	N/A	-----	-----	COMPLETED WORK TO THIS NWR AND FCT1 WORK PACKAGE D12050-01
TOR FUEL OIL	PREVENTIVE D12051	N/A	-----	-----	COMPLETED WORK PER THIS NWR AND FCT1 WORK PACKAGE D12051-01
IN MONITOR REFUEL A	CORRECTIVE D12084	N/A	-----	-----	INSTLD IMPRS ON 902(31-10, 8865 AND 8864 TO INHIBIT CHNL A UPSCALE TRIP. ADJUSTED TO SEE IF NOLE WOULD OSCILLATE. NOLE WAS STEADY. PERFORMED DIS 1700-15 TO VERIFY.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	FUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2A	CORRECTIVE D14666	N/A	-----	-----	REPLACED 2A MSIV 3A LIMIT SWITCH. CYCLED 3 TIMES FOR PHV'S. OPERATED CORRECTLY
	CORRECTIVE D14750	N/A	-----	-----	CLEANED & BLUED THE PISTON, RISC, SEATS. INSTALLED NEW GASKET AND TORQUED ALL BOLTING ACCORDINGLY. NOTIFIED T.S. TO DO LLRT.
22A SEAL CAVITY INBD /S	CORRECTIVE D14754	N/A	-----	-----	CUT OUT DR10 & WELDED IN NEW VLV'S. & UNION PER WELD MAP/INSP REC. SATISFIED ALL Q.C. HOLD PNTS. TEMP CLRD DDS & VERIF NO LEAKS. PERF SEAL HYDRO NO LEAKS
	CORRECTIVE D14872	N/A	-----	-----	REPLACED SOLENOID VLV AND HARDWARE. TORQUED TO SPECS/140 LBS. QC WITNESSED. LUBRICATED O-RINGS W/DOW 55 AND BOLTS W/DRAFOIL.
JDR CK	PREVENTIVE D15310	N/A	-----	-----	REMOVED STRONGBACK AFTER LLRT WAS CHECKED.
GENERATOR TO 23-1	PREVENTIVE D15587	N/A	-----	-----	REPLACED LUG ON WIRE IN THE 902-3 PNL. TERM BLK. J POINT 40. QC WITNESSED PROCEDURE. WIRE REPAIRED PER WORK INSTRUCTIONS.
	PREVENTIVE D99719	N/A	-----	-----	REBLT U-2C CCSW FF PER DMP 1501-04. REPLCD CASING VNT VLV & INBD/OUTBD STUFFING BOX COOLING WTR VLV AND RELATED TUBING. SAT ALL QC HOLD POINTS & PHV'S.
PRESS SW ISOL VLV	CORRECTIVE D98911	N/A	-----	-----	REPLACED LEAKING ISOLATION VALVE. CHECKED FOR CORRECT OPERATION AND LEAKS PER QC & DIS 1300-1 & PHV.

ITEM	NO. OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
SN# 2318-001	PREVENTIVE D13656	N/A	-----	-----	CLEANED & INSPECTED BREAKER, MEASURED & TESTED PER DES 6700-03. PERFORMED PMV.
SN# 2317-001	PREVENTIVE D13658	N/A	-----	-----	CLEANED BKR, BRUSH HOLDERS BROKEN OFF IN CHARGING MTR. REPLACED MEIER AFTER TEST, CURED & TOOK MSRMENTS. TESTED AT TEST STA. PUT IN CUB. & PUT IN TEST POSITION.
SN# 2317-011	PREVENTIVE D13659	N/A	-----	-----	CLEANED & ADJUSTED THE 4KV BKR SN# 2317-011. CHANGED OUT THE TRIP COIL & THE 152 AUX SWITCH TESTED BKR IN CUBICAL OK.
SN# 2317-009	PREVENTIVE D13662	N/A	-----	-----	PERFORMED REFUEL EQ SURV. CHANGED OUT TRIP COIL AND THE AUX SWITCH 152. CLEANED AND ADJUSTED THE BKR. ELECT. TESTED IN CUBICAL - OK.
ERLOCK D/W DOOR	PREVENTIVE D13654	N/A	-----	-----	REPLCD DOOR SEALS, CLND MATING SURFACES, CLEANED ALL THREADS ON STUDS, INSTALLED STRONGBACK PER DRAWING, THEN TORQUED ALL BOLTS IN THREE PASSES, 30/85/110 FT/LBS
DW SQ ROOT	CORRECTIVE D14068	N/A	-----	-----	DW-81, DW-83
DW SQ ROOT	CORRECTIVE D14068	N/A	-----	-----	DW-81, DW-83
TCH	CORRECTIVE D14295	N/A	-----	-----	REPLACED OLD PS 241-10A WITH A NEW ONE. COMPLETED DIS 250-2 FOR THE NEW SWITCH AND CHECKED FOR LEAKS. ALARMS CLEANED AND SWITCH IS OPERATING PROPERLY.
G TR-2-1641-200B	CORRECTIVE D14602	N/A	-----	-----	CLEANED SLIDEWIRE AND SELECTOR SWITCH. CALIBRATED PER DATA CARD. PERFORMED PMV'S SATISFACTORILY.
	CORRECTIVE D14649	N/A	-----	-----	DISASSEMBLED VLV AND INSPECTED INTERNAL. CHANGED OUT SEAT, SEAT RINGS, RETAINER RING AND UPPER AND LOWER GASKETS.

ITEM#	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
IN# 2318-001	PREVENTIVE D13656	N/A	-----	-----	CLEANED & INSPECTED BREAKER, MEASURED & TESTED PER DES 6700-03. PERFORMED PMV.
IN# 2317-001	PREVENTIVE D13658	N/A	-----	-----	CLEANED BKR, BRUSH HOLDERS BROKEN OFF IN CHARGING MTR. REPLACED METER AFTER TEST, CURED & TOOK MEASUREMENTS. TESTED AT TEST STA. PUT IN CUR, & PUT IN TEST POSITION.
D11 IN# 2317-011	PREVENTIVE D13659	N/A	-----	-----	CLEANED & ADJUSTED THE 4KV BKR SN# 2317-011. CHANGED OUT THE TRIP COIL & THE 152 AUX SWITCH TESTED BKR IN CUBICAL OK.
IN# 2317-009	PREVENTIVE D13662	N/A	-----	-----	PERFORMED REFUEL TO SURV. CHANGED OUT TRIP COIL AND THE AUX SWITCH 152. CLEANED AND ADJUSTED THE BKR. ELECT. TESTED IN CUBICAL - OK.
TERLOCK D/W DOOR	PREVENTIVE D13664	N/A	-----	-----	REPLCD DOOR SEALS, CLND MATING SURFACES, CLEANED ALL THREADS ON STUDS, INSTALLED STRONGBACK PER DRAWING, THEN TORQUED ALL BOLTS IN THREE PASSES, 30/85/110 FT/LBS
IN SQ ROOT	CORRECTIVE D14060	N/A	-----	-----	DW-81, DW-82
W SQ ROOT	CORRECTIVE D14060	N/A	-----	-----	DW-81, DW-83
TCH	CORRECTIVE D14295	N/A	-----	-----	REPLACED OLD PS 241-30A WITH A NEW ONE, COMPLETED DIS 250-2 FOR THE NEW SWITCH AND CHECKED FOR LOCKS. ALARMS CLEARED AND SWITCH IS OPERATING PROPERLY
G TR-2-1541-0008	CORRECTIVE D14602	N/A	-----	-----	CLEANED SLIDEWIRE AND SELECTION SWITCH, CALIBRATED PER DATA CARD. PERFORMED PMV'S SATISFACTORILY.
	CORRECTIVE D14649	N/A	-----	-----	DISASSEMBLED VLV AND INSPECTED INTERNALS, CHANGED OUT SEAT, SEAT RINGS, RETAINER RING AND UPPER AND LOWER GASKETS.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
PRESSURE XMITTER	CORRECTIVE D09513	N/A	-----	-----	OBTAINED NEW TX FROM STORES AND BENCHED CHECKED. INSTALLED NEW TRANSMITTER WITH UPDATED SERIAL NUMBER, AND VERIFIED OPERATION PER DIS 600-04
PRESSURE XMITTER	PREVENTIVE D09514	N/A	-----	-----	ORIGINAL XMITER WAS REPLACED WITH NEW UPDATED XMITTER WITH PROPER SERIAL # SERIES, AND VERIFIED OPERABLE BY DIS-600-04, REV 7.
LOW FLOW XMITTER	CORRECTIVE D09659	N/A	-----	-----	REPLACED TRANSMITTER 2-1464A PER MMP/ TRAVELLER AND DIS 1400-02 EV 04.
LOW FLOW XMITTER	PREVENTIVE D09661	N/A	-----	-----	REPLACED OLD XMITTER WITH NEW ONE. COMPLETED DIS 1400-2 SUCCESSFULLY. PRESSURE TESTED LINES AND TRANSMITTERS ALL CHECKED GOOD.
IN# 2318-003	PREVENTIVE D10593	N/A	-----	-----	CLEANED AND INSPECTED THE 4KV BKR #2318-003. CHANGED OUT THE TRIP COIL ALSO.
IN #2318-007	PREVENTIVE D10597	N/A	-----	-----	PERFORMED INSPECTION/OVHC PER DES 6700-03 REV 02.
R SH# 1310-010	PREVENTIVE D10600	N/A	-----	-----	PERFORMED P. M. PER DES 6700-03
EXCHANGER	CORRECTIVE D10645	N/A	-----	-----	REMOVED HEAD, FLOODED TUBES, ROLLED TUBES, TESTED AND REINSTALLED HEAD PER DMP 1500 REV 3 AND DMP 5808 REV 5. ALSO SAFETIED ALL. REPLCD STRETCHED STUDS.
EXCHANGER	CORRECTIVE D10645	N/A	-----	-----	REMOVED HEAD, FLOODED TUBES, ROLLED TUBES, TESTED AND REINSTALLED HEAD PER DMP 1500 REV 3 AND DMP 5808 REV 5. ALSO SATISFIED ALL PMV'S.
PRESSURE RELIEF	PREVENTIVE D10716	N/A	-----	-----	ADJUSTED MRV-2 TO 70 PSI. TIGHTENED LOCKNUT AND REPLACED COVER.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
1 CUBICLE	PREVENTIVE D10991	N/A	-----	-----	CLND & INSP BKR CUB. INSTALLED NEW AUX SWTS, BRIDGED & MDRD MTR. VRF PROPER OPER W/NORM ON TERMS. W/BKR CLSD CONTACT SHD CLSD/W BKR OPN CONTACT SHOWS OPEN.
2KV CUBICLE	PREVENTIVE D10993	N/A	-----	-----	CLND UPPER & LOWER SECT OF CUBCLE. CHANGED POSITION & STATION AUX SWITCH. LUBED LINKAGES & HINGES. BRIDGED & MDRD MOTOR FROM CUB. PERFORMED OP'S TEST.
4KV CUBICLE	PREVENTIVE D10994	N/A	-----	-----	PERFORMED EQ SURV DES 6700-04 REV 1 AND DEP 2100-06 REV 1 BECAUSE A LUG NEEDED REPLACING. PUT NEW LUG ON WIRE FOR POSITION SWITCH.
JP 4KV CUBICLE	PREVENTIVE D10998	N/A	-----	-----	REMOVED BKR FROM CUB. CLEANED CUB. CHECKED TERMINATION PIS. REPLACED POSITION SWITCH W/769C92 & AUX SWITCH W/508868. APPLIED FILM OF 766C25 TO PIVOT POINTS.
JP RECIRC PUMP 4KV	PREVENTIVE D11000	N/A	-----	-----	PERFORMED DES 6700-04. CHANGED SLIDE ASSEMBLIES IN LOWER CUBICLE. PERFORMED THE PMV OF BKR CUB. OK.
# 2318-013	PREVENTIVE D11005	N/A	-----	-----	PERFORMED EQ SERV OF BKR PER DES 6700-04 OPERATIONAL TESTED BKR SPARE CUBICLE ON BUS 24-1. REPLACED TRIP COIL USING DES 2100-07 (CRIMPING) AND DMP 6040-25
43 #4 OUTLET VALVE	CORRECTIVE D11374	N/A	-----	-----	REMOVED VLV OPER/BONNET. REPLCD STEM, RETAINER RND & VLV. NEW FLEX GASK. TORQUED VLV BODY TLPCE TO 65 LBS. BALL CHECK VLV TO 45LBS REPLACED AIR DIAPHRAGM.
HNEL INTERLOCK	PREVENTIVE D11505	N/A	-----	-----	REMOVED STRONG BACKS ON 8-22-92. INSTALLED STRONGBACKS ON 8-24-92. ALSO PERFORMED DOOR INSPECTIONS PER DMP 1600-02
# 2317-003	PREVENTIVE D11525	N/A	-----	-----	REWELED STRIKER PLATE. HAD QC P.T. IT. THEN HAD END CYCLE BREAKER & TIMES AND RECHECKED.
1 INSHITTER	CORRECTIVE D11747	N/A	-----	-----	REPLACED TRANSMITTER. CALIBRATED AND TESTED PER DIS 1500-14.

IPMENT,	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
	PREVENTIVE D07075	N/A	-----	-----	TOOK GREASE SAMPLE, CHECKED BONNET BOLTS, OK. CHECKED GREASE RELIEF TUBE, CLEAR.
	PREVENTIVE D07076	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND ACCEPTABLE. GREASE LEVEL ACCEPTABLE AFTER SAMPLE WAS REMOVED. COMPLETED DMS 0040-02 & CHECKLIST 'A'
	PREVENTIVE D07077	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND SAMPLE OK, GREASE LEVEL ACCEPTABLE AFTER SAMPLE WAS REMOVED. COMPLETED DMS 0040-02 AND ALL CHECKLISTS.
	PREVENTIVE D07079	N/A	-----	-----	TOOK GREASE SAMPLE, CLEANED VALVE STEM AND LUBRICATED. CHECKED YOKE MOUNTING BOLTS.
	PREVENTIVE D07080	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND IT TO BE ACCEPTABLE & LEVEL ACCEPTABLE AFTER SAMPLE WAS REMOVED. COMPLETED DMS 0040-02 AND ALL CHECKLISTS
	PREVENTIVE D07081	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND TO BE ACCEPTABLE. GREASE LEVEL ACCEPTABLE AFTER SAMPLE WAS REMOVED. COMPLETED DMS 0040-02 & CHECKLIST 'A'.
LE	PREVENTIVE D07757	N/A	-----	-----	WITH P.N. ASSISTANCE PERFORMED INSPECTION PER ATTACHED DMS 800-1. ADDRESSED ALL HOLD POINTS & PMV'S
2208-09	CORRECTIVE D08874	N/A	-----	-----	R & R NUTS WITH STORES #763085
	PREVENTIVE D08901	N/A	-----	-----	UNFALLO. NEW PIPE CAP & TIGHTENED
CHSLR STEAM LINE	CORRECTIVE D09346	N/A	-----	-----	150 COND STM LINE OP SWITCH DRIFTS TOO MUCH. REPLACED 150 CON FLOW SW & TUBING TEST PER DIS 1300-2 AND PMV.

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
	PREVENTIVE D07062	N/A	-----	-----	DOT GREASE SAMPLE, CHECKED CONNET BOLTS FOR TIGHTNESS, EVERYTHING OK.
	PREVENTIVE D07063	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS-0040-02
	PREVENTIVE D07065	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS 0040-02
	PREVENTIVE D07066	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS 0040-02
	PREVENTIVE D07067	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS 0040-02
	PREVENTIVE D07068	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS 0040-02
	PREVENTIVE D07069	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS 0040-02
	PREVENTIVE D07070	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND GREASE TO BE ACCEPTABLE, GREASE LEVEL ACCEPTABLE AFTER 1 TUBE OF APPLICABLE GREASE WAS INSTALLED, COMPLETED DMS 0040-02
	PREVENTIVE D07071	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND TO BE ACCEPTABLE, GREASE LEVEL ACCEPTABLE AFTER SAMPLE REMOVED, COMPLETED DMS 0040-02 AND ALL CHECKLISTS.
	PREVENTIVE D07073	N/A	-----	-----	REMOVED & INSPECTED GREASE, FOUND GREASE TO BE ACCEPTABLE, GREASE LEVEL OK AFTER SAMPLE WAS REMOVED, COMPLETED DMS 0040-02 AND ALL CHECKLISTS.

ITEM#	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
	PREVENTIVE D06971	N/A	-----	-----	INSPECTED GREASE, FOUND ACCEPTABLE. GREASE LEVEL ACCEPTABLE AFTER SAMPLE WAS REMOVED. COMPLETED DMS 0040-02 AND CHECKLIST 'A'
	PREVENTIVE D06973	N/A	-----	-----	TOOK SAMPLE AND REPLACED PLUG. CHECKED GREASE RELIEF LINE FOR BLOCKAGE, REPLACE LINE, REMOVED STEM PROTECTIVE CAP AND CHECKED STEM AND REPLACED CAP.
	PREVENTIVE D06975	N/A	-----	-----	OBSERVED WATER IN GREASE DURING INSPECTION. COMPLETED CHECKLIST 'A', WROTE WR. D15654 TO COVER REBUILD OF OPERATOR.
	PREVENTIVE D06979	N/A	-----	-----	REMOVED/INSPECTED GREASE-FOUND GREASE SAMPLE TO BE ACCEPTABLE. GREASE LEVEL WAS ACCEPTABLE AFTER SAMPLE WAS REMOVED. COMPLETED DMS 0040-02 AND ALL CHECKLISTS
	PREVENTIVE D06980	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMP 0040-02
	PREVENTIVE D06981	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMP 0040-02. IN GOOD SHAPE.
	PREVENTIVE D06982	N/A	-----	-----	REMOVED & INSPECTED GREASE. FOUND SAMPLE ACCEPTABLE/LEVEL ACCEPTABLE AFTER SAMPLE WAS TAKEN. COMPLETED DMS 0040-02 AND ALL CHECK LISTS.
	PREVENTIVE D07055	N/A	-----	-----	REMOVED & INSPECTED GREASE. FOUND SAMPLE ACCEPTABLE/ADDED GREASE TO GEAR CASE/ LEVEL WAS LOW PRIOR TO SAMPLE. COMPLETED DMS 0040-02 AND ALL CHECKLISTS.
	PREVENTIVE D07058	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMS 0040-02
	PREVENTIVE D07059	N/A	-----	-----	PERFORMED GREASE INSPECTION PER DMP 0040-02

ITEM	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
RECIRC #2A	PREVENTIVE D07105	N/A	-----	-----	RMVD BOTH CPLINGS SPOOL PCE AND RMVD SEAL. DID AUX IMPLR INSPECT. REALIGNED MOTOR SHAFT TO STIFFING BOX. INSTLLED NEW SEAL & CPLGS/SPDOL PCE. TOOK READINGS/TORQUED.
IMMEDIATE RANGE CH15	PREVENTIVE D04922	N/A	-----	-----	WORK PERFORMED PER FCI WORK PACKAGE S04922-01. INKAID ENC 11-17-91.
MISC SENSING LINES	PREVENTIVE D05300	N/A	-----	-----	REPLACED 1 O-RING 760F50. REPLACED MULTIPLE O-RINGS PER VARIOUS WORK REQUEST TO DOCUMENT REPLACEMENT AND THAT TX COVERS WERE PROPERLY TORQUED.
PERATOR	CORRECTIVE D05817	N/A	-----	-----	DISCONNECTED WIRES FROM LIMIT STACK AND REMOUNTED. DAMAGED SEALTITE REMOVED. NEW SEALTITE AND RELOADED WIRES PER LOADED LEADS SHEET. PERFORMED UNDER 2-4.
VEL IND.	CORRECTIVE D06256	N/A	-----	-----	CALIBRATED 2-263-151A SUCCESSFULLY. 2-263-151B COULD NOT BE RECALIBRATED. BOTH INDICATORS WILL BE REPLACED DURING UNIT OUTAGE UNDER MOD WR 01703 & 01704.
NOVAL	PREVENTIVE D06820	N/A	-----	-----	REMOVED SHIELD BLOCK AND D/W COVER PER DMP 1400-04 AND REFERENCED UAP 3-14. ADDRESSED ALL PMV'S AND HOLD PTS.
INSULATION REMOVAL	PREVENTIVE D06039	N/A	-----	-----	REMOVED INSULN & RX HEAD FOR REFUEL DURING D0613. ALL WORK PERF PER DMP 200-17. HAD BEFORE & AFTER CALS PERFORMED ON GAUGES. ADDRESSED ALL HOLD PTS & PMV.
	PREVENTIVE D06959	N/A	-----	-----	TOOK GREASE SAMPLE. CHECKED GREASE RELIEF TUBE. FOUND OK. CHECKED YOKE MOUNTING BOLTS. OK. CLEANED AND LUBRICATED STEM. NO PROBLEMS FOUND.
	PREVENTIVE D06961	N/A	-----	-----	CHECKED GREASE LEVEL/FOUND TO BE PROPER. TOOK SAMPLE OF GREASE/REINSTALLED PLUG. REMOVED GREASE RELIEF TUBE/CHECKED FOR OBSTRUCTION/FOUND NONE. REPLACED GREASE.
	PREVENTIVE D06970	N/A	-----	-----	INSTALLED GREASE. FOUND GREASE LEVEL TO BE ACCEPTABLE AFTER GREASE SAMPLE WAS REMOVED. COMPLETED DMS 0040-03 & CHECKLIST.

3.5 Completed Safety Related Modifications (Units 2 and 3)

Modifications which have been authorized for operation during January, 1993 are listed. For ease of reference, the changes have been identified by their design change control modification number. Previously, only modifications that had been completely closed out were reported.

Modification No.
M12-2/3-87-002P

Description

The purpose of this modification was to replace the Waste Neutralizer pumps per Radwaste upgrade. This upgrade requires the replacement of the 'A' Waste Neutralizer pump and associated piping and valves.

SAFETY EVALUATION SUMMARY

1. The probability of an occurrence or the consequence of an accident, or malfunction of equipment important to safety as previously evaluated in the Final Safety Analysis Report is not increased.
2. The possibility for an accident or malfunction of a different type than any previously evaluated in the Final Safety Analysis Report is not created.
3. The margin of safety, as defined in the basis, for any Technical Specification, is not reduced.

5.6 Temporary System Alterations Installed (Unit 2 and Unit 3)

A "Temporary System Alteration" refers to electrical jumpers, lifted leads, removed fuses, fuses turned to non-conducting position, fuses moved from normal to reserve holder, temporary power supplies, test switches in alternate positions, temporary blank flanges, and spool pieces. Alterations controlled and documented as part of a routine out-of-service or other procedure, alterations which are a normal feature of system design, and hoses installed as part of a venting or draining process are not included.

January, 1993

Temp Alt. Number	Temporary Alteration Description	Installation Date	Removal Date
I-1-93	This temporary alteration was written to provide a temporary power supply to an Aux. Service Air Compressor on the Turbine Deck for the D2R13 Outage.	1/26/93	
II-1-93	A manual valve with a reach rod will be installed on the mix & hold Resin Transfer Outlet T Valve in place of an air operated valve due to the inavailability of parts.	1/15/93	
II-3-93	This temporary alteration will provide power to the Westinghouse Decon Equipment during chemical Decon of Unit 2 Recirc. and RWCU piping from the MCC 42-3 cubicle.	1/26/93	
II-9-93	This temporary alteration will allow the operation of the D2 Grapple unit in Refuel by keeping relay K-5 energized.	1/25/93	
III-1-93	This temporary alteration will provide power to the Westinghouse Decon Equipment during chemical Decon of Unit 2 Recirc. and RWCU piping from Bus 42, Breaker 2C.	1/26/93	

5.7 Other Units 2 and 3 Required 10 CFR 50.59 Evaluations for January, 1993

Other required 10 CFR 50.59 evaluations include Set Point Changes, Rigging Evaluations and changes to equipment not reported in Sections 5.2 through Section 5.6.

<u>Installation No.</u>	<u>Description</u>
2-92-025	The setpoint for U-3 Nitrogen Make-up high pressure switch from its presents setting of 5 PSIG to 9 PSIG. The 5 PSIG setting was established for the N2 Make-up system only. A modification was installed to install a pumpback system into the same piping and the setpoint needed to be raised to compensate for the added pressure in the line due to the pumpback system.
0-92-011	The setpoint for the Carbon Monoxide monitor for Service Air has been changed from (Light @ 20ppm, Alarm @50ppm) to (Light @ 10ppm, Alarm @ 35ppm). OSHA PEL changed from 50 to 35ppm (29 CFR 1910.100). Compressed Gas Assoc. changed grade D air specs form 20 to 10ppm carbon monoxide. Grade D is required by OSHA for breathing air (29 CFR 1910.134).
2-92-026	The setpoint for U-2 Nitrogen Make-up high pressure switch from its presents setting of 5 PSIG to 9 PSIG. The 5 PSIG setting was established for the N2 Make-up system only. A modification was installed to install a pumpback system into the same piping and the setpoint needed to be raised to compensate for the added pressure in the line due to the pumpback system.
3-92-045	The setpoint for the low pressure header for the HPCI oil system will be increased from 55 PSIG to 70 PSIG. The change will slightly enhance the hydraulic lubrication and increase the amount of oil flow pressure to the overspeed test circuit. The increased oil flow will allow the oil overspeed for circuit to operate properly.
Process Computer	This Safety evaluation was written to change the BOP density correction factor calculation on the Honeywell Process Computer. The present calculation results in a correction factor that is incorrect by a factor of (-1). This change corrects erroneous non-conservative process computer calculational parameters and will result in more accurate calculations of core thermal power. This change cannot cause any accident, as it resides in computer code only. The change will help mitigate the effects of an accident.

Docket No. 050-237
 UNIT NAME Dresden Unit 2
 DATE February 1, 1993
 Completed By G. H. King
 Telephone (815) 942-2920

3.5 UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1993

NO.	DATE	TYPE(1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR(3)	LICENSEE EVENT REPORT #	SYSTEM CODE(4)	COMPONENT CODE(5)	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	01/17/93	S. Scheduled	N/A	C. Refuel	1. Manual	N/A	N/A	N/A	On 01/17/93 at 0536 hours, Unit 2 entered its 132R13 Refueling Outage.

(1)

F: FORCED
 S: SCHEDULED

(2)

Reason:

- A. Equipment Failure (Explain)
- B. Maintenance or Test
- C. Refueling
- D. Regulatory Restriction
- E. Operator Training & Licensee Exam
- F. Administrative
- G. Operational Error
- H. Other (Explain)

(3)

Method:

- 1. Manual
- 2. Manual Scram
- 3. Automatic Scram
- 4. Other (Explain)
- 5. Load Reduction

(4)

Exhibit G Instructions for Preparation of Data
 Entry Sheets for Licensee Event Reports (LER)
 File (NUREG-0161)

(5)

Exhibit I Same Source as above.

Docket No. 050-249
 UNIT NAME Dresden Unit 3
 DATE February 1, 1993
 Completed By G. H. King
 Telephone (815) 942-2920

3.6 UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1993

NO.	DATE	TYPE(1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR(3)	LICENSEE EVENT REPORT #	SYSTEM CODE(4)	COMPONENT CODE(5)	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	01/16/93	F. Forced	108.2	A. Equip. Failure	2. Manual Scram	LER 93-004	1A		Unit 3 was manually scrammed on 01/16/93 at 12:15 on Low Instrument Air pressure in accordance with Dresden Operating Abnormal Procedure DOA 4700-06. The unit was scrammed manually due to the Loss of Instrument Air through the Unit 3 Instrument Air Dryer inlet valve (AO 3-4799-1194) concurrent with failure of the backup Service Air to Instrument Air cross-tie valve (AO 3-4701-500) to open in sufficient time to restore the Instrument Air header pressure.

(1)

F: FORCED
 S: SCHEDULED

(2)

Reason:

- A. Equipment Failure (Explain)
- B. Maintenance or Test
- C. Refueling
- D. Regulatory Restriction
- E. Operator Training & Licensee Exam
- F. Administrative
- G. Operational Error
- H. Other (Explain)

(3)

Method:

- 1. Manual
- 2. Manual Scram
- 3. Automatic Scram
- 4. Other (Explain)
- 5. Load Reduction

(4)

Exhibit G Instructions for Preparation of Data Entry Sheets for Licensee Event Reports (LER) File (NUREG-0161)

(5)

Exhibit I Same Source as above.

TABLE 5.2.1

CHANGES TO PROCEDURES WHICH ARE DESCRIBED IN THE FSAR (UNITS 2 AND 3) FOR January, 1993

PROCEDURE TYPE	PROCEDURE NO.	PROCEDURE TITLE/DESCRIPTION	SUMMARY OF CHANGES
SAFETY RELATED PROCEDURE CHANGES FOR THE MONTH OF JANUARY ARE DESCRIBED IN SECTION 5.2 OF THIS REPORT.			

- NOTES:
1. Administrative change; intent of procedure unchanged.
 2. Changed for clarification; intent of procedure unchanged.
 3. Changed to incorporate requirements for new equipment; intent of procedure unchanged.
 4. Changed to implement improved testing / calibration methodology; intent of procedure unchanged.