

**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**

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

WP+470

8910180335 891001
PDR ADOCK 05000010
R PDC

TABLE OF CONTENTS

- 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
 - 5.6.1 Unit 2
 - 5.6.2 Unit 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 are 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 all three Dresden units was Sargent and Lundy of Chicago, Illinois.

This report was compiled by Gerrine Paramore of the Dresden Technical Staff, telephone number (815)942-2920 extension 2364.

2.0 SUMMARY OF OPERATING EXPERIENCE FOR SEPTEMBER, 1989

2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

09-01-89 to 09-30-89 Unit 2 entered the month on line and operating at approximately 803 MWe. Dresden Unit 2 remained on line and operated in Economic Generation Control or at loads requested by the System Load Dispatcher for the remainder of the month.

2.0 SUMMARY OF OPERATING EXPERIENCE FOR SEPTEMBER, 1989

2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

09-01-89 to 09-30-89

Unit 3 entered the month on line and operating at approximately 803 MWe. The unit operated in Economic Generation Control or at loads requested by the System Load Dispatcher for the remainder of the month.

3.0 OPERATING DATA STATISTICS

3.2 OPERATING DATA REPORT - UNIT TWO

DOCKET NO. 050-237
 UNIT DRESDEN TWO
 DATE: OCTOBER 1, 1989
 COMPLETED BY: G.M. PARAMORE
 TELEPHONE (815) 942-2920

OPERATING STATUS

- | | | | |
|---|----------------|------------------------------------|-----|
| 1. REPORTING PERIOD | SEPTEMBER 1989 | GROSS HOURS IN REPORTING PERIOD | 720 |
| 2. CURRENTLY AUTHORIZED POWER LEVEL (MWt) | 2,527 | MAX DEPEND CAPACITY (MWe-Net) | 772 |
| | | DESIGN ELECTRICAL RATING (MWe-Net) | 794 |
| 3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net) | | NONE | |
| 4. REASONS FOR RESTRICTION (IF ANY) | | | |

REPORTING PERIOD DATA

	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
5. TIME REACTOR CRITICAL (HOURS)	720.0	5,268.9	128,814.8
6. TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
7. TIME GENERATOR ON-LINE (HOURS)	720.0	5,156.9	123,182.3
8. TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
9. THERMAL ENERGY GENERATED (MWhT-Gross)	1,676,654	11,168,782	253,660,644
10. ELECTRICAL ENERGY GENERATED (MWhE-Gross)	540,767	3,569,896	81,054,629
11. ELECTRICAL ENERGY GENERATED (MWhE-Net)	515,878	3,388,666	76,631,572
12. REACTOR SERVICE FACTOR (%)	100.0	80.4	75.8
13. REACTOR AVAILABILITY FACTOR (%)	100.0	80.4	75.8
14. SERVICE FACTOR (%)	100.0	78.7	72.5
15. AVAILABILITY FACTOR	100.0	78.7	72.5
16. CAPACITY FACTOR (USING MDC) (%)	92.8	67.0	58.4
17. CAPACITY FACTOR (USING DESIGN MWe) (%)	90.2	65.1	56.8
18. FORCED OUTAGE FACTOR (%)	0.0	2.4	10.9

19. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS
 (TYPE DATE AND DURATION OF EACH)
- 125VDC TEST OUTAGE, 12-13-89, 13 DAYS
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP

N/A

3.0 OPERATING DATA STATISTICS

3.2 OPERATING DATA REPORT - UNIT THREE

DOCKET NO. 050-249
 UNIT DESIGN THREE
 DATE: OCTOBER 1, 1989
 COMPLETED BY: G.M. PARAMORE
 TELEPHONE (815) 942-2920

OPERATING STATUS

1. REPORTING PERIOD SEPTEMBER 1989	GROSS HOURS IN REPORTING PERIOD	720
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 2,527	MAX DEPEND 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 RESTRICTION (IF ANY)		

REPORTING PERIOD DATA

	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
5. TIME REACTOR CRITICAL (HOURS)	720.0	5,807.7	11,716.8
6. TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
7. TIME GENERATOR ON-LINE (HOURS)	720.0	5,721.2	110,845.3
8. TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
9. THERMAL ENERGY GENERATED (MWhT-Gross)	1,746,527	13,182,763	228,167,222
10. ELECTRICAL ENERGY GENERATED (MWe-Gross)	565,375	4,257,208	73,645,917
11. ELECTRICAL ENERGY GENERATED (MWe-Net)	541,352	4,058,844	69,796,270
12. REACTOR SERVICE FACTOR (%)	100.0	88.7	74.4
13. REACTOR AVAILABILITY FACTOR (%)	100.0	88.7	74.4
14. SERVICE FACTOR (%)	100.0	87.3	69.5
15. AVAILABILITY FACTOR	100.0	87.3	69.5
16. CAPACITY FACTOR (USING MDC) (%)	97.3	80.2	56.6
17. CAPACITY FACTOR (USING DESIGN MWe) (%)	94.7	78.0	55.1
18. FORCED OUTAGE FACTOR (%)	0.0	3.9	12.2
19. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE DATE AND DURATION OF EACH)			
REFUEL OUTAGE, 12-3-89, 10 WEEKS			
20. 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 II

DATE OCTOBER 1, 1989

COMPLETED BY G. PARAMORE

TELEPHONE 815/942-2920

MONTH SEPTEMBER, 1989

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	<u>774</u>
2	<u>778</u>
3	<u>625</u>
4	<u>640</u>
5	<u>741</u>
6	<u>730</u>
7	<u>724</u>
8	<u>760</u>
9	<u>771</u>
10	<u>711</u>
11	<u>699</u>
12	<u>769</u>
13	<u>757</u>
14	<u>777</u>
15	<u>777</u>
16	<u>775</u>

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

17	<u>659</u>
18	<u>745</u>
19	<u>751</u>
20	<u>757</u>
21	<u>765</u>
22	<u>774</u>
23	<u>434</u>
24	<u>548</u>
25	<u>723</u>
26	<u>771</u>
27	<u>768</u>
28	<u>551</u>
29	<u>676</u>
30	<u>768</u>
31	<u> </u>

3.4 AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. Q50-249

UNIT III

DATE OCTOBER 1, 1989

COMPLETED BY G.P. PARAMORZ

TELEPHONE 815/942-2940

MONTH SEPTEMBER, 1989

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1 611
2 638
3 729
4 697
5 740
6 774
7 777
8 773
9 749
10 776
11 777
12 779
13 782
14 783
15 783
16 766

17 784
18 779
19 778
20 763
21 584
22 761
23 774
24 755
25 775
26 782
27 779
28 785
29 781
30 742
31 _____

3.5 UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-237

UNIT NAME DRESDEN UNIT II

DATE October 1, 1989

COMPLETED BY G. Paramore

TELEPHONE (815)942-2920

REPORT MONTH SEPTEMBER, 1989

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
6	None	-	-	-	-	-	-	-	

¹
F: Forced
S: Scheduled

²
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & Licensee Examination
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 Report (LER) File (NUREG-0161)

⁵ Exhibit I - Same Source

3.6 UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-249

UNIT NAME DRESDEN UNIT III

DATE October 1, 1989

COMPLETED BY G. Parimore

TELEPHONE (815)942-2920

REPORT MONTH SEPTEMBER, 1989

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
5	None	-	-	-	-	-	-	-	-

1

F: Forced
S: Scheduled

2

Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & Licensee Examination
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 Report (LER) File (NUREG-0161)

5 Exhibit I - Same Source

3.7 STATION MAXIMUM DAILY ELECTRICAL LOAD DATA
DRESDEN STATION
SEPTEMBER, 1989

DAY	HOUR ENDING	MAXIMUM DAILY LOAD KW
1	2400	1,539,900
2	2300	1,525,700
3	2300	1,532,900
4	2400	1,526,400
5	1600	1,582,100
6	1700	1,568,400
7	1300	1,580,300
8	1000	1,605,900
9	1700	1,611,400
10	0100	1,597,400
11	2400	1,596,300
12	2400	1,619,600
13	1600	1,625,200
14	1800	1,628,200
15	0500	1,624,200
16	1200	1,628,100
17	0100	1,561,600
18	1700	1,625,100
19	1200	1,601,300
20	0900	1,603,200
21	2400	1,528,900
22	1100	1,627,400
23	0100	1,385,300
24	2400	1,451,800
25	2000	1,625,300
26	1300	1,634,600
27	1300	1,636,300
28	2400	1,450,000
29	2300	1,608,400
30	1500	1,622,400
TOTAL		47,353,600

4.0 UNIQUE REPORTING REQUIREMENTS

4.1 MAIN STEAM RELIEF VALVE OPERATIONS

Relief valve operations during the reporting period, September, 1989, 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>
2/3	9/89	Valve Serial No: BK 7052	1, Bench Tested	:/A	This Electromatic Relief Valve was bench tested and rebuilt for future use.

4.2 OFF-SITE DOSE CALCULATION MANUAL CHANGES

There were no changes to the Off-Site Dose Calculation Manual during September, 1989.

4.3 MAJOR CHANGES TO THE RADIOACTIVE WASTE TREATMENT SYSTEMS

There were no major changes to the radioactive waste treatment systems at Dresden during September, 1989.

4.4 FAILED FUEL ELEMENT INDICATIONS

4.4.1 Unit 2

Dresden Unit 2 fuel performance during September 1989 continued to show no indications of leaking fuel. This is based on the sum of the activities of the six noble gases as measured at the recombiner. Based on the reported data, Unit 2 had acceptable fuel performance.

4.4.2 Unit 3

Dresden Unit 3 fuel performance during September 1989 continued to show no indications of leaking fuel. This is based on the sum of the activities of the six noble gases as measured at the recombiner. Based on the reported data, Unit 3 had acceptable fuel performance.

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

5.1 Amendments to Facility License or Technical Specifications

The license amendments and/or Technical Specification changes which were approved and implemented for use during the reporting period are listed below.

5.1.1 Unit 2

None

5.1.2 Unit 3

None

5.2 Changes to Procedures Which are Described in the FSAR (Units 2 and 3)

Table 5.2.1, attached, summarizes the revisions to procedures described in the FSAR which were approved during thereporting period.

TABLE 5.2.1

CHANGES TO PROCEDURES WHICH ARE DESCRIBED IN THE FSAR (UNITS 2 AND 3)

PROCEDURE TYPE	PROCEDURE NO.	PROCEDURE TITLE/DESCRIPTION	SUMMARY OF CHANGES
Dresden Instrument Procedure (DIS)	DIS 500-10	Scram Discharge Volume Instrumentations Functional Test & Calibration	2
Dresden Operating Surveillance (DOS)	DOS 1100-1	Standby Liquid Control System Pump Test	2,4
	DOS 5600-2	Monthly & Weekly Turbine Checks	4
	DOS 6600-1	Diesel Generator Surveillance Tests	2,4
Dresden Technical Staff Surveillance (DTS)	DTS 300-2	Control Rod Drive Scram Testing and Scram Valve Timing Tests.	2,4

- 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. Charged to implement improved testing/calibration methodology; intent of procedure unchanged.

Z470

5.3 Significant Tests and Experiments Not Described in the FSAR
(UNITS 2 and 3)

Significant special procedures involving tests not described in the FSAR which were approved during the month are listed below.

<u>Procedure No.</u>	<u>Procedure Title/Description</u>
SP 89-9-77	Maintenance Shop Fire Sprinkler System Modification Leakage Test.
SP 89-9-79	New Training Building Fire Water Availability Flow Test.
SP 89-9-81	This procedure diagnosed difficulty in notching Control Rod Drive (CRD) N-9 under normal CRD drive water pressure conditions and determined corrective action.

5.4 Safety related maintenance (Units 2 and 3)

Safety related maintenance activities are summarized in the attached tables.

5.4 DRESHER UNIT 2
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
U2 MOV 2301-14	PREVENTIVE MR 061503	N/A			INSTALLED MOTOR AND CHECKED FOR PROPER ROTATION
2-2301-48 MO	PREVENTIVE MR 072187	N/A			INSTALLED NEW GASKETS AND GREASE
2-MU-1001-2B	PREVENTIVE MR 072204	N/A			INSTALLED NEW DRIVE NUT, GASKETS, SEALS AND GREASE
2-2301 HPCI	CORRECTIVE MR 072609	N/A			CLEANED TANK AND LIMES
2-202-51B 2B RECIRC MG SET	PREVENTIVE MR 075696	N/A			PERFORMED TESTING, FOUND NO PROBLEMS
MOV 1402-3B	PREVENTIVE MR 078304	N/A			PERFORMED INSPECTION AND OVERHAUL
AO 2-2599-5B	CORRECTIVE MR 078743	N/A			REPLACED AIR DIAPHRAGM
2-1402-2A 2A CORE SPRAY PUMP MOTOR	PREVENTIVE MR 079025	N/A			PERFORMED PROCEDURE AND REPLACED UPPER THRUST BEARINGS
HPCI DRAIN LINE TO CONDENSER	CORRECTIVE MR 079175	N/A			REINJECTED COMPOUND INTO ENCLOSURE
2-300-J14 CRD	PREVENTIVE MR 079458	N/A			REPLACED CRD

OPERATOR UNIT 2
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	HALF FUNCTION CAUSE	RESULT	CORRECTIVE ACTION
MOV 2301-4	PREVENTIVE MR 030599	N/A			REPLACED CABLES FOR MOV
CRD 30-03	CORRECTIVE MR 081761	N/A			REPLACED PRESSURE SWITCH
2-C301 ACCUM 42-51/L-13	CORRECTIVE MR 081794	N/A			CHECKED SWITCH AND FOUND NO PROBLEMS
MSL HI FLOW SWITCHES	CORRECTIVE MR 081879	N/A			INSTALLED PINS AND REPLACED HI AND LO SHROUERS
ERV 2-203-3C	CORRECTIVE MR 081982	N/A			INSTALLED NEW PRESSURE CONTROLLER
CA 127870 IRM #16 G.M. PENETRATION CONNECTION-INSIDE	CORRECTIVE MR 082069	N/A			REPAIRED CABLE
2-1502-B 2B LPCI PUMP BREAKER	CORRECTIVE MR 082083	N/A			REPLACED BREAKER TRIP COIL
LPRM 40-57B DOWNSCALE	CORRECTIVE MR 082340	N/A			REPAIRED LIGHT SOCKET
LPRM 08-33B DOWNSCALE	CORRECTIVE MR 082341	N/A			REPAIRED SOCKET HOLDER
LPRM 24-41-C	PREVENTIVE MR 082675	N/A			TESTED LPRM AND FOUND NO PROBLEMS

UNDESIRABLE UNIT ?		SAFETY RELATED MAINTENANCE		CORRECTIVE ACTION	
EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	
24/48 VDC BATTERY	CORRECTIVE MR 082949	N/A			ADJUSTED FLOAT RANGE
2-263-156 REACTOR PRESSURE	PREVENTIVE MR 082983	N/A			REMADE SCALE AND CALIBRATED PER PROCEDURE
D2 O/W PERSONNEL HATCH	PREVENTIVE MR 083115	N/A			INSTALLED AND REMOVED STROBE-LIGHTS AND FORWARDED VALVE
SOURCE RANGE MONITOR (SRM) 21	CORRECTIVE MR 083143	N/A			REPLACED THE LOGRYTHMIC INTEGRATOR MODULE PER PROCEDURE
LPRM 48-49C (GP 1)	CORRECTIVE MR 083179	N/A			PERFORMED PROCEDURE AND FOUND NO PROBLEM
2-1641-200A & 2-1641-9 TORUS BULK TEMPERATURE RECORDERS (902-5 & 902-37 PANELS)	PREVENTIVE MR 083510	N/A			NOTE MR#24132 TO REPAIR THERMOCOUPLE
APRM CHANNEL 2 RECORDER	CORRECTIVE MR 083815	N/A			CLEANED SLIDE WIRE AND CALIBRATED RECORDER
MOV 1001-2B	PREVENTIVE MR 083901	N/A			DISCONNECTED AND RECONNECTED MOV. BRIDGED AND MEASURED
2-0305-101 AND 112 HCU ISOLATION VALVES	PREVENTIVE MR 084217	N/A			INSPEC TO STEM AND WEDGE ASSEMBLIES AND FOUND NO PROBLEMS
RELAY 590-1248	CORRECTIVE MR 084269	N/A			INSPECTED RELAY AND CLEANED CONTACTS

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
AD 2B 5741	CORRECTIVE MR 084350	N/A	-----	-----	REPAIRED AIR LINES AND SOLDERED FITTINGS
2-1640-11A CONTAINMENT PRESSURE	PREVENTIVE MR 084456	N/A	-----	-----	RENUMBERED SCALE AND CALIBRATED INDICATOR
2-1640-11B CONTAINMENT PRESSURE	PREVENTIVE MR 084457	N/A	-----	-----	RENUMBERED SCALE AND CALIBRATED INDICATOR
2-1640-10A TORUS LEVEL	PREVENTIVE MR 084459	N/A	-----	-----	COMPLETED SCALE RENUMBERING AND CALIBRATED INDICATOR
2/3 DG BUS 40 C/S TO BUS 23-1	CORRECTIVE MR 084605	N/A	-----	-----	REPLACED LIGHT SOCKET
2-2304-14"C HPCI DISCHARGE LINE	CORRECTIVE MR 084870	N/A	-----	-----	TIGHTENED SUPPORT NUTS
261-30B GROUP I ISOLATION 'B' MSL LOW PRESSURE SWITCH	CORRECTIVE MR 084927	N/A	-----	-----	RESET TRIP POINT
RBM CHANNEL #8	CORRECTIVE MR 084960	N/A	-----	-----	CLEANED DRIVER CARD EDGE CONNECTOR AND REFLUXED SOLDER CONNECTIONS
125VDC BATTERY CHARGER 2A	CORRECTIVE MR 084971	N/A	-----	-----	ADJUSTED FLOAT AND EQUALIZE VOLTAGES
U2 TORUS SIGHT GLASS	CORRECTIVE MR 085035	N/A	-----	-----	CLEANED INSIDE GLASS TUBE, REPOSITIONED SIGHT GLASS AND TIGHTENED NUTS

DNESDEN UNIT 2
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OF OUTAGE NUMBER	MAJORITY CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
RE-2-750-100 APRM CH. 6 RECORDER	CORRECTIVE WR 1085255	N/A			REPLACED SWITCH OPERATOR
LPRM 40-33B	PREVENTIVE WR 1085590	N/A			PERFORMED PROCEDURE, FOUND NO PROBLEMS
2-6724-28 4KV BREAKER SERIAL #0204A2310-008	PREVENTIVE WR 1085689	N/A			PERFORMED 4KV BREAKER PM PER PROCEDURE
UZ REACTOR MODE SWITCH	PREVENTIVE WR 1085886	N/A			TORQUED SCREWS

DIAGNOSIS UNIT 3
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
M-1193-1007 DRYWELL SPRING CAN	CORRECTIVE MR 074155	N/A			RESET SPRING CAN COLD SETTING
3-0302-13B-2A & 3B 3B CRD STABILIZING VALVES	CORRECTIVE MR 076792	N/A			INSTALLED NEW SOLENOID VALVES AND O-RINGS
3-1501-13A	CORRECTIVE MR 077068	N/A			REPLACED TOP COVER GASKET AND READJUSTED PACKING FOLLOWER
3-MU-1501-13B	CORRECTIVE MR 077569	N/A			TIGHTENED YOKE BOLTS AND LOCKWIRED AS NEEDED
3-6601 DIESEL GENERATOR	PREVENTIVE MR 079816	N/A			PERFORMED 3 AND 6 MONTH INSPECTIONS
3-2530-501 DDCM PUMP DISCHARGE CHECK VALVE	CORRECTIVE MR 080797	N/A			INSTALLED NEW VALVE PER PROCEDURE
3-261-30A MAIN STEAM LINE LOW PRESSURE SWITCH	PREVENTIVE MR 080973	N/A			INSTALLED AND REMOVED PRESSURE TRANSMITTER FOR TESTING
U3 DIESEL GENERATOR-6600	PREVENTIVE MR 081397	N/A			ALIGNED U3 DIESEL GENERATOR
ARI AUTO RESET RELAYS K113A(B)	CORRECTIVE MR 081399	N/A			ADJUSTED TIME DELAY RELAYS PER PROCEDURE
CHANNEL 'B' MSL HI FLOW SWITCHES	CORRECTIVE MR 081742	N/A			INSTALLED PINS PROPERLY AND CHECKED CALIBRATION

DRESSEN UNIT 3

SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
2/3 24/48 125V, 250V BATTERY CHARGER	PREVENTIVE MR 081007	N/A			ADJUSTED FLOAT VOLTTAGES
AO 92058 AIR SAMPLING SYSTEM	CORRECTIVE MR 082550	N/A			REPLACED REGULATOR AND GAUGE
HPCI FLOW CONTROLLER	PREVENTIVE MR 082626	N/A			REPLACED CONVERTER AND CALIBRATED AND BACKFILLED TRANSMITTER SENSING LINES
3-MU-1501-5C	CORRECTIVE MR 082739	N/A			REPLACED ALL GASKETS AND SEALS. INSTALLED GREASE RELIEF KIT
3-MU-1402-44	PREVENTIVE MR 082739	N/A			REPLACED DRIVE SLEEVE, GASKETS, O-RINGS AND GREASE
3-MU-1402-48	PREVENTIVE MR 082740	N/A			REPLACED HANDWHEEL SHAFT, GASKETS AND SEALS AND GREASE
3-1503A LPCI HEAT EXCHANGER	CORRECTIVE MR 083058	N/A			CLEANED HEADS AND PLUGGED LIAKS
MOV 3-1501-186	PREVENTIVE MR 083418	N/A			PERFORMED PREVENTIVE MAINTENANCE AND OVERHAUL ON MOV
3-1402-48 MOV	PREVENTIVE MR 083421	N/A			BTUNGED AND REBBERED MOTOR AND SET LIMITS
LPCI FLOW TRANSMITTER	PREVENTIVE MR 083462	N/A			INSTALLED AND REMOVED RECORDER

OREGON UNIT 3
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
3-2540-9B DRYWELL PRESSURE INDICATOR	CORRECTIVE MR 032519	N/A			PERFORMED PROCEDURE AND RECALIBRATED
3-2301-46	CORRECTIVE MR 032536	N/A			INSTALLED NEW GAGE, CLEANED AND LUCED STEM AND ADJUSTED SET PRESSURE
3-0305-02-23 CRD ACCUM A-5	CORRECTIVE MR 032624	N/A			REPLACED ACCUMULATOR
590 107E RPS RELAY	CORRECTIVE MR 032726	N/A			REPLACED RELAY AND ADJUSTED
3-203-3A TARGET ROCK PILOT VALVE	CORRECTIVE MR 033775	N/A			REPLACED PILOT ASSEMBLY, TORQUED BODY BOLTS
LPEM 40-49C	CORRECTIVE MR 034030	N/A			TROUBLESHOT PER PROCEDURE, FOUND NO PROBLEMS
3-0305-127 U3 ACCUM H-5 SCRAM OUTLET VALVE	CORRECTIVE MR 034607	N/A			ADJUSTED PACKING TO ELIMINATE LEAKAGE
3-305-127 CRD J-8	CORRECTIVE MR 034693	N/A			READJUSTED SWITCH ACTUATOR PLATE AND SECURED FASTENING DEVICE
3-305-126 CRD H-8	CORRECTIVE MR 034699	N/A			READJUSTED SWITCH ACTUATOR PLATE AND SECURED FASTENING DEVICE
3-305-127 CRD P-8	CORRECTIVE MR 034700	N/A			READJUSTED SWITCH ACTUATOR PLATE AND SECURED FASTENING DEVICE

DRESDEN UNIT 3
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE RESULT	CORRECTIVE ACTION
3-1641-200B DIV. II TORUS TEMPERATURE RECORDER	CORRECTIVE WR 085121	N/A	-----	REPLACED DEFECTIVE BELT, ALIGNED PRINT HEAD AND VERIFIED PROPER RECORDER INDICATION
3B H2O2 MONITOR	CORRECTIVE WR 085193	N/A	-----	REPLACED SAMPLE PUMP AND CALIBRATED
3-2501 ACAD CAM AIR COMPRESSOR	CORRECTIVE WR 085404	N/A	-----	REPLACED DIAPHRAGM AND INSTALLED GASKET, CLEANED FILTER HOUSING AND TESTED
LT3-263-73B 2/3 CORE HEIGHT LEVEL TRANSMITTER	CORRECTIVE WR 085483	N/A	-----	REPLACED LEVEL TRANSMITTER
APRM CHANNEL 4	CORRECTIVE WR 085664	N/A	-----	TROUBLESHOT APRM AND FOUND NO PROBLEM
LPRM 16-25C	CORRECTIVE WR 085719	N/A	-----	CLEARED WHISKER FROM DETECTOR
ACCUM A-7 02-27	CORRECTIVE WR 085848	N/A	-----	CALIBRATED PRESSURE SWITCH

DRESDEN UNIT 3
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
3-305-126 CR0 H-14	CORRECTIVE MR 084702	N/A			READJUSTED ACTUATOR PLATE AND SECURED FASTENING DEVICE
3-305-126 CR0 E-5	CORRECTIVE MR 084706	N/A			READJUSTED ACTUATOR PLATE AND SECURED FASTENING DEVICE
3-305-126 CR0 F-5	CORRECTIVE MR 084707	N/A			READJUSTED SWITCH ACTUATOR PLATE AND SECURED FASTENING DEVICE
3-152-3401 TR. 31 TO BUS 34 4KV BREAKER	PREVENTIVE MR 084710	N/A			REMOVED SWITCH, CUT LUGS OFF OF SPARE WIRES AND REINSTALLED SWITCH
A03-305-126 CR0 HCU C-3	CORRECTIVE MR 084764	N/A			ADJUSTED STEM AND TORQUED COUPLING
A03-305-126 CR0 HCU H-11 VALVE	CORRECTIVE MR 084765	N/A			ADJUSTED STEM AND TORQUED COUPLING
3-0305-111 ACCUM 14-27 (07)	CORRECTIVE MR 084913	N/A			REPLACED PACKING
LPRM 40-330	CORRECTIVE MR 084997	N/A			TROUBLESHOT LPRM AND FOUND NO PROBLEMS
3-1402-4A	CORRECTIVE MR 085045	N/A			ADJUSTED TORQUE SWITCH
CR0 J-9 34-35	CORRECTIVE MR 085099	N/A			REPACKED VALVE AND CLEANED FILL FITTING

DRESHER UNIT 2/3
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE RESULT	CORRECTIVE ACTION
2/3-3930-500 DIESEL GENERATOR COOLING WATER PUMP DISCHARGE VALVE	CORRECTIVE MR 077556	N/A	-----	TIGHTENED PACKING
U 2/3 D/G SOAKBACK OIL PUMP MOTOR	PREVENTIVE MR 078142	N/A	-----	REPLACED MOTOR PER PROCEDURE
MO-2/3-7507B BREAKER	CORRECTIVE MR 079347	N/A	-----	INCREASED INSTANTANEOUS OVERCURRENT SETTING
2-203-3A SPAKE TARGET ROCK PILOT ASSEMBLY	CORRECTIVE MR 082137	N/A	-----	MACHINED SHOULDER OF SECOND STAGE DISC TO ALLOW PISTON DEEPER PENETRATION, RE-LAPPED SEALS
2/3 MOV 7504A S8GT OUTSIDE AIR SUPPLY DAMPER	CORRECTIVE MR 083442	N/A	-----	BALANCED, SET AND INSTALLED NEW TORQUE SWITCH AND LUGS
ACB 152-4001 2/3 OG OUTPUT BREAKER AT BUS 40	CORRECTIVE MR 083766	N/A	-----	CHECKED AND CLEANED CONTACTS

5.5 Completed Safety Related Modifications (Units 2 and 3)

Unit 2 and Unit 3 safety related modification packages closed during the month of September, 1989 are listed below. Only modifications which have been completely closed are listed; modifications which are authorized for use but not completely closed will be reported based on the date of their final closure. For ease of reference, the changes have been identified by their design change control modification number.

<u>Modification No.</u>	<u>Description</u>
M12-2-87-33A	This modification involved the installation of shock absorbing isolators on Unit 2 Main Steam Line (MSL) Low Pressure Switches 2-261-30B and 2-261-30D. The safety evaluation concluded that neither the function of MSL switches nor the configuration of the safety system holding the switches would be affected.
M12-2-88-3	This modification involved installing High Pressure Coolant Injection (HPCI) and Reactor Water Clean Up (RWCU) pipe supports for small bore tap lines. Additional pipe supports increase the reliability of the associated piping during a postulated seismic event. The supports mitigate fatigue induced failures beyond that evaluated in the FSAR, by significantly reducing pipe vibration stress.

5.6 Temporary System Alterations (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.

The following tables summarize the temporary system alterations performed during September, 1989.

5.6.1 Unit 2

<u>Temporary System Alteration No.</u>	<u>Description</u>	<u>Installation Date</u>	<u>Removal Date</u>
II-66-89	Alteration to lift leads at panel 902-34 during repair to facilitate replacement of junction box 2TB-38.	9-12-89	9-27-89
II-67-89	Alteration to connect a local clean demin water station to the condensate reject line during tie-in of the new make-up demineralizer piping.	9-29-89	9-30-89

5.6.2 Unit 3

<u>Temporary System Alteration No.</u>	<u>Description</u>	<u>Installation Date</u>	<u>Removal Date</u>
III-31-89	Alteration to remove Intermediate Range Monitor (IRM) #16 from Control Room panel 903-36 to replace switch S1.	9-1-89	-
III-32-89	Alteration to disconnect an electric lead from the 3A Reactor Building exhaust fan low flow pressure switch in order to adjust the flow sensor (pitot tube).	9-21-89	9-23-89

5.6.2 Unit 3 (Cont'd)

<u>Temporary System Alteration No.</u>	<u>Description</u>	<u>Installation Date</u>	<u>Removal Date</u>
III-33-89	Alteration to disconnect an electric lead from the 3C Reactor Building exhaust fan low flow pressure switch to adjust the flow sensor (pitot tube).	9-21-89	9-23-89
III-34-89	Installation of a jumper at panel 903-4 for cycling of the shutdown cooling heat exchanger inlet valve for post maintenance testing.	9-21-89	9-21-89
III-35-89	Installation of a jumper at panel 903-4 for cycling of the shutdown cooling heat exchanger inlet valve for post maintenance testing.	9-22-89	9-22-89
III-36-89	Installation of a jumper at panel 903-4 for cycling of the shutdown cooling heat exchanger inlet valve for post maintenance testing.	9-29-89	9-29-89