



Commonwealth Edison  
Dresden Nuclear Power Station  
R.R. #1  
Morris, Illinois 60450  
Telephone 815/942-2920

December 3, 1990

EDE LTR: #90-782

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

Attention: Document Control Desk

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

Gentlemen:

Enclosed is the Dresden Nuclear Power Station Monthly Operating Summary Report for November, 1990. This information is supplied to your office in accordance with the instructions set forth in Regulatory Guide 1.16. Please note that the report contains information which had been previously submitted to your attention on an annual basis in accordance with 10CFR50.59.

Sincerely,

*E. D. Eenigenburg for*

E. D. Eenigenburg  
Station Manager  
Dresden Nuclear Power Station

EDE:DM:jws

Enclosure

cc: U.S. NRC Region III Office  
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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 November, 1990

<u>UNIT</u>	<u>DOCKET</u>	<u>LICENSE</u>
1	050-010	DPR-2
2	050-237	DPR-19
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## 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 was compiled by Donald C. Maxwell of the Dresden Technical Staff, telephone number (815)942-2920 extension 2489.



## 2.0 SUMMARY OF OPERATING EXPERIENCE FOR NOVEMBER, 1990

### 2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

- 11-01-90 to 11-30 90      Unit 2 remained off-line during the month of November for its 12th Refueling Outage. Major work during the month included:
- Refueling of the Reactor.
  - Primary Containment Local Leak Rate Testing.
  - In-Service Inspection (ISI) of various Primary System Piping.
  - Replacement of Control Room Recorders.
  - Weld overlay of recirculation system piping.
  - Normal Refueling Outage related work.

SUMMARY OF OPERATING EXPERIENCE FOR NOVEMBER, 1990

2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

11-01-90 to 11-30-90

Unit 3 entered the month on-line and operating at 803 MWe. The Unit operated the entire month in Economic Generation Control or at loads requested by the System Load Dispatcher, with an availability of 100% and a capacity factor of 94.8%.

### 3.0 OPERATING DATA REPORT

#### 3.1 OPERATING DATA REPORT - UNIT TWO

DOCKET NO. 050-237  
 DATE December 3, 1990  
 COMPLETED BY D. C. Maxwell  
 TELEPHONE 815/942-2920

#### OPERATING STATUS

- |  |   |
|--|---|
| 1. REPORTING PERIOD: <u>NOVEMBER, 1990</u>                 | GROSS HOURS IN REPORTING PERIOD 720   |
| 2. CURRENTLY AUTHORIZED POWER LEVEL (MWth): 2,527          | MAX DEPEND CAPACITY (MWe-Net) 772<br>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

	This Month	Yr-to-Date	Cumulative
5. TIME REACTOR CRITICAL (HOURS)	0.0	5,958.8	136,739.0
6. TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
7. TIME GENERATOR ON-LINE (HOURS)	0.0	5,921.3	130,972.8
8. TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
9. THERMAL ENERGY GENERATED (MWh <sub>t</sub> -GROSS)	0.0	13,486,952	271,604,143
10. ELECTRICAL ENERGY GENERATED (MWe GROSS)	0.0	4,311,428	86,805,777
11. ELECTRICAL ENERGY GENERATED (MWe-NET)	-5,924	4,086,205	82,074,369
12. REACTOR SERVICE FACTOR (%)	0.0	74.3	75.9
13. REACTOR AVAILABILITY FACTOR (%)	0.0	74.3	75.9
14. SERVICE FACTOR (%)	0.0	73.9	72.7
15. AVAILABILITY FACTOR (%)	0.0	73.9	72.7
16. CAPACITY FACTOR (USING MDC) (%)	0.0	66.0	59.0
17. CAPACITY FACTOR (USING DESIGN MWe) (%)	0.0	64.2	57.4
18. FORCED OUTAGE FACTOR (%)	0.0	6.9	10.7

19. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS  
 (TYPE, DATE AND DURATION OF EACH)

REFUELING OUTAGE CURRENTLY SCHEDULED through 12-23-90

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START  
 12-23-90

### 3.0 OPERATING DATA REPORT

#### 3.2 OPERATING DATA REPORT - UNIT THREE

DOCKET NO. 050-249  
 DATE December, 1990  
 COMPLETED BY D.C. Maxwell  
 TELEPHONE 815/942-2920

#### OPERATING STATUS

- |  |                                    |     |
|--|------------------------------------|-----|
| 1. REPORTING PERIOD: <u>NOVEMBER, 1990</u>                 | GROSS HOURS IN REPORTING PERIOD    | 720 |
| 2. CURRENTLY AUTHORIZED POWER LEVEL (MWth): 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 RESTRICTIONS (IF ANY): N/A                  |                                    |     |

#### REPORTING PERIOD DATA

	This Month	Yr-to-Date	Cumulative
5. TIME REACTOR CRITICAL (HOURS)	720.0	6,746.8	126,981.1
6. TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
7. TIME GENERATOR ON-LINE (HOURS)	720.0	6,591.3	118,953.5
8. TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
9. THERMAL ENERGY GENERATED (MWh <sub>t</sub> -GROSS)	1,753,415	15,525,033	247,152,453
10. ELECTRICAL ENERGY GENERATED (MWh <sub>e</sub> GROSS)	567,165	5,014,889	79,727,134
11. ELECTRICAL ENERGY GENERATED (MWh <sub>e</sub> -NET)	544,782	4,779,943	75,635,313
12. REACTOR SERVICE FACTOR (%)	100.0	84.2	74.8
13. REACTOR AVAILABILITY FACTOR (%)	100.0	84.2	74.8
14. SERVICE FACTOR (%)	100.0	82.2	70.1
15. AVAILABILITY FACTOR (%)	100.0	82.2	70.1
16. CAPACITY FACTOR (USING MDC) (%)	97.9	77.1	57.6
17. CAPACITY FACTOR (USING DESIGN MWe) (%)	95.3	75.1	56.1
18. FORCED OUTAGE FACTOR (%)	0.0	4.4	11.7

19. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS  
 (TYPE, DATE AND DURATION OF EACH)

Refuel Outage (D3R12) scheduled to begin March 31, 1991.

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 December 3, 1990

COMPLETED BY D.C. Maxwell

TELEPHONE 815/942-2920

MONTH NOVEMBER, 1990

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	0
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 III

DATE December 3, 1990

COMPLETED BY D.C. Maxwell

TELEPHONE 815/942-2920

MONTH NOVEMBER, 1990

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	759
2	764
3	756
4	773
5	781
6	769
7	786
8	778
9	756
10	750
11	781
12	786
13	786
14	773
15	765
16	761

17	764
18	749
19	751
20	754
21	756
22	638
23	705
24	749
25	739
26	763
27	757
28	765
29	764
30	749
31	



3.5 UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-237  
 UNIT NAME DRESDEN UNIT II  
 DATE December 3, 1990  
 COMPLETED BY D. C. Maxwell  
 TELEPHONE (815)942-2920

REPORT MONTH NOVEMBER, 1990

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
4	09-23-90	S	720.0	C	1	N/A	N/A	N/A	Off-line through 12-23-90 for 12th 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 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

REPORT MONTH NOVEMBER, 1990

DOCKET NO. 050-249  
 UNIT NAME DRESDEN UNIT III  
 DATE December 3, 1990  
 COMPLETED BY D. C. Maxwell  
 TELEPHONE (815)942-2920

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
	NONE								

2  
 F: Forced  
 S: Scheduled  
 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 COMMONWEALTH EDISON COMPANY - DRESDEN NUCLEAR POWER STATION  
 MAXIMUM DAILY ELECTRICAL LOAD FORM  
 FOR THE MONTH OF NOVEMBER, 1990

DAY	HOUR ENDING	MAXIMUM DAILY LOAD KW
1	1900	796,400
2	0100	796,100
3	1000	795,900
4	1600	809,600
5	1500	811,700
6	1400	812,400
7	1900	814,000
8	0600	813,200
9	1700	801,600
10	2100	814,400
11	1600	814,800
12	1000	814,700
13	2000	814,900
14	0400	813,700
15	2000	800,600
16	1000	800,000
17	1500	814,800
18	0700	801,000
19	1900	802,300
20	1100	800,100
21	1200	799,300
22	1000	799,900
23	1800	801,600
24	0600	799,100
25	1100	799,300
26	1400	802,300
27	2300	800,800
28	1000	801,800
29	0500	802,300
30	0810	799,800

## 4.0 UNIQUE REPORTING REQUIREMENTS

### 4.1 MAIN STEAM RELIEF VALVE OPERATIONS

Relief valve operations during the reporting period, November, 1990, 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.

- 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

No ODCM changes were reported for the month of November, 1990. However, On-Site Review No. 90-21 was conducted, which proposed revision of the ODCM to contain the Radiological Effluent Technical Specifications (RETS) in accordance with NRC Generic Letter 89-01. The Off-Site Review staff had not approved this change as of the date of this report. Further, minor changes to the ODCM are required for approval. None of the changes will reduce the accuracy or reliability of dose calculations or setpoint determinations. The complete revision will be reported in the December report.

### 4.3 MAJOR CHANGES TO THE RADIOACTIVE WASTE TREATMENT SYSTEMS during November 1990

The Radioactive Waste (RW) System Upgrade continues. During November, 1990, the Unit 3 Fuel Pool Filter (FPF) Outlet pipe, line 3-1909-6" was replaced. The Unit 2 FPF Inlet piping is scheduled to be replaced during December, 1990.

Miscellaneous high dose piping was removed in the south RW pipe tunnel for ALARA considerations. Abandoned Waste Concentrator piping was removed and capped. Installation of the two new Maximum Recycle Sample Sinks was started along with the FPF piping.

In 1991, work will begin on installation of Equipment Drain and Floor Drain Tank Room Inlet Headers. This will be accomplished to facilitate the remaining pipe replacements in the RW tank room.

#### 4.4 FAILED FUEL ELEMENT INDICATIONS

##### 4.4.1 Unit 2

Dresden Unit 2 fuel performance during November, 1990 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 excellent fuel performance.

##### 4.4.2 Unit 3

Dresden Unit 3 fuel performance during November, 1990 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 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 November, 1990.

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 the November, 1990 reporting period.



TABLE 5.2.1

CHANGES TO PROCEDURES WHICH ARE DESCRIBED IN THE FSAR (UNITS 2 AND 3) FOR NOVEMBER, 1990

PROCEDURE TYPE	PROCEDURE NO.	PROCEDURE TITLE/DESCRIPTION	SUMMARY OF CHANGES
Dresden Instrument Surveillance Procedures	DIS 1300-04	Isolation Condenser Vent Radiation Monitor Calibration and Operational Checks	3
	DIS 1500-05	Low Pressure Coolant Injection Containment Cooling System Logic Test Procedures	1
Dresden Maintenance Procedures	DMP 0200-30	Reactor Main Steam Safety Valve Repair and Post Maintenance Testing	1,2
Dresden Operating Surveillance Procedures	DOS 6600-01	Diesel Generator Surveillance Tests	1,2
	DOS 6600-05	Bus Undervoltage and ECCS Integrated Functional Test for Unit 2 Diesel Generator	1,2
	DOS 6600-06	Bus Undervoltage and ECCS Integrated Functional Test for Unit 2/3 Diesel Generator (Unit 2 Test Only)	1,2

- 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.

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 November, 1990 are listed below:

SP-90-158                      Modification Test for M12-2-89-014

This procedure provides instructions to test the accuracy of the computer read-out for each new isolated computer input, and the new thermocouple inputs to the computer. The new computer points installed by MOD M12-2-89-014 are as follows: Isolation Condenser Level, LPCI Ht. Exch A, CCSW Inlet A, LPCI Ht. Exch B, CCSW Inlet B, Torus Water Level A,- B, Containment Pressure Division 1, Drywell Wide Range Pressure.

SP-90-159                      Control Rod Drive (CRD) System Air Intrusion Test

This procedure was performed in order to determine if air is entering the CRD System on the suction side of the CRD pump, the discharge side of the CRD pump or through the pump itself. Air intrusion into the CRD System has rendered the CRD Friction Test Station inoperable.

SP-90-11-160                      Control of temporary opening in the High Pressure Coolant Injection (HPCI) Room Ceiling.

The purpose of this Procedure is to outline a method to provide control over the removal of access hatch plugs in the HPCI room ceiling.

SP-90-11-161                      Modification test for M12-2-89-014

This procedure provides instructions to test the accuracy of the new computer point readings for Radwaste Collector Tank, Radwaste Surge Tank, and Radwaste Floor Drain Collector Tank.

SP-90-11-162                      Unit 2 Condensate Transfer Pump Safe Shutdown Local Start

The purpose of this procedure is to ensure the Condensate Transfer Pump will start from the Local Start Stations during a safe shutdown event.

SP-90-11-164

Modification Test for M12-2-89-017A.

The purpose of this procedure is to provide instructions to test the Reactor Recirculation Pump Vibration Monitoring System as installed per Modification M12-2-89-017A.

#### 5.4 Safety Related Maintenance (Unit 2 and 3)

Safety related maintenance activities for November, 1990 are summarized in the attached tables.

#### 5.5 Completed Safety Related Modifications (Units 2 and 3)

Only modifications which have been completely closed during November, 1990 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.

No Safety Related Modifications were completed during the November, 1990 reporting period.

ORESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	MATURE OF MAINTENANCE	LEAK OR OUTAGE NUMBER	MAINTENANCE CAUSE	MAINTENANCE RESULT	CORRECTIVE ACTION
M-3214-10 SUPPORT W-3214-8	PREVENTIVE WR D76582	N/A			UPGRADED SUPPORT
2-40-1501-208 92 1501-208	CORRECTIVE WR D78744	N/A			INSTALLED NEW STEM NUT
2-3-8723-15010 BUS 23 FEED TO SWITCHGEAR 25 BREAKER	PREVENTIVE WR D80872	N/A			REPLACED BROKEN CONTACT ASSEMBLY
2KB-53 JB 2KB-53	PREVENTIVE WR D84473	N/A			REPLACED GE TERMINAL BLOCKS AND LUGS WITH EQ QUALIFIED MARATHON TERMINAL BLOCKS, REPLACED JB COVER GASKET
2KB-64 J.B. 2KB-64	PREVENTIVE WR D34474	N/A			REPLACED G.E. TERMINAL BLOCKS WITH EQ QUALIFIED MARATHON TERMINAL BLOCKS
A03-1601-20A INST. AIR SUPPLY VALVE	CORRECTIVE WR D34947	N/A			REPLACED LEAKING INST AIR SUPPLY VALVE
2-1001-1B MOV 2-1001-1B	PREVENTIVE WR D85304	N/A			PERFORMED EQ INSPECTION OF LIMITTORQUE, CHANGED OUT O-RINGS AND GASKETS, RESET LIMITS AND VERIFIED
2-5700-30B COOLING SERVICE CONTAINMENT WATER PUMP FAN #2	CORRECTIVE WR D86967	N/A			REPLACED CIRCUIT BREAKER TEC 36007 PER WORK INSTRUCTIONS, CHECK FOR PROPER ROTATION
2-5700-30C CONTAINMENT COOLING SERVICE WATER PUMP FAN #2	CORRECTIVE WR D86968	N/A			REPLACED BREAKER TEC 36007 PER WORK INSTRUCTIONS, CHECKED FOR PROPER ROTATION
2-5700-30E COOLING SERVICE CONTAINMENT WATER PUMP FAN #1	CORRECTIVE WR D86969	N/A			REPLACED BREAKER PER WORK INSTRUCTIONS CHECKED FOR ROTATION



GREENSBORO UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	FAILURE CAUSE	MAINTENANCE RESULT	CORRECTIVE ACTION
2-5700-30A CONTAINMENT COOLING SERVICE WATER PUMP FAN #2	CORRECTIVE WR D86970	N/A			REPLACED BREAKER WITH NEW, CHECKED FAN FOR ROTATION
2-3360-2 125V BATTERY CHARGER	CORRECTIVE WR D86972	N/A			CHANGED BREAKER USING LIFTED LEAD DATA SHEET, CHECKED AMPS PER PH
2-1501-5B 60V 2-1501-5B	PREVENTIVE WR D87254	N/A			PERFORMED DIAGNOSTIC TEST ON MOV 2-1501-5B USING VOTES TEST SYSTEM
2-1501-5D MOV 2-1501-5D	PREVENTIVE WR D87255	N/A			PERFORMED DIAGNOSTIC TEST ON MOV 2-1501-5D USING VOTES TEST SYSTEM
U2 REACTOR MODE SWITCH	PREVENTIVE WR D87720	N/A			INSPECTED REACTOR MODE SWITCH FOR LOOSENESS IN LOCK HANDLE, DID NOT FIND ANY
2-1101-3A 2-1101-3A VALVE PACKING	CORRECTIVE WR D88246	N/A			CLEANED OFF BORON BUILDUP UP AND REPLACED PACKING, LUBED STEM
152-302-82M S.D.V. LEVEL SW. (ALARM)	CORRECTIVE WR D88426	N/A			REPLACED RELAY BOARD AND TESTED PER D15500-5
0-2 MSL RAD MONITORS	PREVENTIVE WR D88537	N/A			CHANGE FUSE, CALIBRATED PER DIS 1700-1
4KV BREAKER BUS 24-1723-1	CORRECTIVE WR D90081	N/A			CLEANED AND LUBRICATED RACKING SCREW COVER, REPLACED NUT AND LOCK WASHER, RECALIBRATED CHARGING SWITCH COVER
2-3930-500 DIESEL GENERATOR COOL WATER PUMP DISCHARGE	PREVENTIVE WR D90378	N/A			DISASSEMBLED LEAKING VALVE, FOUND DIRT IN VALVE INTERNALS, CLEANED, MADE NEW TUNNET GASKET, REASSEMBLED LEAK TESTED



DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LEAK OR OUTAGE NUMBER	MAINFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2-6601 D2 DIESEL GENERATOR	PREVENTIVE MR D90429	N/A			PERFORMED QUARTERLY, SEMI ANNUAL, ANNUAL AND 2 YEAR INSPECTION ON G2 DIESEL GENERATOR
2-3931-525 1/8 HX SW OUTLET 1-WAY VALVE	PREVENTIVE MR D90498	N/A			DISASSEMBLED VALVE, FIN NEW STUD TO NEW PLUG, REINSTALLED, RE-ASSEMBLED
2-3930-525 D/B HX SW 3-WAY INLET VALVE	PREVENTIVE MR D90499	N/A			DISASSEMBLED VALVE, FIN NEW STUD TO NEW PLUG, REINSTALLED, REASSEMBLED
2-1501-178 2B LPCI LOOP RELIEF VALVE	PREVENTIVE MR D90777	N/A			PERFORMED SURVEILLANCE ON VALVE
2-1402-28E 2B CORE SPRAY RELIEF VALVE	PREVENTIVE MR D90810	N/A			PERFORMED SURVEILLANCE ON 2 CORE SPRAY RELIEF VALVE PER DMS-0040-01
2-1402-28A 2A CORE SPRAY RELIEF VALVE	PREVENTIVE MR D90811	N/A			PERFORMED SURVEILLANCE PER DMS 0040-01 INSTALLED RELIEF VALVE WITH NEW GASKETS
2-1001-2C D-2 MD-1001-2C	PREVENTIVE MR D90818	N/A			INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE
2-6601 D-2 DIESEL GENERATOR	PREVENTIVE MR D90839	N/A			PERFORMED 5 YEAR SURVEIL'ANCE AND INSPECTIONS INCLUDING REMOVAL OF 10 PUMPER ASSEMBLIES AND ALL 20 HEAD ASSEMBLIES
2-1402-24A D-2 MOV-1402-24A	PREVENTIVE MR D90879	N/A			INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE
2-1601-33F D-2 VACUUM BREAKER #33F	PREVENTIVE MR D90905	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-33F PER DMS 1600-03

OREGON UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	FUNCTION RESULT	CORRECTIVE ACTION
2-1601-33E D-2 VACUUM BREAKER #33E	PREVENTIVE MR D90906	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-33E PER DMS 1600-03
2-1601-33D D-2 VACUUM BREAKER #33D	PREVENTIVE MR D90907	N/A			PERFORMED TORQUE TEST ON VACUUM BREAKER
2-1601-33C D-2 VACUUM BREAKER #33C	PREVENTIVE MR D90908	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-33C PER DMS 1600-03
2-1601-33B D-2 VACUUM BREAKER #33B	PREVENTIVE MR D90909	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-33B PER DMS 1600-03
2-1601-33A D-2 VACUUM BREAKER #33A	PREVENTIVE MR D90910	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-33A PER DMS 1600-03
2-1601-32F D-2 VACUUM BREAKER #32F	PREVENTIVE MR D90914	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-32F PER DMS 1600-03
2-1601-32E D-2 VACUUM BREAKER #32E	PREVENTIVE MR D90915	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-32E PER DMS 1600-03
2-1601-32D D-2 VACUUM BREAKER #32D	PREVENTIVE MR D90916	N/A			PERFORMED TORQUE TEST ON D/W VACUUM BREAKER 1601-32D PER DMS 1600-03
2-1601-32C D-2 VACUUM BREAKER #32C	PREVENTIVE MR D90917	N/A			PERFORMED TORQUE TEST • INSTALLING NEW O-RINGS
2-1601-32B D-2 VACUUM BREAKER #32B	PREVENTIVE MR D90918	N/A			PERFORMED TORQUE TEST • INSTALLED NEW O-RINGS

ORISSON LIBERTY 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	FAILURE CAUSE	RESULT	CORRECTIVE ACTION
2-1601-32A D-2 VACUUM BREAKER #32A	PREVENTIVE MR 090919	N/A			PERFORMED TORQUE TEST ON VACUUM BREAKER, INSTALLED NEW O-RINGS
2-1601-31B D-2 VACUUM BREAKER #31B	PREVENTIVE MR 090920	N/A			PERFORMED TORQUE TEST, INSTALLED NEW O-RINGS
2-1105-B 2B SELC RELIEF VALVE	PREVENTIVE MR 090922	N/A			REMOVED AND TESTED VALVE, RESET LIFT PRESSURE AND REINSTALLED, WAS FOUND OUT OF TOLERANCE ON AS-FOUND DEVIATION REPORT WAS INITIATED.
2-1105-A 2A SELC RELIEF VALVE	PREVENTIVE MR 090923	N/A			REMOVED VALVE, TESTED, RESET, REINSTALLED RELIEF VALVE
2-203-3A 2A TARGET ROCK RELIEF	PREVENTIVE MR 090929	N/A			REPLACED PTLDT VALVE ON 2A TARGET RELIEF VALVE
2-1402-24A MOV 2-1402-24A	PREVENTIVE MR 091349	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1402-24A
2-1402-24B MOV 2-1402-24B	PREVENTIVE MR 091350	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1402-24B
2-1402-25A MOV 2-1402-25A	PREVENTIVE MR 091351	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1402-25A
2-1402-25B MOV 2-1402-25B	PREVENTIVE MR 091352	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1402-25B
2-1501-11B MOV 2-1501-11B	PREVENTIVE MR 091360	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1501-11B

ORESEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	FAILURE CAUSE	MAINTENANCE RESULT	CORRECTIVE ACTION
2-1501-18B MOV 2-1051-18B	PREVENTIVE WR D91362	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1501-18B
2-1501-19B MOV 2-1501-19B	PREVENTIVE WR D91364	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV2-1501-19B
2-1501-27B MOV 2-1501-27B	PREVENTIVE WR D91370	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1501-27B
2-1501-32B MOV 2-1501-32B	PREVENTIVE WR D91373	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV2-1501-32B
2-202-5A MOV 2-202-5A	PREVENTIVE WR D91379	N/A			INSTALLED VOTES SENSOR ON MOV2-202-5A
2-202-5B MOV 2-202-5B	PREVENTIVE WR D91380	N/A			INSTALLED VOTES SENSOR ON MOV 2-202-5B
2-220-1 MOV 2-220-1	PREVENTIVE WR D91386	N/A			INSTALLED VOTES SENSOR ON MOV 2-220-1
2-1001-1A MOV 2-1001-1A	PREVENTIVE WR D91388	N/A			INSTALLED VOTES SENSOR ON MOV2-1001-1A
2-1001-1B MOV 2-1001-1B	PREVENTIVE WR D91389	N/A			INSTALLED VOTES SENSOR ON MOV 1001-1B PER DEP 0040-03
2-1001-2A MOV 2-1001-2A	PREVENTIVE WR D91390	N/A			INSTALLED VOTES SENSOR ON MOV 2-1001-2A

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	MAINTENANCE	LER OR OUTAGE NUMBER	FAILURE CAUSE	RESULT	CORRECTIVE ACTION
2-1001-2B MOV 2-1001-2B	PREVENTIVE MR 091391	N/A			INSTALLED VOTES SENSOR ON MOV 2-1001-2B
2-1001-2C MOV 2-1001-2C	PREVENTIVE MR 091392	N/A			INSTALLED VOTES SENSOR ON MOV 2-1001-2C
2-1402-24A MOV 2-1402-24A	PREVENTIVE MR 091397	N/A			INSTALLED VOTES SENSOR ON MOV 2-1402-24A
2-1402-25A MOV 2-1402-25A	PREVENTIVE MR 091399	N/A			INSTALLED VOTES SENSOR ON MOV 2-1402-25A
2-261-30B SENSING LINE B MSL LOW PRESSURE SWITCH	CORRECTIVE MR 091477	N/A			REPLACED UNIT/STRUT LINE CLAMP
DIESEL GENERATOR 2	PREVENTIVE MR 091664	N/A			PERFORMED PERIODIC RELAY CALIBRATION ON DIESEL GENERATOR #2
BUS 24-1	PREVENTIVE MR 091670	N/A			PERFORMED PERIODIC RELAY CALIBRATION ON 4KV BUS 24-1
2-220-5C D-2 220-5C VALVE	PREVENTIVE MR 091838	N/A			REPACKED VALVE
2A-1401 CORE SPRAY PUMP 2A	PREVENTIVE MR 091910	N/A			PROVIDED REG'D SUPPORT TO FACILITATE SMAD BALANCING OF PUMP.
2-660-MISC D/G AIR BOX DRAIN VALVE	PREVENTIVE MR 092234	N/A			REMOVED LEAKING AIR BOX DRAIN VALVE + CLEANED, REINSTALLED AND LEAK TESTED

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LEAK OR OUTAGE NUMBER	HALF-FUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2-6600-MISC O/G LUBE OIL SAMPLE VALVE	CORRECTIVE WR D92235	N/A	-----	-----	REPLACED LEAKING VALVE WITH NEW ONE
2C-1501-44 " C CCSW PUMP	PREVENTIVE WR D92386	N/A	-----	-----	ADJUSTED PACKING
2-220-54 REACTOR VESSEL FLANGE SEAL LEAK OFF FLOW CHECK VALVE	PREVENTIVE WR D92408	N/A	-----	-----	INSPECTED, BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-220-54
2-262-25A RECIRC PUMP SEAL INST FLOW CHECK VALVE	PREVENTIVE WR D92409	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-262-25A PER DMP 263-1 REV. 0
2-262-25B RECIRC. PUMP SEAL INST FLOW CHECK VALVE	PREVENTIVE WR D92410	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-262-25B PER DMP 263-1 REV. 0
2-262-26A RECIRC PUMP SEAL INST FLOW CHECK VALVE	PREVENTIVE WR D92411	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-262-26A PER DMP 263-1 REV. 0
2-262-26B RECIRC PUMP SEAL INST FLOW CHECK VALVE	PREVENTIVE WR D92412	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-262-26B PER DMP 263-1 REV. 0
2-263-2-11 REACTOR LEVEL INST. FLOW CHECK VALVE	PREVENTIVE WR D92413	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-263-2-11 PER DMP 263-1 REVISION 0
2-263-2-13A REACTOR LEVEL INST. FLOW CHECK VALVE	PREVENTIVE WR D92414	N/A	-----	-----	INSPECTED, BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-263-2-13A PER DMP 263-1 REV. 0
2-263-2-15A REACTOR LEVEL INST. FLOW CHECK VALVE	PREVENTIVE WR D92415	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-263-2-15A



DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2-263-2-17A REACTOR LEVEL INST FLOW CHECK VALVE	PREVENTIVE WR 092416	N/A	-----	-----	INSPECTED, BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-263-2-17A PER DWP 263-1 REV. 0
2-263-2-19A REACTOR LEVEL INST. FLOW CHECK VALVE	PREVENTIVE WR 092417	N/A	-----	-----	INSPECTED, BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-263-2-19A PER DWP 263-1 REV. 0
2-2632-13B REACTOR LEVEL INST. FLOW CHECK VALVE	PREVENTIVE WR 092418	N/A	-----	-----	BENCH TESTED FLOW CHECK VALVE PER DWP-263-1 REV. 0
2-263-2-15B REACTOR LEVEL INST FLOW CHECK VALVE	PREVENTIVE WR 092419	N/A	-----	-----	BENCH TESTED AND CALIBRATED FLOW CHECK VALVE 2-263-2-15B
2-263-2-19B REACTOR LEVEL INST. FLOW CHECK VALVE	PREVENTIVE WR 092421	N/A	-----	-----	BENCH TESTED FLOW CHECK VALVE PER DWP 263-1 REV 0
2-2399-76A HPCI TURBINE EXHAUST VAC BREAKER CHECK VALVE	PREVENTIVE WR 092534	N/A	-----	-----	OPENED VALVE HAD TS AND QC CHECK INTERNALS, CLEANED AND ASSEMBLED WITH NEW GASKET
2-2399-76B HPCI TURBINE EXHAUST VAC BREAKER CHECK VALVE	PREVENTIVE WR 092535	N/A	-----	-----	OPENED VALVE, INSPECTED WITH QC AND TS, REINSTALLED WITH NEW GASKET
2-2399-77A HPCI TURBINE EXHAUST VAC BREAKER CHECK VALVE	PREVENTIVE WR 092536	N/A	-----	-----	OPENED VALVE, HAD QC AND TS CHECK INTERNALS, CLEANED AND INSTALLED NEW GASKET
2-2399-77B HPCI TURBINE EXHAUST VAC BREAKER CHECK VALVE	PREVENTIVE WR 092537	N/A	-----	-----	OPENED VALVE, INSPECTED WITH QC AND TS, REASSEMBLED WITH NEW GASKET
2-1402-13A CORE SPRAY PUMP MIN FLOW CHECK VALVE	PREVENTIVE WR 092547	N/A	-----	-----	REPLACED VALVE BONNET WITH NEW

ORDER UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	HAZARD CAUSE	HAZARD RESULT	CORRECTIVE ACTION
2-1501-67A LPLY KEEP FILL CHECK VALVE	PREVENTIVE WR D92549	N/A			DISASSEMBLED/REASSEMBLED CHECK VALVES FOR INTERNAL INSPECTION, FOUND TO BE IN GOOD CONDITION
2/3 6723-2317-012 4KV CIRCUIT BREAKER SER NO. 0204A 2317-012	PREVENTIVE WR D92631	N/A			PERFORMED INSPECTION AND MAINTENANCE TO 4KV CIRCUIT BREAKER PER PACKAGE INSTRUCTIONS
2/3-6723 4KV CIRCUIT BREAKER SERIAL 30204A 2317-010	PREVENTIVE WR D92632	N/A			CLEANED AND LUBRICATED BREAKER PER DES-6700-03, REPLACED AUX SWITCH
2/3-6723 4KV CIRCUIT BREAKER SER NO. 0204A 2317-007	PREVENTIVE WR D92634	N/A			PERFORMED INSPECTION AND MAINTENANCE ON 4KV CIRCUIT BREAKER PER DIS 6700-03 REV. 0
2/3-6723 4KV CIRCUIT BREAKER SERIAL #0204A 2317-006	PREVENTIVE WR D92635	N/A			PERFORMED DES 6700-03, REPLACED AUXILIARY SWITCH, CLEANED AND LUBRICATED BREAKER
2/3-6723 4KV CIRCUIT BREAKER SER. NO. 0204A 2316-008	PREVENTIVE WR D92641	N/A			REPLACED ONE SET OF SECONDARY CONTACTS, AN SRM SWITCH ON BREAKER WHILE PERFORMING BREAKER MAINTENANCE AND OVERHAUL
2/3-6723-15007 4KV CIRCUIT BREAKER SER # 0204A 2315-007	PREVENTIVE WR D92649	N/A			PERFORMED INSPECTION AND MAINTENANCE ON 4KV CIRCUIT BREAKER
2-590-108/2-590-104 SCRAM CONTACTORS 590-108/590-109	PREVENTIVE WR D92669	N/A			INSPECTED, CLEANED, ADJUSTED AS NECESSARY ON SCRAM CONTACTORS ON A & B CHANNEL
2-29-4 480V MCC BREAKER 1501-11B	PREVENTIVE WR D92682	N/A			PERFORMED EQ INSPECTION OF 480V MCC BREAKER FOR 1501-11B
2-302-196 BACK UP SCRAM SB 302-19B	PREVENTIVE WR D92870	N/A			INSTALLED NEW SOLENOID FOR OMF 940-8 INSTRUCTIONS

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
2-302-19A BACKUP SCRAM SOL 302-19A	PREVENTIVE WR D92871	N/A	---	---	INSTALLED NEW SOLENOID PER DMP 040-8 INSTRUCTIONS
2-302-157B SCRAM DISCHARGE VOLUME RAIN 302-157B	PREVENTIVE WR D92872	N/A	---	---	INSTALLED NEW BENCH TESTED SOLENOID
2-302-157A SCRAM DISCHARGE VOLUME DRN 302-157A	PREVENTIVE WR D92873	N/A	---	---	INSTALLED NEW BENCH TESTED SOLENOID
ROD MOVEMENT CONTROL SWITCH	PREVENTIVE WR D92875	N/A	---	---	REPLACED SWITCH
CRD MOVEMENT TIMER	PREVENTIVE WR D92876	N/A	---	---	REPLACED CRD TIMER
2-0300-MISC CONTROL BLADES	PREVENTIVE WP D92887	N/A	---	---	INSTALLED 10 NEW BLADES PER RWTC AND DEF 800-15
2-252-294C BUS 29 FEED TO MCC 29-1 BREAKER	PREVENTIVE WR D92392	N/A	---	---	PERFORMED INSPECTION AND MAINTENANCE ON BUS 29 FEED TO MCC 29-1 480 VOLT BREAKER
2-302-20B SCRAM DUMP DISCHARGE VENT AND VOLUME DRAIN SOLENOIDS 302-20B	PREVENTIVE WR D92971	N/A	---	---	INSTALLED NEW SOLENOID
2-302-20A SCRAM DUMP DISCHARGE VENT AND VOLUME DRAIN SOLENOIDS 302-20A	PREVENTIVE WR D92972	N/A	---	---	INSTALLED NEW SOLENOID
2-29-4C4 480V MCC BREAKER FEED TO 1501-13B	PREVENTIVE WR D93073	N/A	---	---	PERFORMED INSPECTION AND MAINTENANCE ON 480V MCC BREAKER FEED TO 1501-13B

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2-29-4 480V MCC BREAKER FEED TO 1501-19B	PREVENTIVE WR 093074	N/A	-----	-----	PERFORMED INSPECTION AND MAINTENANCE OF 480V MCC BREAKER FEED TO 1501-19B
2-29-4 480V MCC BREAKER FEED TO 1501-18B	PREVENTIVE WR 093075	N/A	-----	-----	PERFORMED INSPECTION AND MAINTENANCE ON 480V MCC BREAKER FEED TO 1501-18B
2-700-32-17A LPRM 32-17A (LPRM 1)	CORRECTIVE WR 093104	N/A	-----	-----	PERFORMED CALIBRATION PROCEDURE OK
2-700-48-33A LPRM 48-33A (LPRM 1)	CORRECTIVE WR 093105	N/A	-----	-----	PERFORMED CALIBRATION PROCEDURE WAS OK
2-1402-4B MOV 2-1402-4B	PREVENTIVE WR 093127	N/A	-----	-----	AS FOUND, FOUND BEARINGS BAD, REPLACED ALL BEARINGS, DRIVE SLEEVE, TOP HOUSING COVER, SPRING PACK, INSTALLED GREASE RELIEF KIT
2-1402-38A MOV 2-1402-38A	PREVENTIVE WR 093148	N/A	-----	-----	INSTALLED NEW STLE TORQUE SWITCH
2-1402-38B MOV 2-1402-38B	PREVENTIVE WR 093149	N/A	-----	-----	REMOVED FIBER WASHERS FROM THE TORQUE SWITCH, REBALANCED PER DEP 0040-09 REINSTALLED AND TESTED
2-1501-13B MOV 2-1501-13B	PREVENTIVE WR 093151	N/A	-----	-----	INSPECTED TORQUE SWITCH FOR PART 21 ON FIBER WASHERS AND FOUND NO FIBER WASHERS
2-67-2330 2A 'CORE' SPRAY 4KV CUBICLE	PREVENTIVE WR 093208	N/A	-----	-----	PERFORMED INSPECTION AND MAINTENANCE ON BUS 23-1 ON 2 'A' CORE SPRAY 4KV CUBICLE, REPLACED AUX AND POSITION SWITCH
2-6723-29 BUS 23-1 MAIN FEED FROM BUS 23 4KV CUBICLE	PREVENTIVE WR 093209	N/A	-----	-----	PERFORMED INSPECTION AND MAINTENANCE ON BUS 23-1 MAIN FEED 4KV CUBICLE

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MAJORITY CAUSE	RESULT	CORRECTIVE ACTION
2-6723-27 BUS 23-1 FEED TO SWITCHGEAR 28 4KV CUBICLE	PREVENTIVE WR 093210	N/A	-----	-----	PERFORMED INSPECTION AND MAINTENANCE ON BUS 23-1 FEED TO SWGR 28 4KV CUBICLE CLEANED AND REPLACED SWITCHES
2-6723-22 2A RECCM PUMP 4KV CUBICLE	PREVENTIVE WR 093214	N/A	-----	-----	REPLACED AUX SWITH, POSITION SWITCH, AND AUX SWITCH LINKAGE
2-B-1503 2B LPCI HEAT EXCHANGER	PREVENTIVE WR 093389	N/A	-----	-----	REMOVED HEADS TO CLEAN TUBES, 5 TUBES WERE FOUND BAD, PLUGGED AND DID HYDRO, REINSTALLED HEADS WITH NEW GASRETS
2-6699-118 D/G FUEL OIL PMP'S INLET STRAINER	PREVENTIVE WR 093593	N/A	-----	-----	DISASSEMBLED LEAKING FUEL OIL STRAINER, CLEANED AND TIGHTENED, REASSEMBLED, LEAK TESTED
U2 D/G LUDE OIL FILTER TANK DRN PLUG	CORRECTIVE WR 093666	N/A	-----	-----	REINSTALLED PIPE PLUG USING AN APPROVED THREAD SEALANT AND TIGHTENED INTO THE HOUSING
2-1601-32B TORUS TO DRYWELL VACUUM BREAKER 2-1601-32B	PREVENTIVE WR 093912	N/A	-----	-----	INSPECTED INDICATING LIGHT CIRCUITRY, COULD FIND NO PROBLEMS TIGHTENED ALL ELECTRICAL CONNECTIONS ON LIGHT AND RE'AY
2-900 902-18 PNL TERM CC FUSE 601-707	CORRECTIVE WR 094174	N/A	-----	-----	REPLACED BROKEN FUSE BLOCKS
2-900 902-17 TERM 'E' FUSE 590-704D	CORRECTIVE WR 094175	N/A	-----	-----	INSTALLED NEW FUSE BLOCK AND RELANED WIRING, PERFORMED PMT, TESTED OK
2-900 902-17 PNL TERM 'C' FUSE 590-709B & 590-713B	CORRECTIVE WR 094176	N/A	-----	-----	REPLACED BROKEN FUSE BLOCKS
2-900 902-15 PANEL TERM. 'E' FUSE 590-702E	CORRECTIVE WR 094179	N/A	-----	-----	INSTALLED NEW FUSE LOCK AND RELANED WIRING, PERFORMED PMT TEST

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LEN OR OUTAGE NUMBER	MALFUNCTION CAUSE	RESULT	CORRECTIVE ACTION
2-900 902-15 PNL TERM 'A' FUSE 595-703A	CORRECTIVE WR 094181	N/A	-----	-----	REPLACED BROKEN FUSE BLOCKS
2-900 902-15 PANEL TERM 'A' FUSE 590-702C	CORRECTIVE WR 094183	N/A	-----	-----	REPLACED THREE BROKEN FUSE BLOCKS
2-900 902-15 PNL TERM 'A' FUSE 595-704A	CORRECTIVE WR 094186	N/A	-----	-----	REPLACED DEFECTIVE FUSE BLOCK AS PER MMP AND TRAVELER REV. 1
SRM/IRM CABLES	PREVENTIVE WR 094449	N/A	-----	-----	TESTED AND HOOKED UP ALL IRM/SRM CABLE, PER WR 095435
RV-2-1402-28B CS PUMP (28) OUTLET RELIEF VALVE (RV-2-1402-28B)	PREVENTIVE WR 094513	N/A	-----	-----	INSTALLED THEN REMOVED GAG FOR TECH STAFF TESTING
2-1501-28B NOV 2-1501-28B	PREVENTIVE WR 094615	N/A	-----	-----	USING THE VOTES EQUIPMENT, DIAGNOSTICALLY TEST NOV 2-1501-28B
N/A ESS BUS U.V. RELAY	PREVENTIVE WR 094719	N/A	-----	-----	PERFORMED PROTECTIVE RELAY CALIBRATIONS AND ALARM CHECK, AND COMPUTER POINT VERIFIED ON UNIT 2 BUS
2-8201 INSTRUMENT BUS U.V. RELAYS	PREVENTIVE WR 094720	N/A	-----	-----	PERFORMED PROTECTIVE RELAY CALIBRATION AND ALARM CHECKED, COMPUTER POINT VERIFIED ON UNIT 2 BUS
2-6600 MISC DIESEL GENERATOR 2	PREVENTIVE WR 094721	N/A	-----	-----	CALIBRATED AND FOUND ALL DIESEL GENERATOR 2 INSTRUMENTS TO BE WITHIN TOLERANCE
2-6641-523 U2 D/G CRANKCASE PRESSURE SWITCH	PREVENTIVE WR 094728	N/A	-----	-----	REPLACED CRANKCASE PRESSURE SWITCH WITH A NEW CALIBRATED SWITCH



DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MAJORITY CAUSE	RESULT	CORRECTIVE ACTION
LIS2-263-72A YARWAY HPCI TURBINE SWITCH	CORRECTIVE WR 094862	N/A	-----	-----	INSTALLED TEMPORARY ALT. JUMPER WITH TEMPORARY ALT. NO. II-21-90 REMOVED SWITCH AND REPLACED WITH FOUR MICRO SWITCHES PERFORMED DIS 500-3 REV. 5
2-263-73A REACTOR VESSEL LEVEL TRANSMITTER	CORRECTIVE WR 094888	N/A	-----	-----	REPLACED DEFECTIVE TRANSMITTER W/NEW, CALIBRATED & INSTALLED NEW O-RINGS, TORQUED COVER TO 200 INCH POUNDS PER WORK INSTRUCTIONS
2-263-73B REACTOR VESSEL LEVEL TRANSMITTER	CORRECTIVE WR 094890	N/A	-----	-----	REPLACED TRANSMITTER AND PERFORMED 1600 PSI LEAK CHECK
2-2301-36 MOV 2301-36 OPERATOR	PREVENTIVE WR 095050	N/A	-----	-----	INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE
2-2301-5 MOV 2301-5 OPERATOR	PREVENTIVE WR 095052	N/A	-----	-----	INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE
2-1301-2 MOV 1301-2 OPERATOR	PREVENTIVE WR 095054	N/A	-----	-----	INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE
2-263-58B REACTOR VESSEL LEVEL TRANSMITTER	PREVENTIVE WR 095112	N/A	-----	-----	INSTALLED A NEW CALIBRATED TRANSMITTER AS PER WORK INSTRUCTIONS, COMPLETED DIS263-1
2-1402-4B MOV 2-1402-4B	PREVENTIVE WR 095182	N/A	-----	-----	USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1402-4B, ADJUSTED TORQUE SWITCH AS REQUIRED
2-1402-4A MOV 2-1402-4A	PREVENTIVE WR 095163	N/A	-----	-----	USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1402-4A AND ADJUSTED TORQUE SWITCH
LIS2-263-59A REACTOR FEED PUMP RUNOUT TURBINE TRIP LEVEL	CORRECTIVE WR 095202	N/A	-----	-----	REPLACED SWITCHES IN YARWAY AND C/L. PER DIS 5600-1 REVISION 5

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LEG OR OUTAGE NUMBER	MAINTENANCE CAUSE	RESULT	CORRECTIVE ACTION
L152-263-598 REACTOR FEED PUMP RUNOUT TURBINE TRIP LEVEL SWITCH	CORRECTIVE WR 095203	N/A			CHANGED OUT MERCURY SWITCHES PER DAP 15-07 AND DIS 5600-1 REV. 5
2-1301-4 MOV 2-1301-4 OPERATOR	PREVENTIVE WR 095225	N/A			INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL ACCEPTABLE
2-1501-208 0-2 1501-208	PREVENTIVE WR 095281	N/A			DISENGAGED AND RE-ENGAGED LIMIT SWITCH FOR MHD, CHECKED AND RESET LIMITS
2-1501-228 MOV 2-1501-22B	PREVENTIVE WR 095304	N/A			REMOVED AND REINSTALLED NEW WORK PER MHP AND TRAVELER
2-6699-104 D/G AIR START CHECK VALVE	PREVENTIVE WR 095331	N/A			INSTALLED NEW CHECK VALVE
HEAD SPRAY REACTOR FLANGE	PREVENTIVE WR 095363	N/A			REMOVED FLANGE, CLEANED SURFACES, REINSTALLED FLANGE, ADDRESSED ALL PAT'S AND FRV'S
2-3932-3" D/G SERVICE WATER SUCTION LINE 2-3932-3"	CORRECTIVE WR 095398	N/A			INSTALLED BOLTING AND RECONNECTED FLANGES, VERIFIED FULL NUT ENGAGEMENT AND TIGHTENED BOLTING
2-261-15A X-AREA TEMP SWITCH BRACKETS	CORRECTIVE WR 095412	N/A			CALIBRATED ANGLE IRON BRACKETS PER DRAWING
B-2 SRM/IRM CONNECTORS	CORRECTIVE WR 095435	N/A			INSTALLED NEW CONNECTORS ON B2 SRM & IRM DETECTORS TO MATCH THE NEWLY INSTALLED CABLES
2-8300 DC 125 VDC BATTERIES	PREVENTIVE WR 095483	N/A			INSTALLED BATTERY CHARGER ON DC 125 VDC BATTERIES TO MAINTAIN CHARGE

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	HALF-FUNCTION CAUSE	RESULT	CORRECTIVE ACTION
4699-314A D2 DIESEL GENERATOR RELIEF VALVE	PREVENTIVE WR D95491	N/A	-----	-----	REBUILT 2A2 DIESEL GENERATOR AIR START RELIEF VALVE
2-5200 U2 BUS 23 BUS POTS	PREVENTIVE WR D95537	N/A	-----	-----	INSPECTED, CLEANED BUS POTS CUBICLES AFTER GROUNDING THE BUS, CLEANED CONTACTS
2-6700 U2 BUS 23-1 BUS POTS	PREVENTIVE WR D95538	N/A	-----	-----	INSPECTED, CLEANED BOTH SETS OF BUS POTS COMPARTMENTS
2-201-1 REACTOR WALL INTERNAL	PREVENTIVE WR D95545	N/A	-----	-----	PREPARED AND SUPPORT REACTOR CAVITY INSPECTION OF INTERNAL WALLS
2-5601 D2 DIESEL GENERATOR	PREVENTIVE WR D95642	N/A	-----	-----	INSTALLED SWITCH PER DIS 6600-4 REVISION 1
2-1402-24A 1402-24A VALVE	CORRECTIVE WR D95697	N/A	-----	-----	REPLACED DAMAGED MOTOR LEAD SPLICES
2-2300 HPCI STOP VALVE JB CONDUIT	PREVENTIVE WR D95721	N/A	-----	-----	TIGHTENED LOOSE CONDUIT FITTINGS, REMOVED THE UNUSED PUSHBUTTON FROM JUNCTION BOX AND INSTALLED PLUG IN HOLES
LIS2-263-72D D2 'D' ECCS LEVEL SWITCH	CORRECTIVE WR D95787	N/A	-----	-----	REPLACED SWITCHES AND PERFORMED DIS 500-3
LIS2-263-72C D2 'C' ECCS LEVEL SWITCH	CORRECTIVE WR D95788	N/A	-----	-----	REPLACED SWITCHES AND PERFORMED DIS 500-3
LIS 2-263-72B D2 B ECCS LEVEL SWITCH	CORRECTIVE WR D95789	N/A	-----	-----	REPLACED SWITCHES AND CALIBRATED PER DIS-500-3

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MAJORITY CAUSE	MAJORITY RESULT	CORRECTIVE ACTION
2-6641-523 D/B CRANK CASE PRESSURE SWITCH BOLTS	CORRECTIVE WR D95799	N/A	-----	-----	MADE UP 4 NEW STUDS, REMOVED AND TAPPED THE 4 HOLES IN THE CRANK CASE THEN REINSTALLED NEW STUDS
263-57B REACTOR VESSEL LEVEL TRANSMITTER	PREVENTIVE WR D95835	N/A	-----	-----	PERFORMED DIS 263-01
2-1402-4B MOV 2-1402-4B	PREVENTIVE WR D95857	N/A	-----	-----	REBUILT VALVE
2-1402-24A MOV 2-1402-24A	CORRECTIVE WR D95890	N/A	-----	-----	REPLACED SPRING PACK AND INSTALLED GREASE RELIEF KIT PER TRAVELER
2-1402-25A MOV 2-1402-25A	CORRECTIVE WR D95968	N/A	-----	-----	REPLACED LIMITORQUE SPRING PACK, INSTALLED GREASE RELIEF KIT, TIGHTENED ALL BOLTING
MO 1402-4A	CORRECTIVE WR D95971	N/A	-----	-----	INSTALLED THE BUTT SPLICES AND RAY CHEM TUBBINS TO THE 5 SPARE WIRES
2/3-672315010 4 KV BREAKER 2315-010	CORRECTIVE WR D95977	N/A	-----	-----	CLEANED AND LUBED TOP FINGER OF RIGHT SIDE AND SECONDARY DISCONNECT (MG1)
1430-130A-1 CORE SPRAY SUBSYSTEM I DRYWELL HI PRESSURE REACTOR LOW LEVEL 10 SECOND DELAY	PREVENTIVE WR D96000	N/A	-----	-----	INSTALLED RELAY AND BRACKET
2-23-1 E4 MO 2-1402-38A BKR	CORRECTIVE WR D96001	N/A	-----	-----	REPLACED CONTROL POWER TRANSFORMER, AUX CONTACTS
750 G-2 SRM #22	PREVENTIVE WR D96189	N/A	-----	-----	REPLACED BAD DETECTOR

DRESDEN UNIT 2  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	FAILURE CAUSE	RESULT	CORRECTIVE ACTION
2-28-1 480V MCC BREAKER FEED TO 1501-18A	PREVENTIVE WR 93088	N/A			PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, REPLACED AUX CONTACTS

DRESDEN UNIT 2/3  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LEAK OR OUTAGE NUMBER	CAUSE	MALFUNCTION RESULT	CORRECTIVE ACTION
2/3-7541-49A/49A/47A SPGT RELAYS	CORRECTIVE WR 081296	N/A	-----	-----	CHECKED POSITION OF RELAYS 2/3 7541-47A AND 2/3 7541-49A, PERFORMED PM
SPARE CRD - 895	PREVENTIVE WR 089295	N/A	-----	-----	LEAK TESTED CRD 895 (PASSED) PER DMP 0-300-11 REV. 2
2/3-03-CR237 CONTROL ROD DRIVE	PREVENTIVE WR 090505	N/A	-----	-----	LEAK TESTED CRD A237 (PASSED) PER DMP 0-300-11 REV. 2
2/3-03-CR292 CONTROL ROD DRIVE	PREVENTIVE WR 090509	N/A	-----	-----	LEAK TESTED CRD 292 (PASSED) PER DMP 0300-11 REV. 2
2/3-03-CR1064 CONTROL ROD DRIVE	PREVENTIVE WR 090512	N/A	-----	-----	THIS CRD 1064 FAILED LEAK TEST, INNER DRIVE SEALS ARE BAD, NEW WR 95754 WRITTEN
2/3-03-CR6393 CONTROL ROD DRIVE	PREVENTIVE WR 090517	N/A	-----	-----	LEAK TESTED CRD 6393 (PASSED) PER DMP 0-300-11 REV. 2
SPARE SRM UNIT	CORRECTIVE WR 091426	N/A	-----	-----	REPAIRED SRM PULSE HEIGHT DISC PER STATION TRAVELER
2/3-202 SPARE RECIRC. PUMP SEAL	PREVENTIVE WR 091645	N/A	-----	-----	RESULT SPARE SEAL
2/3 03CR995 CONTROL ROD DRIVE	PREVENTIVE WR 092259	N/A	-----	-----	LEAK TESTED CRD 995 (PASSED) PER DMP 0-300-11 REV. 2
2/3-03CR1078 CONTROL ROD DRIVE	PREVENTIVE WR 092260	N/A	-----	-----	LEAK TESTED CRD 1078 DID NOT PASS LEAK TEST AFTER NEW KINGS PUT IN NEW WR 95758 WRITTEN



DRESDEN UNIT 2/3  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	FAILURE CAUSE	FAILURE RESULT	CORRECTIVE ACTION
2/3-03CR 1085 CONTROL ROD DRIVE	PREVENTIVE WR D92263	N/A			LEAK TESTED CRD 1085 (PASSED) PER DMP 0300-11 REV. 2
2/3-03 CR 1541 CONTROL ROD DRIVE	PREVENTIVE WR D92268	N/A			LEAK TESTED CRD 1541 (PASSED) PER DMP 0-300-11 REV. 2
2/3-03-CRA8755 CONTROL ROD DRIVE	PREVENTIVE WR D92271	N/A			LEAK TESTED CRD A8755 (PASSED) PER DMP 0-300-11 REV. 2
2/3-03-CR757C CONTROL ROD DRIVE	PREVENTIVE WR D92502	N/A			LEAK TESTED 753C (PASSED) PER DMP 0-300-11 REV. 2
2/3-03-CR1061 CONTROL ROD DRIVE	PREVENTIVE WR D92503	N/A			CRD 1061 FAILED LEAK TEST, NEW WR 95757 WRITTEN TO REBUILD DRIVE
HPCI FLOW TRANSMITTER	PREVENTIVE WR D93486	N/A			REPLACED HPCI FLOW TRANSMITTER WITH ROSEMOUNT
2/3-03-CR66 CONTROL ROD DRIVE	PREVENTIVE WR D93550	N/A			LEAK TESTED CRD 66 (PASSED) PER DMP-0300-11 REV. 2
2/3-03 CRA7634 CONTROL ROD DRIVE	PREVENTIVE WR D93551	N/A			LEAK TESTED CRD A8734, DID NOT PASS, NEW WR 95755 WAS WRITTEN TO REBUILD
2/3-03-1R1041 CONTROL ROD DRIVE	PREVENTIVE WR D93553	N/A			CRD 1041 DID NOT PASS LEAK TEST, NEEDS TO BE REBUILT, STOP PISTON SEAL LEAKING 100 POUNDS. NEW WR 95755 WRITTEN
2/3-03-CR997 CONTROL ROD DRIVE	PREVENTIVE WR D93555	N/A			LEAK TESTED CRD 997 (PASSED) PER DMP 0-300-11 REV. 2

DRESDEN UNIT 2/3  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	RESULT	CORRECTIVE ACTION
2/3-6699-111 ALTERNATE FEED TO 2/3 DIESEL LOBE OIL CIRC PUMP	PREVENTIVE MR 095643	N/A			INSTALLED ALTERNATE FEED FROM MCC 29-7 TO KEEP THE 2/3 D/G LOBE OIL BEC. PUMP RUNNING WHILE MCC 29-4 IS TAKEN OUT-OF-SERVICE

DRESDEN UNIT 3  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	CAUSE	MAINTENANCE RESULT	CORRECTIVE ACTION
03 CRD	PREVENTIVE MR D82780	N/A			LEAK TEST DRIVE FOR CRD REPLACEMENT
3-1301-1 MOV 3-1301-1	PREVENTIVE MR D84483	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 3-1301-1
3-1301-10 MOV 3-1301-10	PREVENTIVE MR D84487	N/A			USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 3-1301-10
46B-ATOM CONTROL BLADES	PREVENTIVE MR D86323	N/A			4 BLADES REPLACED
3-2300 M-1187D-259	PREVENTIVE MR D89953	N/A			PERFORMED MWP AND TRAVELER
L13-1602-3 TORUS NARROW RANGE INDICATOR	CORRECTIVE MR D92605	N/A			REPLACED METER AND CALIBRATED PER WORK INSTRUCTIONS
3-1600 03 D/W PERSONNEL HATCH	PREVENTIVE MR D93907	N/A			INSTALLED/REMOVED STRONGBACK TO SUPPORT LLRT OF INTERLOCK
HPCI FLOW COMPUTER POINT W335	CORRECTIVE MR D94665	N/A			PERFORMED A CALIBRATION CHECK PER SF90-8-93 REV. 1 TO VERIFY COMPUTER INPUT FOR PROPER READING
P/PI 1640-11B 03 PRESURE INDICATOR 'B'	CORRECTIVE MR D94980	N/A			REPLACED DEFECTIVE METER WITH NEW CALIBRATED METER SI 8797C23
3-1140-2 LOW LEVEL INDICATOR (SELCD)	PREVENTIVE MR D95315	N/A			READJUSTED SETPOINT FOR ALARM AS PER TEMPORARY PROCEDURE CHANGE 90-354

GREENSBORO UNIT 3  
SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MAINTENANCE CAUSE	RESULT	CORRECTIVE ACTION
750-1C SRs 22	CORRECTIVE WR D95672	N/A			CLEANED INPUT AND OUTPUT CONNECTORS AND INDICATION RETURNED TO NORMAL, VERIFIED PROPER INDICATION
3-3093 U-3 DG COOLING WATER PUMP	CORRECTIVE WR D95684	N/A			REMOVED ELSON, WELDED SMALL HOLE INSTALLED NEW GASKETS, REPLACED ELSON
APRM CHANNEL 6	CORRECTIVE WR D95910	N/A			REPLACED RELAY K-2 AND K-5 WITH LIKE FOR LIKE REPLACEMENTS, VERIFIED RELAYS ARE FULLY SEATED IN SOCKET
3-2452A D3 'A' WATER MONITOR	CORRECTIVE WR D95998	N/A			BENCH TESTED NEW RELAY AND INSTALLED IN 3A WATER MONITOR AS PER WRITTEN WORK INSTRUCTIONS. PERFORMED PMV

5.6 Temporary System Alterations (Unit 2 and Unit 3) installed during November, 1990

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.

5.6.1 Unit 2

<u>Temporary System Alteration No.</u>	<u>Description</u>	<u>Installation Date</u>	<u>Removal Date</u>
II-22-90	This alteration prevented Shutdown Cooling isolation from the 'A' Recirculation loop temperature element. The 'B' Recirculation loop temperature element still could isolate Shutdown Cooling on high temperature.	9-15-90	11-15-90
II-23-90	The purpose of this temporary alteration was to install temporary covers and seals on the south side ventilation registers on the 613' elevation of the Rx Bldg to eliminate the air flow differential from south to north. This prevented the movement of loose contamination from the south side to the north side of the 613' floor.	9-19-90	
II-26-90	This temporary alteration provided for the removal and re-installation of a duct work that feeds the Unit 2 drywell personnel interlock. A temporary section of flex duct was installed to provide a cool area for workers in the primary containment drywell.	9-28-90	11-28-90
II-29-90	The alteration allowed the operation of the Shutdown Cooling system with a failed thermocouple in the 'B' Recirculation loop temperature element. Bypassing the 'B' loop did not degrade shutdown cooling system performance.	9-27-90	11-27-90

Temporary System Alteration No.	Description	Installation Date	Removal Date
II-41-90	This alteration bypassed the local indication for the Core Spray minimum flow valve M02-1402-38A. Main Control Room indication was available.	11-5-90	
II-45-90	This temporary alteration allowed disabling Slack Cable limit circuits A/B switches for the Stock Crane. After repair of the Cable Limit switches, the system will be returned to normal.	11-13-90	
II-48-90	This alteration installed a jumper on SRM 21 to provide a higher voltage and reduce noise on the output pulse controls to the SRM. The jumper will be removed after fuel load.	11-17-90	
II-50-90	This temporary alteration disabled the Stock Crane over-capacity limit switches for operation of the crane despite the switch malfunction. The limit switches will be adjusted and the temporary alteration removed within approximately three months.	11-26-90	

#### 5.6.2 Unit 3

III-19-90	This temporary alteration lifted wires to the full closed limit switch on the Moisture Separator Drain Tank to High Pressure Heater 3D2-3105 level control valve 3-3509B to clear a ground on the 125 VDC system. The limit switch energizes annunciator on the 903-6 Main Control Room Panel, Moisture Separator 3A drain to Heater 3D2 closed. The lifted wires will be replaced upon repair of the ground on the level control valve 3-3509B.	9-19-90	
III-20-90	This temporary alteration used sheet metal covers over the Reactor Building refuel floor south side supply air registers. The alteration eliminated the air flow differential between the north and south sides of the refuel floor to reduce loose contamination from south to north. The alteration will be removed when new dampers can be installed, or the unit outage is over.	9-19-90	



- III-21-90 This temporary alteration installed a portable Containment Atmospheric Monitor on drywell air sampling lines 3-9207-1"-H and 3-9208-1"-H to assure compliance with FSAR section 14.2.6.4. The alteration assures proper monitoring of the drywell for potential leak problems. This alteration will be removed when an improved system is installed. 10-16-90
- III-22-90 This temporary alteration isolated the Condensate Booster Pump Minimum Flow Bypass Valve 3-3407-500 to stop leakage and the resulting pressure loss in the Condensate system. The pressure loss reduced the suction pressure to the Reactor feed pump suction header. The alteration will be removed after repair of the bypass valve. 10-19-90
- III-23-90 This temporary alteration added a Furmanite seal to the High Pressure Coolant Injection drain pot to condenser line 3-2323-1"-LX to stop a leak. The alteration will be removed with replacement of the degraded section of piping. 11-23-90