



Commonwealth Edison

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

January 2, 1991

EDE LTR: #91-013

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 December, 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
Station Manager
Dresden Nuclear Power Station

EDE:DM:jws

Enclosure

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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 DECEMBER, 1990

| UNIT | DOCKET | LICENSE |
|------|---------|---------|
| 1 | 050-010 | DPR-2 |
| 2 | 050-237 | DPR-19 |
| 3 | 050-249 | DPR-25 |

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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 for December, 1990 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 DECEMBER, 1990

2.1 UNIT 2 MONTHLY OPERATING EXPERIENCE SUMMARY

12-01-90 to 12-31-90 Unit 2 remained off-line during the month of December for its 12th Refueling Outage. Major work during the month included:

- Primary Containment Integrated Leak Rate Test.
- In-Service Inspection (ISI) of various Primary System Piping.
- Normal Refueling Outage related work.

SUMMARY OF OPERATING EXPERIENCE FOR DECEMBER 1990

2.2 UNIT 3 MONTHLY OPERATING EXPERIENCE SUMMARY

- 12-01-90 to 12-14-90 Unit 3 entered the month on-line and operating at 749 MWe and in Economic Generation Control (EGC). The unit operated through 12-14-90 in EGC or at loads requested by the System Load Dispatcher.
- 12-15-90 to 12-26-90 On 12-15-90 at 0725 hours with the reactor in the Run mode and in EGC, the 3B Recirculation Pump High Temperature alarm has received in the Control Room. It was noted that the upper guide bearing temperature had reached 196 degrees Fahrenheit. The Unit was removed from EGC and stabilized at 770 MWe. The upper guide bearing temperature began to decrease to normal. At 0845 hours, the 3B Recirculation Pump Motor High Vibration alarm was received in the Control Room and a load drop was immediately initiated. Due to continued high vibrations and temperature on the Recirculation Pump Motor, core flow was reduced and control rods were inserted in reverse sequence until power reached approximately 40%. The 3B Recirculation Pump speed was then reduced and then manually tripped. Reactor power operation continued in the Single Loop Operation mode until the Unit was taken off-line on 12-24-90 at 0152 hours and the reactor was made sub-critical at 0203 hours of the same day. The unit was taken off-line to replace a Primary Containment interlock inner door gasket that had shown unsatisfactory leakage during Local Leak Rate Testing of the interlock following a Primary Containment entry. The inner door gasket was replaced and tested; integrity of the outer interlock door was unaffected. The reactor was brought critical on 12-25-90 at 1924 hours and the generator was placed on-line on 12-26-90 at 1548 hours.
- 12-27-90 to 12-31-90 The Unit continued in Single Loop Operation the remainder of the month with a capacity factor of 61.0% and an availability of 91.7%.

3.3 AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 050-237

UNIT II

DATE January 2, 1991

COMPLETED BY D.C. Maxwell

TELEPHONE 815/942-2920

MONTH DECEMBER, 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 January 2, 1990

COMPLETED BY D.C. Maxwell

TELEPHONE 815/942-2920

MONTH DECEMBER, 1990

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|-----|
| 1 | 740 |
| 2 | 720 |
| 3 | 747 |
| 4 | 773 |
| 5 | 771 |
| 6 | 763 |
| 7 | 760 |
| 8 | 736 |
| 9 | 740 |
| 10 | 747 |
| 11 | 749 |
| 12 | 754 |
| 13 | 761 |
| 14 | 766 |
| 15 | 441 |
| 16 | 313 |

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|-----|
| 17 | 302 |
| 18 | 306 |
| 19 | 308 |
| 20 | 307 |
| 21 | 307 |
| 22 | 294 |
| 23 | 301 |
| 24 | 0 |
| 25 | 0 |
| 26 | 59 |
| 27 | 279 |
| 28 | 298 |
| 29 | 312 |
| 30 | 310 |
| 31 | 313 |

DOCKET NO. 050-237
 UNIT NAME DRESDEN UNIT II
 DATE January 2, 1990
 COMPLETED BY D. C. Maxwell
 TELEPHONE (815)942-2920

3.5 UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH DECEMBER, 1990

| 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 |
|-----|----------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| 4 | 09-23-90 | S | 744.0 | C | 1 | N/A | N/A | N/A | Off-line 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

DOCKET NO. 050-249
 UNIT NAME DRESDEN UNIT III
 DATE January 2, 1991
 COMPLETED BY D. C. Maxwell
 TELEPHONE (815)942-2920

REPORT MONTH DECEMBER, 1990

| 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 | 12-15-90 | F | 337.3 (337:19) | A | N/A | N/A | AD | MO | 3B Recirc Pp Motor High Vibration - Maintaining Single-Loop Operation |
| 6 | 12-24-90 | F | 61.9 (61:56) | A | I | N/A | BD | SEAL | Primary Containment Interlock Inner Door Leak Test Failure |

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

ZR18/643/11

3.7 COMMONWEALTH EDISON COMPANY - DRESDEN NUCLEAR POWER STATION
 MAXIMUM DAILY ELECTRICAL LOAD FORM
 FOR THE MONTH OF DECEMBER, 1990

| DAY | HOUR ENDING | MAXIMUM DAILY LOAD KW |
|-----|----------------|--------------------------|
| 1 | 1800 | 798,600 |
| 2 | 2100 | 802,600 |
| 3 | 1200 | 801,300 |
| 4 | 2000 | 814,200 |
| 5 | 0900 | 813,800 |
| 6 | 2200 | 802,000 |
| 7 | 0900 | 801,100 |
| 8 | 1800 | 800,000 |
| 9 | 2100 | 802,200 |
| 10 | 0300 | 802,500 |
| 11 | 0300 | 802,400 |
| 12 | 0700 | 799,200 |
| 13 | 2000 | 808,900 |
| 14 | 2300 | 813,300 |
| 15 | 0600 | 794,700 |
| 16 | 1500 | 348,800 |
| 17 | 0300 | 339,100 |
| 18 | 1300 | 331,100 |
| 19 | 0300 | 330,400 |
| 20 | 0400 | 329,000 |
| 21 | 1600 | 331,100 |
| 22 | 2300 | 334,900 |
| 23 | 1500 | 335,100 |
| 24 | 0100 | 180,400 |
| 25 | N/A | 0 |
| 26 | 2200 | 329,300 |
| 27 | 1000 | 324,100 |
| 28 | 1000 | 346,800 |
| 29 | 0100 | 338,500 |
| 30 | 0800 | 334,800 |
| 31 | 1000 | 341,700 |

4.0 UNIQUE REPORTING REQUIREMENTS

4.1 MAIN STEAM RELIEF VALVE OPERATIONS

Relief valve operations during the reporting period, December, 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 December, 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. Off-Site Review is reviewing 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.

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

The Radioactive Waste (RW) System Upgrade continues. During December, 1990 the Unit 2 Fuel Pool Filter Outlet pipe 2-1909-6" work was continued. Installation of the two Maximum Recycle Sample Sinks also continued.

Work will begin on installation of Equipment Drain and Floor Drain Tank Room Inlet Headers to facilitate the remaining pipe replacement in the RW Tank Room.

4.4 FAILED FUEL ELEMENT INDICATIONS

4.4.1 Unit 2

Dresden Unit 2 fuel performance during December, 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 December, 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 December, 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 December, 1990 reporting period.

TABLE 5.2.1

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

| PROCEDURE TYPE | PROCEDURE NO. | PROCEDURE TITLE/DESCRIPTION | SUMMARY OF CHANGES |
|--|---------------|---|--------------------|
| Dresden Administrative Procedure | DAP 02-03 | Operation and Control of the Central and Satellite Files | 1 |
| Dresden Instrument Surveillance Procedure | DIS 1300-03 | Isolation Condenser Auto-Actuation | 3, 4 |
| Dresden Maintenance Procedure | DMP 0200-30 | Reactor Main Steam Safety Valve Repair and Post Maintenance Testing | 3 |
| Dresden Operating Procedure | DOS 1300-02 | Isolation Condenser Valve Operability Check | 1, 2 |
| Dresden Tech. Staff Surveillance Procedure | DTS 1500-07 | Unit 2/3 Integrated Primary Containment Leak Rate Test | 2, 3 |

- 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 December, 1990 are listed below:

SP-90-12-165 Full Closure Timing and Exercising of Main Steam Isolation Valves, With and Without Non-Safety Grade Instrument Air

The purpose of this procedure was to exercise and time the Main Steam Isolation Valves from the full open to the full closed position, utilizing a normal isolation signal, to test each valve's ability to meet Technical Specifications criteria with and without non-safety grade instrument air supplying the accumulators.

SP-90-12-166 Hydrogen Water Chemistry Verification System Recirculation Sample Line Preconditioning

This procedure was developed to precondition the Reactor Recirculation inlet sample line for the Hydrogen Water Chemistry Verification System installed under modification M12-2-87-55.

SP-90-12-167 Unit 2 CAM Sample Drainage and Flow Rate Test: M12-2-88-31

The purpose of this modification test is to verify that the modifications made to the Containment Atmosphere Monitor (CAM) sample piping, under Modification M12-2-88-31, will allow condensed steam to drain through the lowest CAM sample point. This will prevent water accumulation on the drywell side of the containment isolation valves.

SP-90-12-169 High Pressure Coolant Injection (HPCI) Fast Initiation Test

The purpose of this procedure is to provide the steps necessary to determine the operability of the HPCI System under emergency conditions. This procedure is to be performed once per cycle OR when work is performed on the HPCI System that will affect the initiation time of the system.

SP-90-12-170

Determination of Feedwater Insoluble Iron Concentration

This procedure is applicable to the determination of insoluble iron concentrations in the feedwater during the startup flush using the Babcock and Wilcox color comparison method.

SP-90-12-171

Unit 2 Turbine Rotor Modification Test

The purpose of this procedure is to outline and document the ASEA Brown Boveri testing performed on the new Low Pressure 'A' turbine rotor.

5.4 Safety Related Maintenance (Unit 2 and 3)

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

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|--|
| MO2-0202-79 | PREVENTIVE WR D96274 | N/A | ----- | ----- | REPLACED HARD WHEEL HOUSING COVER GASKET |
| M-1159D-262 VARIABLE SPRING CANISTER PIPE SUPPORT | PREVENTIVE WR D96282 | N/A | ----- | ----- | REPLACED NUT, TIGHTENED, ADJUSTED SPRING CAN TO REQUIRED SETTING |
| 50-2-220-45 SOLENOID RECIRC LOOP SAMPLE VALVE OUTBOARD | PREVENTIVE WR D96283 | N/A | ----- | ----- | REPLACED TAPED SLICES, WITH QUALIFIED RAD CHEM SPLICES FOR 2-220-45 SOL. CABLE 26314 PER DMP 0040-25 AND DEP 2100-07 |
| D-2 REACTOR RECIRC | PREVENTIVE WR D96301 | N/A | ----- | ----- | COMPLETED WORK PER FCIT WORK PACKAGE D96301-01 |
| 2-202-5A | PREVENTIVE WR D96304 | N/A | ----- | ----- | REPLACE EXISTING SPRING PACK WITH PART #1101-211 |
| 2-300 ALL CRD FLANGE BOLTING | PREVENTIVE WR D96325 | N/A | ----- | ----- | VERIFIED THAT EACH AND EVERY ONE OF THE 177 CRDS HAD THE PROPER AMOUNT (C) FLANGE RETAINING BOLTS |
| 2/3-6723 4KV CIRCUIT BREAKER SER #0204A2316-012 | PREVENTIVE WR D96335 | N/A | ----- | ----- | FOUND STRIKER PLATE TO BE INTACT, WELDED PLATE AS PREVENTATIVE MAINTENANCE |
| 2-1530-115 LPCI RELAY 2-1530-115 | CORRECTIVE WR D96340 | N/A | ----- | ----- | OBTAINED NEW RELAY, BENCH TESTED FOR PICKUP VOLTAGE & CONTACT WIRE, CHANGED CONTACTS TO MATCH PRINT, INSTALLED NEW RELAY |
| 2-202-5B | PREVENTIVE WR D96349 | N/A | ----- | ----- | REPLACED SPRING PACK WITH NEW, REFINISH BEARING LOCKRUT, SPRING PACK BEARING AND INSTALLED NEW BRACE WELD TO KIT |
| M-1157D-283 RECIRC PIPING | PREVENTIVE WR D96363 | N/A | ----- | ----- | COMPLETED WORK PER FCIT WORK PACKAGE D96363-01 |

EXCESSIVE UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | HALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|---|
| 2-2301-4 | PREVENTIVE WR D96381 | N/A | ----- | ----- | INSTALLED VOTES SENSOR PER DEP 0040-07 |
| M-1184D-290 PIPE SUPPORT | PREVENTIVE WR D96401 | N/A | ----- | ----- | REMOVED JAM NUT FROM BOTTOM ON WEST ROD CUT OFF EXCESSIVE ROD, LEAVING 1 THREAD PAST FULL NUT ENGAGEMENT |
| 2305-M-206 SWAY BRACE PIPE SUPPORT #2305-M | PREVENTIVE WR D96402 | N/A | ----- | ----- | ADJUSTED 2305-M-206 AND SWAY BRACE |
| 2-1430-101A D/W COOLERS BUS 28 - ECCS TRIP RELAYS | CORRECTIVE WR D96403 | N/A | ----- | ----- | REPLACED LUG IN PANEL 902-32 TRIP TERMINAL & AS PER WORK INSTRUCTIONS |
| EMERGENCY LIGHT CONTROL POWER TRANSFER | CORRECTIVE WR D96412 | N/A | ----- | ----- | REPLACED CONTROL TRANS ON MCC 28-1 CUBICLE F2, EMERGENCY LIGHTS CLEANED CONTACTS ON CONTACTOR AND TESTED |
| 2-202-5A | PREVENTIVE WR D96422 | N/A | ----- | ----- | CHECKED TORQUE SWITCH AND DED METER INSPECTION |
| 2-1601-56 ELECT VERSA VLV/2-1601-56 | CORRECTIVE WR D96426 | N/A | ----- | ----- | REPLACED DEFECTIVE SOLENOID VALVE WITH NEW |
| M-1159D-259 VARIABLE SPRING CANISTER SUPPORT M-1159D-259 | CORRECTIVE WR D96434 | N/A | ----- | ----- | LOOSENED LOCK NUTS AND ADJUSTED SPRING CAN SETTINGS AS DIRECTED, TIGHTENED |
| 590-1230 AUX TURBINE PRESS GEN LOAD REJECTION AND STOP VALVE SCRAM BYPASS | CORRECTIVE WR D96448 | N/A | ----- | ----- | OBTAINED NEW TIME DELAY RELAY, BROWN TESTED, SET TIME DELAY FOR 10 SECS, LOGGED LANDING AND LIFTING OF LEADS ON DATA SHEET, PASSED POST MAINT. VLRIF |
| ECIRC PIPE - DECON FLANGE | PREVENTIVE WR D96450 | N/A | ----- | ----- | INSTALLED NEW FLANGE |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|--|
| 2-1501-32A | PREVENTIVE WR D96488 | N/A | ----- | ----- | REPLACED SPRING PACK WITH NEW; INSTALLED GREASE RELIEF KIT |
| IRM 16 DETECTOR CABLE | CORRECTIVE WR D96527 | N/A | ----- | ----- | REPLACED CONNECTOR ON IRM 16 DETECTORS SWITCHED CABLES IN PENETRATION |
| 2-3007C-1-1/2" SUPPORT ON 2-3007C-1-1/2" | PREVENTIVE WR D96633 | N/A | ----- | ----- | DRILLED A 7/16" HOLE AS DETAILED IN IMPELL SKETCH AND ATTACHED TO GRATING AND SET SPRING CANNISTER TO PROPER MEASUREMENT |
| SUPPORT FOR 2-0214-2" LINE | PREVENTIVE WR D96634 | N/A | ----- | ----- | GROUND OUT EXISTING BROKEN WELD FROM ANGLE IRON TO BUSHIELD WALL; REWELDED ANGLE IRON TO BUSHIELD WALL |
| 2-3007B-1-1/2" SUPPORT ON 2-3007B-1-1/2" | PREVENTIVE WR D96635 | N/A | ----- | ----- | ADJUSTED SPRING CAN TO ATTAIN A LOAD OF 1"; TIGHTENED LOCK NUT |
| SUPPORT FOR 2-3009A-3/4" LINE | PREVENTIVE WR D96636 | N/A | ----- | ----- | ALIGNED U-BOLT AND INSTALLED NUT ON LED ADDRESS PINV |
| 2-205-27 HEAD CLG CK VLV 2-0205-27 | CORRECTIVE WR D96777 | N/A | ----- | ----- | REMOVED; CLEANED; REINSTALLED CHECK VALVE WITH NEW GASKETS |
| 2-1301-3 | CORRECTIVE WR D96792 | N/A | ----- | ----- | INSTALLED NEW TORQUE SWITCH AND BALANCED IT PER DEP 0040-09 |
| 2-205-27 HEAD COOLING CHECK VALVE | CORRECTIVE WR D96801 | N/A | ----- | ----- | REMOVED HINGE PIN PLUG; CLEANED THREADS AND APPLIED PTFE SEALANT TO THREADS; REINSTALLED AND TIGHTENED |
| 2-0305-101 01 VALVE HCU 30-11 | CORRECTIVE WR D96803 | N/A | ----- | ----- | ADDED THREE RINGS PACKING AND LUBED STEM AND STUDS PER DMP 0305-02 |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | HALF FUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|---------------------|--------|--|
| 2-0305-101 101 VALVE HCU G-4 | CORRECTIVE WR D96804 | N/A | ----- | ----- | ADJUSTED PACKING PER DMP-0305-02 P.41 STOPPED LEAKING |
| 2-220-50 REACTOR HEAD OF VENT VALVE | CORRECTIVE WR D96807 | N/A | ----- | ----- | ADJUSTMENT MADE TO VALVE PACKING GLAND TO STOP LEAKAGE, LUBED STEM |
| 2-220-102 | PREVENTIVE WR D96809 | N/A | ----- | ----- | VALVE PACKING ADJUSTMENT, LUBED STEM |
| CONTROL ROD DRIVE H-7 | PREVENTIVE WR D96811 | N/A | ----- | ----- | REMOVED SUPPORT STEEL, RETORQUED DRIVE FLANGE BOLTS (8 EACH) |
| 2-0203-D MSIV 203-10 | CORRECTIVE WR D96999 | N/A | ----- | ----- | WELDED UP NEW SUPPORT BRACKET PER WPS 1-1-B REV. 4 AND DAP 3-2 REV. 2 |
| 2-0203-1A MSIV 203-1A | CORRECTIVE WR D97000 | N/A | ----- | ----- | WELDED UP NEW SUPPORT BRACKET PER WPS 1-1-B REV 4 AND DAP 3-2 REV 2 |
| 2-300 CRD SUPPORT STEEL | PREVENTIVE WR D97003 | N/A | ----- | ----- | FOUND 30 SUPPORT STEEL RETAINING CRABS LOOSE DUE TO CRAB BOLTING NOT TIGHT |
| 2-202-4A | PREVENTIVE WR D97020 | N/A | ----- | ----- | VERIFIED YOKE TO VALVE BOLTS ARE ALL TIGHT |
| 2-202-4B | PREVENTIVE WR D97021 | N/A | ----- | ----- | TIGHTENED BOLTS IN A DIAMETRICAL PATTERN |
| 2-202-5A | PREVENTIVE WR D97023 | N/A | ----- | ----- | TIGHTENED YOKE TO VALVE BOLTS, VERIFIED TORQUE VALUE OF LIMITORQUE BOLTS WERE GOOD |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | HALF FUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|---------------------|--------|---|
| 2-1201-1A D-2 MO-1201-1A | PREVENTIVE WR D97034 | N/A | ----- | ----- | MOTOR WAS UNBOLTED AND SHING OUT OF HO MM'S COMPLETED WORK AND MOTOR WAS BOLTED BACK INTO PLACE |
| 2-1201-1A D-2 MO-1201-1A | CORRECTIVE WR D97035 | N/A | ----- | ----- | RESET ARM THAT WAS OUT OF ADJUSTMENT |
| A02-220-46 REACTOR HEAD VENT | PREVENTIVE WR D97036 | N/A | ----- | ----- | REMOVED OLD REGULATOR AND INSTALLED NEW |
| 2-203-2A OUTBOARD MSIV CONTROL WIRING IN CONTROL ROOM 902-3 PNL | PREVENTIVE WR D97056 | N/A | ----- | ----- | FOUND WIRING LANDED ON WRONG TERMINALS RELANDED JUMPER AND WIRING |

OPERATION UNIT 2/3
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|---|
| 2/3-203-3A TARGET ROCK PILOT VALVE (SPARE) | CORRECTIVE WR 084821 | N/A | ----- | ----- | TESTED PILOT IN THE AS FOUND CONDITION. RESULT AS PER APPLICABLE STEPS AND 2/3 37 REV. 4. |
| 2/3-XX-L05 SPARE MOV MOTOR | PREVENTIVE WR 091990 | N/A | ----- | ----- | PERFORMED INSPECTION AND FOUND BEADS INTERNALLY, SENDING MOTOR BACK TO LIMITORQUE FOR REPAIRS PD 50211/DR 45. |
| 2/3-XX-L05 SPARE MOV MOTOR | PREVENTIVE WR 091991 | N/A | ----- | ----- | PERFORMED INSPECTION OF SPARE SAFETY RELATED EG MOTOR FOR METAL BEADS AS PER THE MMP AND TRAVELER, NO BEADS FOUND. |
| 2/3-XX-L05 SPARE MOV MOTOR | PREVENTIVE WR 091993 | N/A | ----- | ----- | PERFORMED INSPECTION OF SPARE SAFETY RELATED EG MOTOR FOR METAL BEADS, NO BEADS FOUND. |
| 2/3-XX-L05 SPARE MOV MOTOR | PREVENTIVE WR 091995 | N/A | ----- | ----- | PERFORMED INSPECTION OF SPARE SAFETY RELATED EG MOTOR FOR METAL BEADS, NO BEADS FOUND. |
| 2/3-XX-L05 SPARE MOV MOTOR | PREVENTIVE WR 091996 | N/A | ----- | ----- | PERFORMED INSPECTION AND FOUND BEADS INTERNALLY, SENDING MOTOR BACK TO LIMITORQUE FOR REPAIRS PD 502413/DR65. |
| 2/3-3899-200 CCSW - CONTROL ROOM HVAC CHECK VALVE | PREVENTIVE WR 092787 | N/A | ----- | ----- | OPENED VALVE, TS AND WC CHECKED, INTERNALS REINSTALLED COVER WITH NEW GASKET. |
| 2/3-3999-336 SERVICE WATER C.R. HVAC CHECK VALVE | PREVENTIVE WR 092788 | N/A | ----- | ----- | OPENED BONNET FOR TECH STAFF AND QUALITY CONTROL TO CHECK INTERNALS. |
| 2/3 DIESEL GENERATOR/HPCI ROOF BLOCKS | PREVENTIVE WR 095377 | N/A | ----- | ----- | REMOVED ROOF BLOCKS AS REFERRED TO SUPPORT D2 HEAT ROOM COOLER COIL REPLACEMENT. |
| 2-2301-8 2301-8 SPARE WEDGE | PREVENTIVE WR 096109 | N/A | ----- | ----- | REMOVED OLD STELLITE FROM WEDGE, RECD AS FOUND, WELDED WEDGE QC CHECKED. |

PRESEN UNIT 2/3
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------|--------------------|---|
| 2/3-9400-100 B. CONT RM AIR HANDLING UNIT | PREVENTIVE MR D96259 | N/A | | | INSTALLED ACCESS PANEL AND TIGHTENED EDDITING |
| 2/3-4699-315 2/3 DIESEL GENERATOR AIR START PRV | CORRECTIVE MR D76400 | N/A | | | AS FOUND CONDITION, AIR START PRV BLOWING AIR FROM VALVE BODY, O-RING FOUND MISPLACED, RE-POSITIONED O-RING |

DRESDEN UNIT 3
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|---|
| 3-263-2-13A | PREVENTIVE WR 090252 | N/A | | | REMOVED FLOW CHECK, FOUND UNION AND VALVE TO BE TIGHT. REINSTALLED |
| 3-5850 TURBINE REACTOR INTERLOCK DOOR | CORRECTIVE WR 095422 | N/A | | | REPLACED DIODE THAT WAS FOUND DEFECTIVE, TESTED DOOR AND DOOR MARKED PROPERLY |
| 0700-REMS RSM 8 | CORRECTIVE WR 096006 | N/A | | | MILL SEQUENCE BOARD WAS CHECKED AND CHECKED GOOD |
| 3-2452-B 3B H2 O2 MONT | CORRECTIVE WR 096284 | N/A | | | REPLACED REGULATOR R1 AND THE TEMPERATURE CONTROLLER, ALSO REPLACED THE REGULATOR ON THE 9.5Z O2 BOTTLE |
| 3-1601-59 | CORRECTIVE WR 096382 | N/A | | | REPLACED SOLENOID VALVE |
| APRM #1 | CORRECTIVE WR 096536 | N/A | | | REPLACED RELAYS R2 AND R5. UNIT NOT GIVING ROB FLICKS, PROBLEMS PERSISTED. REPLACED K 12 CORRECTED PROBLEM |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|--|
| 2-1401-16-L LINE 2-1401-16"-L | CORRECTIVE WR D70912 | N/A | ----- | ----- | CUSTOM CUT FLAT TUBING FOR INSTALLING ADDED STIFFENERS UNDER PIPE |
| 2-1101-43A D-2; 1101-43A SBLC PUMP CHECK | PREVENTIVE WR D79574 | N/A | ----- | ----- | GROUND SEAL WELD OFF; TS INSPECTED AND APPROVED; QC PERFORMED INTERNAL CLEAN- LINESS; REWELDED |
| 2-1504-16-DX LPCI DRYWELL SPRAY HEADER | PREVENTIVE WR D80092 | N/A | ----- | ----- | REMOVED FLANGE BETWEEN 2-1501-27A AND 2-1501-28A; HYDRULASED BACK TO LPCI PUMP; FLUSHED LINE AS REQUIRED |
| 2/3-6723-17011 2B LPCI PUMP BREAKER | CORRECTIVE WR D81275 | N/A | ----- | ----- | REPLACED BROKEN BLACK PLASTIC ON RIGHT SIDE OF 4KV BREAKER WITH NEW SECONDARY DISCONNECT |
| 2-1599-65B | CORRECTIVE WR D81740 | N/A | ----- | ----- | REMOVED; REPACKED REINSTALLED BONNET |
| 16-41A LPRM 16-41A 5 PANEL DOWNSCALE | CORRECTIVE WR D82339 | N/A | ----- | ----- | REPLACED LIGHT SOCKET AND TRANSISTORS PERFORMED DIP 700-16 AND DIP 700-21 |
| 2-9900 MISC PROCESS COMPUTER INPUT FOR DRYWELL RADIATION HI RING 'B' | PREVENTIVE WR D83656 | N/A | ----- | ----- | CLEANED TEMP ALT II-57-89 |
| 2-9900-MISC PROCESS COMPUTER INPUT FOR DRYWELL RADIATION HI RING 'A' | PREVENTIVE WR D83657 | N/A | ----- | ----- | TEMP ALT HAS BEEN CLEARED AND COMPUTER POINT IS WORKING |
| 2-9900 MISC PROCESS COMPUTER INPUT FOR DRYWELL WIDE RANGE PRESSURE | PREVENTIVE WR D83658 | N/A | ----- | ----- | LIFTED LEADS |
| 2-9900 MISC PROCESS COMPUTER INPUT FOR DRUS WIDE RANGE LEVEL 'B' | PREVENTIVE WR D83659 | N/A | ----- | ----- | CLEANED TEMP ALT II-57-89 |

PRESIDENT UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|--|
| 2-9900 MISC PROCESS COMPUTER INPUT FOR TORUS WIDE RANGE LEVEL 'A' | PREVENTIVE WR D83660 | N/A | ----- | ----- | CLEARED TEMP ALI 11-57-87 |
| 2A DRYWELL COOLER BLOWER | PREVENTIVE WR D84057 | N/A | ----- | ----- | THOROUGHLY CLEANED BREAKER, CHECKED FOR PARTS, MADE ANY NECESSARY ADJUSTMENTS, LUBRICATED WITH APPROPRIATE LUBRICANT |
| 2E DRYWELL COOLER BLOWER 480V CB | PREVENTIVE WR D85071 | N/A | ----- | ----- | CLEARED, CHECKED, MADE ADJUSTMENTS, TESTED BREAKER |
| 2C DRYWELL COOLER BLOWER 480V CB | PREVENTIVE WR D85072 | N/A | ----- | ----- | THOROUGHLY CLEANED BREAKER, TESTED AND MADE ADJUSTMENTS |
| VENT AND PURGE VALVE 2-1601-24 ACCUMULATOR SUPPORTS | PREVENTIVE WR D85142 | N/A | ----- | ----- | TORQUED THE 3/8" BOLTING ON THE ACCUMULATOR TO THE PREFERRED 25 FT LBS AND FOUND NO GAP BETWEEN CEILING AND ACCUMULATOR |
| 2-2301 2 HPCI OIL OVERSPEED TEST LINE | PREVENTIVE WR D85181 | N/A | ----- | ----- | INSPECTED THE HPCI OIL OVERSPEED TEST LINE, FOUND SOLIDIFIED PASTED OIL, CLEANED NOZZLE BLOCK AND PERFORMED PMT PER STEP 13 |
| 2-1201-1 | PREVENTIVE WR D85303 | N/A | ----- | ----- | ELECTRICALLY DISCONNECT AND RECONNECT AFTER MECHANICS HAVE COMPLETED WORK |
| 2-1001-1B | PREVENTIVE WR D85305 | N/A | ----- | ----- | REPLACED VARIOUS BEARINGS IN THE INTERNALS AS PREVENTATIVE MAINT. CAUSE INSTALLED GREASE RELIEF KIT |
| 2-1201-1 | PREVENTIVE WR D85306 | N/A | ----- | ----- | REPLACED SPRING PACK, SPRING PACK BEARING |
| RV2-2301-23 HPCI SUCTION LINE RELIEF VALVE | PREVENTIVE WR D86109 | N/A | ----- | ----- | REBUILT RELIEF VALVE |

DRESSER UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | HALF-CAUSE | HALF-RESULT | CORRECTIVE ACTION |
|---------------------------------------|-------------------------|----------------------|------------|-------------|---|
| CH 'B' MSL LOW PRESSURE | CORRECTIVE WR D86146 | N/A | ----- | ----- | PERFORMED DIS 250-2 REV. 3 |
| APRM #5 | CORRECTIVE WR D86334 | N/A | ----- | ----- | REPLACED NOISY POWER POT WITH NEW |
| 2-202-9A | PREVENTIVE WR D86759 | N/A | ----- | ----- | OVERHAULED 2-202-9A ELECTRICALLY, REPLACED ALL LUGS AND CABLE |
| 2-1201-7 MD-1201-7 CIRCUIT BREAKER | CORRECTIVE WR D86971 | N/A | ----- | ----- | REPLACED OLD BREAKER WITH NEW ONE |
| 2-1501-21A | PREVENTIVE WR D87018 | N/A | ----- | ----- | DISASSEMBLED, INSPECTED AND REPAIRED AS NECESSARY AND REASSEMBLED THE SMD-5 LIMITORUQE PER MMP AND TRAFELER |
| 2-2389D PRESSURE TRANSMITTER | CORRECTIVE WR D87236 | N/A | ----- | ----- | TOOK AS FOUND DATA ON TRANSMITTER, REPLACED BISCO CONDUIT SEAL WITH ROSEMOUNT CONDUIT SEAL |
| 2-2389C PRESSURE TRANSMITTER | CORRECTIVE WR D87237 | N/A | ----- | ----- | REPLACED TRANSMITTER CONDUIT SEAL WITH ROSEMOUNT APPROVED ONE, PERFORMED EQ SPLICE |
| 2-2389B PRESSURE TRANSMITTER | CORRECTIVE WR D87238 | N/A | ----- | ----- | REPLACED EQ BISCO CONDUIT SEAL |
| 2-2389A PRESSURE TRANSMITTER | CORRECTIVE WR D87241 | N/A | ----- | ----- | AS FOUND VALVES ON TRANSMITTER, INSTALLED NEW ROSEMOUNT SEAL |
| U-2 SBLC CONTROL SWITCH | PREVENTIVE WR D87719 | N/A | ----- | ----- | REMOVED SWITCH FROM PANEL, REMOVED TWO 8032 SCREWS FROM SWITCH AND APPLIED LOCK TITE TO THREADS |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|--|
| 2-1105-A STAND BY LIQUID CONTROL | PREVENTIVE WR D87902 | N/A | ----- | ----- | DISASSEMBLED, CLEANED, REASSEMBLED VALVE |
| 2-1101-4 | CORRECTIVE WR D88244 | N/A | ----- | ----- | REPACKED VALVE |
| 2-2301-15 LOCAL STATION BULB | CORRECTIVE WR D88021 | N/A | ----- | ----- | REPLACED BROKEN LAMP BULB WITH NEW |
| 2-00 MISC LIFT LUG FOR VALVE 2-2301-8 | PREVENTIVE WR D89062 | N/A | ----- | ----- | INSTALLED LIFTING LUGS FOR THE OVERHAUL OF THE 2301-8 VALVE AND THE OVERHAUL OF THE 2301-8 VALVE LIMITROCK |
| MO2-220-1 MSL DRAIN VALVE | CORRECTIVE WR D89307 | N/A | ----- | ----- | FND. SNAP RING CAME LOOSE, REMOVED HANDED WHEEL & HOUSING, REPLACED WITH NEW PARTS AND INSTALLED GREASE TO FITTING REINSTALLED |
| 3-263-2 11 INSTRUMENT FLOW CHECK VALVE 3-263-2-11 | CORRECTIVE WR D90253 | N/A | ----- | ----- | REMOVED FLOW CHECK, FOUND UNION AND VALVE TO BE TIGHT, REINSTALLED |
| MSL HIGH FLOW SWITCHES | PREVENTIVE WR D90323 | N/A | ----- | ----- | INSTALLED GAUGES ON MSL HIGH FLOW SWITCHES AND PERFORMED DIS 250-1 |
| 2-1501-22A D-2 MO-1501-22A | PREVENTIVE WR D90772 | N/A | ----- | ----- | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1501-17A 2A LPCI PUMP RELIEF VALVE | PREVENTIVE WR D90776 | N/A | ----- | ----- | PERFORMED SURVEILLANCE ON RELIEF VALVE PER DMS 0040-01 |
| 2-2301-1 D-2 HPCI STEAM TRAP | PREVENTIVE WR D90831 | N/A | ----- | ----- | OPENED, INSPECTED, REINSTALLED STEAM TRAPS |

| MUESSEM UNIT 2 | | SAFETY RELATED MAINTENANCE | | CORRECTIVE ACTION | |
|------------------------------|-------------------------|----------------------------|----------------|-------------------|--|
| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJORITY CAUSE | RESULT | |
| 2-202-4A | PREVENTIVE WR D90867 | N/A | | | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-202-B 2B RECIRC PUMP | PREVENTIVE WR D90868 | N/A | | | REPLACED WORN PARTS ON SEAL ASSEMBLY |
| 2-202-6 2A RECIRC PUMP | PREVENTIVE WR D90869 | N/A | | | REPLACED MECHANICAL SEAL ON 2A RECIRC RECIRC PUMP |
| 2-1501-21A 02 MO-1501-21A | PREVENTIVE WR D90875 | N/A | | | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1301-3 0-2 MO-1301-3 | PREVENTIVE WR D90894 | N/A | | | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1301-1 | PREVENTIVE WR D90895 | N/A | | | TESTED GREASE SAMPLE, FOUND GREASE UNACCEPTABLE, REPLACED HARDENED BEARING AND WORMSHAFT BEARING |
| 2-1201-3 0-2 MO-1201-3 | PREVENTIVE WR D90896 | N/A | | | INSPECTED GREASE AND FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1201-1A | PREVENTIVE WR D90897 | N/A | | | REPLACED HOUSING, REPLACED WORN SHAFT GEAR, CUP BEARING AND SPRING PACK BEARING |
| 2-220-2 -2 MO-220-2 | PREVENTIVE WR D90902 | N/A | | | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-202-7A -2 MO-202-7A | PREVENTIVE WR D90903 | N/A | | | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |

GRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|---|
| 2-202-5A D-2 MD-202-5A | PREVENTIVE WR D90904 | N/A | ----- | ----- | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1801-31A D-2 VAC BKR #31A | PREVENTIVE WR D90921 | N/A | ----- | ----- | FABRICATED AND INSTALLED NEW LIFTING LUG |
| 2-203-4H PH MAIN STEAM SAFETY VALVE | PREVENTIVE WR D90925 | N/A | ----- | ----- | REPLACED OLD VALVE WITH REBUILT |
| 2-203-4G PB MAIN STEAM SAFETY VALVE | PREVENTIVE WR D90926 | N/A | ----- | ----- | REPLACED OLD VALVE WITH NEW |
| 2-203-4F T MAIN STEAM SAFETY VALVE | PREVENTIVE WR D90927 | N/A | ----- | ----- | REPLACED OLD VALVE WITH REBUILT ONE |
| 2-203-4E E MAIN STEAM SAFETY VALVE | PREVENTIVE WR D90928 | N/A | ----- | ----- | REPLACED OLD VALVE BK 6502, REPLACED WITH REBUILT VALVE BK6280 |
| 2-1501-32A D-2 MD-1501-32A | PREVENTIVE WR D90977 | N/A | ----- | ----- | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1501-5A MOV | PREVENTIVE WR D91357 | N/A | ----- | ----- | USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED MOV 2-1501-5A |
| 2-1501-5C | PREVENTIVE WR D91358 | N/A | ----- | ----- | TESTED MOV PER DEP 0040-10, PASSED |
| 2-1501-11A MOV 2-1501-11A | PREVENTIVE WR D91359 | N/A | ----- | ----- | TESTED MOV PER DEP 0040-10 |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|------------------------------|-------------------------|----------------------|-------|--------------------|---|
| 2-1501-18A MOV 2-1501-18A | PREVENTIVE WR D91361 | N/A | | | TESTED MOV PER DEP 0040-10 |
| 2-1501-20A MOV 2-1501-20A | PREVENTIVE WR D91366 | N/A | | | TESTED MOV PER DEP 0040-10 |
| 2-1501-20B MOV 2-1501-20B | PREVENTIVE WR D91366 | N/A | | | TESTED MOV PER DEP 0040-10 |
| 2-1501-21A MOV 2-1501-21A | PREVENTIVE WR D91367 | N/A | | | USING LIBERTY TEST EQUIPMENT, DIAGNOSTICALLY TESTED VALVE |
| 2-1501-21B MOV 2-1501-21B | PREVENTIVE WR D91368 | N/A | | | TESTED MOV PER DEP 0040-10 AND INSTALLED SENSOR PERFORMED DOS 1600-1; 150-1; DAP 11-21C |
| 2-1501-38A MOV 2-1501-38A | PREVENTIVE WR D91374 | N/A | | | TESTED MOV PER DEP 0040-10 |
| 2-1501-38B MOV 2-1501-38B | PREVENTIVE WR D91375 | N/A | | | TESTED MOV PER DEP 0040-10 |
| 2-1201-1 MOV 2-1201-1 | PREVENTIVE WR D91393 | N/A | | | INSTALLED VOTES SENSOR PER DEP 0040-04 |
| 2-1501-21A MOV 2-1501-21A | PREVENTIVE WR D91415 | N/A | | | INSTALLED VOTES SENSOR PER DEP 0040-03 |
| US 23-1 MOV 23-1 | PREVENTIVE WR D91671 | N/A | | | RELAY CALIBRATION WAS PERFORMED PER PROCEDURE WHICH INCLUDED CT AND TRIP CHECKS |

GREEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR DUTAGE NUMBER | CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------|--------------------|---|
| 2-220-48 D-2 AV/220-48 VALVE | PREVENTIVE WR 091816 | N/A | | | REPAKED VALVE #220-48 |
| 2-220-57B D-2 220-57B VALVE | PREVENTIVE WR 091839 | N/A | | | ADJUSTED PACKING TO STOP LEAKAGE AND CLEANED AND LUBED STEM |
| 2-220-57A D-2 220-57A VALVE | PREVENTIVE WR 091840 | N/A | | | ADJUSTED PACKING EVENLY TO STOP LEAKAGE, CLEANED AND LUBED STEM |
| 2-220-102 VALVE | PREVENTIVE WR 091841 | N/A | | | REPAKED VALVE |
| 2-600-MISC D-2 DIESEL GENERATOR EXCITER SUPPLY MRLDED CASE BREAKER | PREVENTIVE WR 091857 | N/A | | | REPLACED BREAKER |
| 2-1601-20A D-2 D/W VENT VALVE | PREVENTIVE WR 091892 | N/A | | | DISASSEMBLED, INSPECTED, REASSEMBLED VALVE |
| 2-263-2-17B REACTOR LEVEL INST. FLOW CHECK VALVE | PREVENTIVE WR 092420 | N/A | | | REMOVED, CLEANED AND REINSTALLED CHECK VALVE |
| 2-205-27 REACTOR HEAD COOLING CHECK VALVE | PREVENTIVE WR 092531 | N/A | | | REMOVED, CLEANED, REINSTALLED ORIGINAL CHECK VALVE |
| 2-220-84A SIV AIR ACCUMULATOR CHECK VALVE | PREVENTIVE WR 092532 | N/A | | | DISASSEMBLED CHECK VALVE, REPLACED WITH NEW GASKET |
| 2-220-85A SIV AIR ACCUMULATOR CHECK VALVE | PREVENTIVE WR 092533 | N/A | | | INSPECTED VALVE, FOUND IN GOOD CONDITION |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LEAK OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|-----------------------|-------------------|--------|---|
| -2599-23A CAD CHECK VALVE | PREVENTIVE WR 092538 | N/A | ----- | ----- | DISASSEMBLED, CLEANED, REASSEMBLED CHECK VALVE WITH NEW GASKET |
| -2301-76 PCI GLAND SEAL CONDENSER CHECK VALVE | PREVENTIVE WR 092541 | N/A | ----- | ----- | MATCH MARKED BONNET, REMOVED BONNET THOROUGHLY CLEANED ALL VALVE SUB ASSEMBLIES, ADDRESSED ALL PMTS & QC HOLD POINTS |
| -2301-39 PCI TORUS SUCTION CHECK VALVE | PREVENTIVE WR 092543 | N/A | ----- | ----- | PERFORMED INSPECTION ON VALVE ASSEMBLY WITH TS IN ATTENDANCE |
| -2354-500 PCI KEEP FILL CHECK VALVE | PREVENTIVE WR 092545 | N/A | ----- | ----- | REMOVED AND REINSTALLED BONNET FOR TS AND QC |
| -1501-65B PCI B PUMP MIN FLOW CHECK VALVE | PREVENTIVE WR 092550 | N/A | ----- | ----- | PERFORMED INTERNAL INSPECTION ON CHECK VALVE |
| -1501-63A PCI PUMP A DISCHARGE CHECK VALVE | PREVENTIVE WR 092551 | N/A | ----- | ----- | DISASSEMBLED CHECK VALVE FOR 10-10-00 INTERNAL INSPECTION PER DAP 11-25-00 DID CLEANLINESS INSPECTION, REASSEMBLED |
| -0408B6-6 WEST SCRAM DISCHARGE VOLUME HEADERS | PREVENTIVE WR 092586 | N/A | ----- | ----- | INSTALLED HYDROLAZING FLANGES |
| -0408A-6"-C WEST SCRAM DISCHARGE VOLUME HEADERS | PREVENTIVE WR 092587 | N/A | ----- | ----- | DUE TO ELEVATED DOSE RATES, HYDROLAZED SCRAM DISCHARGE VOLUME LINES FOR ALARG CONSIDERATIONS |
| -3316B-20"-L | PREVENTIVE WR 092593 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 092593-01 |
| -3317A-12"-L | PREVENTIVE WR 092595 | N/A | ----- | ----- | BUILT SCAFFOLDING TO GET AT SUPPORT PER DAP 4-12 REV 2 |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|--|
| -3316B-20"-L | PREVENTIVE WR D92596 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE D92596-01 |
| 73-6723 KV CIRCUIT BREAKER SERIAL NO. 0204A2318-012 | PREVENTIVE WR D92629 | N/A | ----- | ----- | PERFORMED NORMAL MAINTENANCE OF BREAKER; FOUND NO ABNORMAL CONDITIONS ON BREAKER |
| 73-6723 KV CIRCUIT BREAKER SERIAL NO. 0204A 2316-012 | PREVENTIVE WR D92638 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER; REPLACED AUX SWITCH |
| 73-6723 KV CIRCUIT BREAKER SERIAL NO. 0204A 2315-008 | PREVENTIVE WR D92648 | N/A | ----- | ----- | REPLACED SWITCH; CUT BAD SECTION OF WIRE OUT AND REPLACED LUG; CLEANED; INSPECTED AND LUBRICATED |
| -29-4 80V MCC BRK FD TO 1501-32B | PREVENTIVE WR D92681 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER; CHANGED AUX CONTACTS |
| -29-1 80V MCC BRK 1501-27B | PREVENTIVE WR D92683 | N/A | ----- | ----- | PERFORMED EQ INSPECTION OF BREAKER |
| -29-1 80V MCC BRK 1501-28B | PREVENTIVE WR D92684 | N/A | ----- | ----- | PERFORMED EQ INSPECTION OF BREAKER |
| -28-7 80 V MCC BRK 1501-21A | PREVENTIVE WR D92685 | N/A | ----- | ----- | PERFORMED EQ INSPECTION OF BREAKER CHANGED AUX CONTACTS |
| -28-1 80V MCC BRK 1501-27A | PREVENTIVE WR D92686 | N/A | ----- | ----- | PERFORMED INSPECTION AND SURVEILLANCE ON BREAKER; CHANGED AUX CONTACTS; |
| -28-1 80V MCC BRK 1501-28A | PREVENTIVE WR D92688 | N/A | ----- | ----- | PERFORMED INSPECTION AND SURVEILLANCE ON BREAKER; CHANGED AUX CONTACTS; |

DEFSHEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LEAK OR OUTAGE NUMBER | MAJORITY CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|-----------------------|----------------|--------|---|
| -28-1 80V MCC BRK 1501-32A | PREVENTIVE WR D92689 | N/A | | | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER |
| -28-1 80V MCC BRK FD TO 501-11A | PREVENTIVE WR D92690 | N/A | | | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, CHANGED AUX CONTACTS |
| -1517-22 MUBBER #2-1517-22 SERIAL NO. 12764, DRAWING M-3208-06 | PREVENTIVE WR D92704 | N/A | | | REMOVED AND REINSTALLED TRAVELER PER FCII TRAVELER D92704-01 |
| -1404-01 MUBBER #2-1401-01 SERIAL NO. 12736 DRAWING NO. M-3209-21 | PREVENTIVE WR D92705 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D92705-01 |
| UNIT 2 A AND 2B RPS MC SET OUTPUT BREAKERS | PREVENTIVE WR D92882 | N/A | | | COMPLETED PER WMP AND TRAVELER |
| -28-1/2-1501-19A 80V MCC BRK FD TO 1501-19A | PREVENTIVE WR D92890 | N/A | | | REMOVED BREAKER, CLEANED CONTACTS, REPLACED AUX CONTACTS |
| -28-1 80V MCC BRK FD TO 1501-13A | PREVENTIVE WR D92891 | N/A | | | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, CHANGED AUX CONTACTS |
| -252-284B BUS 28 FEED TO MCC 28-2 | PREVENTIVE WR D93050 | N/A | | | INSPECTED BREAKER, REPLACED THREE LEAKING DASHPOTS |
| -29-4 80V MCC BRK FD TO 501-20B | PREVENTIVE WR D93076 | N/A | | | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, CHANGED AUX CONTACTS |
| -29-4 80V MCC BRK FD TO 1501-38B | PREVENTIVE WR D93077 | N/A | | | PERFORMED INSPECTION & MAINTENANCE OF BREAKER, CHANGED AUX CONTACTS |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LEAK OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---------------------------------------|-------------------------|-----------------------|-------------------|--------|---|
| -29-4 80V MCC BRK FD TO 1501-5D | PREVENTIVE WR D93078 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, CHANGED AUX CONTACTS |
| -29-4 80V MCC BRK 1501-5C | PREVENTIVE WR D93079 | N/A | ----- | ----- | PERFORMED EQ INSPECTION OF BREAKER |
| -28-1 80V MCC BRK FD TO 1501-5B | PREVENTIVE WR D93086 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER |
| -28-1 80V MCC BRK FD TO 1501-5A | PREVENTIVE WR D93087 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER |
| -28-1 80V MCC BRK FD TO 1501-38A | PREVENTIVE WR D93089 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER |
| -28-1 80V MCC BRK FD TO 501-20A | PREVENTIVE WR D93090 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, CHANGED AUX CONTACTS |
| 80V MCC BRK FD 80V 1501-22A | PREVENTIVE WR D93095 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER, REPLACED AUX CONTACTS |
| -0202-7A 80V 2-0202-7A | PREVENTIVE WR D93140 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER SPACERS, FOUND NONE |
| -0202-7B 80V 2-0202-7B | PREVENTIVE WR D93141 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER SPACERS, FOUND NONE |
| -0205-2-4 | PREVENTIVE WR D93144 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER SPACERS AND FOUND NONE, IS INSTALLED LIMIT SWITCH |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | HALF-CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|------------|--------|---|
| 2-0220-1 MOV 2-0220-1 | PREVENTIVE WR D93145 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER SPACERS AND FOUND NONE |
| 2-1301-10 | PREVENTIVE WR D93147 | N/A | ----- | ----- | FOUND FIBER SPACERS; REMOVED SPACERS AND REBALANCED TORQUE SWITCH |
| 2-1501-13A MOV 2-1501-13A | PREVENTIVE WR D93150 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER WASHERS; FOUND NONE |
| 2-1601-57 MOV 2-1601-57 | PREVENTIVE WR D93152 | N/A | ----- | ----- | CHECKED FOR FIBER WASHERS ON TORQUE SWITCH; NONE FOUND |
| 2-3702 | PREVENTIVE WR D93154 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER WASHERS; FOUND NONE |
| 2-3703 MOV 2-3703 | PREVENTIVE WR D93155 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER SPACERS; FOUND NONE |
| 2-3706 | PREVENTIVE WR D93156 | N/A | ----- | ----- | INSPECTED TORQUE SWITCH FOR FIBER SPACERS; NONE FOUND |
| 2-0220-2 | PREVENTIVE WR D93157 | N/A | ----- | ----- | REMOVED LIMIT SWITCH COMPARTMENT COVER AND INSPECTED TORQUE SWITCH; NO FIBER SPACERS FOUND NONE |
| 2-6715-224 RD LPCI PP 4KV CUBICLE | PREVENTIVE WR D93207 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON CUBICLE; REPLACED AUX SWITCH |
| 2-6715-223 RA REACTOR CLEAN UP PUMP 4KV CUBICLE | PREVENTIVE WR D93211 | N/A | ----- | ----- | CLEARED AND LUBRICATED CUBICLE; REPLACED JACKNUT IN CUBICLE WITH NEW; REPLACED AUX SWITCH AND POSITION SWITCH |

PRESTEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LEAK OR OUTAGE NUMBER | MAJORITY MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|-----------------------|----------------------------|--------|--|
| SCRAM PILOT SOLENOIDS | PREVENTIVE WR D93228 | N/A | | | VALVES WERE REBUILT AND TESTED PER PROCEDURE, NEW COILS INSTALLED IN VALVES K9, F8 AND W5 |
| 20-1502 20 LPCI PUMP | CORRECTIVE WR D93241 | N/A | | | CLEANED ALL COMPONENTS IN DIRTY METER, INSTALLED NEW BEARING, PERFORMED DPM 040-32 |
| VARIOUS CLASS 1, 2 AND 3 PIPING WELDS | PREVENTIVE WR D93346 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGES D93346-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21 |
| VARIOUS EXT STM, REACTOR FEED, COND. BOOSTER, FDMTR HEATING AND DRAIN, SOC PIPING | PREVENTIVE WR D93350 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGES D93350-01, 02, 03, 04, 05, 06, 07 |
| 2-2202-73B UNIT 2 ANALOG TRIP CARDS | PREVENTIVE WR D93366 | N/A | | | REMOVED ROSEMOUNT CARDS FROM PANEL 2202-73A AND B, RECORDED SERIAL NOS. REINSTALLED CARD AND VERIFIED OPERABILITY |
| 2A-1503A 2A LPCI HEAT EXCHANGER CHANGER | PREVENTIVE WR D93390 | N/A | | | PERFORMED HYDROS PER DMP 1506-02 REV. |
| 2-1302 U-2 150 CONDENSER VENT | PREVENTIVE WR D93429 | N/A | | | INSTALLED FLYWOOD COVER ON ISO CONDENSER VENT LINE, REMOVED FLYWOOD COVER AFTER ALL ACTIVITIES ASSOCIATED WITH ISO CONDENSER ARE COMPLETED |
| 2-1302 U-2 150 CONDENSER | PREVENTIVE WR D93430 | N/A | | | REPLACED MANWAY COVER WITH NEW GASKET COVER |
| RECIRC 'A' LOOP DECON FLANGE | PREVENTIVE WR D93566 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D93566-01 |
| RECIRC B LOOP DECON FLANGE | PREVENTIVE WR D93567 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D93567-01 |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|--|
| 2-203-3A, 4A,B,C,D,E,F,G & H SAFETY VALVES | PREVENTIVE WR D93640 | N/A | ----- | ----- | INSTALLED ALL GAGES ON SAFETY VALVES ALSO INSTALLED AND TIGHTENED SP AND TR AT 600 PSIG, THEN REMOVED ALL GAGES ON SAFETY VALVE |
| HYDRO JUMPER | PREVENTIVE WR D93641 | N/A | ----- | ----- | REMOVED PIPE CAPS AND INSTALLED JUMPER HOSE AFTER HYDRO REMOVED HOSES AND FITTINGS AND REPLACED PIPE CAPS |
| HYDRO JUMPER | PREVENTIVE WR D93643 | N/A | ----- | ----- | INSTALLED JUMPERS, REPLACED PIPE CAPS AND TIGHTENED SAME |
| HEISE GAUGE | PREVENTIVE WR D93710 | N/A | ----- | ----- | CHECKED CALIBRATION OF 2000 PSI GAUGE PRIOR TO HYDRO, GAUGE CALIBRATION OK |
| HEISE GAUGE | PREVENTIVE WR D93711 | N/A | ----- | ----- | CALIBRATED AND INSTALLED TEST GAUGE OK-25 FOR SURV DOS 1100-3, UPON COMPLETION THE GAUGE WAS REMOVED AND THE CALIBRATION WAS CHECKED TO BE OK |
| 2-1599-80C VALVE 2-1599-80C U-2 CCSW COOLER REVERSE VALVE | PREVENTIVE WR D93953 | N/A | ----- | ----- | MANUALLY OPERATED VALVE |
| 2-1502-C 2C LPGI MOTOR | CORRECTIVE WR D93995 | N/A | ----- | ----- | CLEANED METER, INSTALLED NEW BEARINGS PERFORMED DMP 040-32 |
| 2-00-MISC AUX STEEL | PREVENTIVE WR D94148 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE D94148-01 |
| 2-1501-28A | PREVENTIVE WR D94196 | N/A | ----- | ----- | TESTED MOV PER DEP 0040-10 |
| 2A-1107 (2-1100A) 2A SBLC ACCUMULATOR | PREVENTIVE WR D94289 | N/A | ----- | ----- | REMOVED ACCUMULATOR, TESTED BLADDER, IT FAILED, REPLACED BLADDER |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LEK OR OUTAGE NUMBER | MAJORITY CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|----------------|--------|--|
| 2-220-52 30 2-220-52 | PREVENTIVE MR D94487 | N/A | | | CLEANED LIMITS AND CONTACTS, REINSTALLED |
| 2-220-51 30 2-220-51 | PREVENTIVE MR D94488 | N/A | | | CLEANED LIMITS AND CONTACTS, REINSTALLED |
| 2-220-53 30 2-220-53 | CORRECTIVE MR D94553 | N/A | | | INSTALLED NEW RELAY |
| 2-220-54 30 2-220-54 | PREVENTIVE MR D94559 | N/A | | | CLEANED AND LUBRICATED CIRCUIT REPLACED POSITION SWITCH AND AUX SWITCH |
| 2-220-56 30 2-220-56 | PREVENTIVE MR D94561 | N/A | | | REPLACED LUG ON WIR #2 OF AUX SW, STRAIGHTENED BENT S4 LINKAGE |
| 2-1101-5A 30 2-1101-5A LOCAL STATION | CORRECTIVE MR D94786 | N/A | | | FOUND SCREW LOOSE IN SOCKET, REMOVED THREADS IN SOCKET AND UPGRADED LUGS AND REPLACED THE BULB |
| 2-22353 30 2-22353 | PREVENTIVE MR D94855 | N/A | | | ALL 15 SNIPPERS PASSED FUNCTIONAL TESTING PER DYS 020-2 AND FOUR MONTHS ENTERTECH PROCEDURE FA 93707 |
| 2-2352 30 2-2352 | CORRECTIVE MR D94887 | N/A | | | REPLACED TRANSMITTER 2-2353 WITH NEW |
| 2-2352 30 2-2352 | CORRECTIVE MR D94889 | N/A | | | INSTALLED NEW TRANSMITTER PER WORK INSTRUCTIONS AND STATION TRAVELER |
| 2-2352 30 2-2352 | PREVENTIVE MR D94961 | N/A | | | INSTALLED REACTOR HEAD AND REACTOR INSULATION PER DMP 200-34, 5800-3, 200-10 |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|-------------------|--------|--|
| D-2 REACTOR ASSEMBLY | PREVENTIVE WR D94963 | N/A | ----- | ----- | REMOVED CATTLE CHUTE, INSTALLED SEPARATOR AND DRYER |
| D-2 REACTOR HEAD | PREVENTIVE WR D94965 | N/A | ----- | ----- | INSTALLED AND REMOVED D2 REACTOR HEAD TO SUPPORT THE CHEMICAL DECON |
| D-2 CCSM VAULT ROOM DOOR | PREVENTIVE WR D94966 | N/A | ----- | ----- | INSPECTED PINS, GEARS AND GREASE FOR CCSM VAULT DOOR, DID VISUAL INSPECTION OF SEAL SURFACE ON DOOR, NO PROBLEMS |
| 2-1501-50 | PREVENTIVE WR D95021 | N/A | ----- | ----- | INSTALLED GREASE KIT PER MMP AND TRAVELER |
| 2-2301-49 MDU 2301-49 OPERATOR | PREVENTIVE WR D95051 | N/A | ----- | ----- | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| 2-1501-21A | PREVENTIVE WR D95161 | N/A | ----- | ----- | DISASSEMBLED, INSPECTED AND REPAIRED 1501-21A VALVE PER MMP AND TRAVELER |
| 2-2301-8 MD-2-2301-8 OPERATOR | PREVENTIVE WR D95224 | N/A | ----- | ----- | INSPECTED GREASE, FOUND GREASE AND GREASE LEVEL TO BE ACCEPTABLE |
| H-3202-33 ADJUSTABLE SPRING SUPPORT | PREVENTIVE WR D95258 | N/A | ----- | ----- | ASSURED LFCI LINE FULL OF WATER RESET SPRING CAN TO APPROPRIATE SETTING PER STATION TRAVELER |
| H-3208-14 SUPPORT H-3208-14 | PREVENTIVE WR D95259 | N/A | ----- | ----- | INSTALLED LOCKING NUT ON BOTTOM OF HANGER |
| 2-250-58A INGUARD FEEDWATER CHECK | PREVENTIVE WR D95269 | N/A | ----- | ----- | DISASSEMBLED CHECK VALVE, MACHINED BUNNET AND BLUE CHECK WAS ACCEPTABLE REPLACED O-RING |

DRESHER UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|-------------------------|-------------------------|----------------------|-------------------|--------|--|
| 2-2301-71 | CORRECTIVE MR D95283 | N/A | | | PADS 90-57, CLEANED PARTS AND LAFFED SEAT, NO INTERNALS AVAIL. EXCEPT SPRING AND GASKET, REPLACED BOTH & REPACKED WITH GRAFOIL PACKING |
| 2-2301-72 | CORRECTIVE MR D95284 | N/A | | | SEALED ENDS OF SPARE CONDUCTORS IN X-20288 FENESTRATION (DRYWELL SIDE) WITH APPROPRIATE RAY CHEM KITS |
| M-3209-04 | CORRECTIVE MR D95301 | N/A | | | LOOSENED BOLTING ON HANGER ROD AND ADJUSTED SPRING CAN TO 1/4" LEADING FROM TOP OF THE CAN POINTER TO THE TOP OF SCALE OPENING, RETIGHTENED SOLLTING |
| M-11630-84 | CORRECTIVE MR D95302 | N/A | | | ADJUSTED SUPPORT |
| 2-5606A-03 | PREVENTIVE MR D95305 | N/A | | | REPLACED WORM PER MMP AND TRAVELER REPLACED MOTOR/BEAR KEY, BALANCED TORQUE SWITCH |
| 2-1599-13B | CORRECTIVE MR D95334 | N/A | | | DISCONNECTED SNUBBER FROM 'A' MOIST SEP TANK, STAKED THE SPHERICAL BEARING ON BOTH SIDES 3 TURNS AT EQUAL DISTANCE THEN REINSTALLED SNUBBER |
| 2-1599-13B | PREVENTIVE MR D95366 | N/A | | | DISASSEMBLED, TESTED, REINSTALLED VALVE WITH NEW GASKETS |
| 2-1599-13A | PREVENTIVE MR D95367 | N/A | | | REMOVED, TESTED, CLEANED, REINSTALLED RELIEF VALVE WITH NEW GASKETS |
| CSR SUPPORT M-11640-123 | PREVENTIVE MR D95399 | N/A | | | REPAIRED SUPPORT PER MMP & TRAVELER |
| 2-1599-13A | CORRECTIVE MR D95414 | N/A | | | FOUND VALVE FAILED, DISASSEMBLED AND CLEANED ALL PARTS AND REINSTALLED |

DEESSEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|-----------|-----------------------|----------------------|-------------------|--------|-------------------|
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|---------------------------|-------------------------|-----|--|--|---|
| 2-1501-5A MOV2-1501-5A | PREVENTIVE WR 095431 | N/A | | | INSTALLED NEW SPENDING PACK PER AMP APP TRAVELER ALSO ADJUSTED TRIPPER FINGER PER DMF040-16 |
|---------------------------|-------------------------|-----|--|--|---|

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|---|-------------------------|-----|--|--|---------------------------------------|
| M-1164D-284 CCSW SUPPORT M-1164D-284 | PREVENTIVE WR 095439 | N/A | | | RESET COLD LOAD SETTING ON SPRING CAR |
|---|-------------------------|-----|--|--|---------------------------------------|

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|-----------------------------|-------------------------|-----|--|--|--|
| M-1164D-283 CCSW SUPPORT | PREVENTIVE WR 095440 | N/A | | | TIGHTEN NUT ONE FULL ENGAGEMENT AND SET CAN TO 1510 POUNDS |
|-----------------------------|-------------------------|-----|--|--|--|

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|-------------------------------------|-------------------------|-----|--|--|---|
| M-1151D-3 HPCI SUPPORT M-1151D-3 | PREVENTIVE WR 095441 | N/A | | | INSURED SYSTEM TREATED AND TREATATION ON PIPE PRIOR TO MAKING ADJUSTMENTS. SPRING CANS WERE SET APPROX. AT 1200 LB. READJUSTED BOTH SPRING CANS TO 1700 LBS |
|-------------------------------------|-------------------------|-----|--|--|---|

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|-------------------|-------------------------|-----|--|--|-------------------------|
| MOV 2-1301-10 BKR | CORRECTIVE WR 095445 | N/A | | | REPLACED BRUKER BREAKER |
|-------------------|-------------------------|-----|--|--|-------------------------|

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|--|-------------------------|-----|--|--|--|
| RV-2-1529-13C 2C LPCI PUMP SUCTION RELIEF VALVE | PREVENTIVE WR 095459 | N/A | | | DISASSEMBLED, CLEANED, TESTED, REASSEMBLED VALVE |
|--|-------------------------|-----|--|--|--|

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|--|-------------------------|-----|--|--|---|
| RV-2-1599-13D 20 LPCI PUMP SUCTION RELIEF VALVE | PREVENTIVE WR 095460 | N/A | | | DISASSEMBLED, CLEANED, TESTED, REASSEMBLED CHECK RELIEF VALVE |
|--|-------------------------|-----|--|--|---|

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|---|-------------------------|-----|--|--|---|
| M-1151D-166 HPCI SUPPORT M-1151D-166 | PREVENTIVE WR 095475 | N/A | | | TIGHTENED BOLTING ON PLAIL, THEN MOVED SPRING CAN ADJUSTMENT TO 1200 LBS THEN STAKED ROES |
|---|-------------------------|-----|--|--|---|

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|---|-------------------------|-----|--|--|--|
| M-1151D-280 HPCI SUPPORT M-1151D-280 | PREVENTIVE WR 095475 | N/A | | | TIGHTENED ALL BOLTING TO ENSURE THERE IS A FULL ROT ENGAGEMENT |
|---|-------------------------|-----|--|--|--|

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|---|-------------------------|-----|--|--|------------------|
| M-1164D-110 CCSW SUPPORT M-1164D-110 | PREVENTIVE WR 095480 | N/A | | | REPAIRED SUPPORT |
|---|-------------------------|-----|--|--|------------------|

DESIGN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR DUTY SE NUMBER | FAILURE CAUSE | RESULT | CORRECTIVE ACTION |
|--|--------------------------|-----------------------|---------------|--------|---|
| M-1164D-112 CCSW SUPPORT M-1164D-112 | PREVENTIVE MR 0955481 | N/A | | | LOOSEND LOCK W/IN ADJUSTED SWAY TO ADHERE A PIN TO PIN NEARBY PARTS. TRIGGER PULL TO STOP HILL TO AVOID FULL THREAD ENGAGEMENT |
| FEN MK31 CCSW VAULT PENETRATION MK31 | PREVENTIVE MR 095552 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK34 CCSW VAULT PENETRATION MK-34 | PREVENTIVE MR 095553 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK 35 CCSW VAULT PENETRATION MK35 | PREVENTIVE MR 095554 | N/A | | | SCAFFED OLD SEALANT OFF, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK33 CCSW PUMP VAULT PENETRATION MK 33 | PENETRATION MR 095555 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK27 CCSW VAULT PENETRATION MK27 | PREVENTIVE MR 095556 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK 28 CCSW PUMP VAULT PENETRATION MK28 | PREVENTIVE MR 095557 | N/A | | | CLEANED OFF OLD SEALANT, SCABBED AND WASHED CLEAN, APPLIED NEW SEALANT RETESTED |
| FEN MK29 CCSW VAULT PENETRATION MK29 | CORRECTIVE MR 095558 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK38 CCSW VAULT PENETRATION MK38 | PREVENTIVE MR 095559 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |
| FEN MK32 CCSW VAULT PENETRATION MK32 | PREVENTIVE MR 095560 | N/A | | | REMOVED, CLEANED, REAPPLIED SEALANT, RETESTED OK |

GRESSEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|--|
| CRD TRANSFER PIT HATCH | PREVENTIVE WR D95569 | N/A | ----- | ----- | OPENED AND CLOSED TRANSFER PIT HATCH REPLACED BASKETS |
| 2-29-7 2-1501-218 480V MCC BRK | PREVENTIVE WR D95575 | N/A | ----- | ----- | PERFORMED INSPECTION & MAINTENANCE OF BREAKER; CHANGED AUX CONTACTS |
| 2-29-7 480V MCC BRK FD ID 1501-22B | PREVENTIVE WR D95576 | N/A | ----- | ----- | PERFORMED INSPECTION AND MAINTENANCE ON BREAKER; CHANGED AUX CONTACTS |
| 2-1501-18A MOV-2-1501-18A | PREVENTIVE WR D95586 | N/A | ----- | ----- | INSTALLED NEW SPRING PACK PER MAP AND TRAVELER; INSTALLED NEW GREASE RELIEF KIT PER DMF040-14 REV. 0; INSTALLED TORQUE SWITCH |
| 2-1501-38A MOV 2-1501-38A | PREVENTIVE WR D95604 | N/A | ----- | ----- | REPLACED SPRING PACK WITH NEW |
| 2-130-2 ISO CONDENSER INTERNAL SUPPORTS | CORRECTIVE WR D95630 | N/A | ----- | ----- | REPLACED 2 CAP SCREWS; PAINTED BOTH SIDES OF BOLTING |
| M-11630-260 ISOLATION CONDENSOR LINE 1302-14" | PREVENTIVE WR D95637 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE D95637-01 |
| 2-1001-1B 2-1001-1B SHUTDOWN COOLING SUCTION | CORRECTIVE WR D95638 | N/A | ----- | ----- | REPAIRED VALVE PER MAP TRAVELER |
| 2-1001-1A SHUTDOWN COOLING SUCTION | CORRECTIVE WR D95639 | N/A | ----- | ----- | REPLACED BEARINGS; REPLACED WINDUP SHAFT WITH NEW; INSTALLED GREASE RELIEF KIT AND NEW SPRING PACK; REPAIRED VALVE PER MAP AND TRAVELER |
| 2-1501-5C | PREVENTIVE WR D95688 | N/A | ----- | ----- | REPLACED EXISTING SPRING BACK WITH NEW |

PRESEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------|--------------------|--|
| 2-1501-38B | PREVENTIVE MR D95689 | N/A | | | REPLACED EXISTING SPRING PACK WITH NEW |
| 2-1001-1A | PREVENTIVE MR D95700 | N/A | | | PERFORMED MOV OVERHAUL, REPLACED THERM SWITCH, FLEXIBLE CONDUIT AND FITTINGS |
| 2-1501-22B LPCI NO VALVE | PREVENTIVE MR D95735 | N/A | | | TIGHTERED LOOSE STUDS/NET ASSEMBLY |
| M-11640-273 CONT. COOLING SUPPORT | PREVENTIVE MR D95737 | N/A | | | UPSET AND STAKE THREADS PER WORK INSTRUCTIONS |
| 2-30-MISC 'B' MSL BOOT SEAL | PREVENTIVE MR D95793 | N/A | | | REPLACED BOOT SEAL PER INWALKER |
| PS2-2360 LPCI PUMP SUCTION LOW PRESSURE SWITCH | CORRECTIVE MR D95796 | N/A | | | FOUND STRING IN ADJUSTABLE TRIMMER, CLEANED OUT AND ADJUSTED SWITCH PER DIS 2300-9 |
| 2-1506-16" WELD 16-9C ON 'A' LPCI LINE 21506-16" | PREVENTIVE MR D95848 | N/A | | | COMPLETED WORK PER FCII WORK PACK 400 D95848-01 |
| 2-1404-12 WELD 12-32 ON 'B' CORE SPRAY LINE 2-1404-12 (DISCHARGE) | PREVENTIVE MR D95849 | N/A | | | COMPLETED WORK PER FCII WORK PACK 400 D95849-01 |
| 2-0200 RPV HEAD LUS AT 270 DEGREES | PREVENTIVE MR D95850 | N/A | | | PERFORMED WORK PER FCII HEAVY LOR PACKAGE D95850-02 |
| 2-1501-208 MOV 2-1501-208 | PREVENTIVE MR D95851 | N/A | | | REPLACED OLD SPRING PACK WITH NEW |

DRESDEN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MALFUNCTION CAUSE | RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------------------|--------|--|
| RECIRC RING HEADER WHIP RESTRAINT | PREVENTIVE WR 095869 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095869-01 |
| 2-302-161A SCRAM DISCH VOLUME VENT VALVE | CORRECTIVE WR 095902 | N/A | ----- | ----- | LOOSENED LOCKNUTS AND ROTATED STEM 1 FULL TURN THEN RETIGHTENED LOCKNUTS |
| 2-1501-20A MOV 2-1501-20A | PREVENTIVE WR 095903 | N/A | ----- | ----- | REPLACED SPRING PACK WITH NEW, INSTALLED NEW GREASE RELIEF |
| 2-300-P5 CRD J-8 | PREVENTIVE WR 095904 | N/A | ----- | ----- | INSTALLED NEW BOLTS AND TORQUED TO 350 FT/LBS |
| M-11570-264 REACTOR RECIR RING HEADER SUPPORT #M-11570-264 | PREVENTIVE WR 095923 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095923-01 |
| M-11570-263 REACTOR RECIR RING HEADER SUPPORT #M-11570-263 | PREVENTIVE WR 095924 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095924-01 |
| M-11570-256 REACTOR RECIR RING HEADER SUPPORT #M-11570-256 | PREVENTIVE WR 095925 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095925-01 |
| M-11570-258 REACTOR RECIR RING HEADER SUPPORT #M-11570-258 | PREVENTIVE WR 095926 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095926-01 |
| M-11570-255 REACTOR RECIR RING HEADER SUPPORT #M-11570-255 | PREVENTIVE WR 095927 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095927-01 |
| M-11570-268 REACTOR RECIR RING HEADER SUPPORT #M-11570-268 | PREVENTIVE WR 095928 | N/A | ----- | ----- | COMPLETED WORK PER FCII WORK PACKAGE 095928-01 |

OPERATOR UNIT 2
SAFETY RELATED MAINTENANCE

EQUIPMENT

SAFETY RELATED MAINTENANCE

NATURE OF MAINTENANCE

WORK ORDER NUMBER

CAUSE

MAINTENANCE

WORK ORDER NUMBER

MAINTENANCE

WORK ORDER NUMBER

CAUSE

RESULTS

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22-2024
REACTOR RECIR RING HEADER
SUPPORT #M-11570-257
N/A
PREVENTIVE
MR 095929
N/A
PREVENTIVE
MR 095932
N/A
PREVENTIVE
MR 095933
N/A
PREVENTIVE
MR 095942
2305-M-234
HPCI SUPPORT 2305-M-234
N/A
PREVENTIVE
MR 095949
2305-M-232
HPCI SUPPORT 2305-M-232
N/A
PREVENTIVE
MR 095950
2305-M-222
HPCI SUPPORT 2305-M-222
N/A
PREVENTIVE
MR 095951
2305-M-208
SAFETY RELATED SWAY BRACE PIPE
SUPPORT
N/A
PREVENTIVE
MR 095952
2305-M-228
SAFETY RELATED SWAY BRACE
PIPE SUPPORT
N/A
PREVENTIVE
MR 095954
2305-M-226
SAFETY RELATED SWAY BRACE
PIPE SUPPORT
N/A
PREVENTIVE
MR 095955

COMPLETED WORK PER FULL WORK PACKAGE
095929-01

BROKE UNIONS ON SUPPLY LINES TO RECIR
PUMP SEAL HEAT EXCHANGERS TO VERIFY
HEAT EXCHANGER INTEGRITY

DISCONNECTED, VERIFIED NO-LEAK EXCHANGER
INTEGRITY, RECONNECTED

REMOVED ACCUMULATOR, TESTED BLENDER
WITH IS PRESENT, PASSED

LOOSENED LOCKNUT ON STRUT TIE, TURNED
COUPLING UNTIL A DIMENSION OF 3/16 WAS
OBTAINED, THEN TIGHTENED LOCKNUT

CUT 1-1/8" FROM STUD AND RE-INSTALLER
TO SPECIFICATIONS, TIGHTENED ALL
NUTS AND LOCK NUTS

ADJUSTED ROD TO PROVIDE FULL THREAD
ENGAGEMENT AND RESET SWAY BRACE TO 7/16"

ADJUSTED COLD SETTING ON SWAY BRACE
TO APPLICABLE TOLERANCE 1-1/16"

ADJUSTED LOAD STUD TO PROVIDE FULL
ENGAGEMENT WITH RETAINING NUTS, RE-SET
SWAY BRACE COLD SETTING

ADJUSTED LOAD STUD TO PROVIDE FULL
ENGAGEMENT WITH RETAINING NUTS, RE-SET
THREADED STUD END TO PROVIDE FULL
THREAD ENGAGEMENT

CORRECTIVE ACTION

OPERATOR UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|---|-------------------------|----------------------|-------|--------------------|---|
| M-1163D-82 SAFETY RELATED CONSTANT SPRING PIPE SUPPORT | PREVENTIVE MR D95956 | N/A | | | ADJUSTED SUPPORT |
| 2-1201-1A | PREVENTIVE MR D95962 | N/A | | | ELECTRICALLY DISCONNECTED AND RECONNECTED MOV-2-1201-1A |
| 2-3001A-20" WELD 20-8 ON 'A' MAIN STM LINE 2-3001A-20 | PREVENTIVE MR D95978 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D95978-01 |
| 151 OUTAGE RELATED H-20A & N20B JET PUMP INST NOZZEL | PREVENTIVE MR D95990 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE P/5990-01 |
| 2-300-J2 END J-2 | PREVENTIVE MR D95991 | N/A | | | REMOVED SUPPORT STEEL, TORQUED THE CRO RE/INSTALLED SUPPORT STEEL |
| SRM/IRM CABLES | PREVENTIVE MR D95999 | N/A | | | COMPLETED WORK PER FC II WORK PACKAGE D95999-01, REPLACED EXISTING SRM,IRM CABLES IN IRL U2 DRYWELL |
| M-1164D-87 CCSW SUPPORT | CORRECTIVE MR D96016 | N/A | | | REMOVED SUPPORT AND TOOK ALL MEASUREMENTS AS REQUIRED, TIGHTENED PIPE CLAMP AND ALL OTHER NUTS |
| M-1150D-263 CORE SPRAY SUPPORT | PREVENTIVE MR D96017 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96017-01 |
| M-1164D-117 CCSW SUPPORT | PREVENTIVE MR D96018 | N/A | | | STATE THREADS ON BOTH ENDS OF HORIZONTAL |
| M-1164D-288 CCSW SUPPORT M-1164D-288 | PREVENTIVE MR D96019 | N/A | | | DRILLED SIGHT HOLE IN ROV COUPLING FOLLOWING STEPS IN STATION TRAVELER |

DESIGN UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJORITY CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|----------------|--------------------|---|
| M-1164D-287 CCSM SUPPORT M-1164D-287 | PREVENTIVE MR D96020 | N/A | | | DRILLED SIGHT HOLE IN ROV COUPLING |
| M-1151D-08 ROV CONSTANT SPRING SUPPORT | PREVENTIVE MR D96047 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96047-01 |
| M-1163D-262 SINGLE CONSTANT SPRING SUPPORT M-1163D-262 | PREVENTIVE MR D96048 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96048-01 |
| 2-2599-24A ACAB CHECK VALVE TO TORUS 2-2499-24A | PREVENTIVE MR D96102 | N/A | | | DISASSEMBLED, CHECKED, REASSEMBLED VALVE WITH NEW GASKET |
| 2-2599-238 ACAB CHECK VALVE | PREVENTIVE MR D96103 | N/A | | | DISASSEMBLED, CLEANED, CHECKED, REASSEMBLED VALVE WITH NEW GASKET |
| 2-2599-248 ACAB CHECK VALVE | PREVENTIVE MR D96104 | N/A | | | DISASSEMBLED, CLEANED, CHECKED, REASSEMBLED VALVE WITH NEW GASKET |
| 26 1401 2A CORE SPRAY MOTOR | CORRECTIVE MR D96111 | N/A | | | INSTALLED AND REMOVED BLOCKS FROM UNDER PUMP COUPLING |
| 2-24-33A LFRS CARD 24-33A | CORRECTIVE MR D96124 | N/A | | | RE-ADJUSTED DOWNSCALE SET POINT TO TRIP LEVEL OF 42 POWER PERFORMED DIS 700-21 AND DIP 700-16 |
| 2-0202A-28" 28" RECIRC WELD PSIA-D5 ON LINE 2-0202A-28" | PREVENTIVE MR D96137 | N/A | | | WORK COMPLETED PER WORK PACKAGE 96137 |
| M-1212-07 HPSI SUPPORT | PREVENTIVE MR D96159 | N/A | | | REWORKED SUPPORT PER NUTECH LTR CME-34-091 |

PRECISION UNIT 2
SAFETY RELATED MAINTENANCE

| EQUIPMENT | NATURE OF MAINTENANCE | LER OR OUTAGE NUMBER | MAJORITY CAUSE | MALFUNCTION RESULT | CORRECTIVE ACTION |
|--|-------------------------|----------------------|----------------|--------------------|--|
| 2-0201A-28" A RECIRC DISCHARGE ELBOW FROM M02-0202-5A TO WELD PSIA-D14 | PREVENTIVE WR D96161 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96161-01 |
| 2-0202A-28" A RECIRC SUCTION ELBOW FROM M02-0202-4A TO PSIA-D5 | PREVENTIVE WR D96163 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96163-01 |
| 2-202-5A MOTOR REACTOR HEAD CLG. INSULATED VALVE | CORRECTIVE WR D96166 | N/A | | | REPLACED OLD SEALTITE, LAMDED WIRES ON LS STACK, BUTT SPLICED MOTOR LEADS TO POWER LEADS AND RAY CHEM SAME |
| 2-202-5A MOTOR REACTOR HEAD CLG. INSULATED VALVE | CORRECTIVE WR D96168 | N/A | | | PERFORMED 9 RAYCHEM SPLICES IN THE HP AS PER WORK INSTRUCTION AND DFP 2100-0 |
| 2-202-5A RECIRC PIPING | PREVENTIVE WR D96176 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96176-01 |
| LT2-1626 U-2 TURNS NARROW RANGE LEVEL TRANS | PREVENTIVE WR D96212 | N/A | | | INSTALLED NEW O-RINGS |
| LINE 2-0202A A RECIRC SUCTION ELBOW LOCATED BETWEEN VALVE 202-4A AND WELD PSIA-D5 | PREVENTIVE WR D96228 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96228-01 |
| 2-0204B-2"-L RECIRC PIPING B SUCTION | PREVENTIVE WR D96244 | N/A | | | COMPLETED WORK PER FCII WORK PACKAGE D96244-01 |
| 2-1001-2A U-2 MOV 1001-2A | CORRECTIVE WR D96255 | N/A | | | REMOVED DEFECTIVE TORQUE SWITCH AND REPLACED IT WITH NEW |
| 2-3 ACC CRD HCU ANCHOR BOLTS | PREVENTIVE WR D96272 | N/A | | | PERFORMED TORQUE CHECK HCU ANCHOR BOLTS PER DFP 305-3 |

5.5 Completed Safety Related Modifications (Units 2 and 3)

Only modifications which have been completely closed during December, 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.

| <u>Modification No.</u> | <u>Description</u> |
|-------------------------|--|
| M12-2/3-86-4D | This modification was performed to upgrade the Unit 3 Diesel Generator (D/G) meters (varmeter, wattmeter and frequency meter) on Control Room Panel 903-8 to provide a mirror image with the identical 2/3 D/G meters on the 903-8 panel. The safety evaluation concluded that the margin of safety is not reduced. |
| M12-3-86-19 | This modification replaced the Feedwater Heater and Main Steam Line Drain Valve momentary contact rotary switches from throttle open/closed to seal in open/closed per the Detailed Control Room Design Review (DCRDR) in accordance with NUREG 0737 Supplement 1. The safety evaluation concluded that the margin of safety is not reduced. |
| M12-3-86-24H | This modification rearranged the Core Spray System Control Switches on Unit 3 Control Room Panel 903-3 in a logical order to reflect the system flowpath. This was accomplished in accordance with DCRDR, NUREG 0737 Supplement #1. The safety evaluation concluded that the margin of safety is not reduced. |

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.

5.6.1 Unit 2

| Temporary System Alteration No. | Description | Installation Date | Removal Date |
|---------------------------------|--|-------------------|--------------|
| II-54-90 | This alteration installed a 1 1/2" quick disconnect on the 1" blowout of the 2B Floor Drain Surge Tank (FDST) suction side piping. This was done to provide a temporary means of filling the FDST while the system was out of service. | 12-31-90 | |
| II-57-90 | This alteration installed a temporary hose clamp on a filter seal on a test canister of the High Radiation Sampling System filters pending completion of permanent repairs. The temporary configuration was tested satisfactorily. | 12-20-90 | |
| II-58-90 | The top five (5) courses of free standing block wall outside of the Unit 2 Shutdown Cooling Pump were removed for one operating cycle. The blocks will be re-installed after the D2R13 refuel outage. | 12-29-90 | |
| II-60-90 | The Feedwater Nozzle Temperature Recorder was replaced with a temporary recorder until another new recorder can be installed. The replaced recorder had failed. | 12/30/90 | |

5.6.2 Unit 3

No new temporary system alterations were installed during this reporting period.