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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Dresden Nuclear Power Station, Unit 3
Facility Operating License No. DPR-25
NRC Docket No. 50-249

Subject: Refueling Outage 16 (D3R16) Summary

The purpose of this letter is to provide an update of significant activities completed at the Dresden Nuclear Power Station (DNPS) during the fall 2000 Unit 3 refuel outage. This letter is provided for your information and no response is requested.

Dresden Station completed a refuel outage for Unit 3 (D3R16) in October 2000. Major modifications installed during D3R16 are listed below:

- Core Stability Oscillation Power Range Monitor (OPRM) Modification (Phase 1)
- Removal of the Electro-Hydraulic Control (EHC) 900# Pressure Scram Switches
- Modified Stator Water Cooling Logic to 2 out of 2
- Replaced the Torus to Reactor Building Vacuum Breaker Valves 3-1601-31A and 3-1601-31B
- Upgraded EHC Piping to Reduce Leakage and Added Isolation Capabilities
- Reactor Recirculation MG Set Lube Oil Pump Auto Start of the Standby Pump Circuitry
- Replaced the Old Polychlorinated Biphenyl (PCB) Filled U3 Main Generator Neutral Grounding Transformer

In addition to the above modifications, the following materiel condition improvements were also accomplished during this outage:

- Replaced 31 Horizontal Main Condenser Bellows
- Repaired Various Feedwater Heater Shell, Extraction and Steam Inlet Nozzles
- Replaced Moisture Separator Vanes
- Relined Condensate Demineralizer Tanks A, B, C, and D
- Replaced the A Drywell Cooler Coil
- Replaced the F and G Drywell Cooler Fan Assemblies
- Replaced 6 LPRM Strings

A001

- Replaced 20 Control Rod Drive Mechanisms
- Replaced Numerous Feedwater Heater Drain Valves
- Replaced the Circulating Water Flow Reversing Valve Seats

The Attachment to this letter provides a summary of applicable NRC commitments completed during the refuel outage.

Although many improvements were made during this outage, several challenges did occur. Specifically, significant effort was spent in resolving local leak rate testing (LLRT) failures that occurred during the outage. A total of three (3) main steam isolation valves, four (4) feedwater containment isolation check valves, one (1) main steam line drain valve and two (2) torus to reactor building vacuum breakers were identified to have unacceptable as-found leakage. Appropriate corrective actions were taken for these failures and all applicable reporting requirements were met.

If you have any further questions regarding this matter please contact Mr. Dale Ambler, Regulatory Assurance Manager, at (815) 942-2920 extension 3800.

Respectfully,

Preston Swafford

Preston Swafford
Site Vice President
Dresden Nuclear Power Station

Attachment

cc: Regional Administrator, Region III
Senior Resident Inspector, Dresden Nuclear Power Station

ATTACHMENT
SUMMARY OF D3R16 OUTAGE WORK ON REGULATORY RELATED ITEMS

References	Subject	Discussion
IEB 96-03	Potential Plugging of Emergency Core Cooling System (ECCS) Suction Strainers by Debris in Boiling-Water Reactors	The Unit 3 torus was de-sludged to reduce the potential of clogging the ECCS suction strainers. All required calculations and modifications to support suction strainer changes have been completed at Dresden Nuclear Power Station Units 2 and 3.
GL 94-02	Long Term Solutions And Upgrade Of Interim Operating Recommendations For Thermal-Hydraulic Instabilities In Boiling Water Reactors	Unit 3 Core Stability Modification was installed per Design Change Package (DCP) 9600210. Modification is to be fully implemented after the next refueling outage (D3R17).
SQUG Unresolved Safety Issue A-46	Resolution of SQUG Outliers	DCPs 9900293 to replace the Dresser pressure controller and 9900196 to replace mercoid type pressure switches were installed.
LER 2-98-003, "High Pressure Coolant Injection System Declared Inoperable Due to Closure of the Turbine Stop Valve Above Seat Drain Valve Caused by Design Deficiency of the Operator Diaphragm"	Replacement of valve diaphragms	Unit 3 "at-risk" outage related diaphragms were replaced via work requests (WRs) 990052163, 980050332, 980050334, 980051394, 980053865, 980053869, 980050331, 980050333, 980050337, 990078104, 980053867, and 990052165.