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Downers Grove, Illinois 60515

May 18, 1993

Dr. Thomas E. Murley, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Attn: Document Control Desk

Subject: Dresden Nuclear Power Station Units 2 & 3
Isolation Condenser Upgrade Status of Installation
NRC Docket Nos. 50-237 and 50-249

Reference: (a) Letter from J.A. Silady to A.B. Davis dated January 31, 1990, entitled, "Status Report Concerning Improvements to Isolation Condenser Makeup Systems"

Dear Dr. Murley:

Reference (a) presented a plan to modify the Isolation Condenser fill system to ensure reliable make-up of clean demineralized water to the Isolation Condenser during loss of offsite power (LOOP) events. The plan referenced a tentative completion schedule. This letter provides an update to that schedule.

The modification consists of two major upgrades. The first upgrade provides a source of safety-related power to the motor-operated fill valves supplying clean demineralized water to the shell side of the Isolation Condenser. The second upgrade includes the installation of two new diesel-driven clean demineralized makeup water pumps for the Isolation Condenser.

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Reference (a) indicated that the tentative plan was to complete these modifications for Unit 2 during the D2R13 refueling outage, and for Unit 3 during D3R13. The Unit 3 modifications remain on schedule. The Unit 2 modifications will be installed per the alternative plan discussed below.

1) The MOV fill valves will be provided with a safety-related DC source of power that is available in a LOOP scenario. This 250 Volt DC bus cannot be taken out of service to perform wire terminations during unit operation; therefore, installation is scheduled for D2R14.

   This change is due to a modification design review, which indicated that a more detailed analysis would be required to justify additional loading on the new motor control center bus location. For the next Unit 2 operating cycle, the MOV power supply will be returned to the original motor control center bus (29-3). After the current refueling outage on Unit 2, the modification will be revised to provide DC power to the MOV fill valve.

   The same revision will be made for the Unit 3 modification; this change will not impact the Unit 3 implementation schedule of D3R13.

2) The new diesel-driven makeup pumps will be available for operation by September 30, 1993.

   The installation of the pumps, piping, and support systems is near completion. However, efforts are being made to reduce the initial piping loads on the makeup pump nozzles, by refining the support system and piping alignment. The efforts are deemed necessary due to maintenance concerns noted with the component cooling service water (CCSW) pumps related to high piping loadings on the pump nozzles.

   Additionally, a number of unanticipated discrepancies have been identified with the diesel engine control panels, which must be resolved prior to startup of the new makeup system. Additional technical reviews and supplemental testing of the vendor supplied panels identified these discrepancies.

The 10 CFR 50.59 Safety Evaluation was reviewed for the installed portions of the modification to ensure that all interactions with existing equipment, systems, and structures have been appropriately addressed, prior to Unit 2 startup.

Delaying the modification for Unit 2 has no safety significance, since operability of the Isolation Condenser will not be affected. The purpose of the modification is to minimize the release of radioactive steam through the Isolation Condenser vent. Control Room operators will continue to be able to admit makeup water to the Isolation Condenser using the clean demineralized water fill valve. During a LOOP event, the clean demineralized makeup water supply will be unavailable, since the existing clean demineralized water pumps and isolation condenser fill valve are powered from load-shed buses.

After the new makeup pumps are operational in September of 1993, the operators will be able to admit clean demineralized water to the Unit 2 Isolation Condenser using the new makeup pumps. During a LOOP scenario, the clean demineralized fill valve will be unavailable, but since the new makeup pumps will be available, clean demineralized water will be available for admission to the Isolation Condenser by local manual operation of the fill valve.

The entire Unit 2 modification, including the power supply change for the clean demineralized fill valve, will be operational following startup from D2R14. At that time, the Control Room operators will be able to admit clean demineralized water to the Isolation Condenser using the new makeup system and the fill valve during a LOOP scenario.

If there are any questions concerning this matter, please contact this office.

Sincerely,

Peter L. Piet
Nuclear Licensing Administrator

cc: A. B. Davis, Regional Administrator-RIII
J.F. Stang, Project Manager-NRR
M.N. Leach, Senior Resident Inspector-Dresden

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