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September 18, 1989

Mr. A. Bert Davis
 Regional Administrator
 U.S. Nuclear Regulatory Commission
 Region III
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Subject: Dresden Nuclear Power Station Units 2 and 3
 Status Report Concerning Improvements to
 Isolation Condenser Makeup System
 NRC Docket Nos. 50-237 and 50-249

- References (a): Letter from J.A. Silady to A.B. Davis dated July 21, 1989, transmitting status of CECo review of alternate water sources for the Isolation Condensers at Dresden Units 2 and 3
- (b): Letter from W.D. Shafer to Cordell Reed dated June 16, 1989, transmitting NRC Inspection Report Nos. 50-237/89012 and 50-249/89011.

Mr. Davis:

This letter provides an update concerning our evaluation of long term improvements to the Dresden Units 2 and 3 Isolation Condenser shell side clean demineralized water supply systems. These improvements have been divided into three phases.

Phase one, as stated in Reference (a), was to implement Isolation Condenser operating procedure revisions to restrict the use of condensate storage water for shell side makeup. These revisions, which involve use of service water for Isolation Condenser shell side makeup and/or use of alternate methods for reactor pressure control such as the High Pressure Coolant Injection system and/or the Main Steam Relief Valve, were implemented on May 26, 1989.

A second phase design improvement is a power supply modification that is currently under review. This modification involves supplying 480V AC, diesel backed power to a clean demineralized makeup pump and the associated Isolation Condenser shell side motor-operated clean demineralized water fill valves.

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The third and final phase currently undergoing conceptual design consists of installing two diesel driven pumps for supply of clean demineralized water to the shell side of the Isolation Condensers from the clean demineralized water storage tank. The pumps are intended to be housed in an enclosure attached to the south wall of the Unit 2 Reactor Building. This alternative provides several advantages over the original emergency power makeup source. These include:

1. Elimination of contaminated condensate storage water as a source of Isolation Condenser shell side makeup during loss of offsite power conditions;
2. Increased clean demineralized water makeup flow capacity;
3. Negligible increase on Station emergency electrical power loading; and
4. Use of an existing large volume of clean demineralized water which reduces installation costs.

The phase two and three design concepts both could potentially impact the existing 10 CFR 50, Appendix R safe shutdown analysis. Prior to construction of either of the above phases, a thorough safe shutdown review will be conducted. The phase two design concept is tentatively scheduled for installation by the end of the first quarter of 1991. The installation is predicated on completion of the safe shutdown analysis review and satisfactory resolution of any Appendix R issues identified. Installation of phase three is tentatively scheduled for the Unit 2 D2R13 and Unit 3 D3R13 refuel outages. The tentative start dates for these outages are February, 1992 and October, 1992, respectively.

The status of our review of the phase two and three design concepts will be provided to your attention within two months.

Please contact this office should further information be required.

Very truly yours,



J.A. Silady
Nuclear Licensing Administrator

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cc: B.L. Siegel - Project Manager, NRR
S.G. DuPont - Senior Resident Inspector - Dresden