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Regulatory Docket File

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October 1, 1974

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Mr. Dennis L. Ziemann, Chief
Operating Reactors - Branch 2
Directorate of Licensing
Office of Regulation
U.S. Atomic Energy Commission
Washington, D.C. 20545

Subject: Dresden Station Units 2 and 3 and Quad-Cities Station Units 1 and 2 High Energy Line Break Analyses, AEC Dkts 50-237, 50-249, 50-254 and 50-265.

Dear Mr. Ziemann:

The subject analyses were submitted to you in Dresden Station Special Report No. 37 and Quad-Cities Station Special Report No. 12. The analyses were performed in accordance with your criteria, and on the bases of your acceptance criteria certain postulated line breaks would result in unacceptable consequences. These "critical" breaks were identified in Section 14 "Summary and Conclusion" of each Special Report.

As indicated in discussions with you and your staff, if we are ordered to "backfit" corrective measures to comply fully with your high energy line break acceptance criteria, the schedule for the necessary plant modifications are the following:

Dresden Unit 2 - 1975 Refueling Outage

Dresden Unit 3 - Earliest - 1975 Refueling Outage
Latest - 1976 Refueling Outage

Quad-Cities Unit 1 - Earliest - 1975 Refueling Outage
Latest - 1976 Refueling Outage

Quad-Cities Unit 2 - 1976 Refueling Outage

On the basis of discussions with your staff, it is our understanding that you are considering interim measures to provide added assurance against occurrence of the critical breaks identified in the Special Reports. These measures may include a requirement

to conduct or document previously conducted volumetric examinations of the circumferential weld joints at "critical" break locations, and at least a monthly program of surveillance to detect leakage at the critical break locations. As discussed in Section 2.0 "Quality Control Program..." of the Special Reports, volumetric examination of the welds in the affected piping systems was conducted as part of the quality control program during plant construction. The construction quality control records for these volumetric examinations are being reviewed to ensure that inspection reports can be easily traced to the circumferential weld joints at "critical" break locations. This review has been completed at Quad-Cities Station and the results are reported in Special Report No. 12, Supplement No. 20. The review is continuing at Dresden Station, and until traceability is verified, it can not be stated that complete and adequate documentation of the volumetric examinations of all circumferential welds at "critical" break locations exists. The verification of traceable records at Dresden Station has been delayed, because the individuals doing the verification have been occupied with higher priority projects. It is now expected that verification of the records will be completed by October 11, 1974, and a supplement to the Dresden Station Special Report will be provided describing the documentation available to verify the inspections.

Technical Specifications changes are being prepared which will require at least monthly surveillance of the "critical" areas of the high pressure piping systems by visual observation for signs of leakage.

Very truly yours,

J. S. Abel
Nuclear Licensing Administrator
Boiling Water Reactors