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January 5, 1976

Director of Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Reference: Quad-Cities Nuclear Power Station
Docket No. 50-265, DPR-30 Unit 2
Abnormal Occurrence Report No. AO 50-265/75-38

The purpose of this letter is to provide you with further information concerning the removal of the Quad-Cities Unit 2 recirculation pump discharge valve bypass piping during the recent core maintenance outage. The removal was brought about as a result of crack indications in the "B" loop bypass line upper weld-o-let. This occurrence had been reported in Abnormal Occurrence Report No. AO 50-265/75-38.

Based on evaluation of the various alternatives available and the results of a special test performed on Quad-Cities Unit 1, the existing discharge bypass piping and motor operated bypass valve were removed. Sixteen inch long stainless steel spool pieces were installed at both weld-o-lets on each recirculation loop with caps welded on the outboard end of the spool pieces. Piping work on the "B" loop was completed on October 31, 1975 and the "A" loop was finished on November 1. All Non-Destructive Testing was completed on November 1, and a hydrostatic test was performed in conjunction with the reactor pressure vessel hydro on November 4 and 5.

The details of the piping repair and replacement are given in work package 4031-75 and the line removal is documented in modification package M-4-2-75-27. A Reactor Recirculation Piping Stress Analysis from Sargent & Lundy Engineers, Inc. and a Hanger Analysis from General Electric Company are included in this package. On-Site and Off-Site Reviews have concurred with this change and safety evaluation. Region III of the NRC has reviewed the modification and repair program and found it to be satisfactory. This review was conducted on November 6, 1975 and is documented by IE Inspection Report No. 050-265/75-23.

A new wiring scheme was developed to eliminate the control and interlock function of the removed recirculation discharge bypass valves, and to provide for a recirculation pump trip upon >10% closure from full open of the pump discharge valve. This change is included in the modification package for the line removal and work details are given in work package 4150-75.

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