

Commonwealth Edison Company

QUAD-CITIES NUCLEAR POWER STATION

Address Reply to:

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FAP-72-35

May 8, 1972

Mr. F. J. Block
Acting Director, Directorate of Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Block:

REF: Quad-Cities Nuclear Power Station - Unit 2
DPR-30 - Appendix A - Section 6.6.B.1

The following reports the observation that lead to the discovery and removal of a heliarc welding outfit in a jet pump riser for the Unit 2 reactor. This incident is reported as No. 2-72-4.

Description of Incident

Jet pumps flow comparison checks were being performed on the Unit 2 reactor on April 28, 1972 as a final check prior to installation of the steam separator, steam dryer, and reactor vessel head. This test requires that both reactor recirculation pumps be running at the same speed with the recirculation header crosstie valves closed. The indicated flow rates on each of the twenty (20) jet pumps are then checked and should be at approximately the same value. The indicated flow rates on jet pumps (19) and (20) were about 50 per cent of the other 18 jet pumps. At 5:30 p.m. on April 28, 1972, the decision was made to remove jet pump (20) to determine the cause of the flow reduction. Jet pump No. 20 was removed at 5:00 p.m. on April 29, 1972 and the flow obstruction was discovered. The obstruction was a heliarc welding outfit.

The outfit consisted of:

- a) One green rubber hose (5/8" O.D.), twenty-four and one-half feet in length, complete with fittings attached.

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- b) One green rubber hose (5/8" O.D.), twelve feet long - complete with "Chicago" fitting on one end and a copper fitting on the other.
- c) A two conductor welding cable, twenty-four and one-half feet long attached to a TIG welding gun. These conductors were covered with asbestos insulation which had been repaired with plastic tape.

The material described was fished out of the jet pump riser using "J" hooks. The riser was inspected and the No. 20 jet pump was reinstalled into the reactor vessel.

Review of Reactor Cleanliness

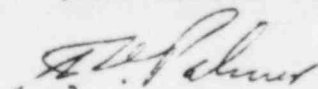
The quality control records for the installation, inspection, and flushing of: Unit 2 jet pumps Numbers (19) and (20); recirculation header and reactor vessel were reviewed. The jet pump riser had been properly installed, inspected, and flushed. Flushing of all the emergency core cooling systems prior to primary system hydrostatic test in May, 1971, and the residual heat removal system pump flow rate tests performed in June, 1971 provided good flushing of the recirculation piping system. A final inspection of the reactor bottom head after the hydrostatic test and just prior to the installation of the core internals was made on July 14, 1971.

The Quad-Cities Nuclear Power Station's - Station Review Board studied the quality control records, the flow test results, and the inspection that followed the jet pump installation, and as a result of the investigation the reactor vessel and recirculation system was declared clean and clear of foreign material.

Approval was given to continue with the startup test program on May 2, 1972 by the Station Review Board.

Very truly yours,

COMMONWEALTH EDISON COMPANY
Quad-Cities Nuclear Power Station



F. A. Palmer
Superintendent

FAP/zm