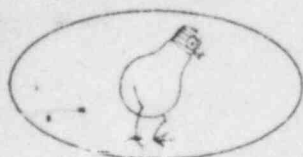


50-265



# Commonwealth Edison Company

QUAD-CITIES NUCLEAR POWER STATION

Address Reply to:

POST OFFICE BOX 216 ★ CORDOVA, ILLINOIS 61242

FAP-72-166

August 30, 1972

Mr. Angelo Giambusso, Deputy Director  
 Directorate of Licensing  
 U.S. Atomic Energy Commission  
 Washington, D.C. 20545

Dear Mr. Giambusso:

REF: Quad Cities Nuclear Power Station  
 Unit 2 - DPR-30 Appendix A  
 Sections 1.0.A.2, 3.6.G, 6.6.A.3, and 6.6.B.3

The purpose of this letter is to inform you of the details regarding the jet pump failure at Quad Cities Unit 2. This incident occurred on August 20, 1972 at 11:00 p.m.

## DESCRIPTION OF INCIDENT

With Unit 2 at Quad Cities Station operating at 60% thermal power, a recirculation loop flow unbalance approaching 15% was detected. Further investigation revealed abnormal flow indication on Jet Pump #17.

## IMMEDIATE ACTIONS

Jet Pump #17 was declared inoperable and an orderly shut-down of Unit 2 reactor was started at 12:45 a.m. on August 21, 1972. All rods were inserted by 5:10 a.m.

## INVESTIGATION

When Unit 2 reactor vessel head was removed, it was discovered that Jet Pump #17 had been displaced from its normal position and was leaning on Jet Pump #16. Jet Pump #17 was removed from Unit 2 reactor on August 27, 1972 and was temporarily stored in the fuel storage pool. Visual inspection revealed that seven parts of the jet pump were missing:



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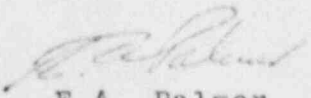
1. Beam Bolt
2. Beam Bolt Keeper
3. Beam Bolt Retainer
4. Beam Bolt Retainer Screw
5. Beam Bolt Disc
6. Beam Bolt Lock with Four Flat Head Screws
7. Retainer Bolt Keeper

All the missing pieces have been located in the reactor annulus area except for the beam bolt disc.

Investigation indicated no damage on the riser posts and seat, the restrainer gate mount, and the slip-joint seat of the diffuser.

Prior to startup, the investigation of the cause of failure will be completed and all jet pumps will be inspected. When the analysis and inspections are complete, a report will be submitted to the Atomic Energy Commission.

Respectfully,



F.A. Palmer  
Superintendent

FAP:LFG/111

cc: L.D. Butterfield  
Incident File