Commonwealth Edison
Quad-Cities Nuclear Power Station
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50-265

BBS-73-4

January 5, 1972

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

Reference: Quad-Cities Nuclear Power Station - Unit 2
DPR-30, Appendix A, Docket No. 50-265
Sections 1.0.A.2, 3.7.D.1, and 3.7.D.2.

Dear Mr. Giambusso:

The purpose of this letter is to inform you of the details regarding an incident in which the Reactor Water Cleanup system outboard isolation valve, MO 2-1201-5, failed to close. This incident was reported to you by telegram on December 24, 1972.

DESCRIPTION OF THE INCIDENT

At 6:00 a.m. on December 23, 1972, Reactor Water cleanup recirculation pump 2A was taken out of service due to leakage at the pump seals. The system was isolated by closing valves 2-1201-2, 5, and 80. All valves operated satisfactorily. The cleanup system was returned to service later that day with pump 2B in operation. At approximately 9:00 p.m., 2B cleanup pump developed seal leakage. The load on the unit was reduced to 60% to maintain a low conductivity.

At 11:20 p.m., the cleanup system was removed from service in order to work on the cleanup recirculation pump seals or both A and B pumps. At this time, MO-2-1201-5 did not close when actuated from the control room. After giving the valve a "close" signal, a double indication was received and the valve would not reach the fully closed position. Inboard isolation valve MO 2-1201-2 was closed to comply with Technical Specifications.

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Electrical maintenance personnel were called in to repair the valve operator on December 24, 1972. After repairs were completed later that day, the valve was operated three times from the control room. Each time the valve closed in 22 seconds. Cleanup recirculation pump 2A was returned to service at 10:30 p.m. and the cleanup system returned to normal.

INVESTIGATION AND CORRECTIVE ACTION

The problem was identified as a failure of the torque switch to return to the "close" position after the last valve operation. When maintenance personnel checked out the torque switch, the internal torsion spring was found to be weak and unable to reclose the switch after it had actuated. The switch must reclose to set up the valve motor closing circuit. The switch is a type 00 Limitorque. When it was replaced and reset, the valve operated successfully.

Similar problems have been encountered in the past as reported in my letters dated July 10, August 3, September 3, and December 6, 1972. A review of the status of all valve operators is being conducted by Commonwealth Edison's Station Electrical Engineering Department. This review has not been completed as of this date; however, a program of corrective action is being developed and will be formally submitted to Region III Regulatory Operations in response to a request by them on this same subject. This program will be finalized by January 15, 1973.

Very truly yours,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

N. B. Kohtz

FOR: B. B. Stephenson
Superintendent

LFG/zm