



Commonwealth Edison
Quad-Cities Nuclear Power Station
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50-254

FAP-72-171

September 11, 1972



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

Dear Mr. Giambusso:

Ref: Quad-Cities Nuclear Power Station Unit 1
DPR-29 Appendix A, Sect. 1.A.4
Section 6.6.A.3 and 6.6.B.3

The purpose of this letter is to inform you of the details regarding the failure of three RCIC valves to operate correctly during a monthly routine surveillance test. Valves (1-1301-26 and 1-1301-48) failed to close and valve (1-1301-49) failed to open. This incident occurred at Quad-Cities Unit 1 on September 3, 1972 at 10:40 a.m.

Description of Failure

At 10:40 a.m. on September 3, 1972, with reactor at 50% power, during the RCIC valves operability surveillance test, valves 1301-26 and 48 failed to close electrically and valve 1301-49 failed to open electrically from the control room. The RCIC system was declared inoperable and HPCI system was demonstrated to be operable.

Investigation

Upon investigating the problem for the 1301-26 valve, it was determined the cause was in the 250 Vdc breaker. The opening contactor would not pull in by itself.

It was also determined, that valve 1301-48 experienced the same problem with the opening contactor.

Valve 1301-49 torque switch had failed in the closing direction and the valve was tripping out on overload.

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Repairs

By adjusting the counter spring in the 250 Vdc breaker for valves 1301-26 and 48, the opening contactor would pull in. The valves were cycled several times and functioned properly.

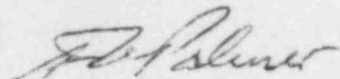
The torque switch, type 000, was replaced in valve 1301-49. The valve was cycled several times and functioned properly. The 250 Vdc breaker was checked for spring tension and the "M" contactor coil was replaced because it was weak in pulling itself in.

Continuing Investigation

The contactor manufacturer has been informed of the problem. A company representative will be on site to further investigate the breakers. You will be informed of any new development.

Very truly yours,

COMMONWEALTH EDISON COMPANY
Quad-Cities Nuclear Power Station



F. A. Palmer
Station Superintendent

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