

Appendix

NOTICE OF VIOLATION

Commonwealth Edison Company

Docket No. 50-254; 50-265

Quad Cities Nuclear Power Station

License No. DPR-29; DPR-30

As a result of the inspection conducted on January 21-25, January 30, February 1, and February 5-7, 1985, and in accordance with the General Policy and Procedures for NRC Enforcement Actions, (10 CFR Part 2, Appendix C), the following violation was identified:

10 CFR 50, Appendix B, Criterion III, as implemented by Topical Report CE-1-A, including a commitment to ANSI N45.2.11-1973, requires that design changes be subject to design control measures commensurate with those applied to the original design and include design analyses and verification of the adequacy of the design by the performance of design reviews and testing.

Contrary to the above:

- A. The Standby Gas Treatment System (SBGTS) was modified by the installation of jumpers intended to bypass the heater high temperature cutoff switches, without the benefit of either an on-site review (as required by Technical Specification, Section 6.1.G.2.a.4) or a post-installation test to verify the installation's adequacy. The jumpers were installed across the wrong terminals; when the SBGTS was called upon to operate, due to the loss of the Reactor Protective System 1 D MG set, the heaters in both trains tripped.
- B. In 1980 a modification was made to the control circuit of the Unit 1 Low Pressure Coolant Injection (LPCI) valves to prevent valve hammer during a continuous close signal. An error was made in the preparation of the wiring diagrams at the station and the resulting installation was in error. The error was not detected by either the subsequent review and approval of these diagrams or the tests performed after installation.
- C. The Unit 1 Steam Jet Air Ejector (SJAE) suction valves were replaced with butterfly valves. The design review and installation package did not identify that the valves could be installed in different orientations. Because of their subsequent incorrect installation, indication in the control room was opposite of actual valve position. The misorientations were detected while attempting to draw a vacuum on the condenser during startup.
- D. A 2" tee and flange were added to the Unit 1 bottom head drain line of the Reactor Water Clean Up (RWCU) system. This modification was approved, installed, and declared operational without the benefit of a stress analyses as required by FSAR Section 12.1.3.

This is a Severity Level IV violation (Supplement I).

Pursuant to the provisions of 10 CFR 2.201, you are required to submit to this office within thirty days of the date of this Notice a written statement or explanation in reply, including for each item of noncompliance: (1) corrective action taken and the results achieved; (2) corrective action to be taken to avoid further noncompliance; and (3) the date when full compliance will be achieved. Consideration may be given to extending your response time for good cause shown.

April 2, 1985  
Dated

James G. Keppler  
James G. Keppler  
Regional Administrator