

NOTICE OF VIOLATION

Commonwealth Edison Company

Docket No. 50-454

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As a result of the inspection conducted from April 1, 1990 through May 12, 1990, and in accordance with 10 CFR Part 2, Appendix C - General Statement of Policy and Procedure for NRC Enforcement Actions (1990), the following violation was identified:

10 CFR 50, Appendix B, Criterion III, as implemented by Commonwealth Edison Company's Quality Assurance Manual, Quality Requirement 3.0, requires that:

- a. Measures shall provide for the verification and the checking of the adequacy of a design such as by the performance of design reviews or by the use of alternate or simplified calculational methods.
- b. Design changes, including field changes, shall be subject to design control measures commensurate with those applied to the original design.

ASME NQA1 "Quality Assurance Program Requirements for Nuclear Facilities, Supplement 35-1", Section 4, Design Verification, states that:

- a. Measures shall be applied to verify the adequacy of design.
- b. Results of design verification efforts shall be clearly documented.
- c. Acceptable verification methods include but are not limited to: design reviews, alternate calculations, or qualification testing.

Contrary to the above, the licensee failed to:

- a. Identify during the design review process documented in the On-Site Reviews (OSR) for calculation 19-D-15 that the minimum temperature correction factor for the 125 Vdc station battery electrolyte did not agree with the Technical Specifications. As a result of the incorrect temperature correction factor, Byron Batteries 111, 112 and 212 were not designed at the proper size for a DC crosstie configuration between Unit 1 and 2 with a minimum electrolyte temperature of 60 degrees F. as specified in the Byron's Technical Specification.
- b. Review calculation 19-D-15, that was utilized to justify Battery 111 operability with 57 cells versus 58 cells, prior to the calculation's use in an OSR. The review and approval was approximately 7 weeks after the calculation was used in OSR 89-127 for determining Battery 111 operability with 57 cells.

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- c. Perform a design review prior to using a single cell charger when attempting to restore cell #53 in Battery 111 in March, 1990. The use of a single cell charger was not approved as a Temporary Alteration in accordance with procedure BAP 330-2, "Temporary Alterations".

This is a Severity Level IV violation (Supplement 1). (50-454/90012-01(DRP))

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 violation: (1) the corrective actions that have been taken and the results achieved; (2) the corrective actions that will be taken to avoid further violations; and (3) the date when full compliance will be achieved. Consideration may be given to extending your response time for good cause shown.

MAY 8 6 1990

Dated _____


W. D. Shafer, Chief
Reactor Projects Branch 1