

FEB 10 1987

Docket Nos. 50-387
50-388

Pennsylvania Power & Light Company
ATTN: Mr. H. W. Keiser
Vice President
Nuclear Operations
2 North Ninth Street
Allentown, Pennsylvania 18101

Gentlemen:

Subject: Combined Inspection Report Nos. 50-387/86-25 and 50-388/86-28

Enclosed is the report of the team inspection conducted by Mr. C. J. Anderson and other NRC inspectors and representatives on November 17-21, 1986, at the Pennsylvania Power & Light Company office, Allentown, Pennsylvania, and the Susquehanna Steam Electric Station Units 1 and 2, Berwick, Pennsylvania, of activities authorized by NRC License Nos. NPF-14, NPF-22. The team's findings were discussed with you and members of your staff at the conclusion of the inspection. The inspection reviewed your implementation of a program for establishing and maintaining the qualification of electric equipment within the scope of 10 CFR 50.49. Within these areas, the inspection consisted of examination of selected procedures and records, interviews with personnel, and observations by the inspectors.

The inspection determined that you have implemented a program to meet the requirements of 10 CFR 50.49 except for certain deficiencies identified in the enclosed inspection report. Six deficiencies in your program implementation summarized in Appendix A, are classified as Potential Enforcement Items. With regard to these six deficiencies, we are considering appropriate enforcement action and will inform you of our decision in the future. These deficiencies involve 1) failure to demonstrate qualification of Valcor high temperature wire, Rockbestos coaxial cables, Raychem Cable splices; 2) failure to provide similarity analysis for Target Rock solenoid valves, 3) failure to follow Procedure DC 151.0 to provide a required document in the EQ binder for four replaced Rosemount transmitters, and 4) failure to ensure qualification of limit torque valve operator wiring.

Your corrective actions regarding the identified deficiencies should not be delayed pending either a future NRC inspection or further action by the NRC.

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Your cooperation with us in this matter is appreciated. We are available to discuss any questions you have concerning this inspection.

Sincerely,

Original Signed By:

William V. Johnston
Stewart D. Ebner, Director
Division of Reactor Safety

Enclosures:

1. Appendix A, Potential Enforcement Items
2. NRC Region I Combined Inspection Report Nos. 50-387/86-25 and 50-388/86-28

cc w/encl:

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APPENDIX A

Susquehanna Steam Electric Station
Units 1 and 2

50-387/86-25
50-388/86-28

Potential Enforcement Items

As a result of the equipment qualification (EQ) inspection on November 17-21, 1986, the following items have been identified as Potential Enforcement Items (paragraph references are to detailed portions of the inspection report).

1. Contrary to paragraph (f) of 10 CFR 50.49, Pennsylvania Power and Light Company (PP&L) did not adequately demonstrate qualification of Valcor high temperature wires, because qualification of these wires was based on questionable test data (unrealistically high insulation resistance measurements during simulated LOCA test). Subsequently, interim qualification of these wires was established before the end of the inspection using additional data. (Paragraph 4.2.1, item 50-387/86-25-03; 50-388/86-28-03).
2. Contrary to paragraph (f) of 10 CFR 50.49, PP&L did not adequately demonstrate qualification of Rockbestos coaxial cables currently being used in the Containment High Range Radiation monitors. The insulation resistance of these cables was not shown to meet performance requirements during a LOCA when the temperature exceeds 225°F. PP&L was in the process of issuing operability precautions to the station at the end of the inspection. (Paragraph 4.2.2, item 50-387/86-25-04; 50-388/86-28-04).
3. Contrary to paragraph (f.2) of 10 CFR 50.49, PP&L did not adequately demonstrate qualification of Target Rock Solenoid valves, because no supporting similarity analysis was provided in the EQ binder at the time of the inspection. However, PP&L did provide an adequate similarity analysis before completion of this inspection (paragraph 4.2.3, item 50-387/86-25-05; 50-388/86-28-05).
4. Contrary to 10 CFR 50 Appendix B, Criterion V and Procedure DC 151.0, PP&L failed to follow their procedure to provide a Replacement Item Equivalency Evaluation (RIEE) in the EQ binder for four replaced Rosemount Transmitters (paragraph 4.3, Item 50-387/86-25-07; 50-388/86-28-07).
5. Contrary to paragraph (f) of 10 CFR 50.49, PP&L did not adequately demonstrate qualification of a number of installed Raychem cable splices identified by PP&L and documented in their Nonconformance Reports. These cable splices were not installed in accordance with the qualification tests and the Raychem installation procedures. Justifications for continued operation were provided for these splices (paragraph 4.4, Item 50-387/86-25-08; 50-388/86-28-08).
6. Contrary to paragraph (f) of 10 CFR 50.49, PP&L failed to ensure that from the required qualification deadline to the time when the Limitorque valve operator wiring was replaced as a result of NRC Information Notice 86-03 that certain Limitorque valve operator wiring was qualified. Numerous Limitorque valve operators requiring EQ contained wiring whose qualification could not be demonstrated (paragraph 4.5, Item 50-387/86-25-09; 50-388/86-28-09).