

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 50-387/80-31
50-388/80-19
Docket No. 50-387
50-388
License No. CPPR-101 Priority -- Category B
CPPR-102 A

Licensee: Pennsylvania Power and Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Facility Name: Susquehanna Units 1 and 2

Inspection at: Berwick, Pennsylvania

Inspection conducted: November 17-20, 1980

Inspectors: L. Narrow
L. Narrow, Reactor Inspector

12/9/80
date signed

date signed

date signed

Approved by: J. Mattia
J. Mattia, Acting Chief, Projects Section,
RC&ES Branch

12/9/80
date signed

Inspection Summary:

(Unit No. 1) Inspection on November 17-20, 1980 (Report No. 50-387/80-31)

Areas Inspected: Routine, unannounced inspection of licensee's actions on previously identified findings, Bulletins and Circulars, and general plant tour. The inspection involved 20 inspector-hours onsite by one NRC regional based inspector.

Results: No items of noncompliance were identified.

(Unit No. 2) Inspection on November 17-20, 1980 (Report No. 50-388/80-19)

Areas Inspected: Routine, unannounced inspection of licensee's actions on previously identified inspection findings, Bulletins and Circulars, and general plant tour. The inspection involved 6 inspector-hours onsite by one NRC regional based inspector.

Results: No items of noncompliance were identified.

DETAILS

1. Persons Contacted

Pennsylvania Power and Light Company

E. W. Carroll, Senior Analyst, NQA
*R. H. Featenby, Assistant Project Director
*S. Denson, Construction Manager
R. Harris, Licensing Engineer (Allentown)
*P. Kyner, Resident NQA
J. Lindberg, Analyst, NQA
R. J. Prego, Electrical NQA Engineer
A. R. Sabol, Manager, Nuclear QA

Bechtel

*M. A. Drucker, Lead QA Engineer
*H. F. Lilligh, Project QA Engineer
*T. Minor, Project Field Engineer
*J. E. O'Sullivan, Assistant Project Field Engineer
*K. G. Stout, Project Field QC Engineer
*C. Turnbow, Field Construction Manager

* denotes those persons present at the exit interview

The inspector also interviewed other licensee and contractor personnel during the inspection.

2. Plant Tour

The inspector observed work activities in progress, completed work and construction status in Unit 1 and 2. Specific activities and completed work observed by the inspector included electrical wiring, cable trays and connections to electrical penetrations.

No items of noncompliance were identified.

3. Licensee Action on Previous Inspection Findings

(Closed) Unresolved Items (387/78-03-08; 387/78-16-03; 388/78-03-02); (Open) Unresolved Item (388/78-15-01): Repair and storage of Unit 1 and 2 RHR Heat Exchangers. These items had previously been reviewed during inspections 387/80-10; 387/80-21; 388/80-06 and 388/80-14 but remained unresolved pending engineering review of repair documentation and proper storage of the Unit 2 equipment. The inspector examined the documentation shown below concerning repair and cleanup of the heat exchangers:

- a. QC Inspection Reports (QCIR) Nos. 49.0-M1-1E-205-6 and 49.0-M1-2E-205-5 for RHR Heat Exchanger modification per GE letters EAG-275 and EAG-160 which provided retrofit procedures for RHR baffle plates for Unit 1 and 2 heat exchangers.
- b. QCIR No. 49.0-M1-1E-205-19 and 49.0-M1-2E-205-20 for RHR Heat Exchanger rework of impingement plates per GE FDDR KR1-050 and KR2-033 for Unit 1 and 2 heat exchangers.
- c. QCIR No. 49.0-M1-1E-205-13 and 49.0-M1-2E-205-11 for cleaning of Unit 1 and 2 RHR Heat Exchangers per GE FDDR-KR1-044.
- d. NCR No. 1443 to verify location of failed tube and plug six tubes per GE EAP-399 and Bechtel Procedure P 34-T-AG which was closed July 21, 1978.

The inspector had no further questions concerning items 387/78-03-08, 387/78-16-03 and 388/78-03-02. However, the inspector was informed that the licensee had decided to remove the chromate solution used in lay-up of the Unit 2 heat exchanger and replace it with dry nitrogen. The inspector examined Bechtel Procedure FC1-M-193, Revision B, "Removal of Chromate Solution and Dry Nitrogen Lay-up of Residual Heat Removal Heat Exchangers 2E-205 A and B".

Item 388/78-15-01 remains unresolved pending completion of the nitrogen lay-up.

(Closed) Noncompliance (387/79-31-02): Use of ice water to minimize interpass temperature during welding without provision for such use in welding procedure.

Paragraph 12.1.6 of FC1-M-174, Revision 4, provides for demineralized ice water cooling of the pipe being welded as identified by this item.

Bechtel 10M dated February 6, 1980, confirmed that prior to GE approval a mock-up of this joint had been welded using the same procedure and cooling/ quenching method and had been found acceptable.

The inspector had no further questions concerning this item.

(Closed) Unresolved Item (387/79-15-03): Control of field detail drawings.
The inspector examined:

- a. Field Procedure FP-P-11, Revision 4, dated April 17, 1980 which provided a detailed procedure for making and controlling field changes to construction drawings and assuring that such changes will be incorporated into the final field revisions.

- b. License Audit No. 79, May 21-25, 1979, of "Bechtel Design Document Control" which included audit of control of "red lined" (field change) drawings for revision of master reproducible. This audit identified nine revisions not completed within the required two weeks.
- c. Licensee unannounced re-audit (July 3, 1980) of "Bechtel Production Print Control and Bechtel Red Lining of Piping Drawings" which closed out the nonconforming revisions of Audit No. 79 and found that control of red lined drawings was acceptable.

The inspector had no further questions concerning this item.

(Closed) Unresolved Item (79-19-03): Cleanliness inspections of recirculation loop "B". The inspector questioned compliance with GE Specification 22A-2537 due to lack of a "crawl-through" prior to hydrostatic testing. GE letter EAG-1324 states that lack of a "crawl-through" inspection was not a violation of procedures.

This item is resolved.

(Closed) Noncompliance (80-05-01): Failure to document a nonconforming condition identified by the QC inspector during weld repair GBB-104-1-FW16-R1. Following identification of this item by the NRC inspector, the nonconforming condition was documented on Rework Notice No. 3892. This item was dispositioned to bring the gap within tolerance and rework was completed on March 28, 1980. The inspector also examined records of training sessions for ASME-III welding on March 27 and 28, 1980.

The inspector had no further questions concerning this item.

(Closed) Unresolved Item (387/77-05-01): Nelson stud welding of shear struts shows high failure rate. This item was reviewed by the licensee and was reported as a significant deficiency in accordance with 10 CFR 50.55(e)(387/77-00-01).

4. Problems Identified at Other Sites

The licensee was informed of the deficiencies noted below which had been reported at other sites and requested to determine if the companies had provided any equipment to the sites.

- a. Waste gas decay tanks fabricated by Industrial Piping Supply Company were reported to require extensive repair as a result of poor quality welding. The inspector was informed that this company was not on the vendor list and had furnished no equipment to the site.

This item is resolved (387/79-SB-01; 388/79-SB-01).

- b. Malfunction of a power operated relief valve supplied by Control Components, Inc. had been reported. The inspector was informed that this company had furnished no equipment to the site.

This item is resolved (387/79-SB-02; 388/79-SB-02).

5. Status of Bulletins and Circulars

The inspector discussed the licensee's system for tracking the status of Bulletins and Circulars with the licensee representative. The requirements for action by the licensee with regard to Bulletins and Circulars sent "for information only" were discussed. The following Bulletins are closed since they were furnished to the licensee for information only and the appropriate personnel had been informed.

<u>Bulletin No.</u>	<u>Title</u>
Bulletin 79-13	Cracking in Feedwater System Piping
Bulletin 79-21	Temperature Effects on Level Measurements

6. Exit Interview

The inspector held an exit interview with representatives of the licensee's staff, denoted in paragraph 1, at the conclusion of the inspection of August 22, 1980. In addition, the NRC Resident Inspector, Mr. R. M. Gallo attended the meeting. The inspector discussed the scope and findings of the inspection.