

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

Region I

Report No. 50-443/78-13
50-444/78-13
50-443
Docket No. 50-444
CPPR-135
License No. CPPR-136 Priority -- Category A

Licensee: Public Service Company of New Hampshire
1000 Elm Street
Manchester, New Hampshire

Facility Name: Seabrook Station, Units 1 and 2

Inspection at: Seabrook, New Hampshire

Inspection conducted: September 5-8, 1978

Inspectors: Seth A. Folsom 9/25/78
Seth A. Folsom, Reactor Inspector date signed

date signed

date signed

Approved by: R. W. McGaughy September 26, 1978
R. W. McGaughy, Chief, Projects Section, RC&ES Branch date signed

Inspection Summary:

Inspection on September 5-8, 1978 (Report No. 50-443/78-13)

Areas Inspected: Routine, unannounced inspection by a regional based inspector of piping contractor's quality assurance program, and installation of containment reinforcing steel. The inspector performed a construction site tour and reviewed licensee action on previous inspection findings. The inspection involved 20 inspector-hours onsite by one NRC regional based inspector.

Results: No items of noncompliance were identified.

Inspection on September 5-8, 1978 (Report No. 50-444/78-13)

Areas Inspected: Routine, unannounced inspection by a regional based inspector of piping contractor's quality assurance program. The inspector performed a construction site tour and reviewed licensee action on previous inspection findings. The inspection involved 11 inspector-hours onsite by one NRC regional based inspector.

Results: No items of noncompliance were identified.

DETAILS

1. Persons Contacted

Yankee Atomic Electric Company

Mr. D. L. Covill, Quality Assurance Field Engineer, Civil
Mr. W. J. Gagnon, Quality Assurance Field Engineer, Mechanical
*Mr. J. H. Herrin, Site Manager
*Mr. W. P. Johnson, Vice President
Mr. G. McDonald, Quality Assurance Engineer (Westborough)
Mr. R. P. Pizzuti, Construction Manager
*Mr. T. M. Sherry, Director of Construction
*Mr. J. W. Singleton, Field Quality Assurance Manager
Mr. A. J. Stewart, Site Geologist

Perini Power Constructors

Mr. R. A. Brasells, Carpenter Superintendent
Mr. P. Antonich, Assistant Superintendent Quality Assurance

United Engineers and Constructors

Mr. M. A. Edgar, Resident Construction Engineer
Mr. G. B. Frey, Project Superintendent Operations
Mr. B. F. McCoy, Security Supervisor
Mr. R. N. Moyer, Field Superintendent Quality Assurance/Quality Control
Mr. D. R. Rhyne, Lead Startup and Test Engineer
*Mr. T. P. Vasallo, Jr., Quality Assurance Engineer
Mr. J. P. Zabielski, Concrete Superintendent

Royal Globe Insurance Companies

*Mr. J. R. Boyd, Inspection Specialist
*Mr. C. O'Sullivan, Authorized Nuclear Inspector

Pullman/Higgins (Piping)

*Mr. R. G. Davis, Field Quality Assurance Manager
Mr. D. R. Jones, Quality Assurance Controller
*Mr. J. P. Rowley, Resident Construction Manager

Pittsburgh Des Moines

Mr. J. Hill, Site Construction Superintendent
Mr. W. Stiger, Site Quality Assurance Superintendent

The inspector also interviewed other licensee and contractor employees including craft personnel, supervisors, and QC inspectors during this inspection.

* denotes those present at the exit interview.

2. Plant Tour

The inspector conducted a walk-through inspection of the construction site and observed completed work, and work in progress. The areas observed for Unit 1 were containment building base mat, reactor pit liner, auxiliary building reinforcing steel, and concrete curing and placements. In Unit 2, dewatering, containment building reinforcing steel installation and cooling tower structural slab. The inspector examined construction operations for compliance with regulatory requirements and licensee commitments. Specific activities observed by the inspector in both units included preparation for concrete placements, form stripping, excavating, backfilling, soil compaction, grinding, welding, and pressure testing.

No items of noncompliance were identified.

3. Licensee Action on Previous Inspection Findings

(Closed) Unresolved Item (443/77-03-01 and 444/77-03-01): Licensee review of NRC Circulars 77-01, 77-05, and 77-06. These Circulars had not originally been sent by YAEC to UE&C for action, but this has since been done. The inspector has reviewed the licensee's actions relating to these Circulars (Inspection Reports 50-443/78-08 and 50-444/78-08), and found them to be acceptable. The inspector had no further questions on this matter.

(Closed) Unresolved Item (Reference: Inspection Reports 50-443/76-02, Paragraph 6; and 50-444/76-02, Paragraph 6), PSAR amendment for control of specifications. The PSAR revision to correct this condition was issued on January 21, 1977. The inspector had no further questions on this matter.

4. Quality Assurance Program - Pullman Power Products Company

The installation of all piping at Seabrook Units 1 and 2 will be performed by Pullman/Higgins, a joint venture of the Pullman Power Products Company and J. C. Higgins Company. Installation of safety-related piping is scheduled to start in October, 1978. The inspector

reviewed the Quality Assurance Manual, and related construction and quality control procedures, for conformance to regulatory requirements and licensee PSAR commitments. Key production and quality assurance personnel were also interviewed to ascertain their understanding of the QA Manual requirements. The inspector attended the presentation of a 60-minute Pullman/Higgins video tape training session used for indoctrination and training of newly-hired personnel.

Documentation reviewed during the inspection included:

- (1) Pullman Power Products QA Manual, Issue 3, May 10, 1978, with Supplement 1, August 17, 1978. This manual "documents the quality system in effect for those activities defined with the scope of ASME Certificate of Authorization Nos. N-1101 (NPT) and N-1102 (NA)."
- (2) Pullman Power Products Field Inspection Procedures
 - Final Inspection, X-4, July 13, 1978
 - Field Receiving Inspection X-5, April 14, 1978
 - Calibration of Tools, Measurement and Test Equipment, XII-2, July 18, 1978
 - Field Storage, XII-S, July 13, 1978
 - Field Handling of Materials and Equipment XIII-9, February 6, 1978
 - Field Leak Testing - Hydrostatic and Pneumatic, XI-1, July 21, 1978
 - Standard Method of Protecting Ends of Fabricated Pipe for Nuclear Service XIII-11, July 13, 1978
 - Reporting of Defects and Noncompliances to the NRC, XIII-12, July 14, 1978

No items of noncompliance were identified.

5. Testing of Coarse and Fine Aggregate

The inspector reviewed the testing of coarse and fine aggregate for conformance to ASTM C-33, and to UE&C Specification 5-1, February 24, 1975. Aggregate samples were being tested for gradation, moisture, fines, organic matter, flat and elongated, friable, light-weight, soft fragments, specific gravity, absorption, soundness, potential reactivity and LA abrasion.

Pittsburgh Testing Laboratory Reports; for examples, Lab. No. 992 August 31, 1978 and Lab No. 987, August 31, 1978 were examined and the sampling schedule and test results confirmed that required sampling frequencies were being maintained, and that the aggregate met the specification requirements.

6. Exit Interview

The inspector met with the licensee and contractor representatives (denoted in Paragraph 1) at the conclusion of the inspection on September 8, 1978. The inspector summarized the scope and findings of the inspection.