

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-443/85-14

Docket No. 50-443

License No. CPPR-135

Priority --

Category A

Licensee: Public Service Company of New Hampshire

P.O. Box 330

Manchester, New Hampshire 03105

Facility Name: Seabrook Station, Unit 1

Inspection At: Seabrook, New Hampshire

Inspection Conducted: May 13-17, 1985

Inspectors: J. A. Gugg for RAM
R. A. McBrearty, Reactor Engineer

6/4/85
date

Approved by: J. T. Wiggins for JTW.
J. T. Wiggins, Chief
Materials and Processes
Section, DRS

6/4/85
date

Inspection Summary: Inspection on May 13-17, 1985 (Report No. 50-443/85-14)

Areas Inspected: Routine, unannounced inspection of licensee actions on previous inspection findings; and inspection of preservice inspection activities including observations of work in progress, review of NDE procedures and review of PSI data. The inspection involved 33 hours onsite by one regional based inspector.

Results: No violations were identified.

8507180097 850712
PDR ADDCK 05000443
PDR

DETAILS

1. Persons Contacted

New Hampshire Yankee (NHY)

*J. O. Azzopardi, QA Engineer
D. L. Covill, FQA Surveillance
*R. E. Guillette, Assistant Construction QA Manager
*G. Kingston, Station Staff Compliance Manager
*J. L. Marchi, SQCM
*P. E. Massicotte, Staff Engineer
W. T. Middleton, QA Staff Engineer
D. W. Perkins, QA Engineer
*J. G. Tefft, STD
*W. Sanchez, Engineer - Licensing

Yankee Atomic Electric Company (YAEC)

*R. A. Jeffrey, PSI Coordinator
J. J. McArdle, NDE Level III
*P. A. Oikle, Manager Project Audits/Trending
*G. Papanic, PSI Supervisor

Yankee Nuclear Services Division (YNSD)

*J. Lance, MSG Manager

United Engineers and Constructors (UE&C)

*J. A. Grusetskie, Site Engineering
D. C. Lambert, P.F.Q.C.M.
*B. E. O'Connor, F.S.Q.C.

Factory Mutual

*W. Nicholas, ANII

U.S. Nuclear Regulatory Commission (USNRC)

*R. S. Barkley, Reactor Engineer
*A. C. Cerne, Senior Resident Inspector
*H. M. Wescott, Resident Inspector

*Denotes those present at the exit meeting on May 17, 1985.

2. Licensee Action on Previous Inspection Findings

(Closed) (UNR 443/84-06-01) - Revision of NDE Procedure. The inspector reviewed procedure 80A6462 Revision 2, and documentation which confirmed

that the proper scan paths, based on the procedural formula, were used for the reactor coolant loop piping welds. The procedure was found to contain information regarding material product form and thickness dimensions as required by the ASME Boiler and Pressure Vessel Code, Section XI.

Based on the above, this item is considered closed.

3. Procedure Review

The following nondestructive examination procedures were reviewed by the inspector with regard to technical adequacy and to ascertain compliance with applicable ASME Code and regulatory requirements:

- 80A6461 Revision 3, "Ultrasonic Examination Procedure General Requirements"
- 80A6462 Revision 2, "Ultrasonic Examination Procedure for Austenitic Piping Welds"
- 80A6466 Revision 1, "Ultrasonic Examination Procedure for Pressurizer Welds"
- 80A6472 Revision 2, "Liquid Penetrant Examination Procedure"
- 80A6473 Revision 2, "Magnetic Particle Examination Procedure"
- 42-EC-114, "Multifrequency Eddy Current Procedure Westinghouse Series F Steam Generator Tubing MIZ-18 Digital Eddy Current System - Stribrook"

The inspector's review indicated that the procedures were approved by the licensee, were technically adequate for their intended use, and met applicable code and regulatory requirements.

No violations were identified.

4. Observation of PSI in Progress

The inspector observed a portion of the 60° shear wave ultrasonic examination of steam generator weld number 1-RC-E-11C-seam 5. The observation was made to ascertain that applicable ASME Code and regulatory requirements were met.

The inspector found that the examination was done in accordance with procedure 80A6465, Revision 2, which was approved by the licensee. The examination equipment was found to be currently calibrated and the examination was performed by properly qualified personnel.

In addition to the above, the inspector witnessed the eddy current examination of the following tubes in the "C" steam generator:

<u>ROW</u>	<u>COLUMN</u>
5	21
6	21
3	21
6	20
5	20
2	20
2	19
3	19

The examinations were performed by CONAM Inspection personnel using the MIZ-18 System in accordance with procedure 42-EC-114 Revision 0.

The inspector visited the off site location where eddy current examination data were being interpreted by two CONAM analysts certified to Level IIA and Level III respectively. The inspector interviewed the analysts with regard to system calibration techniques and various aspects of the MIZ-18 digital current system, and observed the analysts as they interpreted and processed data.

No violations were identified.

5. Review of PSI Data

The inspector reviewed ultrasonic calibration data sheets numbered 6465-031, 6465-032, 6466-9 and 6466-10 associated with the following welds:

- Steam generator weld #1-RC-E-11C - seam 5
- Pressurizer welds #1-RC-E-10-1, -2, -3, and -5
- Pressurizer welds #1-RC-E-10-A-NZ, -B-NZ, -C-NZ, -D-NA and -SP-NZ

The review was done to ascertain that indications were properly recorded and evaluated and that ASME Code and regulatory requirements were met.

The review of data sheet #6466-9 disclosed that indications were detected in weld #1-RC-E-10-1. Page 1 of the data sheet provided information regarding instrument calibration and indicated that side drilled holes were used in addition to a back reflection calibration technique. The ASME Code requires that the 0° longitudinal beam base material scan calibration be established from a back reflection through the material, and that the weld metal scan calibration be based on reflections from side drilled holes in the basic calibration block. The use of one data sheet to represent two calibration methods resulted in difficulty in understanding the information as it related to the recorded indications.

To clarify the data and to confirm that the results were acceptable per ASME Code requirements, the licensee re-scanned the weld and recorded the two worst case indications based on both calibration techniques. Data were recorded using the following transducers:

<u>Diameter</u>	<u>Frequency</u>
1.0"	2.25MH _z
0.75"	2.25MH _z
1.0"	5.0MH _z

The results were evaluated by the licensee in accordance with ASME Section XI, IWA 3360, IWB-3511.2 and Table IWB-3511-2 and were found to be within acceptable limits.

Copies of the data resulting from the re-examination and evaluation of the results were forwarded on 5/20/85 by the licensee to the inspector. The inspector found that the data confirmed the acceptability of the weld, and he has no further questions regarding this matter.

No violations were identified.

6. Personnel Qualification/Certification Records

Records of personnel who participated in ultrasonic and eddy current examinations at the site and of the two eddy current data analysts observed by the inspector were reviewed to ascertain that each individual was qualified to perform the duties to which he was assigned.

The records were found to be complete and confirmed that the requirements of SNT-TC-1A were met.

No violations were identified.

7. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on May 17, 1985. The inspector summarized the purpose and the scope of the inspection and the findings. At no time during this inspection was written material provided by the inspector to the licensee.