

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

Inspection Report No: 50-29/75-15

Docket No: 50-29

Licensee: Yankee Atomic Electric Company

License No: PER-1

20 Turnpike Road

Priority: -

Westborough, Massachusetts 01581

Category: C

Location: None, Massachusetts

Safeguards
Group: -

Type of Licensee: PER 175 NME (W)

Type of Inspection: Routine, Announced

Date of Inspection: October 23-24, 1975

Date of Previous Inspection: October 8-10, 1975

Reporting Inspector: W. F. Sanders

W. F. Sanders, Reactor Inspector

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: R. C. Haynes

R. C. Haynes, Senior Reactor Inspector

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SUMMARY OF FINDINGS

Enforcement Action

A. Items of Noncompliance

None

B. Deviations

None

Licensee's Action on Previously Identified Enforcement Items

A. In-Service Inspection (ISI) Program

During the inspection of July 10-11, 1975, it appeared that the licensee had not performed certain ISI Program examinations as committed to the NRC. As a result of this inspection and the additional information provided by the licensee in his letter of September 3, 1975 to the NRC Region I Office, the inspector found that the licensee had performed the required examinations and had, therefore, met his commitments. (Details, Paragraph 4).

Design Changes

None Identified

Unusual Occurrences

None Identified

Other Significant Findings

A. Current Findings

1. Acceptable Areas

a. In-Service Inspection of Steam Generator Tubes

The measuring of the tube wall thickness by Eddy Current methods was found to comply with the technical requirements outlined in the licensee's inspection procedure. (Details, Paragraph 3)

2. Unresolved Items

None

B. Status of Previously Reported Unresolved Items

Not Inspected

Management Interview

At the conclusion of the inspection the inspector held a meeting at the site with Mr. H. A. Autio, Plant Superintendent to discuss the inspection findings.

A. Items Discussed

The inspector stated that this inspection was made to review and observe the activities relative to the measurement of steam generator tubes for wall thickness using Eddy Current methods and to review the additional information pertinent to the resolution of an apparent deviation documented in IE Inspection Report 50-29/75-08.

The inspector stated that the steam generator tube measuring activities conducted while the inspector was on site were found to be acceptable. The inspector also stated that his review of records to date showed that the licensee had met ISI Program commitments and that there did not appear to be a deviation from these commitments as reported in the aforementioned inspection report.

DETAILS

1. Persons Contacted

Yankee Atomic Electric Company

H. Autio, Plant Superintendent
W. Jones, Assistant Superintendent
M. Ebert, Plant Reactor Engineer
J. Staub, Technical Assistant

Zetec Inc.

A. Lucero, Test Engineer

2. General

The purpose of this inspection was to inspect the activities related to the measurement of steam generator tube wall thickness using Eddy Current techniques and to review additional information pertinent to the apparent deviation identified in IE Inspection Report 50-29/75-03.

3. In-Service Inspection of Steam Generator Tubes

The measuring of tube wall thickness by Eddy Current methods was found to comply with the technical requirements outline in the licensee's proposed change No. 119 to the Technical Specifications.

Calibration records for the following equipment and standards were examined:

- a. Eddy Current instrument MLZ-7 Serial #3
- b. Vector Analyzer 007
- c. Main Frame B062316 Zetec 4
- d. Brush Recorder 11614 Zetec 2
- e. Calibration Standards (2) Tube 3/4" O.D. x .072 Wall Material MIL-T 8504 Type - 304 HT No. 27264 x
- f. Personnel Qualifications - ZQA5

These records were found to be acceptable.

Subsequent to the conduct of this inspection, the licensee decided to test an additional sample of tubes in the steam generators under test. The licensee informed Region I of this decision on November 6, 1975, in a telephone conversation between Mr. J. Streeter of this office and Mr. J. French, Manager of Operations, Yankee Atomic Electric Company. This decision was based on the results of the first two sample lots and the provisions of Regulatory Guide 1.83, Paragraph 5, "Supplementary Sampling Requirements." The results of the first two sample lots were reported to Region I as Reportable Occurrence AO-75-11 on November 7, 1975. The Eddy Current testing results will be reviewed further during a subsequent inspection.

4. In-Service Inspection Program
(Rel: Deviation, IE Inspection Report 50-29/75-08)

During the inspection of July 10-11, 1975, it was concluded that certain examinations had not been performed, namely; a volumetric examination of integrally welded pressurizer supports, a visual examination of reactor pressure vessel penetrations, and a visual and surface examination of the primary nozzle to vessel head welds of the steam generators. The licensee provided additional information to the NRC Region I office in his letter of September 3, 1975 which disclosed that records were available on site showing that two of these inspections had been performed.

During this inspection of October 23-24, 1975, the inspector made the following findings:

- a. Records show that a volumetric examination was performed on two integrally welded pressurizer supports by Southwest Research Institute personnel in November, 1970.
- b. Records show that a visual inspection of reactor pressure vessel penetrations was performed during a hydrostatic test of the vessel on August 9, 1974.
- c. A review of the detail drawing of the steam generator primary nozzle area showed the nozzle to be a part of the steam generator head forging and not a separate forging. The only welds associated with the nozzles were nozzle-to-safe-end welds which had been examined as required for that type of weld.

Based on the above findings, the inspector found that the licensee had met his ISI Program commitments to the NRC and that no deviation existed as had been previously reported.