

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

Region I

Report No. 50-271/78-21

Docket No. 50-271

License No. DPR-28 Priority -- Category C

Licensee: Vermont Yankee Nuclear Power Corporation

20 Turnpike Road

Westborough, Massachusetts 01581

Facility Name: Vermont Yankee Nuclear Power Station

Inspection at: Vernon, Vermont

Inspection conducted: September 19-22, October 5-6, 1978

Inspectors: W. F. Sanders
W. F. Sanders, Reactor Inspector

10/19/78
date signed

_____ date signed

_____ date signed

Approved by: S. D. Ebner
S. D. Ebner, Chief, Engineering Support
Section No. 1, RC&ES Branch

10/23/78
date signed

Inspection Summary:

Inspection on September 19-22, and October 5-6, 1978 Report No. 50-271/78-21

Areas Inspected: Routine, unannounced inspection of the inservice inspection program and its implementation during the current refueling outage. The inspection involved 38 inspector hours onsite by one NRC inspector.

Results: No items of noncompliance were identified.

7812060346

4

DETAILS

1. Persons Contacted

- *W. F. Conway, Plant Superintendent
- *J. J. Lance, Non Destructive Examination Engineer
- *W. P. Murphy, Assistant Plant Superintendent
- *R. W. Burke, Engineering Support Supervisor
- *R. R. Donald, Plant I.S.I. Coordinator
- *L. L. Reed, Operation Quality Assurance Coordinator
- D. R. Dustin, Jr., Engineering Assistant
- *D. C. Guioe, Engineering Assistant

The inspector also interviewed other licensee employees during the course of the inspection. They included Q. C. technicians and inspectors.

Nuclear Engineering Services, Inc.

R. Taylor, Site Supervisor

* denotes those present at exit interview.

2. Plant Status

The plant was in a shutdown mode for refueling, maintenance and inservice inspection.

3. Plant Tour

During the course of the inspection, tours were made in several areas to observe work in progress, completed work and plant status. The inspector examined work items for any obvious defects or non-compliance with regulatory requirements. No defects or items of noncompliance were identified.

4. Inservice Inspection Program

The inspector reviewed the inspection program developed by the licensee to comply with the requirements of ASME B&PV Section XI Code, 1974 Edition; Summer 1975 Addenda and Appendix III, Summer 1976. The program defines the inservice inspections to be performed during the second period of the first 10-year interval which encompasses two refueling/maintenance outages. In addition to the

inspections required by ASME Section XI, supplemental welds were selected for additional ISI of austenitic stainless steels and service sensitive piping relative to proposed tech spec change No. 70, Section 3.6-4.6 and Nureg 313. The specific welds to be inspected and evaluated are included in Appendix B of the program.

A portion of the period 2 examinations, approximately 28 components, were completed during the unscheduled outage during July 1978 and are included in this report.

Pursuant to 10 CFR 50.55.a (8)(5) the licensee will submit new technical specification with exceptions in January 1979 and scheduled update to the program as required by 10 CFR 50, in July 30, 1979.

The inspection of the present program did not reveal any items of noncompliance.

5. N.D.E. Procedure Review (ISI Program)

The inspector reviewed the following nondestructive testing procedures for compliance with the requirements of ASME Section XI Code, 1974 Edition; Summer 1975 Addenda and Appendix III Summer 1976. Many of these procedures had been reviewed on the previous inservice inspection at another plant site, therefore, it was only necessary to review the changes designated by a revision and the applicability of the procedure to the component being tested. There were no items of noncompliance identified regarding the technical content with respect to different parts of the code. The procedures reviewed included the following:

YA-UT-4-1 Nozzle to Shell Weld

YA-UT-7-1 Closure Studs

YA-UT-2-1 Top Head

YA-UT-10-0 Head Spray

YA-UT-1-0 General

YA-UT-9-0 RHR Piping

No items of noncompliance were identified.

6. Personnel Qualification Records

The inspector audited the qualification records of personnel performing nondestructive test examinations. These were reviewed to the recommended requirements of SNT-TC-1A for the training, experience, limitation, if any, and level of certification including date certified. No items of noncompliance were identified.

7. Observations of Implementation of ISI Program Procedures

An inspection was made inside of the reactor building refueling floor to observe the ultrasonic examination of the items listed to ascertain whether the following test areas were consistent with the licensee program and applicable procedures.

- a. Closure head - Meridional weld
- b. Closure head - Circumferential weld
- c. Closure head - Studs
- d. Head spray line - Visual
- e. Closure head general condition and areas of cladding for dye penetrant tests
- f. Calibration of equipment per YA-UT-2-1

No items of noncompliance were identified.

8. Testing Results

The inspector reviewed the test data of examination results and the recording and the evaluation of the results which will be submitted to the NRC in final form within 90 days after completion.

No item of noncompliance was identified.

9. Exit Interview

At the conclusion of the inspection on October 6, 1978, a meeting was held at the site with representatives of the licensee. Attendees at this meeting included personnel whose names are indicated in Paragraph 1. The inspector summarized the results of the inspection as described in this report.