

U.S. ATOMIC ENERGY COMMISSION  
DIRECTORATE OF REGULATORY OPERATIONS  
REGION I

RO Inspection Report No: 05000029/74-07 Docket No: 50-29  
Licensee: Yankee Atomic Electric Co. License No: DPR-3  
20 Turnpike Road Priority: 1  
Westboro, Massachusetts 01581 Category: c  
Location: Rowe, Massachusetts  
Type of Licensee: PWR 175 MW(c)  
Type of Inspection: Special announced  
Dates of Inspection: July 11-12, 1974  
Dates of Previous Inspection: \_\_\_\_\_  
Reporting Inspector: W. F. Sanders, Reactor Inspector *J. Tillou (for)* 7-18-74  
Date  
Accompanying Inspectors: \_\_\_\_\_ Date  
\_\_\_\_\_ Date  
\_\_\_\_\_ Date  
\_\_\_\_\_ Date  
Other Accompanying Personnel: \_\_\_\_\_ Date  
Reviewed By: J. Tillou, Senior Inspector *J. Tillou* 7-18-74  
Date

8011080 770

POOR ORIGINAL

## SUMMARY OF FINDINGS

### Enforcement Action

None

### Licensee Action on Previously Identified Enforcement Items

Not Inspected.

### Unusual Occurrences

None Identified.

### Other Significant Findings

#### A. Current

1. The new incore instrumentation system consisting of a support structure, twenty-six (26) thermocouple positions and twenty-two (22) flux path positions, has been installed in the Reactor Vessel.
2. The old incore instrumentation system has been cut in pieces and loaded in two transfer casks for shipment to a disposal area.

#### B. Status of Previously Reported Unresolved Items

Not Inspected.

### Management Interview

The inspector described the scope of inspection performed for the following items:

- A. Material Review. (Details, Para. 4)
- B. Vendor Surveillance. (Details, Para. 5)
- C. Review of Related Documentation. (Details, Para. 6)
- D. Disposal of Old System. (Details, Para. 7)
- E. Observations. (Details, Para. 8)

No deficiencies were identified.

## DETAILS

### 1. Persons Contacted

#### Yankee Atomic Electric Company

H. Autio - Site Manager  
W. Jones - Assistant Site Manager  
J. Hoffman - Project Engineer  
F. Singleton - Quality Control & Audit Engineer

#### Westinghouse Electric Corporation Nuclear Services

G. Calhoun - Project Engineer  
F. Franks - Construction Engineer  
F. Finloyson - Field Engineer

### 2. General

This trip was made to inspect the new incore instrumentation system and the related documentation for the material quality, fabrication, installation, testing and disposal of the old system.

### 3. Status

At the time of this inspection the new incore system consisting of twenty-six (26) thermocouples and twenty-two (22) flux paths, had been installed and the closure head and upper structure were in place. The work being performed consisted of connecting the guide tubes to the drive mechanisms. No deficiencies were noted.

### 4. Material Records

Randomly selected material certifications were examined for compliance to the applicable requirements and for traceability to the actual parts. No deficiencies were identified.

### 5. Vendor Surveillance and Audits

The inspector reviewed the extent of involvement in the actual fabrication of the incore system by the licensee. The inspector noted that audits, inspection trips and extended surveillance trips were made. In addition, the Westinghouse Construction Engineer was in residence at the fabricator for a considerable period of time.

6. Documentation Review

The inspector reviewed the following:

- a. Westinghouse Quality Release 19457
- b. Installation Procedures
- c. Certification for the Qualification of Welders
- d. Certification for the Qualification of NDE Personnel
- e. Equipment Calibration

No deficiencies were identified.

7. Disposal of Old System

The disposal procedure OPT-JWF 365 was reviewed and the accountability log identified each piece to cask assignment. All of the parts were loaded in two (2) casks, and were being prepared for shipment to a disposal area. No deficiencies were identified.

8. Observations

The inspector reviewed a significant amount of 8 x 11 photographs taken throughout fabrication. The photographs had excellent definition from which the viewer could determine welding bead fusion lines surface defects. In addition, the securing of bolted fasteners by welding could be observed.

A tour of the containment was made to observe the work being performed on the connecting of the guide tubes, installation of valves, and installation of the neutron sensor drive mechanism. In addition an observation was made of the program control console for flux path mapping. No deficiencies were identified.