

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

Region I

Report No. 80-07
Docket No. 50-309
License No. DPR-36 Priority - - Category C
Licensee: Maine Yankee Atomic Power Company
25 Research Drive
Westborough, Massachusetts 01581

Facility Name: Maine Yankee Nuclear Power Station

Inspection at: Wiscasset, Maine

Inspection conducted: May 5-9, 1980

Inspectors: J. Foley for
W. Lazarus, Reactor Inspector

June 10, 1980
date signed

date signed

date signed

Approved by: T. T. Martin
T. T. Martin, Chief, Reactor Projects
Section No. 3, RO&NS Branch

6/11/80
date signed

Inspection Summary:

Inspection on May 5-9, 1980 (Report Number 50-309/80-07)

Areas Inspected: Routine, unannounced inspection of plant operations; and followup on selected Licensee Event Reports (LERs); and licensee action to limit on-line containment purging and ventilation. The inspection consisted of 18 inspector-hours onsite by one NRC region-based inspector.

Results: No items of noncompliance were identified.

DETAILS

1. Persons Contacted

- P. Anderson, Administrative Department Head
- R. Arsenault, Plant Shift Superintendent
- *J. Brinkler, Technical Support Department Head
- W. Paine, Operations Department Head
- D. Sturniolo, Technical Assistant to the Plant Manager
- *E. Wood, Plant Manager

The inspector also interviewed several plant operators and members of the technical and administrative staffs.

* denotes those present at the exit interview

2. Plant Tour

The inspector performed a tour of accessible areas of the plant, including the Control Room, Turbine Building, Primary Auxiliary Building, Spent Fuel Pool Area, Emergency Diesel Generator Rooms, Switchgear Room, Cable Spreading Area, Auxiliary Feed Pump Areas, and the Spray Building. Findings are noted below.

a. Monitoring Instrumentation and Annunciators

Control Board annunciators were checked for alarms, abnormal for plant conditions, on several occasions during the inspection. The following monitoring instrumentation was checked to verify that required instrumentation was operable and that, where applicable, values indicated were in accordance with Technical Specifications.

-- Monitoring Instrumentation

- Safety Injection Tank Levels and Pressures
- Refueling Water Storage Tank Level
- Containment Pressure
- CEA Positions
- RMS Process and Area Monitors
- RCS Temperature and Pressure
- NI Power Level
- Systematic Offset

All readings were within normal acceptable bands. No abnormal annunciator/alarm conditions existed.

b. Radiation Controls

Radiation Control established by the licensee including posting/locking of radiation areas and high radiation areas, the condition of step-off pads, and the disposal of protective clothing were observed for compliance with Technical Specifications, 10 CFR 20, and the Maine Yankee Radiation Protection Manual. No items of noncompliance were identified.

c. Plant Housekeeping and Fire Protection

Plant housekeeping conditions, including general cleanliness and storage of material to prevent fire hazards, were observed in all areas toured for conformance with the Maine Yankee Plant Safety Manual. The inspector noted that general plant housekeeping conditions were good. Cardox tank pressure and level was verified to be normal and the main transformer deluge system was set for automatic actuation. The inspector identified several status indicator lights in the fire protection systems which had apparently burned out (transformer deluge, PAB deluge cable penetration area CARDOX). The licensee agreed to check the status lamps and replace those which were burned out. This will be reviewed in a subsequent inspection (50-309/80-07-01).

d. Fluid Leaks and Piping Vibrations

Systems and equipment in all areas toured were observed for the existence of fluid leaks and abnormal piping vibrations. None were identified.

e. Control Room Manning

Control Room manning was reviewed for conformance with the requirements of 10 CFR 50.54(k) and Technical Specifications. The inspector observed that appropriate licensed operators were on shift.

f. Battery Room Ventilation

The inspector verified that battery ventilation was operable.

3. In-Office Review of Licensee Event Reports (LERs)

The inspector reviewed LERs received in RI office to verify that details of the event were clearly reported including the accuracy of the description of cause and adequacy of corrective action. The inspector also determined whether further information was required from the licensee, whether generic implications were indicated, and whether the event warranted on site followup. The following LERs were reviewed:

*-- 80-09, LPSI Loop Header Stop Valve Failed to Operate

-- 80-10, Auxiliary Feed Pump Thrust Bearing Oil Leak

Except for those LERs denoted (*), which were selected for on site followup, the inspector had no further questions in this area.

4. On Site Licensee Event Followup

For those LERs selected for on site followup, the inspector verified that reporting requirements of Technical Specifications and Regulatory Guide 1.16 had been met, that appropriate corrective action had been taken, that the event was reviewed by the licensee as required, and that continued operation of the facility was conducted within Technical Specifications limits. The review included discussions with licensee personnel, review of PORC meeting minutes, Plant Information Reports (in-house reports), and applicable logs. The following LER was reviewed on site.

-- 80-09, LPSI Loop Header Stop Valve Failed to Operate

The inspector reviewed this event with the operations and maintenance personnel involved to verify that the valve had not been previously cycled by hand and that the torque limit switch setting had been verified to be proper. The personnel involved indicated that the valve had only been cycled electrically and that the torque limit switch was set to the minimum. The inspector had no further questions in this area.

5. Abnormal HPSI Lineup

During the inspection the licensee informed the inspector that a routine inspection had identified an improper lineup in the High Pressure Safety Injection (HPSI) System. The "S" pump had been lined up as the "A" train pump, but its auxiliaries (cooling water and oil pumps) had been lined up to the "B" train Emergency Diesel Generator. This represents a licensee identified noncompliance with Technical Specification 3.6.B.2, as the required redundancy in the HPSI system had been compromised. The inspector verified that the system had been returned to the correct lineup as noted by the completed surveillance test procedure 3.1.2, "ECCS Routine Testing" of May 7, 1980. The licensee plans to issue a change to procedure 1-11-6, "Charging and Volume Control System Operation," to clarify section 5.0 which involves shifting the charging pumps. This will be reviewed in a subsequent report (50-309/80-07-02).

6. Containment Purging and Venting During Normal Operation

The inspector verified that the licensee had committed to limit on-line purging of the Containment to a maximum of 90 hours per year (WMY letter 79-146 of December 12, 1979 to NRR). In addition, the licensee has committed to implement a design change to the 42 inch butterfly valves in the Containment Ventilation System, to limit the valves to 50° open. This

design change has not been completed, but the plant has already exhausted the 90 hours of on-line purging allowed for 1980. The implementation of the design change will be reviewed following its implementation (50-309/80-07-03).

7. Exit Interview

The inspector met with licensee representatives (see details 1 for attendees) at the conclusion of the inspection to discuss the scope and findings of the inspection as detailed in this report.