

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-309/85-35

Docket No. 50-309

License No. DPR-36 Priority - Category C

Licensee: Maine Yankee Atomic Power Company

83 Edison Drive

August, Maine 04336

Facility Name: Maine Yankee Nuclear Generating Station

Inspection At: Wiscasset, Maine

Inspection Conducted: December 2-6, 1985

Inspector: P. Clemons
P. Clemons, Radiation Specialist

12/23/85
date

Approved by: Ronald R. Bellamy / for
M. Shanbaky, Chief,
PWR, Radiation Safety Section

12/23/85
date

Inspection Summary:

Inspection on December 2-6, 1985 (Report No. 50-309/85-35)

Areas Inspected: Routine, unannounced inspection of the radiation protection activities including: training, procedures, respiratory protection, source inventory and leak tests, and instrument maintenance and calibration. This inspection involved 30 inspector hours on site by one regionally-based inspector.

Results: No violations were identified.

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DETAILS

1. Persons Contacted

J. Garrity, Plant Manager
E. Boulette, Technical Support Manager/Assistant Plant Manager
L. Lawson, Quality Assurance Section Head
P. Dostie, Lead Radiological Controls Specialist
G. Pillsburg, Assistant to Manager, Technical Support Department
S. Evans, Licensing Engineer

Other licensee employees were contacted and interviewed during this inspection.

2. Purpose

The purpose of this routine inspection was to review the licensee's radiation protection activities with respect to the following elements:

- Review of training of licensee personnel;
- Review of procedures;
- Review of respiratory protection;
- Review of instrument repair and calibration; and
- Review of source inventory and leak tests.

3. Training

The licensee's training program for Radiological Controls Technicians was reviewed against criteria contained in Technical Specification 5.4, "Training" and licensee procedures. This review was conducted because it was determined during Inspection 309/85-31 that the Chemistry Technicians were not being retrained as required and this resulted in a violation being issued. The licensee's performance relative to these criteria was determined by interviewing the Radiological Controls Section Head, a Radiological Controls Foreman, members of the Training Department, and by reviewing appropriate documents.

Within the scope of this review, the following was identified.

Technical Specification 5.4, "Training" states "A retraining ... program for the facility staff shall be maintained under the direction of the Plant Manager and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971..." Section 5.1 of Procedure No. 9.200, "Radiological Controls Department Training Program" states "The Radiological Controls Supervisor will annually

evaluate plant changes, past problem areas from audits and inspections, areas of the Radiation Protection Program that need improvement and establish an annual continuing training program for the year".

Section 5.1 of Procedure No. 0-05-2, "Training Documentation System", states "... that the Training Department files are the official Source of Training Documentation for personnel qualification, licensing, certifications, audits and inspections".

Using the Training Department files, the inspector determined that only three Radiological Control Technicians were trained in health physics activities in February 1984, and only five technicians were trained in respiratory protection activities in February 1984. Further discussion with licensee personnel led to other records that indicated that some of the technicians had received some training in health physics activities during the period of February - July 1985.

This lack of systematic training did not result in a violation because of Violation 309/85-31, but the Radiological Controls Section Head assured the inspector that all Technicians would receive training as required prior to the end of December 1985. This item will be reviewed in a subsequent inspection (309/85-35-01).

Within the scope of this review, no violations were identified.

4. Procedures

The adequacy and effectiveness of the licensee's procedures were reviewed against the criteria contained in Technical Specification 5.8, "Procedures". The licensee's performance relative to these criteria was determined by discussion with Radiological Controls staff members, and by reviewing procedures.

Procedures reviewed included:

- Procedure No. 0-05-2, "Training Documentation System",
- Procedure No. 9.1.2, "Respiratory Protection Program",
- Procedure 9.1.5, "Radioactive Source Inventory and Leak Test",
- Procedure No. 9.1.20, "Bioassay Program",
- Procedure No. 9.306, "Calibration of the NNC Portal Monitor",
- Procedure No. 9.307, "Operation And Calibration Of The Eberline PIC-6A",
- Procedure No. 9.311, "Operation And Calibration Of The Eberline PAC-4S Alpha Counter",

- Procedure No. 9.313, "Operation And Calibration Of The Eberline RM-14 Radiation Monitor",
- Procedure No. 9.330, "Operation of the Robbins "RAF" Compressed Air Purification System".

The licensee's procedures appeared to be adequate for their intended purpose.

Within the scope of this review, no violations were identified.

5. Source Inventory and Leak Test

Radioactive source inventory and leak tests were reviewed against the criteria contained in Technical Specification 4.2 Table 4.2-1, "Surveillance Requirements", and Procedure No. 9.1.5, "Radioactive Source Inventory and Leak Test".

The licensee's performance relative to these criteria was determined by: discussions with a Radiological Control Foreman; Radiological Control Technicians; by reviewing appropriate documents; and by observation.

The licensee's records indicated that source inventory was being performed monthly, and leak tests were performed every six months as required.

Within the scope of this review, no violations were identified.

6. Respiratory Protection

The adequacy and effectiveness of the licensee's respiratory protection program was reviewed against the criteria contained in 10 CFR 20.103, "Exposure of individuals to concentrations of radioactive materials in air in restricted areas".

The licensee's performance relative to these criteria was determined by interviewing a Radiological Controls Specialist, and by reviewing appropriate documents.

Within the scope of this review, the following was identified.

The licensee is apparently considering taking credit for the respirator protection factors permitted by the regulations. The inspector determined that the licensee's respiratory protection program was apparently approved by the Commission in the Technical Specification Section of the original Maine Yankee operating license.

Within the scope of this review, no violations were identified.

7. Instrument Maintenance and Calibration

The licensee's program for the calibration and maintenance of portable instruments was reviewed against criteria contained in:

- 10 CFR 20.201, "Surveys";
- Reg Guide 8.6, "Standard Test Procedure for Geiger - Muller Counters";
- ANSI-N323, "Radiation Protection Instrumentation Test and Calibration"; and
- Licensee Operation and Calibration Procedures.

The licensee's performance relative to these criteria was determined by discussions with Instrument and Control personnel, a Radiological Controls Specialist, a Radiological Controls Foreman, and by reviewing appropriate records.

Within the scope of this review, no violations were identified.

8. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on December 6, 1985. The inspector summarized the purpose and scope of the inspection, and the inspection findings. At no time during this inspection was written material provided to the licensee by the inspector.