

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 50-309/85-31  
Docket No. 50-309  
License No. DPR-36 Priority          Category C  
Licensee: Maine Yankee Atomic Power Company  
83 Edison Drive  
Augusta, Maine 04336

Facility Name: Maine Yankee Nuclear Generating Station

Inspection At: Wiscasset, Maine

Inspection Conducted: November 5-8, 1985

Inspectors: *M. Shanbaky*  
for P. Clemons, Radiation Specialist

12/2/1985  
date

*M. Shanbaky*  
for T. Tuccinardi, Radiation Specialist

12/2/1985  
date

Approved By: *M. Shanbaky*  
M. Shanbaky, Chief, PWR Radiation Safety  
Section

12/2/1985  
date

Inspection Summary: Inspection on November 5-8, 1985 (Report No. 50-309/85-31)

Areas Inspected: Routine, unannounced safety inspection of the radiation protection activities associated with liquid and gaseous effluents including: training, procedures, semi-annual report, management controls, audits, ventilation systems, effluent control instruments, and liquid and gaseous releases. This inspection involved 58 hours onsite by two region-based inspectors.

Results: One violation was identified (annual retraining was not provided, paragraph 9).

8512270277 851203  
PDR ADOCK 05000309  
G PDR

## DETAILS

### 1.0 Persons Contacted

#### 1.1 Licensee Personnel

J. Garrity, Plant Manager  
T. Boulette, Assistant Plant Manager/Technical Support Manager  
P. Radsky, Chemistry Section Head  
G. Cochran, Radiological Controls Section Head  
L. Lawson, Quality Assurance Section Head  
S. Evans, Licensing Engineer  
W. Pillsbury, Assistant to Manager, Technical Support

#### 1.2 NRC Personnel

C. Holden, Senior Resident Inspector  
J. Robertson, Resident Inspector

Other licensee employees were contacted and interviewed during this inspection.

### 2.0 Management Controls

The inspector reviewed Figure 5.2-2 of the Technical Specifications, and the Maine Yankee Job Description Manual to determine the authorities and responsibilities in the area of liquid and gaseous effluents.

The Chemistry Section Head has the authority and responsibility to manage the radioactive liquid and gaseous effluent programs. The Chemistry Section Head reports to the Manager, Technical Support. The Manager, Technical Support reports to the Plant Manager.

The Instrumentation and Control Section has the responsibility to maintain, repair and calibrate the instruments associated with effluent monitoring. The Instrumentation and Control Section Head reports to the Maintenance Department Head who reports to the Plant Manager.

The Plant Engineering Department is responsible for surveillance testing of the ventilation systems associated with the effluents. The Plant Engineering Section Head reports to the Director of Plant Engineering who reports to the Manager of Operations.

The Radiological Controls Section has the responsibility to manage the waste volume reduction program and radioactive waste shipments. The Radiological Controls Section Head reports to the Manager, Technical Support who reports to the Plant Manager.

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

### 3.0 Semi-Annual Radioactive Effluent Reports

The licensee's Technical Specifications requires that radioactive effluent reports be submitted to the Commission on a semi-annual basis. The inspector reviewed the licensee's reports that were submitted during the period of July 1, 1984 to June 30, 1985. The reports appeared to be comprehensive and the data was accurate.

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

### 4.0 Radioactive Effluent Releases - Liquid and Gaseous

The licensee's radioactive effluent control program was reviewed by the inspector to determine compliance with the Technical Specifications. The following specific areas were examined: limits for nuclide release rates, concentrations of nuclides during release, and total quantity of liquid and gaseous effluent released. The use of effluent handling equipment such as effluent hold up and storage tanks and related piping, valving and radiation monitors, was reviewed. The conduct of these operations was in conformance with the applicable procedures and Technical Specifications.

Selected gaseous and liquid release permits and supporting documentation were reviewed for the period March 1, 1984 to October 1985. The gaseous and liquid release procedures were reviewed to ensure Technical Specification requirements were addressed and that the procedure included sufficient detail to be a useful document. The inspector determined that gaseous and liquid releases were made in accordance with the procedures and Technical Specifications requirements.

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

### 5.0 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 the Chemistry Section Head, and by reviewing procedures.

Procedures reviewed included:

- Procedure No. 3-6.2.1.29, "Source Calibration of the Radiation Monitoring System"
- Procedure No. 3.7.1.1, "Liquid Radioactive Waste Discharges"
- Procedure No. 3.7.1.2, "Gaseous Radioactive Waste Discharges"
- Procedure No. 3.1.7.5, "Surveillance Testing of Tech. Spec. Charcoal and HEPA Filters"

-- Procedure No. 6-05-1, "Electronic Alignment of the Radiation Monitoring System"

-- Procedure No. 7.211, "Chemistry Section Training"

The licensees' procedures were adequate for their intended purpose.

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

#### 6. Effluent Control Instrumentation

The effluent control instruments were reviewed against the criteria contained in Section 4.1 of the Technical Specifications.

The licensee's performance in this area was determined by discussion with an Instrument and Control Supervisor and by reviewing maintenance, repair, and calibration records.

The instruments were maintained and calibrated in accordance with the regulatory requirements.

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

#### 7.0 Audits

The implementation of the licensee's audit program was reviewed against criteria contained in 10 CFR 50, Appendix B and the licensee's Quality Assurance Manual.

The licensee's performance relative to these criteria was determined by discussions with Quality Assurance Personnel and by reviewing the report of an audit that was conducted in April of this year.

The audit report appeared to be adequate, and the audit was conducted in a timely manner.

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

#### 8.0 Ventilation Systems Surveillance Testing

Several ventilation systems were reviewed against the criteria specified in Section 4.11 of the Technical Specifications. The systems reviewed included the Control Room Recirculation and Breathing Air Ventilation System, the Spent Fuel Pool Ventilation System and the Containment Ventilation/Purge System.

The licensee's performance relative to these criteria was determined by interviewing an Engineer and by reviewing appropriate documents.

The ventilation systems were being maintained and tested as required.

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

#### 9.0 Training

The licensee's training program in the chemistry area was reviewed against criteria contained in Technical Specification 5.4, 10 CFR 50, Appendix B, and licensee procedures.

The licensee's performance relative to these criteria was determined by discussion with the Chemistry Section Head and by reviewing records.

Within the scope of this review, the following violation 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 and Appendix "A" of 10 CFR Part 55."

Licensee Procedure No. 7.211, "Chemistry Section Training" states that "Personnel shall receive retraining at least annually (once per calendar year), a record of which shall be maintained in the individuals Chemistry training record ..."

The inspector determined by reviewing Chemistry training records provided by the Chemistry Section Head for the two Chemistry Technicians, that they were trained last on January 4, 1984. An audit conducted by the licensee identified the fact that the technicians were last trained on January 4, 1984, but the auditor did not identify this as a problem requiring corrective action. The inspector was informed by the auditor that this was not identified as a problem because the auditor thought that the licensee had until December 31, 1985 to complete the training. The inspector told the auditor that the training should have been done no later than April 4, 1985, which would not have exceeded 25% of the time interval.

The failure to provide retaining as required is an apparent violation of the Technical Specifications (309/85-31-01).

#### 10.0 Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on November 8, 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.