U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-309/82-12

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 Atomic Power Station

Inspection At: Wiscasset, Maine

Inspection Conducted: July 26 - 30, 1982

Inspectors: Edward J. Wojnas 9/24/82
Edward J. Wojnas, Radiation Specialist date signed

M. Mojta, Radiation Specialist, RI
J. Jang, Radiation Specialist, RI

Approved by: H. W. Crocker 9/30/82
H. W. Crocker, Chief, Emergency Preparedness Section date signed

Inspection Summary: Inspection on July 26 - 30, 1982 (Report No. 50-309/82-12

Areas Inspected: Announced inspection, follow-up of emergency preparedness items from a prior appraisal performed on September 8 - 15, 1981 (Report No. 50-309/81-21). The inspection involved 84 inspector-hours onsite by three regionally based inspectors.

Results: Of the seven Appendix A items and 22 Appendix B items addressed in NRC Report Number 50-309/81-12, five of the Appendix A, and 14 of the Appendix B items were verified as corrected. The uncorrected items will be examined during a future inspection.

DETAILS

1. Persons Contacted

J. Brinkler, Technical Support Department Head and Assistant Plant Manager (MY)
G. Cochrane, Radiological Controls Section Head (MY)
F. Drottar, Senior Civil Engineer (MY)
M. Evringham, Senior Operator Instructor (MY)
* J. Garrity, Senior Director, Nuclear Engineering and Licensing (CMP)
W. Lach, Radiochemist (MY)
D. Lemieur, Supervisor, Instrumentation and Calibration (MY)
* G. Morrison, Health Physics Instructor (MY)
G. Nutting, Biologist, Bailey House (CMP)
G. Pillsbury, Radiological Controls Supervisor (MY)
P. Radsky, Chemistry Section Head (MY)
* A. Shean, Director of Training (MY)
J. Stevens, Supervisor, Specialty Training (MY)
* D. Sturniolo, Assistant to Plant Manager (MY)
* E. Wood, Plant Manager (MY)

*Denotes those present at the exit meeting.

2. General

During the period September 8 - 15, 1981, the NRC conducted an appraisal of the state of emergency preparedness at the Maine Yankee Atomic Power Station. As a result of this appraisal, the NRC identified seven items requiring correction in order for the licensee to achieve an adequate state of emergency preparedness. These findings were documented in a letter to the licensee dated February 26, 1982, and Office of Inspection and Enforcement Inspection Report Number 50-309/81-21. In a letter to the NRC dated March 29, 1982, the licensee committed to correct all of the significant findings and to consider all of the improvement items. The purpose of this inspection was to review the status of the licensee's actions in relation to resolving these items.

3. Licensee Action on Previous Inspection Findings

3.1 (Open) 50-309/81-21-03:

Development of a coordinated, all-inclusive training program for qualifying individuals and groups who are assigned various functional areas of emergency activity to include:

a. Designation of an emergency preparedness instructor within the training department, as well as development of instructor qualifications;

b. Development of lesson plans with defined goals and objectives;

c. Development of a means to be used to train members of the onsite and offsite emergency organizations in changes of assignment, facilities, equipment and procedures which may occur in the period of time between scheduled training iterations; and

d. Centralization of all emergency plan training records such as training given to security, fire protection, and offsite personnel and agencies, within the training department. (Appendix A, item 1).

The inspectors determined that a qualified individual had been hired to become an Emergency Preparedness Instructor. However, his job description did not adequately address emergency preparedness. The inspectors verified that approximately 70% of the emergency preparedness lesson plans were developed. The responsibility to track training requirements as changes in emergency preparedness occur was described in an inter-office memo, but not formalized (i.e., submitted to the individual's supervisor or incorporated into the job description). The inspectors verified that centralized training records were easily accessible within the training department.

The original schedule for lesson plan completion indicated a June 25, 1982, completion date. However, the licensee determined that complete revision of the lesson plans were required and decided to put more effort into the lesson plan revision which delayed their completion.

Further conversations with the licensee on September 17, 1982, indicated that all emergency preparedness lesson plans would be completed by the end of their current outage, which is scheduled to be concluded by December 11, 1982. Training is being performed concurrently with lesson plan development. The licensee also informed the regional administrator on September 10, 1982, that they are in the process of installing a commitment management system to ensure timely resolution of commitments.

This item will remain open until all lesson plans have been completed.

3.2 (Closed) 50-309/81-21-06:

Provisions for adequate space at the OSC to accommodate 25 to 30 individuals, as well as supplies of radiation survey instrumentation, continuous air monitors, and other equipment that may be required. (Appendix A, item 2).

The inspectors verified that the licensee made provisions for an Operational Support Center (OSC) in the Administration Building immediately behind the security checkpoint which allows unimpeded access to the plant. Licensee personnel indicated that additional space, if required, would be available in the administration office immediately adjacent to the existing OSC. Provisions were made to increase emergency supplies.

This item is closed.

3.3 (Open) 50-309/81-21-08:

Provision for post-accident coolant and containment sampling systems that will allow sampling and analysis within three hours without receipt of excessive personnel exposure, along with provisions for remote handling, storage, and transport of samples. (Appendix A, item 3).

The inspectors reviewed appropriate health physics and chemistry procedures, as well as Procedure No. 7.1, Rev. No. 2, "Post-Accident Sampling Procedure" and noted that the above finding was not addressed.

However, the licensee provided letters to the Office of Nuclear Reactor Regulation (NRR), dated May 10, 1982, and June 3, 1982, requesting relief from installation of their post-accident sampling system. System installation had been completed on April 1, 1982; however, two pressure sensors had to be returned to the manufacturer for repair. The licensee planned to get the system operational as soon as possible, but no later than the end of the 1982 refueling outage which was begun on September 29, 1982, and will last eight weeks.

This item will remain open until corrective action is completed in accordance with NRR decision.

3.4 (Closed) 50-309/81-21-11:

Specification of facilities in the vicinity of the site which would be used for administrative and logistical support by the expanded support organization in the event of a large scale response to an emergency situation and incorporation of such facilities into the Emergency Plan. (Appendix A, item 4).

The inspectors reviewed the Emergency Plan and verified that the licensee has a site (Eaton Farm) which would be used for administrative and logistical support by an expanded support organization. Additional new facilities presently under construction will be available by March 1, 1983.

This item is closed.

3.5 (Closed) 50-309/81-21-15:

Provisions in the Emergency Plan and procedures for the needs of onsite damage control, corrective action, and/or maintenance equipment and supplies. (Appendix A, item 5).

The inspectors reviewed Section 9.0, "Recovery", of the Emergency Plan and Procedure No. 2.50.11, dated 6/12/80, "Plant Entry and Recovery Plan" and determined that the needs of onsite damage control, corrective action, and/or maintenance equipment and supplies had not been addressed.

Review of the licensee's revised Emergency Plan, submitted August 12, 1982, indicated that damage control and corrective actions had been addressed.

This item is closed.

3.6 (Closed) 50-309/81-21-17:

Expansion of the emergency classification scheme to include revision of projected dose levels and use of basic core/containment status indicators to identify General Emergencies, as well as determine the relationship of the containment monitor to core/containment status.

Revision of the classification procedure to ensure prompt classification of all emergency conditions. (Appendix A, item 6).

The inspectors reviewed Procedure No. 2.50.0, "Declaration and Categorization of Emergency Condition", dated 6/25/82, and verified that the licensee included observable, explicit indicators to determine emergency conditions.

This item is closed.

3.7 (Closed) 50-309/81-21-21; 50-309/81-21-22; 50-309/81-21-23; and 50-309/81-21-24:

Revision of sample analysis procedures to provide for analysis of high level samples, as well as remote handling of the samples. (Appendix A, item 7).

The inspectors reviewed appropriate health physics and chemistry procedures, as well as Procedure No. 7.1, Rev. No. 2, "Post-Accident Sampling Procedure" which included recommendations concerning protective actions for personnel.

This item is closed.

3.8 (Closed) 50-309/81-21-01:

Provision for additional management emphasis and resources at the site level to the licensee's emergency planning effort. (Appendix B, item 1).

The inspectors reviewed the licensee's response in their April 14, 1982, letter and verified that two full-time, corporate personnel and over 60% of the site emergency planning coordinator's time is dedicated to the emergency planning effort.

This item is closed.

3.9 (Open) 50-309/81-21-02:

Revision of the description of the onsite emergency organization in Section 5.2 and Figure 5-1 of the Emergency Plan to reflect functional areas of emergency activity, reporting chains (management structures), and interrelationships down to the working level consistent with Table B-1 of NUREG-0654. (Appendix B, item 2).

The inspectors reviewed Section 5.2, Figure 5.1, of the Emergency Plan and verified that no revisions to the Emergency Plan reflecting functional areas of emergency activity, reporting chains, and interrelationships down to the working level consistent with Table B-1 of NUREG-0654 had been accomplished.

This item will remain open until corrective action has been completed.

3.10 (Open) 50-309/81-21-04:

Development of lesson plans and qualification criteria to assure adequate training of specific licensee and non-licensee groups or individuals. (Appendix B, item 3).

As addressed by the inspectors in finding 3.1 of this report, not all lesson plans and performance evaluation criteria had been developed. However, performance evaluation criteria for those lesson plans developed were used to establish the emergency contact list in the Procedure No. EP-2.50.17, Rev. 4. Also noted was that Procedure No. EP-2.50.17, Rev. 4, was reviewed by the Plant Operations Review Committee (PORC) on 7/16/82, but not distributed. Therefore, the current emergency contact list continues, based on outdated training records.

This item will remain open until the licensee completes the specialty training program modules to meet the intent of this finding.

3.11 (Closed) 50-309/81-21-05:

Improve the habitability of the TSC. (Appendix B, item 4).

The inspectors verified that Procedure No. EP-2.50.19 specified radiological monitoring and evacuation provisions for the interim Technical Support Center (TSC) area not sharing the Control Room ventilation. The inspectors noted that the hardened TSC (scheduled to be operational by April 1, 1983) will provide high efficiency particulate and activated charcoal filters.

This item is closed.

3.12 (Closed) 50-309/81-21-07:

Provisions in the Emergency Plan clearly indicating that the classroom and training center in the Information Building could be rapidly transformed into an active Emergency Operations Facility (EOF). (Appendix B, item 5).

During the September 26, 1982, exercise, the inspectors verified that the Information Center Building was rapidly transformed into the Emergency Operations Facility (EOF). In addition, the inspector's review of the Emergency Drill Observation Document Sheets indicated that no negative findings were recorded concerning the activation of the EOF.

This item is closed.

3.13 (Open) 50-309/81-21-09 and 50-309/81-21-10:

Provisions for remote handling of gas and particulate effluent sample filters, as well as high level liquid samples. (Appendix B, item 6).

The inspectors reviewed Procedure No. 7.1, Rev. No. 2, "Post-Accident Sampling Procedure" and verified that the above finding was not addressed in Procedure No. 7.1.

This item will remain open until corrective action is completed.

3.14 (Closed) 50-309/81-21-12:

Provisions at the News Center for security, communications, and other equipment needed to operate the center consistent with its designated functions during an emergency. (Appendix B, item 7).

The inspectors reviewed Section 5.2 of the Emergency Plan. Licensee consideration of this finding in their letter of April 14, 1982, indicated that the National Guard Armory in Augusta, Maine, had been designated as the Emergency News Center.

This item is closed.

3.15 (Closed) 50-309/81-21-13:

Calibration/testing of the high range containment air monitor over its entire range. (Appendix B, item 8).

The auditors reviewed the calibration/testing program results of the high range containment monitor and determined that it was tested over its entire range.

This item is closed.

3.16 (Open) 50-309/81-21-14:

Provisions for written agreement with offsite agencies for self-contained breathing apparatus (SCBA) support. (Appendix B, item 9).

The inspectors verified the onsite capability for refilling self-contained breathing apparatus (SCBA), as well as the licensee response of April 14, 1982. The licensee planned to approach the Wiscasset, Maine, Fire Department and propose that Maine Yankee supply them with a portable air compressor for refilling SCBA tanks. The compressor will also be utilized to support site operations.

This item will remain open until the above action is completed.

3.17 (Closed) 50-309/81-21-16:

Provision for inventory controls to ensure that adequate emergency equipment supplies would be available in the event of an emergency. (Appendix B, item 10).

The inspectors verified that inventory controls of emergency equipment and supplies were in place.

This item is closed.

3.18 (Open) 50-309/81-21-18:

Revision of the dose assessment procedure to highlight the steps to be performed by the control room and emphasize the need for prompt assessment of potential iodine releases. (Appendix B, item 11).

The inspectors verified that the dose assessment procedure is being revised.

This item will remain open until the above action is completed.

3.19 (Closed) 50-309/81-21-19:

Reference Procedure No. 2.50.12 in Procedure No. 2.50.0, as well as provide Procedure No. 2.50.7, the Control Room, and OSC with site survey maps. (Appendix B, item 12).

The inspectors verified that procedural changes and references had been completed and survey maps provided.

This item is closed.

3.20 (Closed) 50-309/81-21-20:

Reference to the in-plant survey forms and maps in Procedure No. 2.50.7 to include their location, as well as classification of the purpose of the procedure. (Appendix B, item 13).

The inspectors verified that in-plant survey forms and maps were referenced in Procedure No. 2.0.7.

This item is closed.

3.21 (Closed) 50-309/81-21-24:

Specification of the radiation protection steps in Chemistry Procedure No. 7.1 to be taken, as well as the location of special tools, (i.e., lead pig) required for containment air sampling and primary coolant sampling. (Appendix B, item 14).

The inspectors verified that radiation protection steps and location of special tools required for containment air and primary coolant sampling was included in Chemistry Procedure No. 7.1.

This item is closed.

3.22 (Open) 50-309/81-21-26 and 50-309/81-21-27:

Development of a post-accident liquid waste sampling and analysis procedure that addresses radiation protection and special handling of high level samples. (Appendix B, item 15).

The inspectors reviewed Procedure No. 7.1, Rev. No. 2, "Post-Accident Sampling Procedure" and Procedure No. 3.7.1.1, "Liquid Radioactive Waste Discharge." The post-accident liquid waste sampling and analysis procedures had not been developed.

This item will remain open until corrective action is completed.

3.23 (Closed) 50-309/81-21-28:

Establishment of an emergency offsite environmental monitoring program that meets the requirements of NUREG-0654, criteria H.6.b., and development of appropriate supporting procedures. (Appendix B, item 16).

The inspectors reviewed Procedure No. 2.50.17, "Emergency Notification", which provided information to promptly meet Criteria H.6.b. of NUREG-0654.

This item is closed.

3.24 (Closed) 50-309/81-21-29:

Specifications of the location of equipment and other supplies used for high radiation entry, as well as the need for a high range survey instrument (1000 R/hr); reference to other procedures (e.g., Procedure Nos. 2.50.7 and 2.50.20) in Procedure No. 2.50.14, "Emergency Radiation Exposure Control"; and specification of who has the authority to authorize the issuance of potassium iodide (KI). (Appendix B, item 17).

The inspectors verified that procedures exist which address high range survey instrumentation, references to other procedures, and authority to issue potassium iodide (KI).

This item is closed.

3.25 (Open) 50-309/81-21-30:

Provision for direct offsite evacuation to a predesignated assembly area(s). (Appendix B, item 18).

The inspectors verified that the licensee had not made provisions for direct offsite evacuation to a predesignated assembly area(s), but licensee personnel indicated that they plan to address the problem during the next Emergency Plan revision.

This item closed.

3.26 (Closed) 50-309/81-21-31:

Provisions to annually survey and assess local population awareness of the public notification system. (Appendix B, item 19).

The inspectors verified that the licensee had made reasonable efforts to assess local public awareness of the public notification system.

This item is closed.

3.27 (Closed) 50-309/81-21-32:

Provisions for the performance of all necessary drills and exercises in accordance with the requirements set forth in Procedure No. 2.50. 5, "Emergency Plan Training and Exercise". (Appendix B, item 20).

The inspectors verified that drills and exercises were conducted in accordance with Procedure No. 2.50.5.

This item is closed.

3.28 (Closed) 50-309/81-21-33:

Establishment of a priority distribution system whereby the EOF receives controlled copies of the Emergency Plan and implementing procedures expeditiously. (Appendix B, item 21).

The inspectors verified that the Maine Yankee Controlled Documents Master Form included instructions to immediately update the controlled copies of the Emergency Plan and implementing procedures located in the Emergency Coordinator Emergency Kit in the EOF.

This item is closed.

3.29 (Open) 50-309/81-21-34:

Update agreements between the licensee and offsite groups and provide for refresher training of offsite agencies, including discussion of State responsibilities in conjunction with the licensee's emergency response. (Appendix B, item 22).

The inspectors determined that agreements between the licensee and offsite support groups had not been completed in their present plan, but a revised Emergency Plan with updated letters of agreement is scheduled for publication in August 1982.

This item will remain open until correction action is completed.

4. Exit Interview

On July 29, 1982, at the conclusion of the inspection, the inspectors met with persons listed in paragraph 1, and the team leader presented the scope and findings of the inspection.