

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

RO Inspection Report No: 50-029/74-10 Docket No: 50-029
Licensee: Yankee Atomic Electric Co. License No: DPR - 3
20 Turnpike Road Priority: I
Westboro, Massachusetts Category: C
Location: Rowe, Massachusetts
Type of Licensee: PWR 180 MW
Type of Inspection: Routine, Announced (Emergency Planning)
Dates of Inspection: September 12-13, 1974
Dates of Previous Inspection: January 21-25, 1974
Reporting Inspector: *C. Gallina* Date: 10/25/74
Charles O. Gallina, Ph.D.,
Radiation Specialist
Accompanying Inspectors: _____ Date: _____

Other Accompanying Personnel: _____ Date: _____
Reviewed By: *J. P. Stohr* Date: 10/25/74
J. P. Stohr, Chief
Environmental Protection & Special Programs Section

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SUMMARY OF FINDINGS

Enforcement Action (Emergency Planning)

None

Licensee Action on Previously Identified Enforcement Items (Emergency Planning)

None Identified

Design Changes

None

Unusual Occurrences

None

Other Significant Findings

A. Current

No violations were identified during this inspection.

B. Unresolved Items

No unresolved items were identified during this inspection.

C. Status of Previously Reported Unresolved Items (Emergency Planning)

None Identified

Management Interview

A management interview was held on September 13, 1974, at the Yankee Nuclear Power Station at the conclusion of the inspection at the site.

The following individuals were in attendance:

Dr. C. O. Gallina, Radiation Specialist, AEC-RO:I
Mr. H. A. Autio, Plant Superintendent, YR
Mr. N. N. St. Laurent, Technical Assistant to Plant Superintendent, YR
Mr. J. A. Flanigan, Plant Health Inspector, YR

During this meeting the following items were discussed:

A. Emergency Implementation Procedures

The inspector noted that the upgrading program for the Emergency Implementation Procedures was essentially complete with the exception of modifications to be added subsequent to the installation of the new plant vent monitoring system. The licensee stated that all procedures would be completed prior to the conduct of an emergency training exercise later in the year. The licensee confirmed that appropriate procedures would be modified subsequent to the installation of the aforementioned monitoring system. (Report Details, Paragraph 3)

B. Search and Rescue/Accounting Procedures

The inspector stated that with the exception of an accounting checklist, Search and Rescue/Accounting Procedures appeared to be complete. The licensee stated that these procedures would be incorporated under the Security Emergency Procedures of the YR Emergency Plan. (Report Details, Paragraph 4)

C. Alternate Emergency Control Center

The inspector noted that original plans for an Alternate Emergency Control Center had been significantly modified from those presented during the last inspection in this area (See RO Inspection Report No. 50-029/74-01). The licensee confirmed this fact and stated that plans for the new Alternate Emergency Control Center had been initiated and that no significant difficulties were anticipated in its completion. (Report Details, Paragraph 5)

D. Facility Plot Plan

The licensee stated that the master copy for the facility plot plan had been constructed and that additional copies were being made and would be installed at specified locations prior to the emergency training exercise. (Report Details, Paragraph 6)

E. Emergency Documentation

The licensee stated that based on some minor problems encountered during recent training exercises, methods were being developed to increase the efficiency and accuracy of emergency documentation. (Report Details, Paragraph 7)

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F. Letters of Agreement

The inspector stated that letters of agreement had not been obtained from three off-site agencies. The licensee stated that no problem was anticipated in this area and that an active effort had been initiated to obtain these letters in the near future. (Report Details, Paragraph 8)

G. Emergency Vehicles

The licensee stated that modifications to the plant emergency vehicles were currently being undertaken in conjunction with the selection of an Alternate Emergency Coordination Center. The licensee stated that an effort would be made to complete this work prior to the emergency training exercise. (Report Details, Paragraph 9)

DETAILS

1. Personnel Contacted

Mr. H. A. Autio, Plant Superintendent, YR
Mr. N. N. St. Laurent, Technical Assistant to Plant Superintendent, YR
Mr. J. A. Flanigan, Plant Health Physicist, YR
Mr. W. D. Billings, Chemistry and Health Physics Supervisor, YR
Mr. E. A. Miles, Technical Assistant, YR

2. General

This inspection was a review of the YR Emergency Plan and associated Emergency Implementation Procedures in order to determine the overall adequacy of Emergency Planning for the YR site. This report updates the status of Emergency Planning as originally documented in RO Inspection Report No. 50-029/74-01. The Emergency Plan is set forth in a document prepared by the Yankee Atomic Electric Company entitled, "Yankee Nuclear Power Station - Emergency Plan". Additional areas examined during this inspection included agreements and coordination with off-site agencies, facilities and equipment, means of monitoring the release of radioactivity, medical arrangements, training, and implementation procedures. Within these areas, the inspection consisted of a selective examination of procedures, interviews with plant personnel and observations by the inspector.

3. Emergency Implementation Procedures

The inspector reviewed all revised Emergency Implementation Procedures and determined that this upgrading was essentially complete with some minor exceptions. The licensee stated that all revisions would be completed prior to the emergency training exercise which was tentatively scheduled for late October or early November of this year. The licensee stated further that procedures related to the new plant vent monitoring system and any classification criteria based on this system, had not been completed. The licensee stated that this aspect of the procedural revision would be completed subsequent to the installation of the aforementioned monitoring system. The inspector and licensee discussed the desirability of upgrading the symptoms delineated for "site" and "general" emergencies and the licensee stated that this matter would be taken under consideration for subsequent upgrading.

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4. Search and Rescue/Accounting Procedures

The inspector reviewed the YR procedures relating to search and rescue/accounting as prepared by the licensee. The licensee stated that these functions would be handled from a security standpoint during initial phases of the emergency response. Accordingly, the procedures were included with the security emergency procedures of the YR Emergency Plan. These procedures delineate those responsibilities of security force personnel as they pertain to an emergency condition at the YR site. The licensee stated that this aspect of the procedures was essentially complete with the exception of a checklist being constructed in order to assist in accountability. The licensee stated further that the search and rescue aspects involving YR plant personnel would be conducted in accordance with recovery and reentry procedures as well as pertinent health physics procedures for the YR site. The licensee stated that all procedures related to search and rescue and/or accounting would be completed prior to the conduct of an emergency training exercise.

5. Alternate Emergency Control Center

The inspector reviewed the status of licensee plans to select and equip an Alternate Emergency Control Center. The licensee stated that due to involvement with an extended refueling outage during the summer months, original plans for the selection of an Alternate Emergency Control Center were altered due to the present unavailability of portable trailer facilities. The licensee stated that an alternate plan had been initiated whereby facilities of a neighboring utility would be utilized as an Alternate Emergency Control Center. The licensee stated that a letter to this effect would be prepared in the near future and once approval had been received, equipment and procedures would be upgraded accordingly. The licensee stated that nontransferable equipment would be duplicated at this alternate location and procedures covering the transfer of existing equipment would be provided. The licensee stated further that although the exact completion date of this aspect of emergency planning could not be stated, it was his belief that a significant portion of this planning would be completed prior to the conduct of the emergency training exercise.

6. Facility Plot Plan

The inspector reviewed the current status of the licensee's commitment to provide a Facility Plot Plan in conjunction with overall Emergency Planning at the YR site. The licensee stated that a

master copy of the plot plan had been prepared and was made available to the inspector for review. The inspector noted no deficiencies with respect to the plot plan and the licensee stated that plans would then proceed to having this plot plan duplicated for use both on and off site during emergency operations. The licensee stated that to simplify the use of the plot plan, various methods were being investigated so that a significant amount of information could be obtained from this plan under actual use. These methods included either further enlargement, lines drawn to significant areas to delineate critical information, or other similar methods.

7. Emergency Documentation

In reviewing the results of a preliminary training exercise conducted on September 5, 1974, the inspector noted some difficulty had been encountered in terms of emergency documentation. The licensee confirmed this observation and stated that corrective action already had been initiated. This corrective action included a review of the Emergency Implementation Procedures in order to construct various checklists which could be used to facilitate documentation and ensure that all critical actions had been implemented. The licensee stated that upon an internal review of this corrective action, checklists would be incorporated into the Emergency Implementation Procedures and would be utilized during the emergency training exercise scheduled for later in the year.

8. Letters of Agreement

In reviewing the letters of agreement obtained by YR in conjunction with off-site assistance for emergency implementation, the inspector noted that letters had not been received from the Commonwealth of Massachusetts or the local fire departments. The licensee stated that no difficulty was foreseen in obtaining these letters and that effort to do so had already been initiated. The licensee stated further that agreements from the Commonwealth of Massachusetts were currently being reviewed by licensee personnel and representatives from the State.

9. Emergency Vehicles

RO Inspection Report No. 50-029/74-01 stated that an emergency vehicle was being modified to contain all required equipment currently located in the guard house, thereby facilitating transfer in the event of an emergency. The inspector noted that the aforementioned modifications had not been completed at the time of this inspection. The licensee stated that in accordance with its plans of relocating the Alternate Emergency Control Center, modification

work had been temporarily postponed until such a time as the actual equipment which would have to be transferred could be determined. The inspector noted that certain items of equipment would require transfer under any conditions and the licensee stated that modifications for this equipment (e.g., film badge boards, radios, etc.) would be completed prior to the emergency training exercise.

10. Other Emergency Planning Areas

The inspector reviewed other areas of emergency planning originally identified in RO Inspection Report No. 50-029/74-01. These areas included procedures for natural disasters and toxic releases, personnel call lists, security force procedures, communications and meteorology evaluations. No deficiencies were identified in these areas and the upgrading initiated by the licensee was considered to have been completed. Actual implementation of these emergency planning areas would be further evaluated during the emergency training exercise.