

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

Region I

Report No. 50-29/79-09

Docket No. 50-29

License No. DPR-3 Priority -- Category C

Licensee: Yankee Atomic Electric Company

20 Turnpike Road

Westborough, Massachusetts 01581

Facility Name: Yankee Nuclear Power Station (Yankee Rowe)

Inspection at: Rowe, Massachusetts

Inspection conducted: August 27-29, 1979

Inspectors: C. J. Cowgill III, Reactor Inspector

September 24, 1979
date signed

date signed

Approved by: D. L. Capton, Chief, Nuclear Support
Section No. 1, RO&NS Branch

date signed

9/25/79
date signed

Inspection Summary:

Inspection on August 27-29, 1979 (Report No. 50-29/79-09)

Areas Inspected: Routine unannounced inspection of general training; requalification training; craft and technician training; and a general plant tour.

The inspection involved 28 inspection hours onsite by one NRC inspector.

Results: There were no items of noncompliance identified.

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DETAILS

1. Persons Contacted

*H. Autio, Plant Superintendent
W. Billings, Chemistry and Health Physics Supervisor
*R. Boutwell, Assistant to Plant Superintendent
R. Dobosz, Store Keeper
G. Doucette, Health and Safety Supervisor
*L. French, Engineering Assistant
J. Gedutis, Chemistry Technical Assistant
*F. Hicks, Training Coordinator
W. Howe, Chief of Security
*L. Laffond, Assistant Training Coordinator
P. Laird, Maintenance Supervisor
J. Shippee, I&C Supervisor
N. St. Laurent, Assistant Plant Superintendent
J. Trejo, Plant Health Physicist

The inspector conducted interviews and had discussions with others of your staff and employees.

*Denotes those present at the exit interview.

2. General Training

References: AP0501,, General Plant Training Program, Revision 6, dated July 1979.

AP0503, Fire Protection Training, Revision 4, dated November 1978.

a. Program Definition

The inspector reviewed the referenced procedures with respect to the program definition requirements of: 10 CFR 50 Appendix B, Criterion II; 10 CFR 19.12; 10 CFR 73.50; and ANSI N18.1. The referenced procedures set forth formal training programs for: new employees; temporary maintenance or service personnel; operations personnel; technicians; and craft personnel.

These programs establish training which covers: administrative controls and procedures; radiological health and safety; controlled access and security; industrial safety training; respirator

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protection; quality assurance training; fire training; and emergency plan training. Formal training is also provided for female employees on the contents of Appendix A to Regulatory Guide 8.13.

No items of noncompliance were identified.

b. Program Participation

The inspector reviewed twenty of the licensee's records to ensure that the required training had been conducted. In addition, the inspector interviewed several of those individuals whose records were reviewed. The interviews were to verify that: the scope of the training was similar to that contained in the licensee's records; the training as conducted was meaningful to those attending; and that the areas presented were covered accurately and sufficiently from the participants' point of view.

Interviews were conducted with those personnel listed below:

- two employees with less than one year in their current position;
- two employees with more than one year of service;
- one temporary employee; and,
- two female employees.

No items of noncompliance were identified.

3. Requalification Training

Reference: AP-0500, Yankee Rowe Operator Training Program, Revision 4, dated February 1978.

a. Program Items

The inspector verified that, as currently established, the operator requalification program includes the following items:

- an established, planned, continuing lecture schedule;
- documentation of personnel attendance;

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- required reactivity control manipulations;
- discussions/reviews of changes in facility design, procedures and facility license; and,
- review of abnormal/emergency procedures.

No items of noncompliance were identified.

The licensee program requires annual operator requalification examinations and operator evaluations. Currently, some individuals have not taken the required annual examinations for a period of seventeen months. The reasons for this delay are discussed in 3c below. In discussions with licensee representatives, they stated that in the future the annual requalification examinations frequency would not exceed 15 months, with the further requirement that an examination would be administered to each operator every calendar year. The licensee representative stated that this change would be in place by February 1, 1980.

b. Record Review

The inspector selected and reviewed the records of nine licensed operators to verify that each contained the following documentation:

- completed course and yearly examinations with answers;
- manipulations of controls for reactivity changes required by the program;
- discussion of emergency/abnormal procedures and responses; and,
- results of supervisory evaluations.

The inspector identified no items of noncompliance.

c. 1979 Requalification Program Implementation

The licensee's 1979 requalification program lectures, annual operator requalification examinations, and operator evaluations were originally scheduled to be conducted starting in May 1979. The start of the program was contingent upon the completion of the reactor operator training class that was in training at the time.

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The Operator Licensing Branch cancelled the May license date for Yankee Nuclear Power Station. When this cancellation occurred, the licensee informed the Operator Licensing Branch that the 1979 program might not be completed by the end of the calendar year. They received verbal concurrence for this modification in their program from Mr. Paul Collins, Chief of the Operator Licensing Branch. The program is currently scheduled to begin in September, 1979. Licensee representatives stated that the program would be current in all respects by January 31, 1980. Based on the information presented, this item is considered unresolved (29/79-10-01)

d. Personnel Interviews

The inspector selected and interviewed 5 licensed personnel who participated in the requalification program. The interviews were directed at obtaining subjective appraisal of the content and effectiveness of the requalification training as presented.

The inspector identified no discrepancies or inconsistencies between the interview results and the licensee's records.

4. Craft Personnel Training

- References:
- (1) AP5006, Training of Maintenance Department Personnel Including Initial and Annual Review Training Requirements, Revision 3, dated July 1979
 - (2) AP6001, Initial and Review Qualification Training of I&C Technical Testers, Revision 4, dated July 1979
 - (3) AP9000, Qualifications and Training of Chemistry and Health Physics Personnel.
 - (4) AP0600, Stores Department Training Program Revision 2, dated May 1978.

a. Program Definition

The inspector reviewed the referenced procedures with respect to the program definition requirements of: 10 CFR 50 Appendix B, Criterion II, ANSI N18.1; ANSI N45.2.6 and the Yankee Topical Quality Assurance Program. The referenced procedures set forth formal training programs for the I&C, maintenance, chemistry,

Health Physics, and stores personnel. These programs establish training which covers: initial and annual training requirements for on-the-job training formal technical training commensurate with the job classifications; and, certification procedures to meet ANSI N45.2.6.

A review of the maintenance department revealed that significant problems occurring at like facilities are reviewed once per year. The licensee representative stated that this review would be more effective if done on a monthly basis. He further stated that he would be conducting the subject reviews monthly except during periods of high maintenance activity such as outages.

The inspector identified no items of noncompliance.

b. Program Participation

The inspector reviewed the licensee's records and conducted interviews with selected individuals. The interviews were conducted to ascertain that the documented training had been given and was not directed at determining that the individuals were qualified to perform their assigned tasks.

The following personnel were interviewed:

- one mechanic and one welder
- one I&C technician
- one stores department technician
- and one student assigned to the Health Physics department

During the review of training records for the chemistry department the inspector identified that one student had been assigned to the department for the period June 1 to August 24, 1979. Further investigation revealed that he had received on-the-job training in primary and secondary chemistry analysis. Discussions with the licensee representatives revealed that he had performed actual independent sampling and analysis of primary chemistry in technical specification related areas.

Further discussions and review of selected primary chemistry logs revealed that his analysis was reviewed in each case by a qualified plant chemist.

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The licensee training procedure provides that those persons who verify quality must be certified. The procedure also specifies that work by such individuals shall be reviewed.

The subject individual had not been certified to perform his assigned duties.

In discussions with licensee representatives, it was stated that the chemistry department training program will be modified to more clearly define the qualification requirements for new and temporary employees. The licensee representative also agreed to include a formal certification by the chemistry department supervisor prior to the subject employees performing any such sampling or analysis.

This item is considered unresolved (29/79-10-02). The licensee representative stated that the modification of this program would be in place by January 1, 1980.

5. Auxiliary Operator Training

Reference: AP2003, Initial and Review Qualification of Auxiliary Operators, Revision 4, dated April 1978.

a. Program Definition

The inspector reviewed the referenced procedure with respect to the program definition requirements of: 10 CFR 50 Appendix B, Criterion II; and ANSI N18.1. The referenced procedure set forth formal training requirements for persons assigned as auxiliary operators. The program provides for on-the-job training; instruction by shift supervisors; and qualification certification by the operations supervisor.

The inspector identified no items of noncompliance.

b. Program Participation

The inspector reviewed the records for seven individuals and conducted interviews with two auxiliary operators. One operator had been qualified less than one year and the other was ready for final certification by the Operations Supervisor. The interviews were conducted to ascertain that the documented training had been given and were not directed at determining that the individuals were qualified to perform their assigned tasks.

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The inspector identified no discrepancies nor inconsistencies between the interview results and the licensee records. The inspector identified no items of noncompliance.

6. Plant Tour

The inspector toured the auxiliary building and turbine building on August 28, 1979. During the subject tour, the inspector observed conditions for plant cleanliness, fire and safety hazards, valve leakage and fluid buildup on floors and structural members.

The inspector identified no items of noncompliance.

7. Unresolved Items

Unresolved items are matters about which more information is required to identify that the item is acceptable or in noncompliance. Unresolved items are identified in paragraphs 3 and 5 of this report.

8. Exit Interview

The inspector met with the licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on August 29, 1979. The inspector summarized the purpose and scope of the inspection and the findings documented in this report. The licensee representative acknowledged the inspector's findings.

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