

REVIEWED BY:

J H Joyner
(NAME)

James H Joyner
(SIGNATURE)

NRC Region I
(ORGANIZATION)

12/14/90
(DATE)

U. S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-309/90-26

Docket No. 50-309

License No. DPR-36

Licensee: Maine Yankee Atomic Power Station
83 Edison Drive
Augusta, Maine 04336

Facility Name: Maine Yankee Atomic Power Station

Inspection At: Wiscasset, Maine

Inspection Conducted: November 13-16, 1990

Inspectors:

Thomas W Dexter

T. W. Dexter, Physical Security Inspector

12-7-90
date

Edward B. King

E. B. King, Physical Security Inspector

12-7-90
date

Approved by:

R. R. Keimig

R. R. Keimig, Chief, Safeguards Section,
Facilities Radiological Safety and
Safeguards Branch

12-7-90
date

Inspection Summary: Routine Unannounced Physical Security Inspection on
November 13-16, 1990 (Inspection No. 50-309/90-26)

Areas Inspected: Onsite Followup of a Previously Identified Item; Management Support and Audits; Protected and Vital Area Physical Barriers, Detection and Assessment Aids; Protected and Vital Area Access Control of Personnel, Packages and Vehicles; Alarm Stations and Communications; Power Supply; Security Training and Qualifications; and Testing, Maintenance and Compensatory Measures.

Results: The licensee was found to be in compliance with NRC requirements in the areas inspected. However, two potential weaknesses were identified in the areas of Protected and Vital Area Access Control of Personnel. One previously identified item was reviewed and closed.

DETAILS

1. Key Personnel Contacted

a. Licensee Personnel

- *P. Lydon, Vice President Finance and Administration
- *R. Prouty, Assistant Plant Manager
- *W. Smith II, Security Programs Coordinator
- *H. Torberg, Jr., Security Supervisor, Operations
- *S. Nichols, Manager, Nuclear Engineering and Licensing
- *S. Leclerc, Quality Program Section Head

b. Contractor Personnel (Hall Security)

- *W. Collins, Senior Vice President
- *C. Clune, Deputy Chief of Security
- *C. Urquhart, Chief of Security

c. U.S. Nuclear Regulatory Commission Personnel

- C. Marschall, Senior Resident Inspector
- *R. Freudenberger, Resident Inspector
- *S. Fiveash, Physical Security Assistant

d. State of Maine

- *P. Dostie, State Nuclear Safety Inspector

The inspectors also interviewed other licensee and contractor security personnel.

*Indicates those present at the exit interview.

2. Onsite Followup of Previously Identified Item

- a. (Closed) IFI 50-309/89-19-01 - Security force morale was identified as a potential weakness by the inspectors. Based on discussions with licensee management and formal interviews with security force members (SFMs), the inspectors determined that the licensee's actions to address this issue have resulted in a significant improvement. Some of these actions included: pay increases; reduction of overtime; and the distribution of information to plant employees by plant management strongly supporting the SFMs and security program, and reiterating that disciplinary action will be taken against employees who fail to cooperate with SFMs when they are performing their assigned duties. This item is closed.

3. Management Support and Audits

- a. Management Support - Management support for the licensee's physical security program was determined to be adequate by the inspectors. This determination was based upon the inspectors' reviews of various aspects of the licensee's program during this inspection as documented in this report.
- The inspectors noted that security force members (SFM) are very knowledgeable of their duties, contents of procedures and responsibilities, and exhibit a very professional demeanor. The licensee's security management and the contract security supervisors have developed an excellent working relationship, which was evident by the development and implementation of a security tracking matrix that sets priorities for security enhancements and programmatic concerns. Regular meetings are scheduled among licensee corporate, site, and contractor security management to discuss the progress of items on the matrix. Based upon the review of the present security upgrades, corporate support is aggressive and very evident.
- b. Audits - The inspectors reviewed the 1990 annual security program audit report and verified that the audit had been conducted in accordance with the NRC-approved Physical Security Plan (the Plan). The audit was comprehensive in scope with the results reported to the appropriate levels of management. The inspectors' review included the responses from the security organization to the audit findings. The documented corrective actions appeared appropriate for the findings. No deficiencies were noted.

4. Protected and Vital Area Physical Barriers, Detection and Assessment Aids

- a. Protected Area Barriers - The inspectors conducted a physical inspection of the protected area (PA) barrier on November 13-14, 1990. The inspectors determined by observation that the barriers were installed and maintained as described in the Plan. No deficiencies were noted.
- b. Protected Area Detection Aids - The inspectors observed the PA perimeter detection aids on November 14, 1990. The inspectors determined that the detection aids were installed, maintained and operated as committed to in the Plan.

The inspectors requested the licensee to test the detection aids at over twenty locations. All tests results were satisfactory with no adjustments required. No deficiencies were noted.

- c. Isolation Zones - The inspectors verified that the isolation zones were adequately maintained to permit observation of activities on both sides of the PA barrier. No deficiencies were noted.
 - d. Protected Area and Isolation Zone Lighting - The inspectors conducted a lighting survey of the PA and isolation zones on November 14, 1990. The inspectors determined by observation that lighting in the PA and isolation zones was adequate. No deficiencies were noted.
 - e. Assessment Aids - The inspectors observed the PA perimeter assessment aids during daylight and the hours of darkness, and determined that they were installed, maintained, and operated as committed to in the Plan. The inspectors confirmed that a potential weakness in assessment capability in the vicinity of the main gate house, identified during a previous inspection, had been corrected. No deficiencies were noted.
 - f. Vital Area Barriers - The inspectors conducted a physical inspection of all of the vital area (VA) barriers during the period of the inspection. The inspectors determined, by observation, that the VA barriers were installed and maintained as described in the Plan. No deficiencies were noted.
5. Protected and Vital Areas Access Control of Personnel, Packages, and Vehicles
- a. The inspectors determined that the licensee was exercising positive control over personnel access to the PA, ACAs and VAs. This determination was based on the following:
 - 1. The inspectors verified that personnel were properly identified and authorization was checked prior to issuance of badges and key cards. No deficiencies were noted.
 - 2. The inspectors verified that the licensee was implementing a search program for firearms, explosives, incendiary devices and other unauthorized materials as committed to in the Plan. The inspectors observed both plant and visitor personnel access processing during peak and off-peak traffic periods. The inspectors also interviewed members of the security force and licensee's security staff about personnel access procedures.

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3. The inspectors verified that the VA access list was revalidated at least once every 31 days as committed to in the Plan. However, the inspectors noted that approximately eighty percent of the personnel authorized for PA unescorted access also were authorized access to the VAs. This percentage included secretaries, maintenance workers, and vendors. The inspectors discussed this matter with the licensee, emphasizing that access to VAs should be limited to personnel requiring access to perform their duties. The licensee agreed to review this portion of the access program to determine what changes are necessary. This matter will be reviewed during subsequent inspections.
4. The inspectors verified that the licensee takes precautions to ensure that an unauthorized name cannot be added to the access list by having only one member of security management authorized to make changes to that list. No deficiencies were noted.
5. The inspectors determined, by observations, that individuals in the PA, ACAs, and VAs display their access badges as required. Not deficiencies were noted.
6. The inspectors verified that the licensee has escort procedures for visitors to the PA, ACAs and VAs. No deficiencies were noted.

b. Package and Material Access Control

The inspectors determined that the licensee was exercising positive control over packages and material that are brought into the PA at the main access control point. The inspectors reviewed the package and material control procedures and found that they were consistent with commitments in the Plan. The inspectors also observed package and material processing and interviewed SFMs and the licensee's security staff about package and material control procedures. No deficiencies were noted.

- c. Vehicle Access Control - The inspectors determined that the licensee properly controls vehicle access to and within the PA. The inspectors verified that vehicles are properly authorized prior to being allowed to enter the PA. Identification is verified by the security force member (SFM) at the main vehicle access portal. This procedure is consistent with the commitments in the Plan. The inspectors also reviewed the vehicle search procedures and

determined that they were consistent with commitments in the Plan. The inspectors determined that at least two SFMs control vehicle access at the main vehicle access portal. The inspectors also observed vehicle searches and interviewed members of the security force and the licensee's security staff about vehicle search procedures. No deficiencies were noted.

- d. Locks, Keys and Combinations - The inspectors reviewed the licensee's procedures for lock and key control and determined that they were consistent with commitments in the Plan. The inspectors physically inspected the key storage cabinets, reviewed the PA, ACA, and VA key inventory logs, and discussed lock and key procedures with SFMs and the licensee's staff. No deficiencies were noted.

6. Alarm Station and Communications

The inspectors observed the operation of the Central Alarm Station (CAS) and Secondary Alarm Station (SAS) and determined they were operated as committed to in the Plan. CAS and SAS operators were interviewed by the inspectors and found to be knowledgeable of their duties and responsibilities. The inspectors verified that the CAS and SAS did not contain any operational activities that would interfere with the assessment and response functions. No deficiencies were noted.

The licensee stated that a major upgrade of the entire computer system has been scheduled for 1991 to further enhance the effectiveness of the security program.

- 7. Security, Training and Qualifications - The inspectors randomly selected and reviewed training and qualification records for twelve SFMs. The physical qualification and firearm qualification records for armed and unarmed SFMs were inspected and found to be in accordance with the NRC-approved Training and Qualification (T&Q) Plan, and properly documented. No deficiencies were noted.
- 8. Testing and Maintenance - The inspectors determined that the licensee was conducting testing and maintenance of security systems as committed to in the Plan. The inspectors made this determination based upon a review of the test records for security equipment, observations of functional testing of security search equipment located in the main access control point and witnessing functional testing of the protected area barrier Intrusion Detection System (IDS) equipment. No deficiencies were noted.
- 9. Exit Interview

The inspectors met with the licensee representatives indicated in Paragraph 1 at the conclusion of the inspection on November 16, 1990. At that time, the purpose and scope for the inspection were reviewed, and the findings were presented. The licensee's commitments, as documented in this report, were reviewed and confirmed with the licensee.

Yankee Atomic Electric Company
ATTN: Mr. P. L. Anderson
Project Manager for Maine Yankee
580 Main Street
Bolton, Massachusetts 01740-1398

Maine Yankee Atomic Power Company
ATTN: Mr. John H. Garrity
Vice President
Engineering and Licensing
83 Edison Drive
Augusta, Maine 04336

Maine Yankee Atomic Power Company
ATTN: Mr. J. Randazza
Assistant Chairman of the
Board
83 Edison Drive
Augusta, Maine 04336

Maine Yankee Atomic Power Company
ATTN: Mr. J. C. Firth
Vice President, Public and
Governmental Affairs
83 Edison Drive
Augusta, Maine 04336

Maine State Planning Office
ATTN: Mr. Uldis Vanags
184 State Street
State House, Station 36
Augusta, ME 04333

State of Maine, SLO Designee
Mr. Clough Toppan, Manager
Radiological Health Program
Dept of Human Services
State House (Sta 10)
Augusta, ME 04333

MAINE YANKEE HEARING SERVICE LIST

Mr. Charles B. Brinkman
Manager, Washington Nuclear Operations
Combustion Engineering, Inc.
12300 Twinbrook Parkway, Suite 330
Rockville, Maryland 20852

Mr. G. D. Whittier, Manager
Nuclear Engineering and Licensing
Maine Yankee Atomic Power Company
83 Edison Drive
Augusta, Maine 04336

John A. Ritsher, Esq.
Ropes & Gray
225 Franklin Street
Boston, Massachusetts 02110

State Planning Officer
Executive Department
189 State Street
Augusta, Maine 04330

Dr. E. T. Boulette, Vice President
Operations
Maine Yankee Atomic Power Company
P. O. Box 408
Wiscasset, Maine 04578

Mr. Robert W. Blackmore
Plant Manager
Maine Yankee Atomic Power Company
P. O. Box 408
Wiscasset, Maine 04578

First Selectman of Wiscasset
Municipal Building
U.S. Route 1
Wiscasset, Maine 04578

Mr. P. L. Anderson, Project Manager
Yankee Atomic Electric Company
580 Main Street
Bolton, Massachusetts 01740-1398

Resident Inspector
Maine Yankee Atomic Power Station
U.S. Nuclear Regulatory Commission
P.O. Box E
Wiscasset, Maine 04578

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406