

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-271/86-06

Docket No. 50-271

License No. DPR-28

Licensee: Vermont Yankee Nuclear Power Corporation

R.D. 5, Box 169

Ferry Road, Brattleboro, Vermont 05301

Facility Name: Vermont Yankee Nuclear Power Station

Inspection At: Vernon, Vermont

Inspection Conducted: March 10-13, 1986

Date of Last Physical Security Inspection: September 24-26, 1986

Type of Inspection: Routine, Unannounced Physical Security Inspection

Inspector:

William J. Madden 4-28-86
for William J. Madden, Physical Security Inspector date

Approved by:

Richard R. Keimig 4-28-86
Richard R. Keimig, Chief, Safeguards date
Section, DRSS

Inspection Summary: Security Plan and Implementing Procedures; Management Effectiveness; Records and Reports; Assessment Aids; follow-up on previously identified violations; and status of inspector follow-up items.

Results: The licensee was in compliance with NRC requirements in the areas examined and licensee corrective actions to previously identified inspection findings were found acceptable.

DETAILS

1. Key Person Contacted

J. Pelletier, Plant Manager
R. Wanczyk, Technical Services Superintendent
R. Pagodin, Plant Services Supervisor
J. Sinclair, Security Supervisor
R. Milligan, Administrative Supervisor
R. Putnam, Security Records Clerk
C. Langmaid, Chief, Green Mountain Security
T. Silko, USNRC Resident Inspector

Other licensee personnel and members of the Green Mountain security contractor were interviewed by the inspector.

2. MC 30707 - Exit Interview

At the conclusion of the inspection on March 13, 1986, the inspector met with the licensee representatives listed in paragraph 1 and reviewed the purpose and scope of the inspection and presented the findings.

Written material was not provided to the licensee by the inspector at any time during this inspection.

3. MC 92702 - Follow-up on Previously Identified Violations

(Closed) Violation (85-19-01) - Failure to complete alarm logs. The inspector confirmed, by a review of logs for the week of March 10, 1986 in the Central Alarm Station, by discussions with management, and by a review of a management directive concerning this subject, that corrective actions were taken as stated in the licensee's letter of October 4, 1985 to the NRC in response to the violation.

(Closed) Violation (85-19-02) - Observation of CAS activities from outside the CAS. The inspector confirmed that the licensee had implemented modifications to the CAS that eliminated this problem as stated in the licensee's letter of October 4, 1985 to the NRC in response to the violation.

(Closed) Violation (85-19-03) - SAS monitoring deficiency. The inspector confirmed that an additional operator was stationed in the CAS to compensate for the deficiency and that this action was in accordance with a security plan change, dated January 24, 1986 which had been submitted to NRC under 10 CFR 50.54(p). The licensee's corrective action was as stated in a October 4, 1985 letter to NRC in response to the violation.

(Closed) Violation (85-31-01) - Failure to control access to the protected area and to implement a required compensatory measure. The inspector confirmed that the access control program had been modified to include revised procedural controls and the use of additional barriers and systems, and that the licensee had completed a special task force study to evaluate the security program performance objectives. The inspector reviewed new Security Procedures, S.P. 0953 and S.P. 0957, dated November 1985. The inspector also reviewed licensee memoranda addressing planned program improvements. These improvements included recommendations made by the task force. The inspector confirmed that these actions were as stated in the licensee's December 13, 1985 letter to NRC in response to the violation.

(Closed) Violation (85-31-02) - Failure to implement required compensatory measures for a non-functional alarm zone. The inspector confirmed, by review of Security Procedure, S.P. 0953 and observation, that personnel are aware of their duties and the procedures are being implemented in accordance with the licensee's letter to the NRC, dated December 13, 1985, in response to the violation.

4. MC 92701 - Status of Inspector Follow-up Items

(Closed) IFI (85-19-04) - 10 CFR 73.2(i) vital equipment evaluation of an alternate battery supply source. The inspector reviewed the evaluation completed by the licensee's Lead Systems Engineer, dated December 30, 1985, which concluded that the alternate battery sources were not vital equipment. The inspector found the evaluation acceptable.

(Open) IFI (85-19-05) - Evaluation of alarm system components to interim Federal Specification W-A-00450B. This evaluation revealed that modifications to security systems will be required. The licensee advised the inspector that a schedule for making these modifications will be provided by March 30, 1986. This will be followed during future inspections.

(Closed) IFI (85-31-02) - Obstruction in isolation zone. The inspector confirmed by observation and a review of documentation that the obstruction was removed on September 27, 1985.

(Closed) IFI (85-31-03) - Implement training program for special access control activity. The inspector confirmed, by a review of S.P. 0953, observations of the security force members and supervision, and a review of the special training program covering this topic, that the training was completed for all members of the security force on November 18, 1985 and that performance was adequate.

(Closed) IFI (85-31-04) - Implement a test program for modified PA portal. The inspector confirmed, by a review of records and witnessing the operability testing of modified features, that the system operates as required and that according to documentation reviewed, initial testing was completed on November 18, 1985.

5. MC 81018 - Security Plan and Implementing Procedures

The inspector reviewed licensee implementing procedures affecting actions committed to as a result of NRC Inspection Nos. 85-19 and 85-31. Changes were found to be consistent with the NRC-approved physical security plan. The inspector reviewed the performance objectives of 10 CFR 73.55 with licensee management and the contractor's security supervisors at a meeting on March 12, 1986. This was done because several key management position changes were imminent.

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This is an Inspector Follow-up Item and will be reviewed in future NRC inspections. (IFI 86-06-02)

6. MC 81020 - Management Effectiveness - Security Program

The inspector observed that the licensee was effectively managing the security program, as follows:

- The licensee has formalized the establishment of a Security Incident Report which is used to capture relevant information on all events or unusual occurrences. The incident report form assures the resolution of all questions, including investigatory actions and interviews. Conclusions requiring corrective actions are then reviewed and implemented by management and supervision.

The training program has been modified to assure that the desired performance objectives were understood by security personnel.

- The security organization has recently been allocated additional office space for records, supervision and meetings. This expansion has resulted in improvements which were evident during this inspection, in that records were neatly arranged and easily retrievable and inspection related meetings with security management were able to be conducted more efficiently. It was also noted that this expansion provided for more effective and efficient performance of security program administrative workloads.

- Increased senior management involvement in the security program was evident during this inspection as was increased support for the program by other plant employees. This has resulted in improvements in security organization morale and guard personnel performance. Additionally, nuisance alarms have been significantly reduced as a result of plant management efforts.
- Management is currently conducting a comprehensive review of the plans and implementing procedures that affect the security program. The purpose of this review is to insure that program commitments and procedures are clear and avoid the potential for misinterpretation, and that they and ongoing program upgrades are consistent with the objectives of 10 CFR 73.55. In this regard, the licensee also requested a meeting with the USNRC Region I Safeguards Staff on April 2, 1986 to discuss these and other security program matters.
- The licensee has taken action to organize a technical working group consisting of Instrumentation and Calibration, Engineering, and Security personnel. This working group meets frequently to plan the resolution of security systems/equipment problems, including the preparation of performance specifications, reactive work request priorities, and the development of periodic surveillance procedures. As an example, the group is currently involved in a general upgrade project involving the procurement of new computers and corresponding software modifications for the security program.
- An evaluation of the performance capabilities of the CCTV system was completed by a special task force. The results demonstrated a need for an engineering survey to precisely determine the surveillance capabilities of the system. This survey is scheduled for completion in Summer 1986. The licensee will use the survey results to make decisions affecting upgrade modifications to the security systems and equipment.

7. MC 81038 - Records and Reports

The inspector confirmed by observation and review that required records are both accessible and maintained current in conformance with the NRC-approved security plan. The inspector reviewed records of alarm response, special training, systems testing, commitments to NRC and memoranda arising from NRC Inspections 85-19 and 85-31.

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8. MC 81066 - Assessment Aids

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This is an inspector follow-up item (IFI 50-271/86-01) that will be reviewed during a future inspection.