

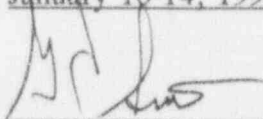
U.S. NUCLEAR REGULATORY COMMISSION
REGION I
SAFEGUARDS INSPECTION REPORT

License/Docket/Report: NPF-14/50-387/94-05
NPF-22/50-388/94-05

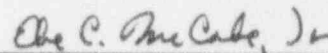
Licensee: Pennsylvania Power and Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Facility: Susquehanna Steam Electric Station, Units 1 and 2
Berwick, Pennsylvania

Inspection Dates: January 10-14, 1994

Inspectors: 
G. C. Smith, Senior Security Specialist
R. J. Albert, Security Inspector

2/10/94
Date

Approved By: 
E. C. McCabe, Jr., Chief, Safeguards Section
Division of Radiation Safety and Safeguards

2/10/94
Date

Scope

Management Support, Audits and Security Program Plans; 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; Testing, Maintenance and Compensatory Measures; and Personnel Training and Qualification.

Results

The licensee's program was found to be directed toward ensuring public health and safety and was in compliance with the NRC requirements in the areas inspected. No safety concerns or violations of NRC requirements were identified.

DETAILS

1.0 Key Persons Contacted

1.1 Licensee Personnel

H. G. Stanley, Vice President, Nuclear Operations
R. Stetler, Manager, Nuclear Security
R. Ferentz, Security Operations Supervisor
R. Gaudreau, Security Training Supervisor
C. Lopos, Site Access Services Supervisor
R. Gribble, Security Support Supervisor
R. Prego, Site Quality Verification Supervisor
R. Hudson, Corporate Security
R. Wehy, Compliance Engineer

1.2 U.S. Nuclear Regulatory Commission

S. Barber, Senior Resident Inspector
D. Mannai, Resident Inspector

The inspectors also interviewed other members of the licensee's security organization.

2.0 Management Support, Audits and Security Program Plans

2.1 Management Support

Management support for the licensee's physical security program was determined to be consistent with program needs. This determination was based upon inspector review, as documented in this report, of aspects of the licensee's program.

Security program enhancements undertaken since the last physical security inspection were as follows:

- A new emergency notification callout system was installed.
- Upgrade of the access control card reader system was begun.
- Part of the perimeter alarm system was upgraded with state-of-the-art equipment. The remainder of the new perimeter alarm system equipment is on-site and scheduled to be installed within the next year.
- Gas generators were installed on the explosives detection equipment, eliminating the need for bottled argon gas.
- An updated tactical weapons course was implemented.

2.2 Audits

The inspectors reviewed the report of the licensee's 1993 Quality Assurance Audit of the security program, audit NQA 93-121, conducted September 27 - October 15, 1993. This audit was very comprehensive in scope and the results were reported to the appropriate level of management. The two audit findings were not indicative of programmatic problems, and appropriate and timely actions were taken to implement corrective actions.

The inspectors also reviewed the report of the Quality Assurance Audit of the licensee's fitness-for-duty (FFD) program. This FFD audit, NQA 93-140, was conducted on November 1-29, 1993. It identified five non-programmatic observations with recommendations for corrective action. The licensee's response to the FFD audit had not been finalized by the time of this inspection, but licensee management responsible for the FFD program stated that the audit recommendations were to be implemented.

2.3 Security Program Plans

The inspectors concluded that changes to the licensee's security program plans (security, contingency, and training and qualification), as implemented, did not decrease the effectiveness of the respective plans and had been submitted in accordance with NRC requirements. The inspectors also verified that security operations were being conducted in accordance with the NRC-approved security program plans and applicable procedures. No deficiencies were noted.

3.0 Protected and Vital Area Physical Barriers, Detection and Assessment Aids

3.1 Protected Area (PA) Barrier

The inspectors conducted a physical inspection of the PA barrier on January 11-12, 1994. The inspectors determined by observation that the barrier was installed and maintained as described in the NRC-approved Physical Security Plan (the Plan) and that the isolation zones were adequately maintained to permit observation of activities on both sides of the PA barrier.

3.2 PA Detection Aids

The inspectors reviewed documentation of licensee-conducted tests of the PA perimeter intrusion detection aids, reviewed test procedures and inspected the installation of the detection aids. The inspectors also observed licensee-conducted tests of the detection aids at several locations around the perimeter. The inspectors determined that the detection aids were installed, maintained and operated as committed to in the Plan.

3.3 Assessment System

The inspectors observed the PA perimeter assessment aids and determined that they were installed and operated as committed to in the Plan. Video images on the monitors in both alarm stations were very sharp and provided good assessment capability.

3.4 Vital Area (VA) Barriers and Detection Aids

The inspectors physically inspected the VA barriers and detection aids on January 13, 1994, and determined by observation that the barriers were installed and maintained as committed to in the Plan.

No deficiencies were noted in the licensee's protected and vital area physical barriers, detection or assessment aids.

4.0 Protected and Vital Area Access Control of Personnel, Packages and Vehicles

4.1 Personnel Access Control

The inspectors determined that the licensee was exercising positive control over personnel access to the PA and VAs. This determination was based on the following:

- 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 personnel access processing during peak and off-peak periods on January 11 and 12, 1994. The inspectors also interviewed members of the security force and licensee's security staff and reviewed the personnel access procedures.
- The inspectors determined, by observation, that individuals in the PA displayed their access badges as required.
- The inspectors verified that the licensee had escort procedures for visitors in the PA and VAs.

4.2 Package and Material Control

The inspectors determined that the licensee was exercising positive control over packages and materials brought into the PA through the north and south access control facilities. Inspector review found package and material control procedures consistent with commitments in the Plan. The inspectors also observed package and material processing and interviewed members of the security force and the licensee's security staff about package and material control procedures.

4.3 Vehicle Access Control

On January 12 and 13, the inspectors observed vehicle searches and interviewed members of the security force and the licensee's staff about vehicle search procedures. The inspectors determined that the licensee was properly controlling vehicle access to and within the PA. The inspectors verified that vehicles were properly processed prior to being allowed to enter the PA. Identification was verified by the security officer at the vehicle access portals. This was consistent with the commitments in the Plan.

No deficiencies were noted in the control of personnel, packages and vehicles into the protected and vital areas.

5.0 Alarm Stations and Communications

The inspectors observed the Central Alarm Station (CAS) and the Secondary Alarm Station (SAS) and determined they were maintained and 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 require any operational functions that would interfere with the assessment and response functions. Also, the inspectors verified that the licensee had communications with local law enforcement agencies as committed to in the Plan. No deficiencies were noted.

6.0 Emergency Power Supply

The inspectors verified that several systems (batteries, dedicated diesel generator, and plant on-site emergency AC power) provided back-up power to the security systems. Inspectors reviewed of the test and maintenance records and procedures for these systems found these consistent with the Plan. No deficiencies were identified.

7.0 Testing, Maintenance and Compensatory Measures

7.1 Testing and Maintenance

The inspectors reviewed testing and maintenance records and confirmed that the records committed to in the Plan were on file and readily available for licensee and NRC review. Instrumentation and control technicians were provided by the station to conduct preventive or corrective maintenance and test security equipment. A check of repair records indicated that maintenance was being accomplished in a timely manner. No deficiencies were noted.

7.2 Compensatory Measures

The inspectors reviewed the licensee's use of compensatory measures and determined them to be as committed to in the Plan. No deficiencies were noted.

8.0 Personnel Training and Qualification

The inspectors randomly selected and reviewed training and qualification (T&Q) records for 10 security force members. Physical and firearms qualification records for officers and supervisory personnel were also inspected. The inspectors determined that the training had been conducted in accordance with the security program plans and were properly documented. During review of T&Q records and discussions with licensee security management, the inspectors noted that the licensee had no provisions for non-lethal weapons (tear gas or pepper spray) as part of the security program. The licensee stated that provision of tear gas had been discontinued due to concerns from the Safety Department. The licensee further stated that pepper spray had not yet been considered, but that the feasibility of its use as a non-lethal weapon would be evaluated.

The inspectors also reviewed the contingency drills conducted by each shift and by the training department for the last year. The drill scenarios were realistic, and critiques were thorough. But, the inspectors noted that the effectiveness of retraining personnel to correct deficiencies identified during drill critiques was not easily verifiable. The licensee decided to develop a program to better track the effectiveness of retraining performed as a result of drill deficiencies.

9.0 Exit Interview

The inspectors met with the licensee management identified in Paragraph 1.0 at the conclusion of the inspection on January 14, 1994. At that time, the purpose and scope of the inspection were reviewed and the preliminary findings were presented. The licensee acknowledged the inspection findings.