



Control of Personnel, Packages and Vehicles; Alarm Stations and Communications; Power Supply; Testing, Maintenance and Compensatory Measures; Security Training and Qualifications; and the Safeguards Information Program.

Results: One violation of the NRC-approved Physical Security Plan was identified in the area of vehicle searches.



DETAILS

1.0 Persons Contacted

Licensee

- *H. Christensen, Manager, Security Administration
- *D. MacVittie, Manager, Security Projects and Services
- *D. O'Hara, Director, Security Compliance
- *P. Carroll, Manager, Security Operations
- N. Rademacher, Director, Nuclear Compliance
- *W. Byrne, Assistant Nuclear Security Specialist
- *L. Stephens-Twining, Nuclear Security Specialist
- E. Pearson, Assistant Supervisor, Technical Services
- *F. McCarthy, Supervisor, Security Investigations
- C. Boniti, Supervisor, Security Training
- R. Astafan, Captain, Nuclear Security
- *T. Verno, Captain, Nuclear Security

US NRC

- *T. Collins, Acting Resident Inspector

*indicates those present at the exit interview..

2.0 Licensee Action on Previously Identified Items

- a. (Open) UNR 50-220/88-30-01 and UNR 50-410/88-29-01: Vital Area barrier weaknesses. The licensee has installed astragals on previously deficient Vital Area (VA) doors; has installed new doors without ventilation grills on a previously deficient Unit 1 VA; and is in the process of installing additional VA barriers in previously deficient ventilation ducts, pipe and cable openings. The work is scheduled for completion in the Fall of 1989 and will be reviewed in a subsequent inspection.
- b. (Closed) UNR 50-220/88-30-02 and UNR 50-410/88-29-02: The licensee has provided annunciation in the Central Alarm Station (CAS) and the Secondary Alarm Station (SAS) when the security system is being powered by the backup power supply. The inspectors verified this during a test of the system in both the CAS and the SAS.

3.0 Management Support, Security Program Plans and Audits

- a. Management Support - Management support for the licensee's physical security program was determined to be appreciable by the inspectors. The determination was based upon the inspectors' review of various aspects of the licensee's program during this inspection as documented in this report.



Some examples are as follow:

- A modern and well-maintained physical fitness room for the security force;
- A very effective security training program for the security force that uses state-of-the-art training aids;
- A simulator for training the CAS and SAS operators;
- A very effective Intrusion Detection System (IDS) that could not be defeated by inspector-requested testing during the inspection;
- Clean and well-maintained physical security facilities, such as the access control center and office buildings;
- A well-staffed Instrument and Control (I&C) section that is dedicated to work on security systems and equipment;
- An exchange program for security supervisors with other nuclear power plants for auditing and evaluations of other nuclear plant security programs; and,
- A very effective Safeguards Information Program.

The inspectors considered the above examples to be indicative of a high quality and performance-oriented security program. The inspectors noted that security force members (SFMs) are, in general, very knowledgeable of their post duties, contents of procedures and their other responsibilities and exhibit a very professional demeanor. On-site security managers and supervisors are effectively implementing a quality program and corporate support is highly evident. Minor security concerns identified by the inspectors during the inspection were discussed with on-site security management and prompt corrective actions were taken as applicable. The inspectors noted, however, that the licensee's protected area (PA) assessment system is in need of improvement and upgrading. System deficiencies are being adequately compensated for by the use of SFMs, but human performance has inherent weaknesses. In summary, the inspectors determined that the licensee has a strong security program that is generally very effective. However, the overall effectiveness of the program could be further enhanced by improving the assessment system.

- b. Security Program Plans - The inspectors verified that changes to the licensee's Security, Contingency, and Guard Training and Qualification Plans, as implemented, did not decrease the effectiveness of the respective plans, and had been submitted in accordance with NRC requirements.
- c. Audits - The inspectors reviewed the 1987 and 1988 annual security program audit reports and verified that the audits had been conducted in accordance with the NRC-approved Physical Security Plan (the Plan). The audits were comprehensive in scope with the results reported to the appropriate levels of management. The inspectors' review included the response of the security organization to the audit findings and the corrective actions taken to remedy any adverse findings. The documented corrective actions appeared appropriate for the findings.



4.0 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 August 7 and 8, 1989. The inspectors determined, by observation, that the barriers were installed and maintained as described in the Plan.
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- b. Protected Area Detection Aids - The inspectors observed the PA perimeter detection aids on August 7 and 8, 1989, and determined that they were installed, maintained and operated as committed to in the Plan. No deficiencies were noted.
- c. Isolation Zones - The inspectors verified that 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 August 8, 1989, from approximately 8:30 p.m. to 10:30 p.m., accompanied by a representative of the licensee's security organization. The licensee's calibrated light meter was used during the survey. The inspectors found several areas that did not meet the minimum illumination level committed to in the Plan because of burned out light bulbs. The inspectors questioned whether lighting deficiencies were being identified and reported by the routine security patrols. The licensee took immediate corrective action in all the deficient areas and committed to provide additional training to the patrols. This will be reviewed in a subsequent inspection.
- e. Assessment Aids - The inspectors observed the PA perimeter assessment aids and determined they were generally installed, maintained, and operated as committed to in the Plan.

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- f. Vital Area Barriers - The inspectors conducted a physical inspection of several VA barriers on August 8 and 9, 1989. The inspectors determined, by observation, that the barriers were installed and maintained as described in the Plan. No deficiencies were noted.

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- g. Vital Area Detection Aids - The inspectors observed the VA detection aids and determined that they were installed, maintained and operated as committed to in the Plan. No deficiencies were identified.

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

- a. Personnel Access Control - The inspectors determined that the licensee was exercising positive control over personnel access to the PA and VA's. This determination was based on the following:
- (1) The inspectors verified that personnel are properly identified and authorization is checked prior to issuance of badges and key-cards. No deficiencies were noted.



- (2) The inspectors verified that the licensee has a program to confirm the trustworthiness and reliability of employees and contractor personnel. This program includes checks on employment, credit, and criminal history, and a psychological examination. No deficiencies were noted.
- (3) The licensee is in the process of implementing a fitness-for-duty program in accordance with NRC requirements.
- (4) The inspectors reviewed the security lock and key procedures and determined that they were consistent with commitments in the Plan. The inspectors also reviewed the PA and VA key inventory logs, and discussed lock and key procedures with members of the security force and the licensee's security staff. No deficiencies were noted.
- (5) 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 the access list. No deficiencies were noted.
- (6) The inspectors verified that the licensee has a search program, as committed to in the Plan, for firearms, explosives, incendiary devices and other unauthorized materials. The inspectors observed personnel access processing during shift changes, visitor access processing, and interviewed members of the security force and licensee's security staff about personnel access-procedures. A potential weakness was identified.

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- (7) The inspectors determined, by observation, that individuals in the PA and VA display their access badges as required. No deficiencies were noted.
- (8) The inspectors verified that the licensee has escort procedures for visitors to the PA and VAs. No deficiencies were noted.
- (9) The inspectors verified that the licensee has a mechanism for expediting access to vital equipment during emergencies and that the mechanism is adequate for its purpose. No deficiencies were noted.



- (10) The inspectors verified that unescorted access to VAs is limited to authorized individuals. The access list is revalidated at least once every 31 days as committed to in the Plan. No deficiencies were noted.

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- 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 portal. 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 members of the security force 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 protected area. The inspectors verified that vehicles are properly authorized prior to being allowed to enter the PA. Identification is verified by the SFM at the 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 inspector determined that at least two SFMs control vehicle access at the main vehicle access point.

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The inspectors determined that the licensee's failure to comply with the above requirements in the Plan and its implementing procedures is an apparent violation of NRC requirements (50-220/89-22-01; 50-410/89-17-01).

6.0 Alarm Station and Communications

The inspectors observed the operation of the CAS and SAS and determined that 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 does not contain any operational activities that would interfere with the assessment and response functions.

The inspectors also observed tests of all communications capabilities in both the CAS and the SAS and reviewed the testing records for the communications channels. All were found to be as committed to in the Plan.

7.0 Emergency Power Supply

The inspectors verified that there are several systems that provide backup power to the security systems and reviewed the accompanying test and maintenance procedures. The systems and procedures were consistent with the Plan. The systems and their components are located in VAs. No deficiencies were noted.

8. Testing, Maintenance and Compensatory Measures

The inspectors reviewed testing and maintenance records. The testing and maintenance records committed to in the Plan were on file and readily available for licensee and NRC review. The security organization has a dedicated maintenance section to ensure prompt repair and return to service of malfunctioning security equipment. The efforts of this section ensures minimal use of compensatory measures and corresponding security force overtime.

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

9.0 Security Training and Qualification

The inspectors randomly selected and reviewed the training and qualifications records for fifteen SFMs. Physical qualifications and firearms qualifications records were inspected. These records were for armed guards, security monitors and supervisory personnel. The inspectors determined that the required training had been conducted in



accordance with the security program plans and that it was properly documented. No deficiencies were noted.

10.0 Safeguards Information Program

The inspectors reviewed the licensee's site procedure and records, interviewed personnel and inspected Safeguards Information (SGI) repositories in the security buildings, Security Training Center, and the Security I&C Shop to determine if the licensee's on-site program for the protection of SGI meets the requirement of 10 CFR 73.21. The inspectors' review encompassed the types of information being protected, physical protection (in-use and in-storage), markings, access, personnel training, external transmissions, and automatic data processing systems. No discrepancies were identified.

11.0 Exit Interview

The inspectors met with the licensee representatives indicated in paragraph 1 at the conclusion of the inspection on August 10, 1989. At the time, the purpose and scope for the inspection were reviewed and the findings were presented. The inspectors also confirmed commitments made by licensee representatives as documented in other paragraphs in this report.

At no time during this inspection was written material provided to the licensee by the inspectors.

