

ENCLOSURE

**U.S. NUCLEAR REGULATORY COMMISSION
REGION IV**

Docket No.: 50-397
License No.: NPF-21
Report No.: 50-397/99-12
Licensee: Energy Northwest
Facility: Washington Nuclear Project-2
Location: 3000 George Washington Way
Richland, Washington
Dates: October 25-28, 1999
Inspector: Thomas W. Dexter, Senior Physical Security Specialist
Plant Support Branch
Approved By: Gail M. Good, Chief, Plant Support Branch
Division Reactor Safety
Attachment: Supplemental Information

EXECUTIVE SUMMARY

Washington Nuclear Project-2 NRC Inspection Report 50-397/99-12

This routine, announced inspection focused on specific areas of the licensee's physical security program. These areas included review of alarm stations, communications, testing and maintenance, protected area detection aids, protected area assessment aids, vehicle barrier system, staffing levels, and corrective actions.

Plant Support

- The security program continues to be implemented in a very effective and performance-based manner. The alarm stations were redundant and well protected. Alarm station operators were alert and well trained. Very good radio and telephone communication systems were maintained. A sufficient number of portable radios were available for members of the security organization. An excellent testing and maintenance program was conducted and documented. Timely repair of security equipment resulted in a low number of compensatory postings. Very good protected area barriers and detection systems were maintained. During performance testing of the detection system at the protected area, all attempts to intrude into the protected area were detected. Assessment aids provided a complete assessment of the perimeter detection zones. An excellent vehicle barrier system was in place that was routinely inspected and effectively maintained. Changes to security programs and plans were reported to the NRC within the required time. Implementing procedures met the performance requirements in the physical security plan. Security program management was effective (Sections S1.1, S1.2, S2.1, S2.2, S2.3, S2.4, S3.1, and S6.1)

Report Details

IV. Plant Support

S1 Conduct of Security and Safeguards Activities

S1.1 Alarm stations

a. Inspection Scope (81700-02.01)

The alarm stations were inspected to determine compliance with the requirements of the security plan. The areas inspected included the requirements and capabilities of the alarm stations, redundancy and diversity of stations, protection of the alarm stations, and systems security.

b. Observations and Findings

The inspector verified the redundancy and diversity of the alarm stations. Action by one alarm station operator could not reduce the effectiveness of the security systems without the knowledge of the other alarm station operators. The central alarm station and secondary alarm station were bullet resistant. The inspector interviewed several of the alarm station operators and determined that they were properly trained and knowledgeable of their duties.

c. Conclusions

The alarm stations were redundant and well protected. Alarm station operators were alert and well trained.

S1.2 Communications

a. Inspection Scope (81700-02.01)

The communication capabilities were inspected to determine compliance with the requirements of the security plan. The areas inspected included the operability of radio and telephone systems and the capability to effectively communicate with the local law enforcement agencies through both of the systems.

b. Observations and Findings

The inspector verified that the licensee had very good radio and telephone systems capable of meeting all communication requirements of the security organization. The licensee maintained a sufficient number of portable radios for use by members of the security organization. The licensee also had a maintenance program to insure that the batteries for the portable radios remained at maximum operating power.

c. Conclusions

Very good radio and telephone communication systems were maintained. A sufficient number of portable radios was available for members of the security organization.

S2 Status of Security Facilities and Equipment

S2.1 Testing and Maintenance

a. Inspection Scope (81700-02.02)

The inspector reviewed selected portions of the testing and maintenance program to determine compliance with the requirements of the security plan.

b. Observations and Findings

Through interviews with security officers and supervisors and a review of records, the inspector determined that repairs to security equipment were completed in a timely manner. The timely response to repair detection aids, access control equipment, vital area portals, alarm station equipment, and closed-circuit television cameras resulted in an extremely low number of compensatory postings.

The inspector determined through interviews and a review of records that proper tests were conducted on the following: closed-circuit television cameras alarm status checks, alarm station monitors, metal and explosive detectors, X-ray machines, alarm station equipment, protected area lighting, protected area fence, perimeter microwave zones , and protected and vital area portals.

c. Conclusions

An excellent testing and maintenance program was conducted and documented. Timely repair of security equipment resulted in a low number of compensatory postings.

S2.2 Protected Area Barrier and Detection Aids

a. Inspection Scope (81700-02.02))

The inspector reviewed the protected area barriers and detection aids to determine compliance with the requirements of the physical security plan. The areas inspected included the features of the protected area barriers and the design and capabilities of the detection aids system.

b. Observations and Findings

The inspector conducted a walkdown inspection of the protected area barriers and determined that the barriers were installed and maintained as described in the physical security plan. Additionally, the inspector determined that the protected area barriers

provided penetration resistance to both forced and surreptitious entry and was adequate to ensure delay of a potential adversary.

The inspector observed the licensee's test of the perimeter microwave system at selected locations around the protected area. The detection system was well designed and maintained. All attempts to intrude into the protected area were detected. The licensee's tests were performance based (walking, rolling, crawling, simulated jumping, and running) to ensure that system failures were discovered and corrected. Additionally, the inspector verified that all alarms annunciated in the continuously manned security alarm stations.

c. Conclusions

Very good protected area barriers and detection systems were maintained. During performance testing of the detection system at the protected area, all attempts to intrude into the protected area were detected.

S2.3 Assessment Aids

a. Inspection Scope (81700-02.02)

The inspector reviewed the assessment aids to determine compliance with the physical security plan. The areas inspected included the closed-circuit television monitors located in the alarm stations.

b. Observations and Findings

The inspector observed the assessment aids during the hours of daylight on October 26, 1999, and during the hours of darkness on October 28, 1999, and determined that the assessment aids system was good. The inspector verified through observation that the fixed closed-circuit television cameras were positioned to ensure proper coverage of the perimeter security alarm zones. The inspector determined through interviews that licensee technicians provided excellent service support.

c. Conclusions

Assessment aids provided a complete assessment of the perimeter detection zones.

S2.4 Vehicle Barrier System

a. Inspection Scope (81700-02.02)

The vehicle barrier system was inspected to determine compliance with the requirements of 10 CFR 73.55 (c)(7) - (8) and the physical security plan.

b. Observations and Findings

The inspector determined by observation and discussion with the security staff that the vehicle barrier was installed and maintained in accordance with the licensee's physical

security plan. The barrier was inspected frequently by security patrols, and a procedure was in place to insure that identified discrepancies were properly compensated for and corrective actions implemented in a timely manner.

c. Conclusions

An excellent vehicle barrier system was in place that was routinely inspected and effectively maintained.

S3 Security and Safeguards Procedures and Documentation

S3.1 Security Program Plans and Procedures

a. Inspection Scope (81700-02.03))

The physical security plan and the implementing procedures were inspected to determine compliance with the requirements of 10 CFR 50.54(p) and the physical security plan.

b. Observations and Findings

The inspector determined that previous plan changes were reported to the NRC within the required time frame, and changes submitted did not reduce the effectiveness of the plan. The inspector reviewed implementing procedures for adequacy, ensured that the licensee maintained an effective management system for the development and administration of procedures, and verified that changes to the procedures did not reduce the effectiveness of the licensee's security program.

c. Conclusions

Changes to security programs and plans were reported to the NRC within the required time frame. Implementing procedures met the performance requirements in the physical security plan.

S6 Security Organization and Administration

S6.1 Management Effectiveness

a. Inspection Scope (81700-02.06)

The effectiveness and adequacy of security program management were evaluated.

b. Discussion

The security program was managed by a well trained and highly qualified security staff. The quality of the facilities and equipment demonstrated management support of the security program. The security program continues to be implemented in a very effective and performance-based manner.

c. Conclusion

Security program management was effective.

S8 Miscellaneous Security and Safeguards issues (92904)

S8.1 (Closed) Inspection Followup Item 397/9901-01: Relocation of Armed Response Personnel

During a previous security inspection, the inspector determined that the licensee was relocating armed response personnel from designated response positions to other locations to compensate for degraded security equipment. This practice may have invalidated the licensee's response time to both the responders' contingency weapons and to plant equipment target sets.

During this inspection, the inspector determined that the licensee had implemented an effective change to its response positions. The licensee now continuously maintains a defensive posture that denies an adversary access into the vital areas. The licensee's Denial Plan Guide, Revision 2, dated April 19, 1999, was reviewed and it designated specific positions that must be continuously posted at all times. The inspector also determined from discussions with security force members that training had been conducted on the new tactical deployment.

V. Management Meetings

X1 Exit Meeting Summary

The inspector presented the inspection results to members of licensee management at the conclusion of the inspection on October 28, 1999. The licensee acknowledged the findings presented. No propriety information was identified.

ATTACHMENT

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Licensee

J. Fisher, Security Lieutenant
M Gilley, Security Compliance Specialist
R. Givin, Supervisor, Security Force
J. Gloyn, Security Supervisor, Fitness for Duty/Access Authorization
V. Harris, Assistant Manager, Maintenance
P. Inserra, Manager, Licensing
D. Martin, Manager, Security Programs
S. Oxenford, Manager, Operations
C. Peterson, Safeguards Specialist
R. Webring, Vice President, Operations Support
R. Yule, Security Sergeant

INSPECTION PROCEDURES USED

IP 81700 Physical Security Program for Power Reactors
IP 92904 Followup - Plant Support

ITEMS OPENED, CLOSED AND DISCUSSED

Opened

None.

Closed

50-397/99-01 IFI Relocation of Armed Response Personnel (Section S8.1)

LIST OF LICENSEE DOCUMENTS REVIEWED

WNP-2 Physical Security Plan, Revision 40.

Security Plan Implementing Procedure SEC-01, "Sergeant and Lieutenant Duties, Revision 2, dated August 3, 1999.

Security Plan Implementing Procedure SEC-02, "Central and Secondary Alarm Stations, Revision 2, dated May 11, 1999.

Security Plan Implementing Procedure SEC-09, "Intrusion Detection System Alarms, Annunciators, Operability Tests, Inspection and Maintenance Records, Revision 1, dated March 2, 1998.

Security Plan Implementing Procedure SEC-10, "Special Purpose Detectors, Operability Test, Inspection and Maintenance Records," Revision 1, dated October 23, 1998.

Denial Plan Guide, Revision 2, dated April 19, 1999.

Security Plan Implementing Procedure SEC-03, "Response Team Leader, Owner Controlled Area Mobile Patrol, Mobile and Walking Patrols," Revision 2, July 15, 1999.

Response Force Drill records from January through September 1999.

Testing and Maintenance Records for the Metal Detectors, Explosive Detectors, X-Ray Machines, and Protected and Vital Area Detection and Assessment Aids.