

REVIEWED BY:

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U.S. NRC-REGION I  
(ORGANIZATION)

6-9-88  
(DATE)

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Reports Nos. 50-334/88-14  
50-412/88-09

Docket Nos. 50-334  
50-412

License Nos. DPR-66  
NPF-73

Licensee: Duquesne Light Company  
435 Sixth Avenue  
Pittsburgh, Pennsylvania

Facility Name: Beaver Valley Power Station, Units 1 and 2

Inspection At: Shippingport, Pennsylvania

Inspection Conducted: April 25-29, 1988

Type of Inspection: Routine Unannounced Physical Security

Inspectors: W. K. Lancaster  
W. K. Lancaster, Physical Security Inspector

6-6-88  
date

G. C. Smith  
G. C. Smith, Safeguards Specialist

6/6/88  
date

Approved by: R. R. Keimig  
R. R. Keimig, Chief, Safeguards Section,  
Division of Radiation Safety and Safeguards

6-7-88  
date

Inspection Summary: Routine Unannounced Physical Security Inspection on  
April 25-29, 1988 (Report Nos. 50-334/88-14, 50-412/88-09)

Areas Inspected: Follow-up on unresolved items; plan and implementing procedures; organization; program audit; records and reports; testing and maintenance; locks, keys, and combinations; physical barriers-protected area; physical barriers - vital areas; system power supply; lighting; compensatory measures; assessment aids; access control-personnel; access control-packages; access control-vehicles; detection aids-protected area; detection aids-vital areas; alarm stations; communications; training and qualifications; and handling of safeguards information.

Results: The licensee was in compliance with NRC requirements in the areas examined.

## DETAILS

### 1. Key Persons Contacted

#### a. Licensee and Contractor:

W. Lacey, General Manager, Nuclear Operations Department  
W. Roy, Manager Administrative Services  
F. Lipchick, Senior Licensing Supervisor  
H. Harper, Director of Security  
M. Johnston, Security Operations Supervisor  
D. Kline, Security Administrator  
N. DiPietro, Security Procedures and Training Coordinator  
W. Clutter, Security Force Supervisor, Security Bureau  
Incorporated (SBI)  
W. Walker, Assistant Security Force Supervisor, SBI  
J. Gagliano, Security Equipment Coordinator, SBI  
J. Collins, Manager, Nuclear Security, SBI  
R. Hecht, Site Instrumentation and Controls (I&C) Director  
G. Patterson, I&C Engineer  
M. Rencheck I&C Engineer  
J. Russell, Senior Quality Assurance Specialist

#### b. U.S. Nuclear Regulatory Commission:

J. Beall, Senior Resident Inspector  
\*S. Pindale, Resident Inspector

The inspectors also interviewed other licensee and contractor security personnel.

\*Not at the exit interview

### 2. Follow-up on Unresolved Items

Closed (50-412/87-54-03): Review licensee's Vital Area validation study and corrective actions relative to vital plugs and hatches. The inspectors reviewed the licensee's Vital Area validation study and actions taken to identify plugs and hatches to Vital Areas and equipment. All plugs and hatches have been identified and are being appropriately controlled in accordance with the NRC-approved Physical Security Plan (the Plan) and applicable regulatory requirements.

### 3. Security Plan and Implementing Procedures

The inspectors met with licensee representatives and discussed the Plan and its implementing procedures. As a result of these discussions, and a review of the Plan, it was determined that:

- (a) Implementing procedures were current, clear, concise and consistent with commitments in the Plan; and
- (b) A 10 CFR 50.54(p) change to the licensee's Plan is in the process of being submitted to the NRC for review.

4. Security Organization

The inspectors reviewed the security organization and determined that the organization was consistent with commitments in the Plan. Both licensee personnel and contractor personnel were interviewed by the inspectors and were found to be knowledgeable of their duties and responsibilities.

The licensee has hired four Security Shift Administrators (SSA's) to oversee the security force contractor on each shift. Three of the SSA's have been trained and are assigned to shifts. The fourth SSA was still in training during the inspection.

5. Security Program Audit

The inspectors reviewed security program audit reports and verified that the audits had been conducted in accordance with the Plan. The audits were comprehensive in scope with the results reported to the appropriate levels of management. The 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.

6. Records and Reports

The inspectors reviewed testing and maintenance records, records of security events and incident reports.

a. Testing and Maintenance Records:

The testing and maintenance records committed to in the Plan were on file and readily available for licensee review and NRC inspection.

b. Security Event Reports:

The inspectors reviewed, and discussed with the licensee, the security events that had been reported to the NRC in accordance with 10 CFR 73.71(c), since November 25, 1987. No discrepancies were identified relative to reporting the events or the actions taken.

c. Security Incident Reports:

The inspectors' review of security incident reports, which require logging as opposed to prompt notification of the NRC, disclosed that all incidents received appropriate management review and follow-up, as required.

7. Testing and Maintenance

The inspectors reviewed the testing and maintenance records and procedures for the intrusion detection system, access control system, search equipment and assessment aids.

The inspectors determined by record review, inspection of equipment, and interviews of security personnel, that there has been an improvement in maintenance support for security equipment since the previous inspection in November, 1987. As an example, during the previous inspection, in approximately 50% of the Unit 1 perimeter zones, the intrusion detection system was inoperable. During a tour of the Protected Area on April 27, 1988, the inspectors noted that all of the Protected Area perimeter intrusion detection zones were operable and that there were no compensatory measures in place, due to inoperable equipment.

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8. Locks, Keys, and Combinations

The inspectors reviewed the procedures for locks, keys, and combinations and determined that they were consistent with commitments in the Plan. This determination was made by reviewing records and interviewing the Security Equipment Coordinator.

9. Physical Barriers - Protected Areas

The inspectors conducted a physical inspection of the Protected Area barrier. The inspectors determined, by observation, that the barrier was installed and maintained as described in the Plan.

10. Physical Barriers - Vital Areas

The inspectors conducted a physical inspection of all Vital Areas in Units 1 and 2. The inspectors determined, by observation, that the barriers were installed and maintained as described in the Plan.

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11. Security System Power Supply

The inspectors reviewed the emergency power supply for the security system and found it to be in accordance with the Plan.

12. Lighting

The inspectors observed the lighting within the Protected Area during the hours of darkness (8:30 p.m. to 11:15 p.m.) on April 26, 1988. All areas were adequately lighted to allow observation of activities and to meet commitments in the Plan.

13. Compensatory Measures

The inspectors observed the implementation of compensatory measures utilized as a result of a short duration computer malfunction. These measures were found to be in conformance with the Plan and the licensee's implementing procedures.

14. Assessment Aids

The inspectors observed the operation of the assessment aids system, including times when artificial lighting was being used (see paragraph 12), and determined it to be functioning in accordance with the Plan.

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15. Access Control-Personnel

The inspectors observed that all personnel entering the Protected Area are searched for unauthorized material and that personnel access controls and search equipment are adequate and appropriate for their intended purpose. The licensee is in conformance with the Plan and regulatory requirements.

16. Access Control-Packages

The inspectors observed that the licensee controls the flow of packages and materials into and out of the Protected Area. Packages are searched and materials are appropriately examined using equipment and procedures which are adequate for the purpose. The licensee is in conformance with the Plan and regulatory requirements.

17. Access Control-Vehicles

The inspectors observed that the licensee searches and escorts, as required, all vehicles that enter the Protected Area and searches all vehicles that exit. The licensee controls all vehicles in conformance with the Plan and implementing procedures.

18. Detection Aids-Protected Areas

The inspectors observed the Protected Area perimeter detection aids and determined that they were installed, maintained, and operated as committed to in the Plan.

19. Detection Aids-Vital Areas

The inspectors reviewed, selectively tested in the presence of a licensee representative and observed guard force response to the Vital Area detection aids. The detection aids are in conformance with the Plan, the tests verified that the alarms are functioning properly, and the guard force response was prompt.

20. Alarm Stations

The inspectors observed the operation of both the Central Alarm Station (CAS) and Secondary Alarm Station (SAS) and found them to be operating as committed to in the Plan. CAS and SAS operators were interviewed by the inspectors and were found to be knowledgeable of their duties and responsibilities.

21. Communications

The inspectors observed tests of all communication capabilities in both the CAS and the SAS. The inspectors also reviewed testing records for the various means of communications available to the security force and found them to be as committed in the Plan.

22. Personnel Training and Qualification-General Requirements

The inspectors observed tactical response training for armed security officers at their firearms training range on April 27, 1988. No deficiencies were observed.

23. Physical Protection Safeguards Information

The inspectors determined, by observation and by review of selected records, that the physical protection of Safeguards Information (SGI) was as committed to in the Plan.

24. Exit Interview

The inspectors met with the licensee representatives listed in paragraph 1 at the conclusion of the inspection on April 29, 1988. At that time, the purpose and scope of the inspection were reviewed and the findings were presented.

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