

U. S. NUCLEAR REGULATORY COMMISSION
REGION I

Report Nos: 50-334/90-17
50-412/90-17

Docket Nos: 50-334
50-412

License Nos: DPR-66
NPF-73

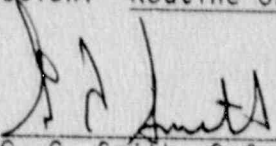
Licensee: Duquesne Light Company
435 Sixth Avenue
Pittsburgh, Pennsylvania

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

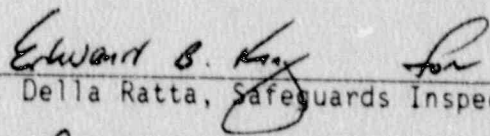
Inspection At: Shippingport, Pennsylvania

Inspection Conducted: July 16-20, 1990

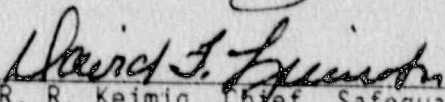
Type of Inspection: Routine Unannounced Physical Security

Inspectors: 
G. C. Smith, Safeguards Specialist

8/8/90
date


A. Della Ratta, Safeguards Inspector

08-08-90
date

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

8.8.90
date

Inspection Summary: Routine Unannounced Physical Security Inspection on
July 16-20, 1990 (Combined Report Nos. 50-334/90-17, 50-412/90-17)

Areas Inspected: Management Support, Security Program Plans, and Audits;
Protected and Vital Area Physical Barriers, Detection and Assessment Aids;
Protected and Vital Area Access Controls of Personnel, Packages, and Vehicles;
Alarm Stations and Communications; Power Supply; Testing, Maintenance, and
Compensatory Measures; Security Training and Qualifications; and Land Vehicle
Bomb Contingency Procedure Verification.

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

Details

1. Key Persons Contacted

a. Licensee and Contractor

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. Walker, Assistant Security Force Supervisor, Security Bureau Incorporated (SBI)
J. Gagliano, Security Equipment Coordinator, SBI
D. Roman, Supervisor Quality Assurance Maintenance
B. Sepelak, Licensing Engineer
M. Pavlick, Director, Quality Services
L. Miklavic, Site Force Supervisor, SBI
I. Fidurski, District Manager, SBI
R. Dibler, Security Shift Administrator

b. U. S. Nuclear Regulatory Commission

J. Beall, Senior Resident Inspector
*B. Manili, Reactor Security Specialist

The inspectors also interviewed other licensee and contractor security personnel.

*not present at the exit interview

2. Management Support, Security Program Plans, and Audits

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

During the inspection, the inspectors observed that the morale of the security force was excellent. Also, cooperation from plant personnel in adhering to security program requirements was evident to the inspectors.

- 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 1989 annual security program audit report and verified that the audit had been conducted in accordance with the NRC-approved physical security plan (the Plan). The inspectors' review disclosed that the results of the audit were reported to the appropriate levels of management. There were no findings or observations identified in the audit report.

3. Protected and Vital Area Physical Barriers, Detection and Assessment Aids

- a. Protected Area (PA) Barriers - The inspectors conducted a physical inspection of the PA barrier on July 17 and 18, 1990. The inspectors determined, by observation, that the barrier was installed and maintained as described in the Plan. No deficiencies were noted.
- b. Protected Area Detection Aids - The inspectors observed testing of the PA perimeter detection aids on July 18 and 19, 1990 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. Assessment Aids - The inspectors observed the PA perimeter assessment aids and determined that they were installed, maintained, and operated as committed to in the Plan.

The inspectors identified that several assessment aids could be enhanced. The licensee took immediate corrective action which resulted in significant improvement. The licensee also stated that the testing program for assessment aids would be revised to challenge the system more realistically in the future.

- e. Vital Area Barriers - The inspectors conducted a physical inspection of vital area (VA) barriers on July 18, 1990. The inspectors determined, by observation, that the barriers were installed and maintained as described in the Plan.
- f. 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.

4. Protected and Vital Area Access Control of Personnel, Packages and Vehicles

- a. Personnel Access Control - The inspectors observed access control into the PA/VAs on July 17, 18, and 19, 1990, and determined that the licensee was exercising positive control. This determination was based on the following:

- 1) Personnel are properly identified and authorization is checked prior to issuance of badges and key-cards. No deficiencies were noted.
- 2) The licensee has a program to confirm the trustworthiness and reliability of employees and contractor personnel. This program includes employment and criminal history checks, physical and psychological examinations, and fitness-for-duty testing.
- 3) The security lock and key procedures were consistent with commitments in the Plan. The inspector also reviewed the protected and vital area key inventory logs, and discussed lock and key procedures with members of the licensee's security staff. No deficiencies were noted.
- 4) The licensee was revalidating VA access every 31 days as required by the Plan; however, the revalidating process did not appear to be limiting VA access to only those persons with a legitimate need. The inspectors' review determined that it appeared that personnel were only removed from a department VA access list if they were transferred to another department. The review also disclosed that 1,214 individuals were on the access list for the Unit 2 containment, the list had been revalidated every 31 days, but the Unit 2 containment had not been open for over a year. More aggressive review of the VA access lists by department managers is required to limit access to vital areas to only those persons with a legitimate, non-emergency need. This will be reviewed during a subsequent inspection.
- 5) 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. No deficiencies were noted.
- (6) Individuals in the PA and VAs display their access badges as required. No deficiencies were noted.
- 7) The licensee has escort procedures for visitors to the PA and VAs. No deficiencies were noted.
- 8) The licensee has a mechanism for expediting access to vital equipment during emergencies and the mechanism is adequate for its purpose. No deficiencies were noted.

- 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 and the central warehouse delivery point. The inspectors reviewed the package and material control procedures and found they were consistent with commitments in the Plan. The inspectors also observed package and material processing and interviewed Security Officers (SOs) and the licensee's security staff about package and material control procedure. No deficiencies were noted.
- c. Vehicle Access Control - The inspectors determined that the licensee properly controls vehicle access to and within the PA. The inspectors verified that vehicles are properly identified and authorized prior to being allowed to enter the PA. Identification is verified by a SO at the vehicle access portal. This procedure is consistent with the commitment in the Plan. The inspectors also reviewed the vehicle search procedures and determined that they were also consistent with commitments in the Plan. This determination was made by observing vehicle processing and search, inspection of vehicles, and by interviewing SFMs and the licensee's security staff about vehicle search procedures. No deficiencies were noted.

5. Alarm Stations and Communications

The inspectors observed the operations in the Central Alarm Station (CAS) and Secondary Alarm Station (SAS) and determined that the stations 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 operator does not have any operational activities that would interfere with the assessment and response functions. No deficiencies were noted.

The inspectors also observed testing of some communications capabilities in the CAS and reviewed the testing records for all communications channels. All were found to be as committed to in the Plan. No deficiencies were noted.

6. Power Supply

The inspectors verified that there are several systems (batteries, dedicated diesel generator, and plant on-site AC power) that provide normal and backup power to the security systems and reviewed the accompanying test and maintenance procedures for these systems. The systems and procedures were consistent with the Plan. The batteries, battery chargers and the diesel generators are located in vital areas. No deficiencies were noted.

The inspectors also verified that the access control system for VA doors will permit emergency ingress and egress when normal power is lost.

7. Testing, Maintenance and Compensatory Measures

The inspectors reviewed testing and maintenance records and confirmed that the records committed to in the Plan were on file and readily available for NRC and licensee review. The station provides instrumentation and controls technicians to maintain and test any security equipment which requires preventive or corrective maintenance. A check of repair records indicated that maintenance and testing are accomplished in a timely manner.

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. Security Training and Qualification

The inspectors randomly selected and reviewed the training and qualifications records for 14 SOs. 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.

Several SOs were interviewed to determine if they possessed the requisite knowledge and ability to carry out their assigned duties. The interview results indicated that they were very professional and knowledgeable of their job requirements.

The inspectors determined that the turnover rate in the security force for 1989 was very low (about 4.5%).

The licensee's contract security force consists of 258 SOs and 64 supervisory personnel. The inspectors verified that the armed response force meets the commitments in the Plan and that there is always one full-time member of the security organization on-site who has the authority to direct security activities.

9. Land Vehicle Bomb Contingency Procedure

The inspectors conducted a review of the licensee's Land Vehicle Bomb Contingency Procedures. The licensee's procedure details short-term actions that could be taken to protect against attempted radiological sabotage involving a land vehicle bomb if such a threat were to materialize. The procedure appeared adequate for its intended purpose. No deficiencies were noted.

10. Exit Interview

The inspectors met with the licensee representatives indicated in paragraph 1 at the conclusion of the inspection on July 20, 1990. At that time, the purpose and scope for the inspection were reviewed and the findings were presented. The licensee's commitments, as documented in this report, were reviewed and confirmed with the licensee.