

INSPECTED BY:

RONALD R. BELLAMY *Ronald R. Bellamy*
(NAME) (SIGNATURE)

USNRC - Region I *September 6, 1990*
(ORGANIZATION) (DATE)

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report Nos. 50-317/90-20; 50-318/90-19

Docket Nos. 50-317; 50-318

License Nos. DPR-53; DPR-69

Licensee: Baltimore Gas and Electric Company
P. O. Box 1475
Baltimore, Maryland 21203

Facility Name: Calvert Cliffs Nuclear Power Plant

Inspection at: Lusby, Maryland

Inspection conducted: July 30 - August 2, 1990

Inspectors:

D. F. Lynroth
D. F. Lynroth, Senior Reactor Engineer

8.29.90
Date

W. K. Lancaster Jr.
W. K. Lancaster, Physical Security Inspector

8.29.90
Date

Approved:

R. R. Keimig
R. R. Keimig, Chief, Safeguards Section

9/5/90
Date

Inspection Summary: Routine unannounced Physical Security Inspection
July 30 - August 2, 1990 (Report Nos. 50-317/90-20; 50-318/90-19)

Areas Inspected: Management Support and Security Program Plans; Protected Area Physical Barriers, Detection and Assessment Aids; Protected and Vital Area Access Control of Personnel, Packages and Vehicles; Alarm Station and communications; Testing, Maintenance and Compensatory Measures; and Security Training and Qualifications

Results: No items of non-compliance were noted.

DETAILS

1. Persons Contacted

Licensee

R. C. Dernoga, Manager, Facilities Management
V. F. Bradley, Director Security Services
L. Gibbs, General Supervisor, Calvert Cliffs Security Operations
J. H. Alvey, Assistant General Supervisor, Nuclear Security
G. Brosan, General Supervisor, Loss Prevention
J. Flinn, Support Services Supervisor
B. Hart, Supervisor, Security Planning and Programs
R. Pumphrey, Nuclear Security Supervisor
B. Flanagan, Nuclear Security Supervisor
D. Dean, Security Training Specialist
M. R. Cox, Security Training Specialist
K. R. Costello, Security Programs Specialist
J. W. Ross, Security Programs Specialist
M. Milbradt, Compliance Engineer

NRC

V. M. McCree, NRR/ILPB, HQ

The above persons were present at the exit interview. Other licensee and contractor security personnel were interviewed during the inspection.

2. Follow-up of Previously Identified Items

a. (Closed) Inspector follow-up item 50-317/90-03-01, 50-318/90-03-01.

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This item is closed.

b. (Closed) Violation 50-317/90-03; 50-318/90-03. During Inspection 90-03, inspectors determined that the vision of security force members (SFM) was not being tested for either field of vision or glaucoma. Inspectors reviewed the licensee's response of March 5, 1990, and verified through inspection that the corrective actions specified therein had been implemented. The inspectors also reviewed results of several recent physical examinations and determined that the cited omissions were now being performed. This violation is closed.

3. Management Support and Security Program Plans

- a. Management Support - Based on the inspectors' review of various aspects of the licensee's security program as documented in this report, the inspectors determined management support to be adequate.
- b. Security Program Plans - The inspectors verified that changes to the NRC-approved Security, Contingency, and Training and Qualification Plans, as implemented, did not decrease the effectiveness of these respective plans, and had been submitted in compliance with NRC requirements.

4. Protected Area Physical Barriers, Detection and Assessment Aids

- a. Protected Area (PA) Barrier - The inspectors conducted a physical inspection of the PA Barrier on July 30 and 31. The inspectors determined through observation that the barrier was installed and maintained as described in the Security Plan. No deficiencies were noted.
- b. Protected Area Detection Aids - The inspectors observed the testing of the PA intrusion aids on July 31, and determined that they were installed, maintained, and operated as described in the Security Plan.

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- c. Isolation Zones - The inspectors verified that isolation zones were 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 July 31. The inspectors determined through measurement and observation that lighting in isolation zones was adequate. No deficiencies were noted.
- e. Assessment Aids - The inspectors observed the PA perimeter assessment system and determined that it was installed, maintained and operated as committed to in the plan.

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With the exceptions of the above noted concerns, there were no deficiencies noted.

- f. Vital Area Barriers - The inspectors conducted physical inspections of various VA barriers throughout the period of the inspection and determined that the barriers were installed and maintained as described in the plan.

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No discrepancies were noted.

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

5. 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 VAs. 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.
- (2) The inspectors verified that the licensee has a program to confirm the trustworthiness and reliability of employees and contractor personnel.
- (3) The inspectors verified that the licensee has 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 shift changes, visitor access processing, and interviewed members of the security force and licensee's security staff regarding personnel access procedures.
- (4) The inspectors determined, by observation, that individuals in the PA and VAs display their access badges as required.
- (5) The inspectors verified that the licensee has escort procedures for visitors in the PA and VAs.
- (6) 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.
- (7) 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 discrepancies 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. 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 discrepancies 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 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 observed vehicle processing and search, inspected vehicle logs, and interviewed members of the security force and licensee's security staff about vehicle search procedures. The inspectors also reviewed the vehicle search procedures and determined that they were consistent with commitments in the Plan. No discrepancies were noted.

6. Alarm Station and Communications

The inspectors observed the operation of the Central and Secondary Alarm Stations (CAS & 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 contain any operational activities that would interfere with the assessment and response functions.

The inspector also observed tests of communications capabilities in the alarm stations and reviewed the testing records. All were found to be as committed to in the Plan.

No discrepancies were noted.

7. Testing, Maintenance and Compensatory Measures

The inspectors reviewed the 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. The station provides dedicated instrumentation and controls (I&C) technicians to conduct preventive and corrective maintenance on security equipment. A check of repair records indicated that repairs, replacements and testing are being accomplished in a timely manner.

The inspectors reviewed the licensee's use of compensatory measures and determined that such measures were in compliance with plan commitments.

No discrepancies were noted.

8. Security Training and Qualification

The inspectors randomly selected and reviewed the training and qualification records for six SFMs. The physical and firearms qualification records for those SFMs were also inspected. The SFMs selected were armed guards and supervisory personnel. Several SFMs were interviewed to determine if they possess the requisite knowledge and

ability to carry out their assigned duties. The interview results indicated that they were knowledgeable of their job requirements. No discrepancies were noted.

During the previous safeguards inspection, it was determined that the licensee had failed to comply with the requirements of the NRC-approved Training and Qualification Plan through omission of glaucoma and field of vision testing. Physical examination records of recently examined SFM were reviewed to verify that this omission had been corrected. The inspectors also reviewed a check list recently incorporated to help assure that requirements were adequately conveyed to departments which provide support to the Security Force. On-site physical examination records of newly-hired SFM who are examined in the corporate headquarters remote from the site did not include the results of audiogram examinations. These records, all of which were satisfactory, were provided to the inspectors prior to the conclusion of the inspection. Consideration of inclusion of acceptance criteria into examination records and the inclusion of as-measured results, when possible, was discussed with licensee management. No discrepancies were noted. Corrective action in response to violation 50-317/90-03; 50-318/90-03 is considered satisfactory. This violation is closed.

With respect to training, the licensee continues to implement an effective training program for security force members. Essentially, one week in five is devoted to training. The inspectors noted that the licensee's firearms requalification program has been upgraded to include quarterly assessments for all armed SFM.

The inspectors verified that the armed response force meets the commitments of the Plan and that there is one full-time member of the security organization who has the authority to direct security activities on site at all times.

9. Exit Interview

The inspectors met with the licensee representatives indicated in paragraph 1 at the conclusion of the inspection on August 2, 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.