

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 50-317/78-23
50-318/78-17
Docket No. 50-317
50-318
License No. DPR-53
DPR-69 Priority -- Category C
C

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

Facility Name: Calvert Cliffs, Units 1 and 2

Inspection at: Baltimore and Lusby, Maryland

Inspection conducted: August 22-25, 1978

Inspectors: D. F. Johnson
D. F. Johnson, Reactor Inspector

9/18/78
date signed

date signed

Approved by:

R. R. Keimig
R. R. Keimig, Chief, Reactor Projects
Section No. 1, RO&NS Branch

date signed

9/18/78
date signed

Inspection Summary:

Inspection on August 22-25, 1978 (Combined Report Nos. 50-317/78-23; 50-318/78-17)
Areas Inspected: Routine, announced inspection at the corporate office by a regional based inspector of licensee followup actions concerning IE Circular 78-08. Unannounced inspection at Calvert Cliffs Nuclear plants by a regional based inspector of licensee's implementation of 10 CFR Part 21 requirements; review of monthly operation status reports for June and July, 1978; and, facility tours conducted during normal and off normal hours. The inspection involved 11 inspector-hours at the corporate office, 7 inspector-hours onsite for Unit 1, and 7 inspector-hours onsite for Unit 2, by one NRC regional based inspector.

Results: No items of noncompliance were identified.

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DETAILS

1. Persons Contacted

**Mr. R. Douglass, Chief Engineer
**Mr. W. Gibson, Supervisor - Operations Quality Assurance
Mr. L. Getz, Control Room Operator
*Mr. A. Marion, Engineering Technician
Mr. M. Pfeffer, Control Room Operator
*Mr. S. Rittenhouse, Chief Electrical Engineer
**Mr. L. Russell, Nuclear Plant Engineer - Operations
*Mr. K. Sebra, Principal Engineer
Mr. A. Shumaker, Control Room Operator
Mr. L. White, Shift Supervisor
Mr. C. Zapp, Senior Control Room Operator

* denotes those present at the exit interview held on August 23, 1978, at the corporate office

** denotes those present at the exit interview held on August 25, 1978, at Calvert Cliffs Nuclear Power Plant

2. 10 CFR Part 21 Requirements

Controls and procedures established by Baltimore Gas and Electric Company were reviewed both at the NRC Region I office, and during this inspection to ascertain conformance with regulatory requirements. The inspection was conducted to verify that procedures and controls have been established and are adequate to assure implementation of Part 21 requirements, and included the following:

- Controls or procedures for posting, pursuant to Part 21.6.
- Procedures for evaluating deviations or informing the licensee or purchaser of deviations, pursuant to 21.21(a).
- Procedures for informing a director or responsible officer of deviations evaluated to be a defect or failures to comply relating to a substantiated safety hazard, pursuant to 21.21(a).
- Controls or procedures which will assure that a director or responsible officer will inform the Commission as required when receiving information of a defect or reportable failure to comply, pursuant to 21.21(b).
- Controls or procedures to assure that each procurement document for a facility or basic component, when applicable, specifies that the provisions of 10 CFR Part 21 apply, pursuant to 21.31.

- Controls or procedures to assure licensee maintenance of records, pursuant to 21.51(a).
- Controls or procedures to assure the preparation and appropriate disposition of records, pursuant to 21.51(b).

This review included discussions with licensee personnel, observance of Part 21 requirements posted on the licensee's premises, and a review of the following licensee documents:

- Quality Assurance Procedure QAP-26, Attachment D, "Reporting of Defects and Noncompliances to the NRC in Compliance with 10 CFR Part 21."
- Calvert Cliffs Instruction CCI 613, "Qualification of Test and Inspection Program."
- CCI 108D, "Effective Calvert Cliffs Instructions and Notices."
- Purchase Order #35787, Combustion Engineering D/P Transmitter, August 21, 1978.
- Purchase Order #35840, AGM Electronics Corporation, Output Isolator, August 21, 1978.

No items of noncompliance were identified.

3. Environmental Qualification or Safety-Related Electrical Equipment at the Calvert Cliffs Nuclear Power Plants (IE Circular No. 78-08)

- a. An announced inspection was held at the Baltimore Gas and Electric Corporate offices to review actions taken by the licensee to verify proper environmental qualification of safety-related electrical equipment.

The areas reviewed during this inspection encompassed those matters addressed by IEC 78-08 involving problems that have been identified in ensuring environmental qualification of safety-related electrical components. The following items were inspected:

- (1) whether a specific licensee individual has been assigned responsibility for reviewing identified problems and documentation referenced in IEC 78-08.

- (2) whether a comparison has been made between the plant specific circumstances at the Calvert Cliffs Station and problems identified by IEC 78-08.
- (3) what actions have been taken by the licensee in regard to the subject review, the status of any corrective actions planned or taken, and the schedule for finishing the review of any areas not yet complete.
- (4) a sampling review of documentation which supports the environmental qualification of electrical components, including electrical connectors, containment electrical penetrations, terminal blocks, cables and cable splices, transmitters and valves.
- (5) licensee responses to IE Bulletins 77-05, 77-05A, 77-06, 78-02 and 78-04, dated November 31, 1977, December 2, 1977, February 10, 1978 and March 3, 1978, respectively.

Except as noted below, no inadequacies were identified during the review of the above items.

- b. Inspection and Enforcement Circular 78-08 was transmitted to the licensee on May 31, 1978. To facilitate the licensee's response to IEC 78-08, the licensee was provided the reference documents by NRC Region I. This material was received by the licensee on August 14, 1978. The inspector determined from review of available records and interviews with licensee representatives that sufficient time was not available to complete a review of all material. The licensee has assigned individuals to the task and has established priorities for timely completion. To accomplish this task, the licensee is currently establishing the scope of the task, including the work effort involved, which will include not only research of documentation, but several site visits for physical observation of selected components. The licensee estimates that the total task will be completed by January 1, 1979. Completion of the licensee's investigation into the matters addressed in IE Circular 78-08 is considered an unresolved item (78-23-01)(78-17-01).

4. Facility Tour

An unescorted facility tour was conducted during off normal hours at both Units 1 and 2. Areas examined included the control room, turbine building, health physics lab, auxiliary building, new security building and outside peripheral areas. Inspections were conducted

to determine the general state of cleanliness, housekeeping conditions, potential fire hazards and observation of plant operations. Inspection confirmed that minimum staffing requirements were met for conduct of plant operations as depicted in the Technical Specifications.

No items of noncompliance were identified.

5. In-Office Review of Periodic Reports

The inspector reviewed the Calvert Cliffs Nuclear Power Plant Monthly Operation Status Report (Units 1 and 2) for June, 1978, and July, 1978, in the Region I office.

The inspector verified that the reports included the information required by Technical Specification, and that supporting information was consistent with performance specifications. The inspector ascertained that applicable corrective actions taken or planned were adequate for resolution of identified problems and determined whether any information contained in the report should be classified as an abnormal occurrence. The monthly status reports were closed out based upon a satisfactory review in the Region I office.

No items of noncompliance were identified.

6. Unresolved Items

Unresolved items are matters about which more information is required to ascertain whether they are acceptable items or items of noncompliance. An Unresolved Item is discussed in paragraph 3.b of this report.

7. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on August 23, 1978 and August 25, 1978. The purpose, scope and results of this inspection, as stated in this report, were discussed.