

PETER E. KATZ  
Plant General Manager  
Calvert Cliffs Nuclear Power Plant

Baltimore Gas and Electric Company  
Calvert Cliffs Nuclear Power Plant  
1650 Calvert Cliffs Parkway  
Lusby, Maryland 20657  
410 495-4101



May 8, 1997

U. S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

ATTENTION: Mr. H. J. Miller, Regional Administrator

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit No. 2; Docket No. 50-318  
Fire Detection Instrumentation -- Special Report

The attached Special Report is submitted in accordance with Calvert Cliffs Unit 2 Technical Specification 3.3.3.7. The Special Report concerns the inoperability of the Fire Detection System for the Unit 2 27-foot Elevation and 5-foot Elevation East Piping Penetration Rooms for a period in excess of 14 days.

Should you have questions regarding this matter, we will be pleased to discuss them with you.

Very truly yours,

PEK/CDS/bjd

Attachment

cc: Document Control Desk, NRC  
R. S. Fleishman, Esquire  
J. E. Silberg, Esquire  
A. W. Dromerick, NRC

Director, Project Directorate I-1, NRC  
Resident Inspector, NRC  
R. I. McLean, DNR  
J. H. Walter, PSC

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PDR ADOCK 05000318  
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## ATTACHMENT (1)

### UNIT 2 FIRE DETECTION INSTRUMENTATION -- SPECIAL REPORT

Baltimore Gas and Electric Company submits this Special Report concerning an inoperable Fire Detection System, as required by Technical Specification 3.3.3.7, Action Statement b. Specifically, the Fire Detection System for the Unit 2 27-foot Elevation and 5-foot Elevation East Piping Penetration Rooms was inoperable for greater than 14 days, requiring issuance of a Special Report.

#### ACTION TAKEN

After the Fire Detection System for the Unit 2 27-foot Elevation and 5-foot Elevation East Piping Penetration Rooms was removed from service, Unit 2 Technical Specification 3.3.3.7, Action Statement a was entered and implemented. This Action Statement, requires that within one hour an hourly fire watch patrol be established in the affected fire zone; or that the automatic sprinkler system in the fire zone, including the water flow alarm and supervisory system, is verified operable at least once per 24 hours for the area protected by the inoperable fire detection system.

#### CAUSE OF INOPERABILITY

On March 27, 1997, the Fire Detection System was removed from service to support a modification to the Purge Air System in the Unit 2 27-foot Elevation and 5-foot Elevation East Piping Penetration Rooms during the Unit 2 refueling outage. The modification included welding activities. The smoke from welding activities can actuate the Fire Detection System causing a hanging fire alarm in the Control Room. To prevent this alarm, a temporary alteration was installed that removed the Fire Detection System from service.

#### PLANS AND SCHEDULES FOR RESTORING THE SYSTEM TO OPERABLE STATUS

The Fire Detection System in the Unit 2 27-foot Elevation and 5-foot Elevation East Piping Penetration Rooms was restored to an operable status on April 24, 1997.