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**Constellation  
Nuclear**

**Calvert Cliffs  
Nuclear Power Plant**

*A Member of the  
Constellation Energy Group*

September 27, 2000

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

**ATTENTION:** Document Control Desk

**SUBJECT:** Calvert Cliffs Nuclear Power Plant  
Unit No. 1; Docket No. 50-317  
Special Report – Wide Range Noble Gas Effluent Radiation Monitor

The attached special report is submitted in accordance with Calvert Cliffs Technical Requirements Manual Section 15.3.1, Contingency Measure B.2.2. The report is required due to the inoperability of the Unit 1 Wide Range Noble Gas Effluent Radiation Monitor for a period in excess of seven days.

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

Very truly yours,

PEK/JKK/bjd

Attachment

cc: R. S. Fleishman, Esquire  
J. E. Silberg, Esquire  
Director, Project Directorate I-1, NRC  
A. W. Dromerick, NRC

H. J. Miller, NRC  
Resident Inspector, NRC  
R. I. McLean, DNR

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## **ATTACHMENT (1)**

### **UNIT 1 WIDE RANGE NOBLE GAS EFFLUENT RADIATION MONITOR SPECIAL REPORT**

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Calvert Cliffs Nuclear Power Plant, Inc. submits this Special Report concerning the inoperable Unit 1 Wide Range Noble Gas Effluent Radiation Monitor Channel as required by Calvert Cliffs Technical Requirements Manual, Section 15.3.1, Contingency Measure B.2.2.

#### **ACTION TAKEN**

The Unit 1 monitor was removed from operable status on August 29, 2000 at approximately 0300 due to equipment malfunction. Troubleshooting and repair efforts took approximately eight days to restore system operability. Thus, the restoration time of seven days, as specified in Calvert Cliffs Technical Requirements Manual, Section 15.3.1, for returning the Wide Range Noble Gas Effluent Radiation Monitor to operable status, was not met.

#### **EFFECT ON OPERATION**

In accordance with Contingency Measure B.1 of Calvert Cliffs Technical Requirements Manual, Section 15.3.1, and our Accidental Radioactivity Release Monitoring and Sampling Methods procedure (ERPIP-821), the preplanned alternate monitoring method was implemented. The inoperability of the Wide Range Noble Gas Effluent Radiation Monitor did not affect Unit 1 operation.

#### **CAUSES OF INOPERABILITY**

The cause of the inoperability was due to the failure of two components within the Wide Range Noble Gas Effluent Radiation monitor. A degraded power supply for the mid-range detector was identified and replaced, and a broken pin in a multi-pin connector for the high-range detector was identified and repaired.

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

The Unit 1 Wide Range Noble Gas Effluent Radiation Monitor was returned to operable status on September 6, 2000, following the completion of maintenance and post-maintenance testing. The Wide Range Noble Gas Effluent Radiation Monitor was inoperable for approximately eight days.