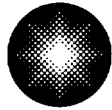


**Peter E. Katz**  
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**Constellation  
Nuclear**

**Calvert Cliffs  
Nuclear Power Plant**

*A Member of the  
Constellation Energy Group*

Mach 1, 2001

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

**ATTENTION:** Document Control Desk

**SUBJECT:** Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318  
Special Report – Seismic Monitoring System

The attached special report is submitted in accordance with Calvert Cliffs Technical Requirements Manual Section 15.3.4, Contingency Measure B.1. The report is required due to the inoperability of the seismic monitoring system for a period in excess of 30 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  
D. M. Skay, NRC

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

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## **ATTACHMENT (1)**

### **SPECIAL REPORT – SEISMIC MONITORING SYSTEM**

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Calvert Cliffs Nuclear Power Plant, Inc. submits this Special Report concerning an inoperable seismic monitoring system as required by the Calvert Cliffs Technical Requirements Manual (TRM) Section 15.3.4, Contingency Measure B.1. The seismic monitoring system is common to Calvert Cliffs Units 1 and 2.

#### **ACTION TAKEN**

The seismic monitoring system was removed from operable status on January 25, 2001, at approximately 09:35 for surveillance testing. While testing, it was discovered that one of the five channels did not produce the expected output from a simulated input, thereby failing to satisfy the requirements of Surveillance Test Procedure (STP) M-260-0. The amplitude of the output from accelerometer 0YE002 was approximately one-half of its expected value. The accelerometer 0YE002 is located in the Unit 1 Containment. Additional troubleshooting of this channel's equipment, located outside the Unit 1 Containment, did not correct the low output problem. We have concluded that the malfunction is associated with the accelerometer, or associated devices, located inside the Unit 1 Containment.

#### **EFFECT ON OPERATION**

The ability to automatically detect and record seismic events at Calvert Cliffs Units 1 and 2 is available on the other four channels of the seismic monitor. If on-site personnel feel a seismic event, the operations shift manager would have some immediate data available to determine if the implementation of the Emergency Response Plan Implementation Procedures is appropriate. In addition, information can be obtained on the extent of an earthquake by calling the National Earthquake Information Center or the University of Delaware.

No other systems are adversely affected by the inoperable seismic monitoring system.

#### **CAUSES OF INOPERABILITY**

The seismic monitoring system is inoperable due to a malfunction the accelerometer 0YE002, or associated components inside the Unit 1 Containment. This accelerometer is located on the 69' elevation of the Unit 1 Containment Building. Troubleshooting of this instrument loop can not be done with the unit on-line due to personnel radiological dose concerns. The cause of the malfunction can not be determined at this time.

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

The affected equipment will be inspected, and repaired or replaced during the next Unit 1 outage of sufficient length. The next Unit 1 refueling outage is scheduled for the first quarter 2002.