

Certified By

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## BALTIMORE GAS AND ELECTRIC COMPANY

P.O. BOX 1475

BALTIMORE, MARYLAND 21203

NUCLEAR POWER DEPARTMENT  
CALVERT CLIFFS NUCLEAR POWER PLANT  
LUSBY, MARYLAND 20657

November 19, 1982

Mr. Ronald C. Haynes, Director  
U. S. Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, PA 19406

Docket No. 50-317  
License No. DPR 53

SUBJECT: LER 82-70 (U-1)

Dear Mr. Haynes:

This letter is to confirm our verbal notification to your Mr. Ralph Architzel of the discovery that the pressure transmitters which supply inputs to generate a Chemical and Volume Control Isolation Signal (CVCIS) are located such that a single failure of a sensor channel may prohibit CVCIS initiation in the event of a letdown line break.

Four pressure transmitters supply inputs to the CVCIS, two are located in the West Penetration Room and two are located in the Letdown Heat Exchanger Room. These rooms are connected by a pipe chase. The Letdown Heat Exchanger Room is connected to the adjacent passageway by an open doorway. An engineering evaluation has been conducted to determine if a letdown line break in the West Penetration Room would sufficiently pressurize the Letdown Heat Exchanger Room to initiate CVCIS. At 1030 on November 19, 1982 while in Mode 1, it was determined that the Letdown Heat Exchanger Room probably would not pressurize sufficiently to initiate CVCIS. Consequently, a break in the letdown line would cause a pressure increase in only the penetration which would be sensed by the two pressure sensors in that room. A failure in one pressure sensor channel would result in only one CVCIS channel receiving a high pressure signal, thereby prohibiting the initiation of a CVCIS signal. At the time of this discovery, all CVCIS channels were declared inoperable (T.S. 3.3.2.1). To restore operability of the CVCIS channels, the ZG sensor channel was placed in the tripped condition, thereby creating a situation where CVCIS can be initiated on receipt of only one high pressure signal. This was accomplished at 1122, thereby terminating the event.

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A complete description of the events leading to this discovery and any further corrective actions will be addressed in a follow-up report.

Very truly yours,

*L B Russell*

L. B. Russell  
Plant Superintendent

LBR:bsg

cc: J. A. Tiernan  
Director, Office of Management  
Information & Program Control  
G. S. Pavis

R. M. Douglass  
R. E. Architzel  
L. B. Russell  
W. S. Gibson