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R. E. DENTON  
GENERAL MANAGER  
CALVERT CLIFFS

February 26, 1992

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  
Annual Report of Power-Operated Relief and Safety-Valve Failures and  
Challenges for the January 1 through December 31, 1991 Period

Gentlemen:

We are submitting this report in accordance with Calvert Cliffs Technical Specification 6.9.1.5.c. The report describes challenges to, and failures of, Power-Operated Relief (PORV) and Safety Valves. Two PORVs actuated in 1991.

The first actuation occurred on June 5, 1991. Unit 1 PORV 1-ERV-404 lifted while at COLD SHUTDOWN (MODE 5) with the reactor coolant system depressurized and vented. This occurred while a technician was installing a control-circuit jumper as part of a Surveillance Test Procedure (STP). He accidentally shorted the jumper to a power-supply terminal during installation. This caused the power-supply fuse to fail and the PORV to actuate.

On June 21, 1991, while performing an STP at MODE 5, Unit 1 PORV 1-ERV-402 cycled rapidly several times. This occurred when a jumper, which had a stray wire strand, was shorting to ground. The PORV leaked by its seat as a result of this rapid cycling. The PORV was intentionally cycled once, shortly after test completion to stop the leakage.

These events were investigated as part of our corrective action program. Appropriate corrective action was taken in both instances.

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

Very truly yours,

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