# PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

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PHILADELPHIA, PA. 19101

April 30, 1987

(215) 841-4000

Docket No. 50-277

Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555

> SUBJECT: Licensee Event Report Peach Bottom Atomic Power Station - Unit 2

This revised LER concerns the High Pressure Coolant Injection System being inoperable due to failure of a control device in the turbine electro-hydraulic controls. We are transmitting this revised LER at this time because a review of our records does not confirm that it was transmitted on February 4, 1987, as dated.

Reference:	Docket No. 50-277									
Report Number:	2-86-16									
Revision Number:	01									
Event Date:	July 9, 1986									
Revised Report Date:	February 4, 1987									
Facility:	Peach Bottom Atomic Power Station RD 1, Box 208, Delta, PA 17314									

This LER is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(v) and provides additional information regarding the control device failure. Revisions are indicated by vertical bars in the margin.

Very truly yours,

R. H. Logue Assistant to the Manager Nuclear Support Department

cc: W. T. Russell, Administrator, Region I, NRC T. P. Johnson, NRC Resident Inspector

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ACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
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Unit Con	ditions Prior to the	e Event	
100% Rea	ctor Power		
Descript	ion of the Event:		
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## Consequences of the Event:

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Although failure of the EG-M control box to function properly rendered the HPCI System incapable of achieving rated flow and discharge pressure (approximately 5000 gpm and 1000 psig) while Unit 2 was at 100% power, the consequences of this event are considered minimal because the required back-up core cooling systems were operable. The RCIC System, which is a high pressure back-up to the HPCI System with a lower flow capacity, was

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NAC Form 200A 18431	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION											
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available while the HPCI System was inoperable. In addition, the low pressure ECCSs and the ADS were available to satisfy the safety design basis. When the HPCI System was determined to be inoperable, the ECCSs, ADS actuation logic and the RCIC System were demonstrated to be operable in accordance with the Technical Specifications.

### Cause of the Event:

The cause of the event was failure of an EG-M control box component. An electrical ground was discovered in the control box. The EG-M control box was sent to Woodward, the manufacturer, for a failure analysis and repairs. Woodward found that two printed circuit boards in the control box (part nos. 379499 and 5430.229) were out of tolerance (resistance too low) due to failed circuit board components. The precise cause of the circuit board failures was not determined.

#### Corrective Actions:

The control box was replaced on July 10, 1986, and calibrated in accordance with a written station procedure. The HPCI System was satisfactorily tested (ST 6.5) and declared operable at approximately 1830 hours on July 10, 1986.

Woodward replaced the failed printed circuit boards and, after verifying proper operation, returned the control box to Peach Bottom.

### Previous Similar Occurrences:

LER 2-83-18 concerned failure of the HPCI turbine control valve to open because of a burned out resistor in the power supply to the EG-M control box. The control box did not fail.