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#### Peach Bottom Atomic Power Station - Unit 3

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## Description of the Event:

On August 21, 1984, at 2:01 p.m., with Unit 3 at 100% power, the "Reactor Hi/Lo Water Level" annunciator alarmed in the Control Room. The reactor operator observed that all three reactor feedpump flows and reactor level were rapidly decreasing. Within seconds a reactor low level scram, a Group II isolation, and a Group III isolation occurred. As reactor level continued to decrease, both reactor recirculation pumps tripped, the High Pressure Coolant Injection (HPCI) and Reactor Core Isolation Cooling (RCIC) systems automatically started, and a Group I isolation occurred. HPCI and RCIC continued to inject water into the reactor until both of these systems tripped on high reactor level. The HPCI system cycled off and on to maintain reactor level. Torus cooling was established, the isolations were reset, drywell instrument nitrogen was restored, and the main steam isolation valves were opened to re-establish the main condenser as the primary heat sink. The 'C' reactor feedpump was reset from the high reactor level trip and placed in service for reactor level control.

### Consequences of the Event:

The reactor protection and the primary containment isolation systems operated properly during the reactor water level transient. The HPCI and RCIC systems started automatically and immediately restored reactor level to normal. All other safety systems responded properly. Therefore, there were no adverse consequences.

LICENSEE EVENT REP	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION					
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#### Cause of the Event:

The decrease in reactor water level was the result of a sudden speed decrease of all three reactor feedpumps. The cause of the speed decrease is believed to be intermittent failure of a component in the feedwater control system.

#### Corrective Actions:

The feedwater master controller and three proportional amplifiers in the feedwater control system were calibration checked and found to be fully operational. A visual inspection of the wires connecting the master controller, the proportional amplifiers, and the individual feedpump turbine speed controllers indicated that all connections were intact. The ribbon cables connecting the master controller, proportional amplifiers, and speed controllers were inspected, continuity checked, and found acceptable. The feedwater runback instrumentation setpoints were checked and found acceptable.

Because testing could not reproduce the failure, components capable of producing a similar failure were replaced. The replaced components included the master controller, three proportional amplifiers, and four ribbon cables. In addition, a recorder was installed to monitor signals to the master controller.

Upon return to power operation, the 'B' reactor feedpump was placed in manual control and the automatic control of the 'A' and 'C' reactor feedpumps was observed for proper control ability. No feedwater control deficiencies have been identified since the unit was returned to power operation.

# PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

September 20, 1984

Docket No. 50-278

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

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#### SUBJECT: Licensee Event Report

This LER deals with the full scram and actuation of the Primary Containment Isolation System, High Pressure Coolant Injection System, and Reactor Core Isolation Cooling System on Unit 3.

Reference:Docket No. 50-278Report Number:3-84-11Revision Number:00Event Date:August 21, 1984Report Date:September 20, 1984Facility:Peach Bottom Atomic Power Station<br/>RD #1, Box 208, Delta, PA 17314

This LER is submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(IV).

Very truly yours,

W. T. Ullrich Superintendent Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator Region I, USNRC

Mr. A. R. Blough, Site Inspector