

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2 DOCKET NUMBER (2) 0800002177 PAGE (3) 1 OF 013

TITLE (4) Containment Isolation Caused by Reactor Protection System M-G Set Trip

Table with columns for EVENT DATE (8), LER NUMBER (8), REPORT DATE (7), OTHER FACILITIES INVOLVED (4), and DOCKET NUMBER (8). Includes sub-columns for MONTH, DAY, YEAR, SEQUENTIAL NUMBER, and ALIEN NUMBER.

Table for OPERATING MODE (9) and POWER LEVEL (10). Includes checkboxes for various modes and power levels.

LICENSEE CONTACT FOR THIS LER (11) W. C. Birely, Senior Engineer - Licensing Section TELEPHONE NUMBER 215 841 7504

Table for COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (12). Columns include CAUSE, SYSTEM, COMPONENT, MANUFACTURER, and REPORTABLE TO NRC.

SUPPLEMENTAL REPORT EXPECTED (14) YES (15) NO (16) EXPECTED SUBMISSION DATE (18) MONTH DAY YEAR

ABSTRACT (Sum of 1400 words, i.e., approximately fifteen single-space typewritten lines) (19)

Abstract: 2-86-08

On February 27, 1986 at 0908 hours, a Group II and III outboard isolation occurred and a half-scrum signal was generated while Unit 2 was at 100% power. The cause of the event was erratic voltage control associated with use of the rheostat for adjustment of the "B" Reactor Protection System (RPS) Motor Generator (M-G) set output voltage. This caused an undervoltage trip of the M-G set and resulted in the isolation, and half-scrum signal. The trips were promptly reset and the M-G set was returned to service. There were no adverse safety consequences and no control rod insertion occurred.

An event similar to this occurred on February 3, 1986 and was reported in LER 2-86-07. A Maintenance Request Form was issued on March 3, 1986 (before submittal of the previous report) to inspect the rheostat and take appropriate corrective action.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 6	0 0 3	0 0	0 2	OF 0 3

TEXT (If more space is required, use additional NRC Form 266A (17))

Unit Conditions Prior to the Event

100% Power
Run Mode

Description of the Event:

On February 27, 1986 at 0908 hours, a Group II and III outboard isolation occurred and a half scram signal was generated when the "B" Reactor Protection System (RPS) motor generator (M-G) set tripped. Group II and III isolations include Reactor Water Cleanup System and Residual Heat Removal System isolations as well as selected containment and Reactor Building ventilation trips.

The "B" RPS M-G set tripped on undervoltage when the M-G set voltage rheostat was adjusted during performance of Surveillance Test (ST) 9.20, "RPS M-G Set Output Data." During performance of ST 9.20 (completed once each shift), it is not uncommon for the RPS M-G set output voltage to be adjusted to the desired range using the rheostat.

The "B" RPS M-G set trip, resulting isolations and pump trip were promptly reset. The M-G set was returned to service at 0910 hours on February 27.

The EIIS codes for the affected systems are JM, Primary Containment Isolation System (PCIS), and JC, RPS.

Consequences of the Event:

There were no adverse safety consequences. The PCIS logic and Reactor Protection System functioned properly during the event. No control rod insertion occurred because only a half-scram signal was generated.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		8 6	- 0 0 8	- 0 0	0 3	OF 0 3

TEXT (if more space is required, use additional NRC Form 366A) (17)

Cause of the Event:

During performance of ST 9.20, the "B" RPS M-G set output voltage was found to be lower than desired. In an attempt to increase the voltage to the desired range of 120-122.5 volts, the non-licensed plant operator turned the rheostat knob in the "increase" direction. However, the voltage decreased to the undervoltage trip setpoint.

Corrective Actions:

A Maintenance Request Form (MRF) was issued to inspect the rheostat and repair it as necessary. This work will take place during an upcoming outage. In addition, S.T. 9.20 has been revised to require the operator to notify the control room operators prior to adjusting the rheostat. Therefore, the operating shift will be forewarned of a potential RPS M-G set trip.

Previous Similar Occurrences:

A similar event occurred on February 3, 1986 and was reported in LER-2-86-07.

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March 25, 1986

Docket No. 50-277

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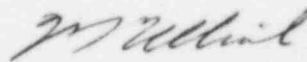
SUBJECT: Licensee Event Report
Peach Bottom Atomic Power Station - Unit 2

This LER concerns a Group II and III outboard isolation due to an undervoltage trip of the 'B' Reactor Protection System M-G set.

Reference:	Docket No. 50-277
Report Number:	2-86-08
Revision Number:	00
Event Date:	February 27, 1986
Report Date:	March 25, 1986
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)(iv).

Very truly yours,



W. T. Ullrich
Superintendent
Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator, Region I, USNRC
T. P. Johnson, NRC Resident Inspector

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