

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2 DOCKET NUMBER (2) 05000277 PAGE (3) 1 OF 03

TITLE (4) RPS and PCIS Actuation

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER(S)
08	28	1985	1985	015	0	09	20	1985		05000

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

OPERATING MODE (9) N	20.402(a)	20.406(a)	<input checked="" type="checkbox"/>	90.73(a)(2)(iv)	72.71(b)
POWER LEVEL (10) 000	20.406(a)(1)(ii)	90.36(a)(1)		90.73(a)(2)(v)	72.71(a)
	20.406(a)(1)(iii)	90.36(a)(2)		90.73(a)(2)(vi)	OTHER: (Specify in Abstract below and in Test, NRC Form 366-A)
	20.406(a)(1)(iv)	90.73(a)(2)(ii)		90.73(a)(2)(vii)(A)	
	20.406(a)(2)(iv)	90.73(a)(2)(i)		90.73(a)(2)(viii)(B)	
	20.406(a)(2)(iv)	90.73(a)(2)(iii)		90.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12) NAME: W. C. Birely, Senior Engineer, Licensing Section TELEPHONE NUMBER: AREA CODE 215, NUMBER 841-5048

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14) YES/NO:  NO EXPECTED SUBMISSION DATE (15) MONTH: DAY: YEAR:

ABSTRACT (Limit to 1400 words, i.e., approximately fifteen single-space typewritten lines) (16)

Abstract: 2-85-15

On August 22, 1985, with Unit 2 in cold shutdown, the reactor protection system initiated a full scram due to an inadvertent reactor low level signal. Additionally, the primary containment isolation system initiated Group II and Group III isolations due to the same reactor low level signal. Because Unit 2 was in the cold shutdown condition, no control rod movement occurred. The event occurred when a reactor pressure transmitter was being surveillance tested. The scram and Group II and Group III isolations were reset and the affected systems restored to normal.

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		0 1 1 5	0 1 0		0 2	OF	0 3

TEXT (if more space is required, use additional NRC Form 366A (1))

Description of the Event:

On August 22, 1985, at 10:11 a.m., while Unit 2 was in cold shutdown, a full scram was initiated by the reactor protection system (RPS) due to an inadvertent reactor low level signal. Additionally, the Primary Containment Isolation System (PCIS) initiated Group II and Group III isolations due to the same reactor low level signal. Because Unit 2 was in the cold shutdown condition, no control rod movement occurred. RPS and PCIS responded properly. The inadvertent signal was generated when reactor pressure transmitter PT-2-6-53B was being surveillance tested. The scram and Group II and Group III isolations were reset and all affected systems were returned to normal.

Consequences of the Event:

There were no adverse consequences, because the event did not jeopardize the capability to maintain the reactor in the cold shutdown condition.

Cause of the Event:

The reactor pressure transmitter PT-2-6-53B was being surveillance tested. PT-2-6-53B shares a sensing line with reactor level transmitters LT-2-2-3-101C and LT-2-2-3-101D. These two level transmitters actuate the RPS and PCIS systems during a reactor low level condition. During the surveillance test, the PT-53B block valve is placed in the closed position. A high pressure is then applied to the volume between the transmitter and the block valve. Due to a leak through the block valve, a small pressure spike occurred in the common sensing line when the test pressure was applied. This spike caused LT-101C and LT-101D, which respond to pressures of the magnitude of inches of water, to generate low level trip signals. Simultaneous low level signals from LT-101C and LT-101D initiate a full scram and Group II and Group III isolations.

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		85	015	00	03	OF 03

TEXT (11 more spaces in previous and additional NRC Form 366A (17))

Corrective Actions:

The leaking block valve was replaced on August 24, 1985.

Previous Similar Occurrences:

LER 2-85-04 concerned an instrument rack pressure spike resulting in a full scram and Group II and Group III isolations.