

APPROVED (MS NO. 3160-0104)
EXPIRES - 9/31/93

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Peach Bottom Atomic Power Station - Unit 2	0 5 0 0 0 27 17	1 OF 0 3

TITLE 101
RPS and PCIS Actuation

EVENT DATE (6)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)												
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME(S)					DOCKET NUMBER(S)							
0	8	2	2	8	5	0	1	5	0	0	9	2					0				
0	8	2	2	8	5	0	1	5	0	0	9	2					0				

OPERATING MODE (8)		N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 16 CFR § (Check one or more of the following) (11)				
POWER LEVEL (9)	0 0 0	20.402 (b)	20.406 (c)	X	60.73 (a)(2)(iv)	73.71 (b)	
		20.406 (a)(1)(ii)	60.36 (a)(1)		60.73 (a)(2)(v)	73.71 (c)	
		20.406 (a)(1)(iii)	60.36 (a)(2)		60.73 (a)(2)(vi)	OTHER: (Specify in Abstract below and in Test, NRC Form 366-2)	
		20.406 (a)(1)(iv)	60.73 (a)(2)(ii)		60.73 (a)(2)(vii)(A)		
		20.406 (a)(2)(iv)	60.73 (a)(2)(iv)		60.73 (a)(2)(viii)(B)		
		20.406 (a)(3)(ii)	60.73 (a)(2)(iii)		60.73 (a)(2)(ix)		

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER	
	AREA CODE	
W. C. Birely, Senior Engineer, Licensing Section	2 15	8 4 1 7 5 0 4 8

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REP. IT ISN

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	
	1	1 1 1	1 1 1				1	1 1 1	1 1 1		
	1	1 1 1	1 1 1				1	1 1 1	1 1 1		

SUPPLEMENTAL REPORT EXPECTED 1141

YES (If you complete EXPECTED SUBMISSION DATE)		<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (YY)					
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ABSTRACT (about 20-1400 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.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 2 7 7 8 5	LER NUMBER (3)			PAGE (2)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0 1 1 5	0 1 0	0 2			

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

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.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMS NO. 3190-0104

EXPIRES 8/31/88

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 0500027785	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		85	015	00	03	OF 03

TEXT (If more space is required, use additional NRC Form 360A) (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.