

## LICENSEE EVENT REPORT (LER)

APPROVED OMS NO. 3180-0104  
EXPIRES - 9/31/85

FACILITY NAME (1)

Peach Bottom Atomic Power Station - Unit 2

DOCKET NUMBER (2)

0 5 0 0 0 2 7 7

PAGE (3)

1 OF 0 3

TITLE (4)

Torus Low Level During Startup

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 NAMES		DOCKET NUMBER (8)	
0 8	2 5	8 5	8 5	0 1	7	0 0	0 9	2 4	8 5		0 5 0 0 0	
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)												
OPERATING MODE (9)			20.402(b)			20.406(a)			60.73(a)(2)(iv)			73.71(a)
POWER LEVEL (10)			20.406(a)(1)(i)			60.36(a)(1)			60.73(a)(2)(i)			73.71(a)
			20.406(a)(1)(ii)			60.36(a)(2)			60.73(a)(2)(iv)			OTHER (Specify in Abstract below and in Test, NRC Form 306A)
			20.406(a)(1)(iii)			60.73(a)(2)(ii)			60.73(a)(2)(iv)(a)			
			20.406(a)(1)(iv)			60.73(a)(2)(iii)			60.73(a)(2)(iv)(b)			
			20.406(a)(1)(v)			60.73(a)(2)(iv)			60.73(a)(2)(iv)			

LICENSEE CONTACT FOR THIS LER (12)

NAME

W. C. Birely, Senior Engineer, Licensing Section

TELEPHONE NUMBER

AREA CODE

2 15 8 4 1 7 5 0 4 8

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 (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

ABSTRACT (Limit to 1000 words, i.e., approximately fifteen single-space typewritten lines) (16)

Abstract: 2-85-17

On August 25, 1985 at 1930, Unit 2 was in startup when the unit operator discovered that suppression pool volume in the torus had dropped slightly below the technical specification limit. Suppression pool inventory was being decreased by the torus water filter pump because the level in the suppression pool had risen to just below the upper level limit. Condensate storage tank water was used to return the torus to its proper level.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3180-0194

EXPIRES 8/31/86

FACILITY NAME (1)  Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2)  05000277815	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	ALTERNATE NUMBER			
		85	017	00	02	OF	03

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

Description of the Event:

On August 25, 1985 at 1930 hours, Unit 2 was in startup when the unit operator discovered the torus water volume had dropped below the technical specification limit. Torus water volume was being reduced, using the torus water filter pump, because of higher-than-desired water volume. Technical Specification 3.7.A.1 states: Whenever the nuclear system is pressurized above atmospheric pressure, minimum water volume shall be 122,900 cubic feet. This volume corresponds to a level of 14.6 feet. The level dropped to 14.52 feet. The low level condition existed for approximately 1 1/3 hours; however, Unit 2 was not in conformance with the technical specification for only one hour because steam production and pressurization did not begin until 1830 hours.

The EIIS code for the affected system is BT.

Consequences of the Event:

Prior to the event, Unit 2 had been shutdown for five days. The shutdown decay heat under these conditions has been conservatively calculated to be 16.5 megawatts thermal. Reactor pressure was 15 psig and reactor power was essentially zero at the time of the event. The torus water volume had decreased approximately 875 cubic feet below its limit of 122,900 cubic feet. This is less than a 0.75% reduction. Under these conditions the suppression pool could have performed its designed function despite the low level, since the energy dissipation requirements were significantly below full power values.

Cause of the Event:

The cause of this event was operator error. While reducing the water level, the operator received a torus low level alarm. The operator checked the torus level indication and found the level to be 14.75 feet. The low level alarm setpoint which normally is set at 14.62 feet had drifted upward. Pumping the torus level down using the torus filter pump is a slow process. From the

## 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) 05000277	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		85	017	00	03	OF	03

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

slope of the plot of the level drop versus time on the torus narrow range level recorder the operator could estimate that the torus level would not go below the actual low level alarm point for at least two hours with the filter pump in service. A decision was made to continue pumping down the torus without the benefit of the low level alarm. At the same time, the operator was preparing to startup the reactor. His attention was distracted from the torus level recorder by other startup operational tasks. The torus level was found to be 0.08 feet below the low level limit approximately one hour after reactor pressurization had begun. The operator should have provided more attention to the decreasing level, considering that the low level alarm was not reset.

Corrective Actions:

Upon discovery, the torus water volume was returned to within technical specification limits within six minutes. The condensate storage tank was used as a source of makeup water to restore torus volume. A maintenance request form was issued to return the annunciator setpoint to the proper setting. The operator was advised of the need to more closely monitor this parameter, particularly when alarm features are not available.

Previous Similar Occurrences:

Similar events were reported in LER 2-79-12/3L for a low torus level condition on Unit 2; LER 3-85-08 for a high torus level condition on Unit 3, and LER 3-79-9/3L for a low torus level condition due to an incorrect setpoint on Unit 3.

PHILADELPHIA ELECTRIC COMPANY

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September 24, 1985

Docket No. 50-277

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

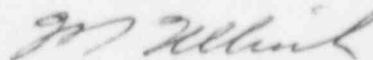
SUBJECT: Licensee Event Report  
Peach Bottom Atomic Power Station - Unit 2

This LER deals with suppression pool water volume being below the Technical Specification minimum limit with the reactor vessel pressurized.

Reference:	Docket No. 50-277
Report Number:	2-85-17
Revision Number:	00
Event Date:	August 25, 1985
Report Date:	September 24, 1985
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)(i)(B).

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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