

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Peach Bottom Atomic Power Station - Unit 2

DOCKET NUMBER (2)

05000277

PAGE (3)

1 OF 3

TITLE (4)

Full Scram on IRM High Flux

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 (9)
08	07	85	85	012	010	09	06	85			05000277

OPERATING MODE (10)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)										
POWER LEVEL (10) 0102	20.402(b)			20.406(a)			X 60.73a(12)(v)			73.1(b)	
	20.406(a)(1)(i)			60.36a(1)			60.73a(12)(v)			73.1(b)	
	20.406(a)(1)(ii)			60.36a(2)			60.73a(12)(v)			OTHER (Specify in Abstract below and in Test, NRC Form 366A)	
	20.406(a)(1)(iii)			60.73a(12)(ii)			60.73a(12)(v)(i)				
	20.406(a)(1)(iv)			60.73a(12)(v)			60.73a(12)(v)(ii)				
	20.406(a)(1)(v)			60.73a(12)(iii)			60.73a(12)(v)(iii)				

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
W. C. Birely, Senior Engineer - Licensing Section	215 841 7504

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
X					

ABSTRACT (Limit to 1600 words, i.e., approximately fifteen single-space typewritten lines) (16)

Abstract: 2-85-12

On August 7, 1985 at 1:39 p.m., with Unit 2 in the startup mode and at approximately 2 percent power, a full scram occurred as the result of a high neutron flux trip on both the "C" and "D" Intermediate Range Monitors (IRMs). The Electro-Hydraulic Control (EHC) system was out-of-service and the reactor pressure was being maintained at approximately 105 psig by control rod movement. When control rod 30-19 was withdrawn two notches, the "D" IRM tripped on high flux, resulting in a "B" Reactor Protection System (RPS) channel half scram signal. While attempting to re-insert control rod 30-19 to its original position, the "C" IRM tripped on high flux resulting in an "A" RPS channel half scram signal. These combined signals resulted in a reactor full scram.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMS NO. 3190-0104
EXPIRES 8/31/86

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 (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0 1 2	0 1 2	0 1 0	0 2	OF	0 3

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

Description of the Event:

On August 7, 1985 at 1:39 p.m., with Unit 2 in the startup mode and at approximately two percent power, a full scram occurred as the result of a high neutron flux trip on the "C" and "D" Intermediate Range Monitors (IRMs). The Electro-Hydraulic Control (EHC) system was blocked out-of-service for repair. Reactor pressure was being maintained at approximately 105 psig by control rod movement until repairs on the EHC system could be completed.

When control rod 30-19 was withdrawn two notches, the "D" IRM tripped on high flux generating a "B" Reactor Protection System (RPS) channel half scram signal. Upon observing the increasing neutron flux and reactor pressure, the operator attempted to insert control rod 30-19 back to its original position but it would not move. Control rod drive water pressure was increased before a second attempt at inserting the control rod was made. However, the "C" IRM tripped on high flux, generating an "A" RPS channel half scram signal before the 30-19 rod was re-inserted. This signal, combined with the previously generated "B" channel half scram signal, resulted in a full reactor scram.

The EEIS code for the affected system is JC.

Consequences of the Event:

Unit 2 was at low power with the reactor at low pressure at the time of the event. All safety systems functioned properly or were available if needed. No isolations occurred as a result of this event. There were no adverse consequences as a result of this event.

Cause of the Event:

Cause of the scram was due to personnel error since the operator chose to reduce the neutron flux by moving control rod 30-19 rather than upranging the IRMs when controlling reactor pressure without the EHC system in service.

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)		
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TEXT (if more space is required, use additional NRC Form 365a) (17)

Corrective Actions:

General Plant Procedure GP-2, "Normal Plant Startup", will be revised to include a "Caution" statement concerning plant operation when the EHC system is not available during plant startup.

Previous Similar Occurrences

None.

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

September 6, 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 a full scram while maintaining reactor pressure through control rod movement.

Reference:	Docket No. 50-277
Report Number:	2-85-12
Revision Number:	00
Event Date:	August 7, 1985
Report Date:	September 6, 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)(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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