

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Peach Bottom Atomic Power Station - Unit 3	05000278	1 OF 3

TITLE (4)
Failure to Trip of HPCI Turbine

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(S)
01	09	85	85	003	00	01	30	85			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(i)	90.73(a)(2)(iv)	73.71(a)
POWER LEVEL (10)	Q816	20.406(a)(1)(ii)	90.36(a)(1)	<input checked="" type="checkbox"/> 90.73(a)(2)(v)	73.71(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 366A)
		20.406(a)(1)(iv)	90.73(a)(2)(ii)	90.73(a)(2)(vii)(A)	
		20.406(a)(1)(v)	90.73(a)(2)(iii)	90.73(a)(2)(vii)(B)	
		20.406(a)(1)(vi)	90.73(a)(2)(iv)	90.73(a)(2)(viii)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
J. C. Nagle - Engineer - Special Projects	215 841-7518; 4

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
X	B	J0094	T147	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (15) (See Instructions)	NO	EXPECTED SUBMISSION DATE (16)	MONTH	DAY	YEAR
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

ABSTRACT (Limit to 1400 words, i.e., approximately fifteen single-space typewritten lines) (18)

Abstract: 3-85-03

On January 9, 1985, at 5:30 p.m., during surveillance testing, the HPCI turbine on Unit No. 3 could not be tripped from the control room or using the local overspeed trip and was declared inoperable. Unit No. 3 was at 86 percent power at the time of the occurrence. The automatic initiation signal was reset and the HPCI steam supply isolation valve, MO3-23-14, was closed using the control room switch to isolate the steam supply to the turbine. The RCIC, LPCI, Core Spray, and ADS systems were verified as operable in accordance with Technical Specification 4.5.C.2. Investigation revealed that the turbine hydraulic trip relay was binding as the result of a coat of paraffin on the relay piston. The paraffin within the turbine control hydraulic fluid had solidified and coated the piston. The piston was cleaned and HPCI was declared operable and returned to service at 12:00 noon on January 11, 1985.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR 8 5	SEQUENTIAL NUMBER - 0 0 3	REVISION NUMBER - 0 0			
					0 2	OF 0 3	

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

Description of the Event:

On January 9, 1985, at 5:30 p.m., during surveillance testing of the HPCI logic system on Unit No. 3, the HPCI turbine could not be tripped from the control room as required by the surveillance test or using the local overspeed trip and was declared inoperable. Unit No. 3 was at 86 percent power level at the time of the occurrence. Investigation revealed a problem with the turbine hydraulic trip relay. The HPCI steam supply isolation valve, MO3-23-14, was closed to isolate the steam supply to the turbine and the automatic initiation signal, which had been actuated in accordance with the surveillance test, was reset.

Consequences of the Event:

The failure of the hydraulic trip relay did not prevent the automatic initiation of HPCI and therefore would not have prevented HPCI from performing its designed safety function. Likewise, all alarm functions associated with HPCI were operable and would have indicated any conditions which required the isolation of HPCI. The Reactor Core Isolation Cooling system, the Low Pressure Coolant Injection system, the Core Spray system, and the Automatic Depressurization system were verified as operable in accordance with Technical Specification 4.5.C.2.

Cause of the Event:

Investigation into the failure to trip determined that the turbine hydraulic trip relay piston was binding as a result of paraffin on the piston. The paraffin within the oil used as hydraulic fluid for the turbine controls had separated from the oil and coated the internals of the hydraulic system including the trip relay piston. Investigation has not determined the cause of the paraffin separation.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		8 5	- 0 0 3	- 0 0	0 3	OF

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

Corrective Actions:

Upon identification of the solidified paraffin, the hydraulic fluid was analyzed for contamination and determined to be clean; therefore, it was not replaced. The piston of the HPCI turbine hydraulic trip relay was cleaned along with a portion of the associated piping and internals. HPCI was declared operable and returned to service at 12:00 noon on Januray 11, 1985. HPCI is being fuctionally tested on a weekly basis to verify the system's operability.

PHILADELPHIA ELECTRIC COMPANY

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P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

January 30, 1985

Docket No. 50-278

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Washington, DC 20555

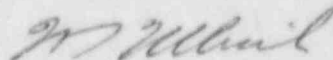
SUBJECT: Licensee Event Report
Peach Bottom Atomic Power Station - Unit 3

This LER deals with the failure to trip of the HPCI turbine on Unit 3.

Reference:	Docket No. 50-278
Report Number:	3-85-03
Revision Number:	00
Event Date:	January 9, 1985
Report Date:	January 30, 1985
Facility:	Peach Bottom Atomic Power Station RD #1, Box 208, Delta, PA 17314

This LER is submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(v).

Very truly yours,



W. T. Ullrich
Superintendent
Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator
Region I, USNRC

Mr. T. P. Johnson, Resident Inspector

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