

LICENSEE EVENT REPORT (LER)

APPROVED ONE NO. 3160-D104
EXPIRES - 9/31/93

FACILITY NAME (1): Peach Bottom Atomic Power Station - Unit 3
DOCKET NUMBER (2): 0 5 0 0 0 2 1 7 1 8
PAGE (3): 1 OF 0 3

TITLE (4): Spurious Actuation of the Primary Containment Isolation System

EVENT DATE (8)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)		
MONTH	DAY	YEAR	YEAR	SEQUENT NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER (8)
08	16	84	84	0110	0	09	13	84			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(a)	20.408(a)	Y	80.73(a)(2)(iv)	75.71(b)
POWER LEVEL (10): 01919	20.408(a)(1)(ii)	80.36(a)(1)		80.73(a)(2)(v)	75.71(a)
	20.408(a)(1)(iii)	80.36(a)(2)		80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Test, NRC Form 366A)
	20.408(a)(1)(iv)	80.73(a)(2)(ii)		80.73(a)(2)(viiA)	
	20.408(a)(1)(v)	80.73(a)(2)(iv)		80.73(a)(2)(viiiB)	
	20.408(a)(1)(vi)	80.73(a)(2)(iii)		80.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12):
 NAME: B. L. Clark, Senior Engineer - Special Projects
 TELEPHONE NUMBER: 215 841-5017
 AREA CODE: 215

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		
A	S	D	X	F	M	R	W	1	2	0	N

SUPPLEMENTAL REPORT EXPECTED (14):
 YES () / NO (X)
 EXPECTED SUBMISSION DATE (15):

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-spaced typewritten lines) (16):

Abstract: 3-84-10

On August 16, 1984, with Unit 3 at 99% power, a partial actuation of the Primary Containment Isolation System (PCIS) occurred. Investigation revealed that the actuation was due to a momentary loss of power to a portion of the PCIS outboard isolation logic. PCIS, designed as a fail-safe system, operated as designed to isolate the affected outboard valves in Groups 2A and 2D. The loss of power was caused by grounded leads on the primary side of the Unit 2 'A' condensate pump transformer. The 2A condensate pump transformer breaker tripped immediately to clear the ground. The PCIS logic was immediately reset and the affected systems were returned to service.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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		YEAR 8 4	SEQUENTIAL NUMBER - 0 1 0	REVISION NUMBER - 0 0			
					0 2	OF 0 3	

TEXT (If more space is required, use additional NRC Form 360A's) (17)

Description of the Event:

On August 16, 1984, at 8:41a.m., with Unit 3 at 99% power, a portion of the outboard logic of the primary containment isolation system (PCIS) was automatically initiated.

Investigation revealed that the Unit 2 'A' condensate pump transformer primary leads had been disconnected for routine maintenance and were resting against the inside of a closed metal junction box. The leads were left disconnected to perform additional transformer testing at a later date. Maintenance personnel, believing that the testing had been completed, requested temporary clearance of the two transformer breaker permits to temporarily feed a portable transformer oil treatment unit. When the 2A condensate pump transformer breaker was closed, a short circuit to ground resulted causing a voltage drop in the startup feed supplying emergency buses 12, 23, 32 and 43. All four emergency bus breakers momentarily tripped on undervoltage, then reclosed on their associated emergency buses after the breaker to the faulted transformer tripped. The momentary loss of power to the E-23 bus resulted in an isolation of the reactor water cleanup system (PCIS Group 2A), the drywell floor drain, and the drywell equipment drain sump pumps (PCIS Group 2D).

The event also caused a momentary interruption to the Unit 3 Group I outboard isolation logic. The associated valves were closed at the time of the event with the exception of the Main Steam Isolation Valves (MSIV's). MSIV's are designed with a redundant DC feed and were not affected by the transient.

Consequences of the Event:

PCIS is designed as a fail-safe system. The loss of electrical power to the PCIS logic caused that portion of the system to operate as designed to isolate the affected valves in Groups 2A and 2D. There were no adverse consequences.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

Cause of the Event:

The cause of the event was personnel error. The request for temporary clearance of the two transformer permits was made without proper verification that the previous transformer work was completed.

Corrective Actions:

The trip of the 2A condensate pump transformer breaker isolated the ground from the electrical system. The PCIS isolation was immediately reset, and the reactor water cleanup system and drywell sumps were then returned to normal operation. The primary leads to the 2A condensate pump transformer were inspected and reconnected. In addition, Electrical Maintenance supervision was counseled on the importance of properly verifying the completion of work prior to requesting a temporary blocking permit clearance.

PHILADELPHIA ELECTRIC COMPANY

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September 13, 1984

Docket No. 50-278

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Washington, DC 20555

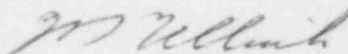
SUBJECT: Licensee Event Report

This LER deals with the spurious actuation of a portion of the primary containment isolation system (PCIS) on Unit 3.

Reference:	Docket No. 50-278
Report Number:	3-84-10
Revision Number:	00
Event Date:	August 16, 1984
Report Date:	September 13, 1984
Facility:	Peach Bottom Atomic Power Station RD #1, Box 208, Delta, PA 17314

This letter is 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

Mr. A. R. Blough, Site Inspector

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