

LICENSEE EVENT REPORT (LER)

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 4																													
TITLE (4) Smoke Detectors in the Cable Spreading Room Exceeding Surveillance Test Interval Due to Inadequate Test Procedure																																																	
EVENT DATE (5) MONTH DAY YEAR 0 6 0 2 8 8										LER NUMBER (6) YEAR SEQUENTIAL NUMBER REVISION NUMBER 8 8 - 0 1 3 - 0 0 0 7 0 5 8 8										REPORT DATE (7) MONTH DAY YEAR 0 5 8 8										OTHER FACILITIES INVOLVED (8) FACILITY NAMES PBAPS - Unit 3 DOCKET NUMBER(S) 0 5 0 0 0 2 7 8 0 5 0 0 0																			
OPERATING MODE (9) N										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																																							
POWER LEVEL (10) 0 1 0 0										20.402(a) 20.406(a)(1)(B) 20.406(a)(1)(B) 20.406(a)(1)(B) 20.406(a)(1)(B) 20.406(a)(1)(B) 20.406(a)(1)(B)										20.406(a) 20.36(a)(1) 20.36(a)(2) 20.73(a)(2)(i) 20.73(a)(2)(E) 20.73(a)(2)(B)										20.73(a)(2)(v) 20.73(a)(2)(v) 20.73(a)(2)(vB) 20.73(a)(2)(vB)(A) 20.73(a)(2)(vB)(B) 20.73(a)(2)(x)										73.71(b) 73.71(c) OTHER (Specify in Abstract below and in Test, NRC Form 308A)									
LICENSEE CONTACT FOR THIS LER (12)																																																	
NAME W. C. Birely, Senior Engineer - Licensing Section															TELEPHONE NUMBER AREA CODE 2 1 5 8 4 1 - 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)															EXPECTED SUBMISSION DATE (15)																																		
YES (If yes, complete EXPECTED SUBMISSION DATE)															NO																																		

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

Abstract:

At 0001 on June 2, 1988 with Unit 2 in Cold Shutdown and Unit 3 in the Refuel Mode with the core offloaded, the grace period for the functional testing of 14 of the 25 smoke detectors in the Cable Spreading Room as required by Technical Specification 4.14.C.1.a expired. Consequently, the surveillance test was not completed within its specified interval. The test was not completed on time due to a personnel safety concern relative to the accessibility of the detectors. Testing the detectors required climbing on cable trays and conduit into a confined area.

The Surveillance Test ST 15.86.2B was revised to provide for remote functional testing of the Cable Spreading Room Smoke Detectors. Additionally, an engineering evaluation of these detectors will be performed to determine what, if any, modifications might be necessary.

The consequences of this event are considered minimal since the Cardox System was available for operation. Additionally, there are fire extinguishers within the room and hose stations adjacent to the doors. This report is required by 10CFR 50.73(a)(2)(i)(B).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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

TEXT (If more space is required, use additional NRC Form 385A's) (17)

Unit Conditions Prior to the Event:

Unit 2: Cold Shutdown
Unit 3: Refuel Mode with Core Offloaded

Description of Event:

On the afternoon of June 1, 1988, Shift Management was informed by the Instrumentation and Controls (I&C) Group that the semi-annual functional test for one train (14 detectors) of the Cable Spreading Room Smoke Detectors as required by Technical Specification 4.14.C.1.a, would not be completed within its required time frame. At 0001 on June 2, 1988, the grace period for the functional testing of these detectors expired. These smoke detectors serve a dual function of alarming locally and in the control room and actuating the carbon dioxide suppression system (Cardox).

Consequences of the Event:

The consequences of this event are considered minimal. Automatic actuation of the Cardox System requires a signal from one detector in each of the two trains of smoke detectors. The 11 detectors in the remaining train were tested within the required interval. Based on the high reliability of the smoke detectors as exhibited in previous surveillance tests, it is believed that automatic actuation of the Cardox System was available even though the semi-annual functional test had not been performed for one train. The following suppression mechanisms were also available: manual actuation of the Cardox System, portable fire extinguishers located within the Cable Spreading Room and hose stations located adjacent to the two entrances to the room.

Cause of the Event:

The smoke detectors in the Cable Spreading Room, which are located in the overhead, are extremely difficult to reach due to the location of cable trays and conduit. The previous surveillance procedure required personnel to perform the testing in close proximity to the detectors. In order to gain access to these detectors for the purpose of testing them, a technician

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

would be required to climb on the cable trays and conduit into a confined area. Once in the proximity of the detector, quick exit from the area is not possible. This creates a significant personnel safety hazard, especially if an emergency situation should arise while a technician was in the overhead cable tray area. For this reason, the surveillance was delayed until a safe method for its completion could be determined.

Corrective Actions:

The Plant Operations Review Committee (PORC) was notified on May 26, 1988, in accordance with Administrative Procedure A-43, that functional testing of the smoke detectors would not be completed on time. The PORC directed that a continuous firewatch be stationed in the Cable Spreading Room until the surveillance tests could be completed.

Actions to Prevent Recurrence:

Surveillance Test 15.86.2B, has been revised to permit functional testing of the Cable Spreading Room Smoke Detectors utilizing a methodology which does not require the personnel to climb onto the cable trays and conduits. This revised test is currently in progress for the 14 smoke detectors.

Additionally, an engineering evaluation of the Cable Spreading Room Smoke Detectors, and their location, will be performed to determine what, if any modifications might be necessary.

EIIS Codes:

The EIIS Codes for the affected systems are: IC-Fire Detection System, KP-Fire Protection System and FA-Cable Tray System. The EIIS Codes for the affected components are: FA-Fire Alarm, BD-Board (panel), CBL-Cable, DET-Detector.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 8	LER NUMBER (5)			PAGE (3)		
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TEXT (If more space is required, use additional NRC Form 356A's) (17)

Previous Similar Occurrences:

There have been no previous occurrences reported in which a personnel safety concern has led to a surveillance requirement not being met.

Tracking Code: B16 - Design does not facilitate testing.

PHILADELPHIA ELECTRIC COMPANY

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10 CFR 50.73

E. P. FOGARTY

MANAGER

NUCLEAR SUPPORT DIVISION

July 5, 1988

Docket No. 50-277

50-278

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

SUBJECT: Licensee Event Report
Peach Bottom Atomic Power Station - Units 2 and 3

This LER concerns the failure to test the smoke detectors in the Cable Spreading Room within the surveillance interval as specified in Technical Specification 4.14.C.1.a.

Reference:	Docket No. 50-277, 50-278
Report Number:	2-88-13
Revision Number:	00
Event Date:	June 2, 1988
Report Date:	July 5, 1988
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,

E. P. Fogarty

E. P. Fogarty
Manager
Nuclear Support Division

cc: W. T. Russell, Administrator, Region I, USNRC
T. P. Johnson, USNRC Senior Resident Inspector
T. E. Magette, State of Maryland
INPO Records Center

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