

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 3 DOCKET NUMBER (2) 0500002781 PAGE (3) 1 OF 3

TITLE (4) Ventilation Diffuser Improperly Constructed which Blocked Operation of Fire Damper in 4kV Emergency Switch Gear Room Wall Penetration

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)
06	13	88	88	004	A	07	13	88			050000
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)											

OPERATING MODE (9) N	20.402(b)	20.406(a)	80.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 01010	20.406(a)(1)(i)	80.36(a)(1)	80.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(ii)	80.36(a)(2)	80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)
	20.406(a)(1)(iii)	X 80.73(a)(3)(i)	80.73(a)(2)(vii)(A)	
	20.406(a)(1)(iv)	80.73(a)(3)(ii)	80.73(a)(2)(vii)(B)	
	20.406(a)(1)(v)	80.73(a)(3)(iii)	80.73(a)(2)(viii)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
W. C. Birely, Senior Engineer - Licensing Section	215 841-5048

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (if you complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

Abstract:

On June 13, 1988 at 1400 hours, while performing Special Functional Test 1126, "Functional Test of Fire Dampers", it was discovered that one of the dampers located in the Emergency Bus Rooms ventilation duct penetration TB3-135-267-4010A, between the E-13 and the E-33 4 KV Emergency Bus Rooms would not close due to a ventilation diffuser being located in the damper's track. This is not in conformance with Technical Specification 3.14.D.1 which specifies all fire barriers which protect safety related systems required to ensure safe shutdown capacity in the event of a fire to be operable. The ventilation diffuser was improperly constructed and protruded into the track of the damper, thereby impeding full damper motion. After this discovery, a verification of the functional testing of the E-13 and E-33 Emergency Bus Room smoke detectors, as specified in Technical Specification 4.14.C.1.a was established, and the fire watch continued to monitor the Emergency Bus Rooms. The ventilation diffuser design will be modified to assure damper operability.

The consequences of this event are minimal. The other damper, located in penetration TB3-135-267-4010A, passed the functional test, thereby providing one half of the 3 hour required fire barrier protection. Also, smoke detectors in the rooms and portable fire extinguishers located near the entrance to these rooms, assure prompt response to a fire in this area.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR 88	SEQUENTIAL NUMBER 004	REVISION NUMBER 00	

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

Unit Conditions Prior to the Event:

Operating Mode N/A

Reactor Power 0%

A roving fire watch had previously been established in the 4KV Switch Gear Rooms as a compensatory measure for non-conformance with an NRC design requirement (Appendix R).

Description of the Event:

On June 13, 1988 at 1400 hours while performing Special Test 1126, "Functional Test of Fire Dampers" for Emergency Bus Rooms ventilation duct penetration TB3-135-267-4010A, it was discovered that one of the dampers located in the ventilation duct between the E-13 and the E-33 4KV Emergency Bus Room would not fully close. The damper was declared inoperable and the roving fire watch, which had been previously established in the 4KV Emergency Bus Rooms, continued. The dampers serve as a fire barrier for the ventilation duct penetrating the bus room wall. This event is reportable since Technical Specification 3.14.D.1, requiring operable fire dampers in fire barriers, was not satisfied. A verification of the functional testing of the smoke detectors in the E-13 and E-33 Emergency Switch Gear Rooms was established. The cause of the partial closure of the damper was an improperly constructed ventilation diffuser which was too large for the space in which it was contained and therefore protruded into the track provided for damper movement. The other damper which is part of the damper pair located in penetration TB3-135-267-4010A passed the special functional test.

Consequences of the Event:

The consequences of this event are minimal. Although one of the dampers located in penetration TB3-135-267-4010A did not pass the special functional test, another damper in the same penetration did perform properly therefore providing one half of the required 3 hour fire rating for penetration TB3-135-267-4010A. In the event of a fire there would have been a one and a half hour fire barrier for the Emergency Bus Room penetration. Additionally, the E-13 and E-33 4KV Emergency Switch Gear Rooms have early warning smoke detectors, and portable fire extinguishers are located near the entrance to these rooms. Consequently, the fire brigade would be able to effectively respond promptly to a fire in these rooms.

SEE LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR 88	SEQUENTIAL NUMBER - 0 0 4	REVISION NUMBER - 0 0			

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

Cause of the Event:

The cause of the fire protection Technical Specification non-conformance was a design deficiency in that an improperly constructed ventilation diffuser protruded onto the track of the dampers thereby preventing the damper from closing fully. This condition has existed since the initial construction of the plant. Previous surveillance of the fire damper was limited to visual inspection, but because of the positioning of the damper, this condition could not be detected. Recently, Special Test 1126 was initiated to functionally test the operation of the fusible link fire dampers.

Corrective Actions:

Upon discovery of the inoperable fire damper, as a temporary measure, the fire watch in the 4KV Switch Gear Rooms was continued. The ventilation diffuser design will be modified to assure damper operability.

Actions Taken to Prevent Recurrence:

To verify the operability of 48 fusible link dampers in fire barriers which had no documentation of previously being tested, Special Test 1126 is in the process of being completed. The scheduled completion date is August 1, 1988.

EIIS Codes:

The EIIS code for the affected system, Fire Protection, is KP.

Previous Similar Occurrences:

There have been no LERs concerning an inoperable fire damper due to an improperly constructed ventilation diffuser.

Tracking Codes: B9 - Construction/Installation error

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July 13, 1988

Docket No. 50-278

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NUCLEAR SUPPORT DIVISION

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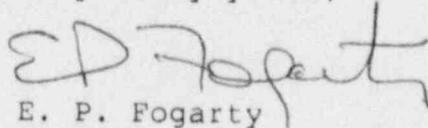
SUBJECT: Licensee Event Report
Peach Bottom Atomic Power Station - Unit 3

This LER concerns operation of the plant in a condition prohibited by Technical Specifications as a result of an improperly constructed ventilation diffuser which blocked the operation of a fire damper.

Reference: Docket No. 50-278
Report Number: 3-88-04
Revision Number: 00
Event Date: June 13, 1988
Report Date: July 13, 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).

Very truly yours,



E. P. Fogarty
Manager
Nuclear Support Division

cc: W. T. Russell, Administrator, Region I, USNRC
T. P. Johnson, USNRC Senior Resident Inspector
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INPO Records Center

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