

LICENSEE EVENT REPORT (LER)

APPROVED OMB NO. 3150-0104
EXPIRES - 8/31/93FACILITY NAME (1)
Peach Bottom Atomic Power Station - Unit 3

DOCKET NUMBER (2)

0 5 0 0 0 2 1 7 8

PAGE (3)

1 OF 0 1 3

TITLE (4)

Cracks on "A" Loop Core Spray Supply Junction Box

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)
0 8	2 6	8 5	8 5	0 1	4	0 0	0 9	2 5	8 5		0 5 0 0 0

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 (101)	0 0 0	20.402(b)		20.406(a)		60.726(a)(2)(iv)		72.716(i)			
		20.406(a)(1)(i)(v)		60.36(a)(1)		60.726(a)(2)(iv)		72.716(ii)			
		20.406(a)(1)(i)(v)		60.36(a)(2)		60.726(a)(2)(v)		X OTHER (Specify in Abstract below and in Test, NRC Form 366-A)			
		20.406(a)(1)(i)(v)		60.726(a)(2)(i)		60.726(a)(2)(iv)(A)					
		20.406(a)(1)(i)(v)		60.726(a)(2)(ii)		60.726(a)(2)(iv)(B)					

LICENSEE CONTACT FOR THIS LER (12)

NAME
W. C. Birely, Senior Engineer, Licensing Section

TELEPHONE NUMBER

AREA CODE

2 1 5 8 4 1 7 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)

YES (If yes, complete EXPECTED SUBMISSION DATE)		NO		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
		X					

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

Abstract: 3-85-14

On August 26, 1985 crack indications were discovered on the 240 degree azimuth core spray supply in-vessel junction box. Reinforcement brackets will be installed to ensure that the structural integrity of the junction box pipe attachment is retained. The junction box at 120 degrees azimuth will also be reinforced in a similar manner even though no cracks were found there.

This report is submitted pursuant to the requirements of IE Bulletin 80-13.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

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EXPIRES 8/31/85

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	- 0 1 4	- 0 0			

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

Description of the Event:

During the in-vessel inservice inspection program on August 26, 1985, a crack indication was discovered on the 240 degree azimuth core spray supply junction box which is located between the vessel wall and shroud. Viewed from the center of the reactor, the indication extends approximately 120 degrees circumferentially along the heat affected zone of the right side junction box weld. On August 28, 1985, a pressurized air test was performed and confirmed the indication was thru-wall. At this time, a second thru-wall indication was discovered on the left side of the junction box extending approximately 15 degrees circumferentially along the heat affected zone.

The EIIS code for the affected system is BM, Low Pressure Core Spray.

Consequences of the Event:

Core spray flow leakage through the cracks would be minimal. Therefore, the impact on this emergency core cooling system would not be significant enough to prevent adequate core spray flow for mitigating the consequences of a loss-of-coolant accident. The core spray system is equipped with an alarm feature that would alert the operator of a pipe break between the vessel wall and shroud. In the unlikely event of a pipe break at the junction box, the other core spray loop and the Low Pressure Coolant Injection system could provide adequate emergency core cooling.

Further analysis by General Electric Company is in progress and the results will be submitted in a subsequent, detailed report in accordance with IE Bulletin 80-13.

Cause of the Event:

The cause of the cracks is believed to be intergranular stress corrosion.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

Corrective Actions:

To ensure that structural integrity of the 240 degree azimuth supply junction box is retained in the event of a pipe weld failure, reinforcement brackets will be installed. The repair consists of welding upper and lower reinforcement brackets to the junction box connecting the supply header pipes across the junction box. A similar repair will be performed on the 120 degree azimuth junction box as well, even though no cracks were found there. A detailed description of the repairs was discussed at a meeting between PECO and the NRC staff on September 17, 1985 and will be included in a subsequent report submitted in accordance with IE Bulletin 80-13.

Previous Similar Occurrences:

Cracks in the Unit 2 "B" loop core spray sparger inside the shroud were reported in LER 2-82-09/1X.

PHILADELPHIA ELECTRIC COMPANY

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P.O. BOX 8699

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(215) 841-4000

September 25, 1985

Docket No. 50-278

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Washington, DC 20555

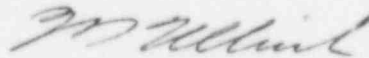
SUBJECT: Licensee Event Report
Peach Bottom Atomic Power Station - Unit 3

This LER deals with crack indications discovered on the 240 degree azimuth ("A" loop) core spray supply junction box.

Reference:	Docket No. 50-278
Report Number:	3-85-14
Revision Number:	00
Event Date:	August 26, 1985
Report Date:	September 25, 1985
Facility:	Peach Bottom Atomic Power Station RD 1, Box 208, Delta, PA 17314

This LER is being submitted in accordance with the requirements of IE Bulletin No. 80-13.

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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