

LICENSEE EVENT REPORT (LER)

APPROVED ONS NO. 3160-0104
EXPIRES - 6/31/85

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2										DOCKET NUMBER (2) 05000277				PAGE (3) 1 OF 3				
TITLE (4) Jet Pump Instrumentation Line Crack																		
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	07	84	84	010	00	07	06	84					05000					
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)															
POWER LEVEL (10) 000			20.402(a)				20.406(a)				60.73(a)(2)(iv)				73.71(a)			
			20.406(a)(1)(ii)				60.36(a)(1)				60.73(a)(2)(v)				73.71(a)			
			20.406(a)(1)(iii)				60.36(a)(2)				60.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Test, NRC Form 364A)			
			20.406(a)(1)(iii)				60.73(a)(2)(ii)				60.73(a)(2)(vii)(A)							
			20.406(a)(1)(iv)				60.73(a)(2)(iii)				60.73(a)(2)(vii)(B)							
			20.406(a)(1)(v)				60.73(a)(2)(iv)				60.73(a)(2)(ix)							
LICENSEE CONTACT FOR THIS LER (12)																		
NAME B. L. Clark, Sr. Engineer, Special Projects										TELEPHONE NUMBER AREA CODE 215 841-5017								
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)		MONTH	DAY	YEAR		
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input type="checkbox"/> NO						

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

Abstract: 2-84-10

On June 7, 1984, with Unit 2 shutdown for a refueling and major modification outage, a through-wall crack was discovered in the "A" loop jet pump instrumentation penetration reducer to safe end weld. Ultrasonic examinations were performed on five welds associated with each jet pump instrumentation penetration. A crack-like indication oriented circumferentially was discovered in the reducer to safe end weld on only the "A" loop jet pump instrumentation penetration.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 0500027784	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	010	010	02	OF	03

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

Description of the Event:

Visual examination of the Peach Bottom Unit 2 jet pump instrumentation penetrations during an extended refueling and major modification outage revealed a through-wall leak in the heat affected zone of the reducer to safe-end weld of the 'A' loop jet pump instrumentation penetration. Ultrasonic examinations, in accordance with I.E. Information Notice 84-41 and NRC Generic Letter 84-11, were performed on the five welds associated with each of two jet pump instrumentation nozzles. Circumferential crack indications were found only in the heat affected zone of the reducer to safe end weld of the 'A' jet pump instrumentation penetration. This weld is designated as JP-A-2.

The indication on the JP-A-2 weld was found on the safe end side of the weld, measured to be approximately 1 inch in length.

Consequences of the Event:

Fracture mechanics analyses are being performed on the 'A' loop penetration to determine if the indications would violate the ASME Code required safety factor of three.

Cause of the Event:

Analysis of the data regarding these indications shows a pattern typical of intergranular stress corrosion cracking.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	010	00	013	2F	03

TEXT (if more space is required, use additional NRC Form 368a) (17)

Corrective Actions:

At this time, appropriate correction action has not been identified since Unit 2 is currently in an extended major modification and refuel outage. A fracture mechanics analysis is being performed in accordance with Generic Letter 84-11 to determine the corrective actions that are required. The analysis will determine whether replacement is required or weld overlay repair is acceptable.

PHILADELPHIA ELECTRIC COMPANY

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July 6, 1984

Docket No. 50-278

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Washington, DC 20555

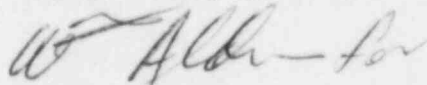
SUBJECT: Licensee Event Report

This LER deals with crack indications in jet pump instrumentation penetration welds.

Reference:	Docket No. 50-277
Report Number:	2-84-10
Revision Number:	00
Event Date:	June 7, 1984
Report Date:	July 6, 1984
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)(i)

Very truly yours,



R. H. Logue
Superintendent
Nuclear Services

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

Mr. A. R. Blough, Site Inspector

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