

LICENSEE EVENT REPORT (LER)

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	SEQUENCE NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)	
06	07	84	84	010	01	07	30	84			050000	
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 2. (Check one or more of the following) (11)									
POWER LEVEL (10)			20.402(b)			20.406(a)			80.73(a)(2)(iv)			73.71(w)
0010			20.406(a)(1)(ii)			80.36(a)(1)			80.73(a)(2)(v)			73.71(x)
			20.406(a)(1)(iii)			80.36(a)(2)			80.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Test, NRC Form 366A)
			20.406(a)(1)(iv)			80.73(a)(2)(ii)			80.73(a)(2)(vii)(A)			
			20.406(a)(1)(v)			80.73(a)(2)(iii)			80.73(a)(2)(viii)(B)			
			20.406(a)(1)(vi)			80.73(a)(2)(iv)			80.73(a)(2)(ix)			

LICENSEE CONTACT FOR THIS LER (12)

NAME

B. L. Clark, Senior Engineer - Special Projects

TELEPHONE NUMBER

AREA CODE

215 841 75017

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
X	A	D PEN	G O B	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 words, 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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1/1

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)

Peach Bottom Atomic
Power Station - Unit

DOCKET NUMBER (2)

0 5 0 0 0 2 7 7 8 4 - 0 1 0 - 0 1 0 2 of 0 3

LER NUMBER (3)

YEAR

SEQUENTIAL
NUMBERDIVISION
NUMBER

PAGE (3)

TEXT (If more space is required, use additional NRC Form 368A (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

APPROVED OMS 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 7 8 4 - 0 1 0 - 0 1 0 3 OF 0 3	LER NUMBER (3)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (if more space is required, use additional NRC Form 306a) (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

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

July 30, 1984

Docket No. 50-277

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

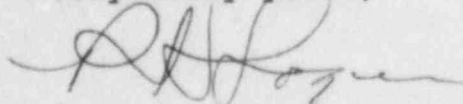
SUBJECT: Licensee Event Report

This revision of a previously submitted LER deals with crack indications in jet pump instrumentation penetration welds. Due to an administrative oversight, the cause, system, component and manufacturer codes were previously not reported. The revised section with this information is indicated by a vertical bar in the margin of Page 1 of 3.

Reference:	Docket No. 50-277
Report Number:	2-84-10
Revision Number:	01
Event Date:	June 7, 1984
Report Date:	July 30, 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
Mr. A. R. Blough, Site Inspector

IE22
1/1