NRC Form 366 (9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Peach Bottom Atomic Power Station - Unit 3	0 5 0 0 0 2 7 8	1 OF 0 3

TITLE (4)
HPCI Inoperable Due to Steam Supply Line Hanger Failures

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)
0 8	0 1	8 4	8 4	- 0 0 9	- 0 0	0 8	3 1	8 4		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
N		20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
1 0 0		20.405(a)(1)(ii)	50.36(c)(2)	X 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
B. L. Clark, Senior Engineer - Special Projects	AREA CODE 2 1 5 8 4 1 - 5 0 1 7

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	B J	H		Y					

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

Abstract: 3-84-09

On August 1, 1984, at 6:50 p.m., with Unit 3 at 100 percent power level, the High Pressure Coolant Injection (HPCI) system was declared inoperable as the result of the identification of a mechanical failure of a second HPCI steam supply line hanger 3-23-DBN-S4. The hanger was identified by Construction personnel working in the area to have a broken weld. Earlier, in May, 1984, bolts were found missing from hanger 3-23-DBN-S3, which is also on the HPCI steam supply line; however, Mechanical Engineering Division's evaluation concluded that this single hanger deficiency was not sufficient to render the HPCI steam supply line as non-seismically qualified. As a result of the first hanger deficiency combined with this second hanger failure, the support of the HPCI steam supply line was considered to be non-seismically qualified. ADS, RCIC, LPCI, and Core Spray systems were verified as operable. Cause of the hanger deficiency is unknown. Hanger 3-23-DBN-S4 was repaired and HPCI was tested for operability and returned to service at 5:55 p.m. on August 2, 1984. Hanger 3-23-DBN-S3 will be repaired as a modification by the Construction Division during the next Refuel Outage on Unit 3.

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

Description of the Event:

On August 1, 1984, at 6:50 p.m., with Unit 3 at 100 percent power level, the High Pressure Coolant Injection (HPCI) system was declared inoperable as the result of the identification of a mechanical failure of a second HPCI steam supply line hanger, 3-23-DBN-S4. A broken weld on this hanger was identified by Construction personnel working in the area. Earlier, in May, 1984, bolts were found missing from hanger 3-23-DBN-S3, which is also on the HPCI steam supply line, during an inspection of ongoing plant modification work (unrelated to this hanger). When hanger 3-23-DBN-S3 was identified, no other adjacent supports were broken and Mechanical Engineering Division's evaluation concluded that this support was not an immediate safety problem and that the steam supply line was still seismically qualified.

Consequences of the Event:

As a result of the first hanger deficiency combined with this second hanger failure, the support of the HPCI steam supply line was considered to be non-seismically qualified and HPCI was removed from service to preclude any dynamic loading of the steam supply line as the result of system operation and also to repair hanger 3-23-DBN-S4. The Automatic Depressurization System, Reactor Core Isolation Cooling, Low Pressure Coolant Injection and Core Spray systems were tested for operability in accordance with Technical Specifications and were available while HPCI was inoperable.

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

Cause of the Event:

Hanger 3-23-DBN-S3 was found to have missing bolts, while hanger 3-23-DBN-S4 was found to have a broken weld. Exact cause of the broken supports is unknown.

Corrective Actions:

Hanger 3-23-DBN-S4 was repaired and all pipe supports on the HPCI steam supply line from the MO 3-23-16 valve to the HPCI turbine stop valve were visually examined by the maintenance ISI Group and found to be operable. HPCI was tested for operability and returned to service at 5:55 p.m. on August 2, 1984. Hanger 3-23-DBN-S3 will be repaired as a modification by the Construction Division during the next Refuel Outage on Unit 3. Meanwhile, Mechanical Engineering Division has been requested to evaluate HPCI piping support with respect to the dynamic loading which occurs during system operation to determine possible cause of the piping support failures.

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August 31, 1984

Docket No. 50-278

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

SUBJECT: Licensee Event Report

This LER deals with the declaration of HPCI as inoperable as the result of the identification of a mechanical failure of hangers 3-23-DBN-S3 and 3-23-DBN-S4 on the HPCI steam supply line.

Reference:	Docket No. 50-278
Report Number:	3-84-09
Revision Number:	00
Event Date:	August 1, 1984
Report Date:	August 31, 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)(v).

Very truly yours,

W T Ullrich

W. T. Ullrich
Superintendent
Nuclear Generation Division

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

Mr. A. R. Blough, Site Inspector

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