

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

EDWIN I. HATCH, UNIT 1

DOCKET NUMBER (2)

0 5 0 0 0 3 2 1 1 OF 0 2

PAGE (3)

TITLE (4)

## PLANT SHUTDOWN DUE TO FAILURE OF PRIMARY CONTAINMENT ISOLATION VALVE

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	1	2	3	8	5	8	5	0	0	5	0	5	0	0	0	0
0	1	2	3	8	5	8	5	0	0	5	0	5	0	0	0	0

OPERATING MODE (9) 1

POWER LEVEL (10) 0.917

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 388A)
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)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME

T. L. Elton, Acting Superintendent of Regulatory Compliance

TELEPHONE NUMBER

AREA CODE

9 1 2 3 1 6 1 7 1 7 8 1 5 1 1

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	B	J	V	1	A	5	8	5	Y
X	B	J	R	P	D	C	5	9	5

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)

On 01/23/85 at approximately 2200 CST with the reactor mode switch in the run position and reactor power at 90%, plant personnel were in the process of testing the High Pressure Coolant Injection system (HPCI) when the exhaust diaphragm ruptured. The HPCI turbine tripped and the system isolated.

An investigation determined that the diaphragm rupture was caused by water carrying over into the exhaust line from the exhaust line drain pot due to a blocked drain line. The blocked line was cleared and the ruptured diaphragm was replaced.

During the investigation, plant personnel determined that E41-F049 (HPCI exhaust line check valve) had a defective seal. After replacing the seal, plant personnel performed a local leak rate test by pressurizing between E41-F049 and E41-F021 (HPCI exhaust line stop check valve). On 01/28/85, at approximately 0845 CST, the test volume would not pressurize; thus, plant personnel assumed that the requirements of Tech. Specs. section 4.7.A.2.g could not be met. On 01/28/85, at approximately 0854 CST, the plant was shutdown per the requirements of Tech. Specs. section 3.7.A.8.

E41-F021 was repaired, E41-F049 and E41-F021 passed their leak rate test and the reactor was started up on 01/29/85.

HPCI was satisfactorily tested and declared operable on 01/30/85.

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PDR ADOCK 05000321  
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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)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
EDWIN I. HATCH, UNIT I	0 5 0 0 0 3 2 1 8 5	—	0	0	5	—
		0	0	0	2	OF 2

TEXT (If more space is required, use additional NRC Form 365A's) (17)

This 30 day LER is required by 10CFR50.73(a)(2)(iv) since an ESF actuation occurred and by 10CFR50.73(a)(2)(i) because the plant was required to shutdown in accordance with Tech. Specs. section 3.7.A.8.

On 01/23/85 at approximately 2200 CST with the reactor mode switch in the run position and reactor power at 90%, plant personnel were in the process of testing the High Pressure Coolant Injection system (HPCI), after maintenance had been performed. During this test, the exhaust line diaphragm ruptured, the HPCI turbine tripped, and the system isolated.

An LCO was already in effect since HPCI had been declared inoperable for maintenance and the provisions of Tech. Specs. section 3.5.D.2 had been met.

Plant personnel initiated an investigation to determine the cause of the diaphragm rupture. E41-F053 (exhaust line drain pot drain valve) was disassembled and found to contain a small piece of metal which was blocking the drain line. The drain line strainer was disassembled and found to contain a small amount of debris. The piece of metal which was blocking the drain line was a corner from a HPCI turbine reversing chamber lock tab which had been missing during the previous outage. It was determined that the blocked drain line had allowed water to back up in the drain pot to the point where it carried over into the exhaust line, causing the diaphragm to rupture.

The diaphragm was replaced, the lines were cleared, and the valve and strainer were reassembled.

During the investigation, plant personnel determined that E41-F049 (HPCI exhaust line check valve) had a defective seal. After replacing the seal, plant personnel performed a local leak rate test by pressurizing between E41-F049 and E41-F021 (HPCI exhaust line stop check valve). On 01/28/85, at approximately 0845 CST, the test volume would not pressurize; thus, plant personnel assumed that the requirements of Tech. Specs. section 4.7.A.2.g could not be met. On 01/28/85, at approximately 0854 CST, the plant was shutdown per the requirements of Tech. Specs. section 3.7.A.8.

Maintenance personnel disassembled E41-F021 and found the valve disc to be out of adjustment and the adjusting screw nuts loose. The valve seat had two nicks in it. The valve was repaired and reassembled.

E41-F049 and E41-F021 were satisfactorily leak rate tested on 01/29/85 and the unit was started up.

HPCI was tested satisfactorily and declared operable on 01/30/85.

No actual or potential safety consequences resulted from these events nor was the health and safety of the public affected.

Georgia Power Company  
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Baxley, Georgia 31513  
Telephone 912 367-7781  
912 537-9444



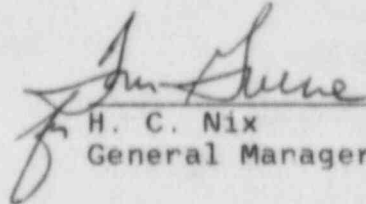
Edwin I. Hatch Nuclear Plant

February 19, 1985  
GM-85-154

PLANT E. I. HATCH  
Licensee Event Report  
Docket No. 50-321

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Attached is Licensee Event Report No. 50-321/1985-005. This report is required by 10CFR 50.73(a)(2)(i) and 10CFR 50.73(a)(2)(iv).

  
H. C. Nix  
General Manager

JCL  
HCN/TLE/vlz

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