

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK:

							(1)
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2	3	9					14	15											25	26							57	CAT	58
B		LICENSEE CODE						LICENSE NUMBER												LICENSE TYPE									

CON'T

REPORT SOURCE: 01 L 6 0 5 0 0 0 3 6 6 7 0 4 2 7 8 3 8 0 8 0 4 5 3 9

60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | On 04/27/83, while performing the "INSERVICE INSPECTION VISUAL EXAMINA-

0 3 | TION ON SURVEILLANCE PROCEDURE FOR CLASS 1, 2, AND 3 PIPE SUPPORTS"

0 4 | (HNP-907), inspecting personnel discovered numerous damaged pipe

0 5 | supports on the HPCI pump discharge line. Damage varied from broken

0 6 | support plate welds to anchor bolts pulling out of concrete. This event

0 7 | is reportable per Tech. Specs. section 6.9.1.8.i. The health and

0 8 | safety of the public were not affected by this non-repetitive event.

SYSTEM CODE S F		CAUSE CODE E	CAUSE SUBCODE X	COMPONENT CODE S U P P O R T				COMP. SUBCODE B	VALVE SUBCODE Z
9 10		11	12	13 14 15 16 17				18	19
EVENT YEAR 8 3		SEQUENTIAL REPORT NO. 0 1 5		OCCURRENCE CODE 0 1		REPORT TYPE X		REVISION NO. 1	
21 22		23 24 25 26		27 28 29		30 31		32	
ACTION TAKEN F	FUTURE ACTION Z	EFFECT ON PLANT Z	SHUTDOWN METHOD Z	HOURS 0 0 0 0		ATTACHMENT SUBMITTED Y		PRIME COMP. SUPPLIER A	
33	34	35	36	37 38 39 40		41		42	
NPRD-4 FORM SUB. N		COMPONENT MANUFACTURER X 9 9 9							
43		44 45 46 47							

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The AE has determined that this event was caused by water hammer which
1 1 occurred when HPCI discharge check valve slammed closed following a HPCI
1 2 trip. All HPCI discharge pipe supports have been modified per a Design
1 3 Change Request as recommended by the A.E. All affected supports were sat-
1 4 isfactorily examined prior to reactor startup.(refer to attached narrative)

FACILITY STATUS (1) 5 (H) (28) % POWER (0) (0) (0) (29) OTHER STATUS (30) NA
 METHOD OF DISCOVERY (B) (31) Inservice Inspection
 DISCOVERY DESCRIPTION (32)
 ACTIVITY CONTENT RELEASED OF RELEASE (1) 6 (Z) (33) (Z) (34) AMOUNT OF ACTIVITY (35) NA
 LOCATION OF RELEASE (36)
 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39) (0) (0) (0) (37) (Z) (38) NA
 PERSONNEL INJURIES NUMBER DESCRIPTION (41) (0) (0) (0) (40) NA
 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (43) (Z) (42) NA
 PUBLICITY ISSUED DESCRIPTION (45) (N) (44) NA
 PDR 8308180414 830804
 PDR ADOCK 05000366
 S PDR
 NRC USE ONLY

NAME OF PREPARER

S. B. Tipps

PHONE: (912) 367-7851

NARRATIVE REPORT
FOR LER 50-366/1983-015, Rev. 1
UPDATE REPORT - PREVIOUS REPORT DATE 5/9/83

LICENSEE : GEORGIA POWER COMPANY
FACILITY NAME : EDWIN I. HATCH
DOCKET NUMBER : 50-366

Tech. Specs. section(s) which requires report:

This LER is required by Unit 2 Tech. Specs section 6.9.1.8.i.

Plant conditions at the time of the event(s):

The plant was in cold shutdown for refueling when this event occurred.

Detailed description of the event(s):

On 04/27/83 while performing the "INSERVICE INSPECTION VISUAL EXAMINATION SURVEILLANCE PROCEDURE FOR CLASS 1, 2, AND 3 PIPE SUPPORTS" procedure (HNP-907), inspecting personnel discovered that numerous pipe supports on the high pressure coolant injection (HPCI) pump discharge line were damaged. The damage varied from broken support plate welds to anchor bolts partially pulled out of structural concrete.

Consequences of the event(s):

This event had no effect on Unit 2 operations. The health and safety of the public were not affected by this event.

Status of redundant or backup subsystems and/or systems:

There is no redundant or backup system for these supports.

Justification for continued operation:

No justification is needed for continued operation since Unit 2 is in cold shutdown for refueling.

If repetitive, number of previous LER:

This event is non-repetitive.

Impact to other systems and/or Unit:

This event had no impact on other Unit 2 systems. All Unit 1 HPCI pump discharge supports were visually inspected with satisfactory results.

Cause(s) of the event(s):

The Architect Engineer has determined that the HPCI discharge piping was subjected to detrimental forces (water hammer) which were caused by the HPCI pump discharge check valve (2E41-F009) slamming closed when a HPCI trip occurred. These detrimental forces reacted against HPCI pump discharge pipe supports and damaged them. The original piping design did not include a "water hammer" analysis because it was not a recognized requirement at that time.

Immediate Corrective Action:

The A.E. performed an analysis of this event to determine corrective action.

Supplemental Corrective Action:

A design change was issued as a result of the A.E. analysis and the damaged HPCI pump discharge line pipe supports have been modified per the design change to increase their load carrying capabilities. The new design loads are based on the results of a "water hammer" analysis which predicts high forces at locations where support damage was experienced. The new design loads are in excess of the loads required to cause this support damage. All supports were satisfactorily examined prior to Unit 2 startup.

Scheduled (future) corrective action:

Per the proposal of the A.E., HPCI discharge piping supports will be walked down and examined after each HPCI system injection into the reactor vessel .

Action to prevent recurrence (if different from corrective actions):

Refer to corrective action.

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

USNRC REGION II
ATLANTA, GEORGIA



Georgia Power

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Edwin I. Nix Nuclear Plant

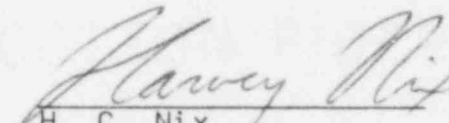
August 4, 1983
GM-83-722

PLANT E. I. HATCH
Licensee Event Report
Docket No. 50-366

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

ATTENTION: Mr. James P. O'Reilly

Attached is Licensee Event Report No. 50-366/1983-015, Rev. 1. This report is required by Hatch Unit 2 Technical Specifications Section 6.9.1.8.i.


H. C. Nix
General Manager

1CE
HCN/SBT/djs

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