

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) EDWIN I. HATCH, UNIT II	DOCKET NUMBER (2) 0 5 0 0 0 3 6 6	PAGE (3) 1 OF 0 3
---	--	------------------------

TITLE (4)
Standby Diesel Service Water Pump Top Column Flange

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)														
1	0	0	2	8	4	8	4	—	0	1	8	—	0	1	0	2	0	4	8	5	0	5	0	0	0

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)									
POWER LEVEL (10) 0 6 5	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)

NAME T. L. Elton, Acting Superintendent of Regulatory Compliance	TELEPHONE NUMBER 9 1 2 3 6 7 4 1 7 8 5 1
AREA CODE	

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
A	L	B	P	J	1	0	1	5	N

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

On 10-2-84 the Johnston Pump Company informed Southern Company Services that Standby Service Water Pump 2P41-C002 might not withstand a design basis earthquake because of an incorrect assumption in calculating the stress analysis prior to installing a pump column support on 05-31-82. An LCO was initiated on 10-2-84, and diesel generator R43-S001B was removed from service. Following an engineering review by the Bechtel Power Corporation, the standby service water pump's restraint split ring was removed, thus returning the pump to its original design configuration. The 60 day LCO was terminated and diesel generator R43-S001B returned to service on 10-22-84. This event is reportable per 10CFR50.73 (a)(2)(VI). After further engineering evaluation a design change request was initiated.

The standby service water pump's top column flange was repaired with a new 1.00 inch thick top column flange. Additionally the pump's top column restraint was reinstalled, and the pump's lower restraint was removed.

8502130564 850204
PDR ADDCK 05000366
S PDR

1622
1/

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) EDWIN I. HATCH, UNIT 2	DOCKET NUMBER (2) 0 5 0 0 0 3 6 6 8 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
			- 0 1 8	- 0 1 0	2	OF	3

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

This 30 day LER is required by 10CFR 50.73 (a)(2)(VI) because this event shows an error in design analysis.

On 10-02-84, with Unit 1 in cold shutdown for refueling and Unit 2 operating at approximately 1583 Mwt (approximately 65% power) plant personnel were notified by Southern Company Services that it had received information from the Johnston Pump Company that Standby Service Water Pump 2P41-C002B (which supplies cooling water to diesel generator R43-S001B) might not withstand a design basis earthquake because of an error in the previous calculation of the pump's seismic analysis.

After receiving a seismic analysis which was furnished by the Johnston Pump Company on approximately 04-21-80, the Bechtel Power Corporation recommended the installation of a pump column restraint on Standby Service Water Pump 2P41-C002 at the 74 foot elevation, (in addition to the existing pump base support) which would comply with NRC IE Bulletin 79-02 (refer to Design Change Request (DCR) 79-492). The Standby Service Water Pump Column restraint installation was completed on 05-31-82.

To improve pump reliability, engineering personnel proposed the replacement of carbon steel pump bowls on the existing plant service water pumps and the existing residual heat removal pumps (refer to DCR 84-66) with stainless steel bowls. The Johnston Pump Company was requested to perform a seismic analysis of the proposed replacement of the carbon steel pump bowls. The C. K. McDonald engineering company completed the seismic analysis for the Johnston Pump Company on 03-30-83.

On approximately 08-22-84 Southern Company Services requested the Johnston Pump Company to update and review the bill of materials for the stainless steel bowls and hardware. During their update of the bill of materials, the Johnston Pump Company reviewed their previous design data and discovered that an incorrect assumption had been made in the seismic analysis furnished on 04-21-80 which permitted the installation of the column support on Standby Service Water Pump 2P41-C002. The Johnston Pump Company informed Southern Services Company engineer on 10-02-84 that the installation of the column support on the Standby Service Water Pump 2P41-C002 requires the pump's top column flange to be 1:00 inches thick. However, existing pump's top column flange is only 0.750 inches thick with an O-ring groove which causes the flange to have an effective thickness of only 0.637 inches. This event is contrary to 10CFR 50.73 (a)(2)(VI) because it shows that the Standby Service Water Pump did not meet design criteria.

Diesel generator R43-S001B (which is the Standby Diesel Generator) was declared inoperable and a 60 day LCO was initiated on 10-02-84 at approximately 1725 CDT. Unit 1 service water cooling was supplied to diesel generator 2R43-S001B and plant operation (Unit 2) was continued per Tech. Specs. section 3.7.1.2, ACTION a-4.

On 10-22-84, after an engineering review by the Bechtel Power Corporation, the split ring collar portion of the Standby Service Water Pump (2P42-C002) restraint was removed (refer to temporary DCR 84-280). Removal of the pump restraint's split ring collar deactivated the support and returned the Standby Service Water Pump to its original seismic qualification. Diesel generator 2R43-S001B was thereby returned to service, and the LCO was terminated at 1325 CDT on 10-22-84.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) EDWIN I. HATCH, UNIT 2	DOCKET NUMBER (2) 0 5 0 0 0 3 6 6 8 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	0 1 8	0 1 0	3	OF	3

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

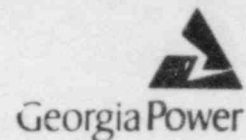
After further engineering evaluation, a design change request (DCR 84-285) was approved on 12/6/84 to replace the standby service water pump's (2P41-C002) existing top column flange with a new 1.0 inch thick top column flange, re-install the pump top column's restraint (which was removed on 11/22/84), and remove the pump's lower restraint.

Implementation of DCR 84-285, which was completed on 01/19/85, ensures that standby service water pump 2P41-C002 will maintain its seismic category 1 qualification and withstand a design basis earthquake.

Subsequent to DCR 84-285 completion, standby service water pump 2P41-C002 was satisfactorily functionally tested per SECTION H of the "DIESEL GENERATOR MANUAL START" procedure (HNP-2-3801) on 01/20/85.

This non-repetitive event had no actual or potential safety consequences or implications. The health and safety of the public were not affected by this event.

Georgia Power Company
Post Office Box 439
Baxley, Georgia 31513
Telephone 912 367-7781
912 537-9444



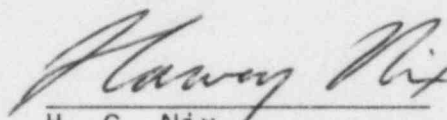
Edwin I. Hatch Nuclear Plant

February 4, 1985
GM-85-108

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

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

Attached is Licensee Event Report No. 50-366/1984-18, Rev. 1. This report is required by 10 CFR 50.73(a)(2)(VI).


H. C. Nix
General Manager

HCN/TLE/vlz

xc: R. J. Kelly
R. E. Conway
J. T. Beckham, Jr.
P. D. Rice
K. M. Gillespie
S. B. Tipps
R. D. Baker
Control Room
Document Control

IE22
/1