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RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 93-015-00:on 931012,pressurizer pressure transmitters found out of calibr.Caused by personnel error.Transmitters recalibrated & personnel trained in use of dead weight testers.W/931110 ltr.

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CP&L

Carolina Power & Light Company
Robinson Nuclear Plant
PO Box 790
Hartsville SC 29550

NOV 1 0 1993

Robinson File No.: 13510C
Serial: RNP/93-2777
(10CFR50.73)

United States Nuclear Regulatory Commission
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H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
LICENSEE EVENT REPORT NO. 93-015-00

Gentlemen:

The enclosed Licensee Event Report (LER), is submitted in accordance with 10 CFR 50.73 and NUREG 1022, Supplements No. 1 and 2.

Very truly yours,

Marc P. Pearson
General Manager

DHB:lst
Enclosure
c: Mr. S. D. Ebneter
Mr. W. T. Orders
INPO

IE22

Enclosure to Serial: RNP/93-2777

NRC FORM 366 (5-92) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
H. B. ROBINSON, UNIT NO. 2	05000 261	1 OF 4

TITLE (4) **PRESSURIZER PRESSURE TRANSMITTERS OUT OF CALIBRATION**

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 NAME	DOCKET NUMBER
10	12	93	93	-- 015 --	00	11	10	93		05000
									FACILITY NAME	DOCKET NUMBER 05000

OPERATING MODE (9)	N
POWER LEVEL (10)	0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR§: (Check one or more) (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)(vii)		OTHER
	20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		(Specify in Abstract below and in Text, NRC Form 366A)
	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 (Include Area Code)
D. H. Baur, Regulatory Affairs	(803) 383-1296

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

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 15 single-spaced typewritten lines) (16)

On October 12, 1993, with the H. B. Robinson Unit No. 2[1] in cold shutdown for Refueling Outage 15, it was determined that the three (3) Pressurizer Pressure Transmitters providing reactor protection functions were out of calibration and in violation of Technical Specifications due to the unavailability of appropriate as-found data. This determination was reached following the evaluation of the data resulting from the refueling calibration performed on September 16, 1993, and September 17, 1993. On October 13, 1993, and again on October 15, 1993, these transmitters were recalibrated to ensure that they were correctly calibrated. The October 13, 1993, calibration found the transmitters to be out of calibration, and the data collected during this calibration could not be used to establish the original as-found data. The cause of the event is attributed to personnel error. Corrective actions include appropriate calibration of the transmitters and additional training in the use of Dead Weight Testers for the work group that performed the calibration.

[1]H. B. Robinson Unit 2 is a Pressurized Water Reactor in commercial operation since March, 1971.

NRC FORM 366A (5-92) U.S. NUCLEAR REGULATORY COMMISSION

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LICENSEE EVENT REPORT (LER)
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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
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H. B. ROBINSON, UNIT NO. 2	05000261	93	-- 015 --	00	2 OF 4

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

I. DESCRIPTION OF EVENT

On October 12, 1993, with the H. B. Robinson Unit No. 2 in cold shutdown for Refueling Outage 15, it was determined that the three (3) Pressurizer Pressure Transmitters providing reactor protection functions were out of calibration and in violation of Technical Specifications due to the unavailability of appropriate as-found data. This determination was reached following the evaluation of the data resulting from the refueling calibration performed by Carolina Power and Light Company's (CP&L) Nuclear Craft Resource (NCR) personnel on these instruments. The original calibration was performed on September 16, 1993, and September 17, 1993. It was determined that the as-found/as-left data obtained during the refueling calibration for these transmitters was inappropriate due to the wrong weights being used on the Dead Weight Tester and leaks in the hydraulic portions of the test system. On October 13, 1993, and again on October 15, 1993, these transmitters were recalibrated to ensure that they were correctly calibrated and to attempt to establish accurate as-found data for the purpose of determining Technical Specification compliance. The October 13, 1993, calibration found the transmitters to be out of calibration due to the previous calibrations and that the data collected during this calibration could not be used to establish the original as-found data. The October 15, 1993, calibration was performed to validate the October 13, 1993, data.

II. CAUSE OF EVENT

The cause of the event is attributed to personnel error in that the individuals performing the refueling calibration were not adequately trained and experienced on the use of a Dead Weight Tester.

III. ANALYSIS OF EVENT

This event is considered to be reportable pursuant to 10CFR50.73(a)(2)(i)(b), "any operation or condition prohibited by the plant's Technical Specifications", in that the as-found status of the pressurizer pressure transmitters cannot be accurately determined.

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LICENSEE EVENT REPORT (LER)
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III. ANALYSIS OF EVENT (continued)

It is probable that these transmitters were not out-of tolerance during the last operating cycle. This belief is based on these transmitters having been in service for only 2 refueling intervals and the fact that the calibration performed following the first refueling interval found the transmitters to have only negligible differences from the original installation calibration. This indicates that the transmitters are very accurate and reliable. Additionally, it is very unlikely, based on previous data, that 3 transmitters would be out-of-tolerance in the same direction at the same time without showing some mechanism of failure.

However, because it cannot be proven that the transmitters were not out-of-tolerance, it must be assumed that the as-found data from the September calibration is correct and that these transmitters would have been out-of-tolerance high. This would cause the high pressure function to occur early, which would be conservative, and the low pressure function to occur late, out-of-tolerance. The Technical Specification Basis for Section 3.5 states that the Engineered Safety Features would be actuated by low pressurizer pressure for a Loss-of-Coolant accident. It also states that high containment pressure acts as a backup to low pressurizer pressure for the actuation of Engineered Safety Features.

IV. CORRECTIVE ACTIONS

The immediate corrective actions were to:

1) calibrate the three (3) pressure transmitters to ensure they were correctly calibrated,

2) discontinue any work scheduled for the NCR personnel using a Dead Weight Tester,

3) review work completed by the NCR personnel using a Dead Weight Tester to ensure other errors did not exist, and

4) discuss the event with NCR Instrumentation and Control (I&C) Crews.

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

IV. CORRECTIVE ACTIONS (Continued)

Corrective actions that will be taken to prevent recurrence will consist of:

1) providing retraining for NCR I&C personnel on the use of a dead weight tester, and

2) revising NCR I&C personnel qualification cards to include a line item for dead weight testers.

These corrective actions will be complete by February 28, 1994.

Additionally, if there is a mid-cycle outage of sufficient duration, the reactor protection pressurizer pressure transmitters will receive a calibration check to ensure that there is no excessive drift.

V. ADDITIONAL INFORMATION

1. Failed Component Identification

None

2. Previous Similar Events

None