

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) H. B. Robinson Plant, Unit No. 2	DOCKET NUMBER (2) 0 5 0 0 0 2 6 1 1	PAGE (3) 1 OF 0 3
---	--	----------------------

TITLE (4)  
Seismic Restraints

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	15	8	5	8	5	0	2	0	5	0

OPERATING MODE (9)  POWER LEVEL (10) 0 0 0	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)			50.38(e)(1)			50.73(a)(2)(v)			73.71(c)
	20.405(a)(1)(ii)			50.38(e)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.405(a)(1)(iii)			X			50.73(a)(2)(i)			
	20.405(a)(1)(iv)						50.73(a)(2)(viii)(A)			
20.405(a)(1)(v)						50.73(a)(2)(viii)(B)				
						50.73(a)(2)(iii)			50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)																	
NAME Carson L. Wright							TELEPHONE NUMBER										
							AREA CODE										
							8	0	3	3	8	3	-	4	5	2	4

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	

SUPPLEMENTAL REPORT EXPECTED (14)							EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO										

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

At 2045 hours, on January 15, 1985, a review of IEB-79-02/14 seismic restraint work identified a number of restraints that rendered Technical Specifications required systems inoperable. The Plant was placed in hot shutdown at 0645 hours on January 16, 1985, and in cold shutdown at 0645 hours on January 17, 1985, to modify these restraints.

Corrective action was to shut down the Plant and modify the restraints to meet the IEB-79-02 criteria for continued operation.

8502220273 850214  
PDR ADOCK 05000261  
S PDR

IE22  
1/1

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  H. B. Robinson Plant, Unit No. 2	DOCKET NUMBER (2)  0 5 0 0 0 2 6 1 8 5 - 0 0 6 - 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					0	2	OF 0 3

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

Event

At 2045 hours, on January 15, 1985, a review of IEB 79-02/14 seismic restraint work identified a number of restraints on systems associated with the Technical Specifications Limiting Condition for Operations that did not meet the interim criteria for operability as defined in IEB-79-02, Revision 1, Supplement 1. The piping associated with these restraints was declared inoperable.

The Plant was placed in an 8-hour Limiting Condition for Operation. At 0430 hours, on January 16, 1985, the Plant was placed in a hot shutdown condition. At 0645 hours, on January 17, 1985, the Plant was in cold shutdown for modification to the restraints.

On January 15, 1985, during a NRC inspection of IE Bulletin 79-02 and 79-14, CP&L recognized that the IE Bulletin 79-02, Revision 1, Supplement 1, criteria on anchor bolts for interim continued operation was not included in the 79-02/14 closeout program.

The IEB-79-02, Revision 1, Supplement 1, allowed continued operation until modifications could be scheduled, if it could be shown that the anchor bolts had a safety factor of equal to or greater than 2. A safety factor of 1 was established at Robinson as the IEB-79-02 interim criteria. The IEB-79-02, Revision 1, Supplement 1, was omitted from the Bulletin closeout program through an oversight.

Subsequent analysis of the 132 seismic restraints for which modifications were not completed under the interim criteria condition concluded that 95 of the 132 restraints did not meet the IE Bulletin 79-02, Revision 1, Supplement 1, interim criteria for continued operation. Additionally, it was determined that the engineering judgements used to identify those restraints meeting the original interim criteria were performed using limited analytical information and, in most cases, were non-conservative. Specifically, when the as-built restraint was completely analyzed, it was determined that 90 restraints did not meet the original criteria. One additional restraint previously identified as not requiring modification was reevaluated as requiring modification, bringing the total number of outstanding restraints to be modified to 133.

Cause

The IEB-79-02, Revision 1, Supplement 1, criteria was not included in the Bulletin closeout program. A copy of IEB-79-02, Revision 1, Supplement 1, was located in the Plant files but was inadvertently omitted from the Bulletin closeout program. As a result, the criteria established was based on ultimate capacity and strengths of materials rather than the IEB-79-02, Revision 1, Supplement 1, required safety factors. Engineering judgements used to identify restraints meeting the interim criteria were originally done using only limited analytical information.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  H. B. Robinson Plant, Unit No. 2	DOCKET NUMBER (2)  0   5   0   0   0   2   6   1	LER NUMBER (6)			PAGE (3)		
		YEAR 8   5	SEQUENTIAL NUMBER 0   0   6	REVISION NUMBER 0   0			
					0   3	OF	0   3

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

Corrective Action

1. The Plant was shut down. The entire closeout program was reviewed to ensure the technical adequacy of other analytical work performed. Additional analyses were performed on the 132 unmodified restraints.
2. The program was revised to include the correct interim criteria defined in IEB-79-02, Revision 1, Supplement 1.
3. Ninety-six modifications were made to those restraints not meeting the IEB-79-02, Revision 1, Supplement 1, interim criteria. At this time, 39 restraints meet the interim criteria of IEB-79-02 and 79-14 and will require future modifications.

# CP&L

Carolina Power & Light Company

ROBINSON NUCLEAR PROJECT DEPARTMENT  
POST OFFICE BOX 790  
HARTSVILLE, SOUTH CAROLINA 29550  
FEB 14 1985

Robinson File No: 13510C

Serial: RNP/85-360

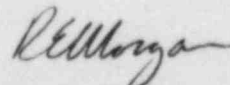
United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261  
LICENSE NO. DPR-23  
LICENSEE EVENT REPORT 85-006

Dear Sir:

In accordance with 10CFR50.73, Licensee Event Report, the enclosed Licensee Event Report is submitted. This report fulfills the requirements for a written report within (30) days of a reportable event and is in accordance with the format set forth in NUREG-1022, September, 1983.

Very truly yours,



R. E. Morgan  
General Manager  
H. B. Robinson S. E. Plant

CLW/tk

Enclosure

cc: INPO  
H. E. P. Krug  
J. N. Grace

IE22  
11