

## LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	S	C	H	B	R	2	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4		5		
7	8	LICENSEE CODE						14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	57	CAT	58

**CON'T**

7	0	1	8	REPORT SOURCE	60	X	61	6	0	5	0	0	0	2	6	1	68	7	69	1	0	2	9	7	9	74	8	75	1	1	0	7	7	9	80	9												
					DOCKET NUMBER																												EVENT DATE								REPORT DATE							

### EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On October 29, 1979, review of computer reanalyses by the Plant Architect Engineer in accordance with the requirements of IE Bulletin 79-14, indicated that pipe stresses at locations within the RHR system could exceed maximum allowable values under DBE conditions as a result of 4 restraint deviations identified October 26, 1979. Based on results of the review, operability of the pipes could not be assured under DBE conditions. This constitutes a reportable occurrence per Technical Specifications paragraph 6.9.2.a.2.

SYSTEM CODE C F 11		CAUSE CODE B 12		CAUSE SUBCODE C 13		COMPONENT CODE S U P P O R T 14		COMP. SUBCODE B 15		VALVE SUBCODE Z 16	
LER/RO REPORT NUMBER 7 8		EVENT YEAR 7 9 21 22		SEQUENTIAL REPORT NO. 0 3 9 24 26		OCCURRENCE CODE 0 1 28 29		REPORT TYPE T 30		REVISION NO. 0 32	
ACTION TAKEN F 18		FUTURE ACTION Z 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22		ATTACHMENT SUBMITTED Y 23	
NPRD-4 FORM SUB. N 24		PRIME COMP. SUPPLIER A 25		COMPONENT MANUFACTURER E 0 6 5 26							

### CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The 4 restraints in question were identified as overstressed on October 26, 1979.

1 1 Concurrent efforts were immediately initiated to effect modifications to the

1 2 restraints while piping analyses were being made to verify operability. The

1 3 piping system with modified restraints was reanalyzed with satisfactory results.

1 4

1 5		E (28)		0 6 2 (29)		NA		(30)		METHOD OF DISCOVERY		D (31)		DISCOVERY DESCRIPTION (32)		Notification From A/E	
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ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)  
1 6 Z (33) Z (34) NA  
7 8 9 10 11 44

LOCATION OF RELEASE (36)  
NA  
45 80

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	(37) Z (38) NA				

PERSONNEL INJURIES .		DESCRIPTION	
NUMBER			
1	8	0	0
0	0	0	40
Z	NA		

7		8		9		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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7 8 9 10  
PUBRICITY  
ISSUED DESCRIPTION NA 7911140 343 NRC USE ONLY

R. B. Starkey, Jr.

(803) 383-4524

SERIAL: RSEP/79-1212  
November 9, 1979

SUPPLEMENTAL INFORMATION  
FOR  
LICENSEE EVENT REPORT 79-039

Cause Description and Analysis:

On October 26, 1979, results of seismic support re-analysis performed in followup to activities related to NRC IE Bulletin 79-14, revealed restraint deviations in four (4) supports associated with the RHR System affecting both loops. Concurrent efforts were immediately initiated to effect modifications to the restraints and perform piping stress analyses to verify system operability. On October 29, 1979, results of the piping stress analyses indicated that, assuming all four (4) supports had failed, pipe stresses at locations within the system could exceed maximum allowable under Design Basis Earthquake (DBE) conditions. Under DBE conditions, therefore, system operability could not be assured. System operability is required by Technical Specification 3.3.1.1.g and is therefore reportable per Technical Specification Paragraph 6.9.2.a.2. Reanalysis of the piping with the modified restraints in place resulted in acceptable stress values in the piping and restraints.

The restraint deviations were apparently the result of problems that occurred during the construction phase of HBR No. 2 and not as a result of restraint designs. The restraint configurations, as installed, differed from those specified in the original design. This fact resulted in pipe stresses at these specific restraint locations, assuming no support from these restraints under DBE conditions, that would be above allowable values. Thus, operability of the piping could not be assured under DBE conditions.

Corrective Action:

The restraints in question were modified while the piping reanalysis was being conducted. The modifications consisted of additional stiffeners, braces and support members to ensure no overstressed restraints under DBE conditions.

Corrective Action To Prevent Recurrence:

Further corrective action with respect to the identified restraint variations is not deemed necessary. This determination is based on the fact that the condition of the restraints, as installed, was apparently due to an installation problem during original construction, and the restraints as modified have been verified to be acceptable. As further follow-up action to this event, the company will inspect as soon as possible the RHR lines inside the containment up to the point at which the lines penetrate the missile barrier. The lines inside the missile barrier will

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SERIAL: RSEP/79-1212

November 9, 1979

be inspected at the next scheduled cold shutdown. This action is deemed appropriate since the inspection of all normally accessible portions of the RHR system (portions outside the containment) which constitutes approximately 70% of the system has been completed and only the four deviations have been found. Inspection of the portion up to the missile barrier will bring the total percentage inspected to approximately 90%.