REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8703040190 DOC. DATE: 87/02/25 NOTARIZED: NO DOCKET #
FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power & Light C 05000261
AUTH. NAME AUTHOR AFFILIATION
MORGAN, R. E. Carolina Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: RO: on 870204, acoustic monitor for pressurizer safety valve V-551C declared inoperable. Cause undetermined. Preliminary investigation indicates problem in accelerometer or preamplifier. Monitor will be returned to svc in May 1987.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3
TITLE: OR Submittal: General Distribution

NOTES:

	RECIPIENT ID CODE/NAME		COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME		COPIES LTTR	COPIES ENCL
	PWR-A EB		1	1	PWR-A EICSB		2	2
	PWR-A FOB		1	1	PWR-A PD2 LA		1	0
	PWR-A PD2 PD 04		5	5	REQUA, G		1	1
	PWR-A PSB		1	1	PWR-A RSB		1	1
INTERNAL:	ADM/LFMB		1	0	NRR/DHFT/TSCB		1	1
	NRR/ORAS		1	0	OGC/HDS1		1	0
	~~REG FILE~~	01	1	1				
EXTERNAL:	EG&G BRUSKE, S		1	1	LPDR	03	1	1
	NRC PDR	02	1	1	NSIC	05	1	1

TOTAL NUMBER OF COPIES REQUIRED: LTTR 22 ENCL 18

Form 244

CP&L

Carolina Power & Light Company

Company Correspondence

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

February 25, 1987

Robinson File: 13510H Serial: RNPD/87-879

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
14-DAY SPECIAL REPORT OF AN INOPERABLE ACOUSTIC MONITOR

Dear Sir:

CP&L submits this 14-Day Special Report as required by Technical Specification 3.5.1.3 concerning operational safety instrumentation to assess Plant conditions during and following an accident.

Technical Specification 3.5.1.3 references Table 3.5-5 which requires, in part, that a minimum of one primary safety valve position indicator channel shall be operable. If the primary method of position indication becomes inoperable when the Reactor Coolant System (RCS) is above 350 degrees Fahrenheit, it shall be restored to an operable status within 7 days or a Special Report to the Commission shall be prepared and submitted within the following 14 days. This Special Report shall detail the cause of the inoperable primary position indication method, the actions being taken to restore it to an operable status, the estimated date for completion of the repairs, and any compensatory action being taken while the primary position indication method is inoperable. If any of the backup methods of position indication for the safety valve become inoperable, it is to be repaired as soon as Plant conditions permit.

The acoustic monitors for the three (3) pressurizer safety valves provide valve position indication in the Control Room and alarm to warn the operator of an actuated or leaking safety valve. An acoustic accelerometer is mounted on the outlet of each of the three safety valves to monitor the sound of fluid passing through the valves and provide electrical signals proportional to the

8703040190 870225
PDR ADOCK 05000261
S PDR

A001
1/1

flow. These signals are transmitted to preamplifiers and then to the Control Room. An RTD is located in the common disharge piping from the three valves to provide backup indication of actuation and a high temperature alarm in the Control Room to warn of an actuated or leaking valve.

CAUSE

On February 4, 1987, the acoustic monitor for pressurizer safety valve V-551C was declared inoperable at 1600 hours. The cause of the inoperable status has yet to be determined; however, preliminary investigation indicates the problem to be in either the accelerometer or the preamplifier. Maintenance troubleshooting has determined that the monitor system outside the Containment Vessel (CV) is operable.

CORRECTIVE ACTION

Unit 2 is scheduled for a refueling outage to commence March 28, 1987. Since the Plant is operating (currently at 100% power, 740 MWE), further investigation of the acoustic monitor has been deferred due to its installed location inside the CV for personnel safety (containment atmosphere temperature) and ALARA considerations. The monitor will be inspected and restored to operable status during the refueling outage and prior to return to power, currently scheduled for late May, 1987.

As discussed above, the relative valve position indication provided by the acoustic monitor is backed up by the RTD in the discharge piping. This RTD provides sufficient indication of valve actuation in lieu of the acoustic monitor. In addition, pressurizer level and pressure indicators would alert the operator of an actuated or leaking safety valve. Changes in the temperature or pressure of the Pressurizer Relief Tank to which the valves discharge would also indicate an actuated or leaking valve. This information, when compared to the indications provided by the two operable acoustic monitors, would identify V-551C as actuated or leaking excessively.

A supplemental report will be provided with results of the investigation and restoration for the V-551C acoustic monitor.

If you have any questions concerning this submittal, please contact my staff.

Very truly yours,

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

DAS:gjh

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