

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8706100456 DUC. DATE: 87/05/29 NOTARIZED: NO DOCKET #
 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power & Light C 05000261
 AUTH. NAME AUTHOR AFFILIATION
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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-006-00: on 870501, while unit 2 in refueling shutdown,
 diesel generator room damper failure on loss of instrument
 air identified. The fail position of louvres & dampers
 revised. W/870529 ltr.

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 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

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NRR/PMAS/PTSB	1 1	REG FILE 02	1 1
RES DEPY GI	1 1	RON2 FILE 01	1 1
EXTERNAL: EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
H. B. Robinson Steam Electric Plant Unit 2DOCKET NUMBER (2)
0 5 0 0 0 2 6 1 1 OF 0 2TITLE (4)
Diesel Generator Room Damper Failure on Loss of Instrument AirEVENT DATE (5)
MONTH DAY YEAR
0 5 0 1 8 7 8 7
LER NUMBER (6)
YEAR SEQUENTIAL NUMBER REVISION NUMBER
8 7 - 0 0 6 - 0 0
REPORT DATE (7)
MONTH DAY YEAR
0 5 1 8 7
OTHER FACILITIES INVOLVED (8)
FACILITY NAMES
DOCKET NUMBER(S)
0 5 0 0 0 0 0 0THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)
OPERATING MODE (9) N
POWER LEVEL (10) 0 0 1 0
20.402(b)
20.406(a)(1)(i)
20.406(a)(1)(ii)
20.406(a)(1)(iii)
20.406(a)(1)(iv)
20.406(a)(1)(v)
20.406(c)
50.38(c)(1)
50.38(c)(2)
50.73(a)(2)(i)
50.73(a)(2)(ii)
50.73(a)(2)(iii)
50.73(a)(2)(iv)
50.73(a)(2)(v)
50.73(a)(2)(vi)
50.73(a)(2)(vii)(A)
50.73(a)(2)(vii)(B)
50.73(a)(2)(x)
73.71(b)
73.71(c)
OTHER (Specify in Abstract below and in Text, NRC Form 366A)LICENSEE CONTACT FOR THIS LER (12)
NAME
David Crook - Specialist - Regulatory Compliance
TELEPHONE NUMBER
AREA CODE
8 0 3 3 8 3 - 1 1 7 9COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NPRDS
B E K D G YSUPPLEMENTAL REPORT EXPECTED (14)
YES (If yes, complete EXPECTED SUBMISSION DATE) X NO
EXPECTED SUBMISSION DATE (15)
MONTH DAY YEAR

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

On May 1, 1987, while Unit 2 was in refueling shutdown, it was identified that if a loss of instrument air signal was received with a Diesel Generator (DG) in operation, the damper and louver controls for the respective D/G room would line up the ventilation system to a recirculation mode of operation. Because of this original design configuration, the D/G room temperature would rapidly rise to a point above generator nameplate rating, and continued D/G operation could not be assured.

The fail position of the louvers and dampers have been revised to ensure a safe line-up for D/G operation. Because of Fire Protection considerations, a gas bottle and check valve have been installed to properly position the air operated louvers and dampers in the event of a fire in the D/G room.

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PDR ADOCK 05000261
S PDR

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NRC Form 388A
(9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES 8/31 85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
H. B. Robinson Steam Electric Plant Unit 2	0 5 0 0 0 2 6 1	8 7	- 0 0 6	- 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 388A's) (17)

EVENT DESCRIPTION

On May 1, 1987, at 1930 hours, while Unit 2 was in refueling shutdown, a condition identified as a follow-up to an NRC SSFI was evaluated and determined to be reportable.

Specifically, it was identified that in the event of the loss of a non-safety grade instrument air supply to the Diesel Generator (D/G) room, the system's damper and louver controls would line up each ventilation system in a recirculation mode of operation, i.e., no external supply or exhaust from D/G room. With a D/G in operation, the respective D/G room temperature would rapidly rise to a point above generator nameplate ratings and continued operation of the D/G under this condition could not be assured.

The NRC was notified of this condition in accordance with 10CFR50.72(B)(2)(iii).

CAUSE

Because of Fire Protection considerations, the HVAC system was designed so that the dampers and louvers in the Diesel Generator rooms fail closed on a loss of instrument air signal. The Instrument Air System is not a qualified system, therefore, no credit can be taken for instrument air during a design basis event. This is the original design configuration.

CORRECTIVE ACTION

A modification has been installed which reverses the fail position of the air actuated ventilation louvers and dampers to a safe lineup for Diesel Generator operation. To ensure operability of the D/G Fire Suppression System, a gas bottle and check valve have been installed to serve as a backup to the Instrument Air System and ensure proper positioning of the louvers and dampers in the event of a fire in the D/G room.



Carolina Power & Light Company

ROBINSON NUCLEAR PROJECT DEPARTMENT
POST OFFICE BOX 790
HARTSVILLE, SOUTH CAROLINA 29550
MAY 29 1987

Robinson File No: 13510C

Serial: RNP/87-2158
(10CFR50.73)

United States 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
LICENSEE EVENT REPORT 87-006

Dear Sir:

The enclosed Licensee Event Report (LER) is submitted in accordance with the Licensee Event Report System of 10CFR50.73. The format of the LER follows the recommendations of NUREG-0122 of September 1983.

Very truly yours,

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

DAS:sdm

Enclosure

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

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