

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8706100456      DOC. 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  
 CROCK, D.      Carolina Power & Light Co.  
 MORGAN, R. E.      Carolina Power & Light Co.  
 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.

DISTRIBUTION CODE: IE22      COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

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LICENSEE EVENT REPORT (LER)

|   |  |                      |
|---|--|----------------------|
| FACILITY NAME (1)<br>H. B. Robinson Steam Electric Plant Unit 2 | DOCKET NUMBER (2)<br>0 5 0 0 0 2 6 1 1 | PAGE (3)<br>1 OF 0 2 |
|---|--|----------------------|

TITLE (4)  
Diesel Generator Room Damper Failure on Loss of Instrument Air

| 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 5            | 0 1 | 8 7  | 8 7            | 0 0 6             | 0 0             | 0 5             |     | 8 7  |                               |  | 0 5 0 0 0        |
|                |     |      |                |                   |                 |                 |     |      |                               |  | 0 5 0 0 0        |

|                             |  |                  |                      |  |  |  |  |  |  |  |
|-----------------------------|--|------------------|----------------------|--|--|--|--|--|--|--|
| OPERATING MODE (9)<br>N     | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) |                  |                      |  |  |  |  |  |  |  |
| POWER LEVEL (10)<br>0 0 1 0 | 20.402(b)  | 20.405(c)        | 50.73(a)(2)(iv)      | 73.71(b)   |  |  |  |  |  |  |
|                             | 20.405(a)(1)(i)  | 50.38(c)(1)      | 50.73(a)(2)(v)       | 73.71(c)   |  |  |  |  |  |  |
|                             | 20.405(a)(1)(ii)   | 50.38(c)(2)      | 50.73(a)(2)(vii)     | OTHER (Specify in Abstract below and in Text, NRC Form 366A) |  |  |  |  |  |  |
|                             | 20.405(a)(1)(iii)  | 50.73(a)(2)(i)   | 50.73(a)(2)(viii)(A) |  |  |  |  |  |  |  |
|                             | 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<br>David Crook - Specialist - Regulatory Compliance |  | TELEPHONE NUMBER<br>AREA CODE: 8 0 3 3   8 3   1 1 7 9 |  |

| 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 |  |
| B  | E   K  | D   G     |              | Y                   |       |        |           |              |                     |  |

| 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)

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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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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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