

ACCELERATED DOCUMENT DISTRIBUTION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9308170102 DOC.DATE: 93/08/13 NOTARIZED: NO DOCKET #
 FACIL:50-261 H.B. Robinson Plant, Unit 2, Carolina Power & Light C 05000261
 AUTH.NAME AUTHOR AFFILIATION
 CROOK,D. Carolina Power & Light Co.
 FLANAGAN,W.J. Carolina Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 93-006-00:on 930712,EDG A ventilation sys air return
 damper discovered to have been mechanically positioned
 partially opened w/wooden wedge.Caused by personnel error.
 Wedge block removed.W/940813 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT		COPIES			RECIPIENT		COPIES	
	ID CODE/NAME		LTTR	ENCL		ID CODE/NAME		LTTR	ENCL
	PD2-1 LA		1	1		PD2-1 PD		1	1
	MOZAFARI,B		1	1					
INTERNAL:	ACNW		2	2		AEOD/DOA		1	1
	AEOD/DSP/TPAB		1	1		AEOD/ROAB/DSP		2	2
	NRR/DE/EELB		1	1		NRR/DE/EMEB		1	1
	NRR/DORS/OEAB		1	1		NRR/DRCH/HHFB		1	1
	NRR/DRCH/HICB		1	1		NRR/DRCH/HOLB		1	1
	NRR/DRIL/RPEB		1	1		NRR/DRSS/PRPB		2	2
	NRR/DSSA/SPLB		1	1		NRR/DSSA/SRXB		1	1
	REG FILE 02		1	1		RES/DSIR/EIB		1	1
	RGN2 FILE 01		1	1					
EXTERNAL:	EG&G BRYCE,J.H		2	2		L ST LOBBY WARD		1	1
	NRC PDR		1	1		NSIC MURPHY,G.A		1	1
	NSIC POORE,W.		1	1		NUDOCS FULL TXT		1	1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 504-2065) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

FULL TEXT CONVERSION REQUIRED
 TOTAL NUMBER OF COPIES REQUIRED: LTTR 30 ENCL 30



Carolina Power & Light Company

ROBINSON NUCLEAR PLANT

POST OFFICE BOX 790
HARTSVILLE, SOUTH CAROLINA 29551

AUG 13 1993

Robinson File No: 13510C

RNP/93-1946
(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 NO. 93-006-00

Gentlemen:

The enclosed Licensee Event Report (LER), is submitted in accordance with 10 CFR 50.73 and NUREG 1022, Supplements No. 1 and 2.

Very truly yours,


William J. Flanagan, Jr.
Acting Plant General Manager
H. B. Robinson S. E. Plant

RDC:lst

Enclosure

cc: Mr. S. D. Ebnetter
Mr. W. T. Orders
INPO

170064

9308170102 930813
PDR ADDCK 05000261
S PDR

Handwritten initials/signature

NRC FORM 366
(5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95**LICENSEE EVENT REPORT (LER)**

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

H. B. ROBINSON, UNIT NO. 2

DOCKET NUMBER (2)

05000 261

PAGE (3)

1 OF 3

TITLE (4)

INADEQUATE EDG VENTILATION SYSTEM DUE TO BYPASSED AIR RECIRCULATION DAMPER

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 NAME	DOCKET NUMBER
07	12	93	93	-- 006 --	00	08	13	93	FACILITY NAME	DOCKET NUMBER 05000
OPERATING MODE (9)		N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
POWER LEVEL (10)		100	20.402(b)			20.405(c)			50.73(a)(2)(iv)	73.71(b)
			20.405(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)	73.71(c)
			20.405(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii)	OTHER
			20.405(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)	(Specify in Abstract below and in Text, NRC Form 366A)
			20.405(a)(1)(iv)		X	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

DAVID CROOK, SENIOR SPECIALIST - COMPLIANCE

TELEPHONE NUMBER (Include Area Code)

(803) 383-1179

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

SUPPLEMENTAL 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 15 single-spaced typewritten lines) (16)

On June 10, 1993, with H. B. Robinson Unit No. 2 operating at one hundred percent power, the "A" Emergency Diesel Generator (EDG) Ventilation System Air Return Damper was discovered to have been mechanically positioned partially open with a wooden wedge. Because the damper should have been closed under the existing outside ambient temperature conditions, the operability of the EDG under accident conditions was questioned.

This condition is attributed to personnel error. Although the condition was bounded and the time frame in which the blockage existed was determined, the source of the wooden wedge could not be determined. Upon discovery of this condition, the wedge block was removed, and the damper automatically closed as designed.

This condition had no impact on safety. Although analyses indicate that the 104 degree F ambient temperature limit of the room would have been exceeded at a design basis day of 95 degrees F, the equipment was not exposed to design limit temperatures, and the blocked damper did not have any effect on the EDG performance life.

This event is reported pursuant to 10 CFR 50.73(a)(2)(ii) as a condition that was outside the design basis of the plant.

NRC FORM 366A
(5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95**LICENSEE EVENT REPORT (LER)**
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
H. B. ROBINSON, UNIT NO. 2	05000261	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 3
		93	-- 006 --	00	

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

I. DESCRIPTION OF EVENT

On June 7, 1993, H. B. Robinson Unit No. 2 was operating at one hundred percent power. During the performance of the Emergency Diesel Generator (EDG) bi-weekly surveillance test, a licensee Electrical System Engineer observed that the "A" EDG Air Return Damper was partially open. At the time of the test, the ambient air temperature was approximately 76 degrees F and the ventilation system was in the "Summer Mode" of operation. In this configuration, the damper is designed to close whenever the ambient air temperature is above 55 degrees F. At the time the condition was discovered, the exhaust fan was set at full speed, which delivers 36,000 cfm of air flow. Conversely, during the "Winter Mode" of operation (below 55 degrees F) the EDG Room Exhaust Fan switches to half speed, the Air Recirculation Return Damper opens, and the Service Water spray to the Evaporative Air Cooler (EAC) is isolated. This configuration allows the EDG waste heat to warm the exhaust air, of which half is returned to the intake of the EDG Room Supply Fan. The operation of EAC-2 was also observed during performance of the EDG test, and it was noted that the Service Water spray was functioning properly, providing additional cooling to the EDG Room.

On June 7, 1993, the licensee EDG Electrical System Engineer initiated an investigation to determine why the recirculation dampers were open and to evaluate the potential impact on the Emergency Diesel Generator. Work Requests were initiated on June 8, 1993, for licensee Maintenance personnel to investigate the cause of the damper to fail to close as required. On June 10, 1993, while licensee Maintenance personnel were conducting troubleshooting efforts, a small, wedge-shaped piece of wood was discovered holding the damper partially open. The piece of wood was removed, and the damper closed as designed.

II. CAUSE OF EVENT

Adverse Condition Report 93-101 was initiated to document this condition and to facilitate a Root Cause evaluation. The System Engineer for the Auxiliary Building HVAC System has been assigned to complete the evaluation and to develop recommended corrective actions.

The cause of this event at this time is attributed to personnel error. A review of Work Requests and modification activities in the EDG Room was conducted for the time period the obstruction existed, and associated personnel were interviewed. However, the circumstances surrounding the installation of the wooden wedge could not be specifically determined.

NRC FORM 366A
(5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
H. B. ROBINSON, UNIT NO. 2	05000261	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 3
		93	-- 006 --	00	

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

III. ANALYSIS OF EVENT

This event had no impact on plant safety. At the time of testing, because the outside ambient temperature was approximately 76 degrees F, and the EDG Evaporative Air Cooler was in operation, the temperature inside the "A" EDG Room did not exceed the 104 degree F equipment design rating. Additionally, the EDG Room exhaust fan remained at the full speed setting ("Summer Mode" of operation) delivering approximately 36,000 cfm of air flow from the room.

An evaluation of the effects of this configuration was performed. Based on conservative analyses, and considering the inherent ruggedness of diesel generators, short-term operation of the equipment would not have been adversely affected.

Under accident operations, with the EDG Protective trips defeated, licensee Operators would investigate the source of an overheating condition should alarms be received, and it is anticipated that the obstruction would have been detected and removed.

This event is reported pursuant to 10 CFR 50.73(a)(2)(ii) as a condition that was outside the design basis of the plant.

IV. CORRECTIVE ACTIONS

On June 7, 1993, the licensee EDG Electrical System Engineer initiated an investigation to determine why the recirculation dampers were open and to evaluate the potential impact on the Emergency Diesel Generator. On June 8, 1993, a Work Request was initiated to determine the cause of the damper to be open when it is designed to automatically close. On June 10, 1993, upon discovery of the wooden wedge mechanically blocking open the damper, the obstruction was immediately removed, restoring the damper to operable status. An evaluation (ACR 93-101) was initiated to determine circumstances surrounding the installation of the damper block and to assess the impact on the "A" EDG operability.

V. ADDITIONAL INFORMATION

A. Failed Component Information

None

B. Previous Similar Events

None