

1307/07/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)  
DISTRIBUTION FOR INCOMING MATERIAL

50-261

REC: OREILLY J P  
NRC

ORG: FURR B J  
CAROLINA PWR & LIGHT

DOCDATE: 06/29/78  
DATE RCVD: 07/06/78

DOCTYPE: LETTER NOTARIZED: NO  
SUBJECT:

COPIES RECEIVED  
LTR 1 ENCL 1

LICENSEE EVENT REPORT #78-15 OCCURRING ON 5/28/78 CONCERNING FAILURE OF  
ENGINE DRIVEN FIRE WATER PUMP DURING PERIODIC TESTING.

PLANT NAME: H B ROBINSON - UNIT 2

REVIEWER INITIAL: XRS  
DISTRIBUTOR INITIAL: *m*

\*\*\*\*\* DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS \*\*\*\*\*

INCIDENT REPORTS  
(DISTRIBUTION CODE A002)

FOR ACTION: *BR* CHIEF ORB#1 BC\*\*W/4 ENCL

INTERNAL:

*REG FILE* \*\*W/ENCL  
I & E\*\*W/2 ENCL  
I & C SYSTEMS BR\*\*W/ENCL  
NOVAK/CHECK\*\*W/ENCL  
AD FOR ENG\*\*W/ENCL  
HANAUER\*\*W/ENCL  
AD FOR SYS & PROJ\*\*W/ENCL  
ENGINEERING BR\*\*W/ENCL  
KREGER/J. COLLINS\*\*W/ENCL  
K SEYFRIT/IE\*\*W/ENCL

NRC PDR\*\*W/ENCL  
MIPC\*\*W/3 ENCL  
EMERGENCY PLAN BR\*\*W/ENCL  
EEB\*\*W/ENCL  
PLANT SYSTEMS BR\*\*W/ENCL  
AD FOR PLANT SYSTEMS\*\*W/ENCL  
REACTOR SAFETY BR\*\*W/ENCL  
VOLLMER/BUNCH\*\*W/ENCL  
POWER SYS BR\*\*W/ENCL

EXTERNAL:

LPDR'S  
HARTSVILLE, SC\*\*W/ENCL  
TIC\*\*W/ENCL  
NSIC\*\*W/ENCL  
ACRS CAT B\*\*W/16 ENCL

DISTRIBUTION: LTR 45 ENCL 45  
SIZE: 1P+1P+2P

CONTROL NBR: 781870311

\*\*\*\*\*

THE END

\*\*\*\*\*

*BoH*

\*\*\* MASTER ROSTER \*\*\*  
\*\*\* PUBLICATIONS \*\*\*

DIVISION	I	DISTRIBUTION	CODES	1	-	17	
TITLE	I	DISTRIBUTION	QTY	1	-	17	
CITY	I	DISTRIBUTION	CODES	18	-	34	
CORP. TYPE	I	DISTRIBUTION	QTY	18	-	34	
	I	DISTRIBUTION	CODES	35	-	50	
	I	DISTRIBUTION	QTY	35	-	50	

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DEPT OF OCEANOGRAPHY LIBRARY RB  
MONTEREY CA 93940 1DEPT OF METEOROLOGY LIBRARY RB  
MONTEREY CA 93940 1

PACIFIC GROVE CA 93950 1

CONSULTANT SN SR SF SE SM SP ST SO SG  
ELMONT CA 94002 1 1 1 1 1 1 1 1 1

ELMONT CA 94002 1

URLINGAME SE  
X CA 94010 1PACIFIC COAST REGIONAL OFFICE SM SP  
REGIONAL ENGINEER 1 1  
URLINGAME CA 94010URLINGAME CW  
V CA 94010 1URLINGAME RQ  
CA 94010 1ALY CITY SN SF SE SM SO  
N CA 94014 1 1 1 1 1GRANADA SN SR SF SE SM SP ST SO SA SG  
CA 94018 1 1 1 1 1 1 1 1 1

3P21  
REGULATORY DOCKET FILE COPY  
Carolina Power & Light Company

June 29, 1978

FILE: NG-3516 (R)

SERIAL: GD-78-1766


Mr. James P. O'Reilly, Director  
U. S. Nuclear Regulatory Commission  
Region II, Suite 1217  
230 Peachtree Street, N.W.  
Atlanta, Georgia 30303

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET 50-261  
LICENSE NO. DPR-23  
LICENSEE EVENT REPORT 78-15

Dear Mr. O'Reilly:

In accordance with Section 6.9.2.b of the Technical Specifications for the H. B. Robinson Steam Electric Plant, Unit 2, the attached Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in NUREG-0161, July, 1977.

Yours very truly,

  
B. J. Furr  
Manager  
Generation Department

DCS:men\*

Attachment

cc: Messrs. R. A. Hartfield  
E. Volgenau

781870311

A002  
5/11

**LICENSEE EVENT REPORT**

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T

0	1
7	8

REPORT SOURCE

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

09		SYSTEM CODE A B		CAUSE CODE A	CAUSE SUBCODE X	COMPONENT CODE E N G I N E				COMP. SUBCODE Z	VALVE SUBCODE Z		
7	8	9	10	11	12	13	14	15	16	17	18	19	20
LER/RO REPORT NUMBER		EVENT YEAR 7 8		SEQUENTIAL REPORT NO. 0 1 5		OCCURRENCE CODE 0 3		REPORT TYPE L		REVISION NO. 0			
21	22	23	24	25	26	27	28	29	30	31	32		
ACTION TAKEN H	FUTURE ACTION Z	EFFECT ON PLANT Z	SHUTDOWN METHOD Z		HOURS 0 0 0 0		ATTACHMENT SUBMITTED Y		NPRD-4 FORM SUB. N		PRIME COMP. SUPPLIER A		
33	34	35	36	37	38	39	40	41	42	43	44		
18	19	20	21	22	23	24	25	26	27	28	29		

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

FACILITY STATUS (1 5) (E) (28) % POWER (1 0 0) (29) OTHER STATUS (30) Z METHOD OF DISCOVERY (B) (31) DISCOVERY DESCRIPTION (32) Operator Observation

PERSONNEL EXPOSURES		TYPE		DESCRIPTION
NUMBER				
1	7	0	0	0
		37	Z	38
				N/A

LOSS OF OR DAMAGE TO FACILITY		(43)
TYPE	DESCRIPTION	

1 9 Z (42) N/A 80  
7 8 9 10  
PUBLICATION  
ISSUED DESCRIPTION (45) NRC USE ONLY

[illegible]

Supplemental Information for  
Licensee Event Report 78-15

1. Report No: 50-261/78-15
- 2a. Report Date: June 27, 1978
- 2b. Occurrence Date: May 28, 1978
3. Facility: H. B. Robinson SEG Plant, Hartsville, South Carolina 29550
4. Identification of Occurrence: While performing a periodic test of the Engine Driven Fire Water Pump (EDFP), the engine failed to start. This resulted in operation in a degraded mode permitted by Technical Specification 3.14.2.2 and is reportable in accordance with Technical Specification 6.9.2.b.2.
5. Conditions Prior to Occurrence: The plant was operating at 100% reactor power with the Auxiliary Operator (A.O.) weekly checks in progress. The A.O. was attempting to start the EDFP.
6. Description of Occurrence: At 0810 hours on May 28, 1978, the A.O. was attempting to start the EDFP. Repeated attempts were unsuccessful to achieve combustion in the engine. Operating personnel inspected the ignition, fuel and cooling water systems and discovered a broken cooling water hose. Engine jacket cooling water is supplied to the L.P. gas atomizer. The personnel, at the time, believed that the lack of cooling water to the atomizer caused the failure. The failure was reported for repair via a Nuclear Trouble and Work Request.
7. Designation of Apparent Cause of Occurrence: Maintenance personnel, prior to replacing the failed water hose, re-inspected the engine in an attempt to determine the precise cause for failure of the engine to start. At that time, it was discovered that a fuel line shutoff valve at the engine was isolated. Operation of this particular valve requires a short radius turn which is believed the reason earlier inspections did not reveal its closure. Additionally, the valve requires a substantial effort to operate; therefore, resulting in possible error when verifying its position. The valve was opened and the engine was cranked to verify combustion. Combustion occurred indicating the closed valve as the cause of the failure.

To date, no reason for the valve closure is evident. It is believed that the water hose failure might be related to the valve closure. Valve closure could have been an effort to protect the engine following discovery of a failed cooling water system. However, if this occurred, proper followup reports were not submitted. As mentioned above, the valve requires a substantial effort to open or close; therefore, closure would have to be deliberate. Since operation of the EDFP is verified weekly, the valve was closed within a seven day period. Plant personnel are currently being instructed as to the increased attention required in the maintenance and operating practices regarding the fire protection

Supplemental Information for  
Licensee Event Report 78-15  
Page 2

systems and equipment. It is believed that the unreported valve closure is an example of a transition into this new attitude towards these systems.

8. Analysis of Occurrence: The EDFP is an equal capacity (2500 gpm) backup to the Motor Driven Fire Water Pump (MDFP). During the time that the EDFP was out of service the MDFP was operable. This failure therefore did not jeopardize the capability of the system to provide its water suppressions function.
9. Corrective Action: The failed cooling water hose was replaced and the shut-off valve was opened. The EDFP was returned to service at 1315 on May 29, 1978. Personnel whose responsibilities include operation and maintenance of this equipment will review this event as an effort to reiterate the importance of the equipment and significance of immediately reporting impairments.
10. Failure Data: None