

B 05/16/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL 50-261

REC: OREILLY J P NRC ORG: BANKS H R CAROLINA PWR & LIGHT DOCDATE: 05/12/78
DATE RCVD: 05/15/78

DOCTYPE: LETTER NOTARIZED: NO COPIES RECEIVED
SUBJECT: LTR 1 ENCL 1
FORWARDING LICENSEE EVENT REPT (RO 50-261/78-010) ON 04/13/78 CONCERNING "B"
AUXILIARY FEEDWATER PUMP FAILED TO START ON COMMAND FROM THE RTGB... CAUSED BY
INCORRECT SETTING OF THE INSTANTANEOUS TRIP COILS ON "B" AFW PUMP CIRCUIT
BREAKER... W/ATT.

PLANT NAME: H B ROBINSON - UNIT 2 REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: *[Signature]*

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

INCIDENT REPORTS
(DISTRIBUTION CODE A002)

FOR ACTION: ~~BR CHIEF SCHWENCER**W/4 ENCL~~

INTERNAL:	REG FILE**W/ENCL	NRC PDR**W/ENCL
	I & E**W/2 ENCL	MIPC**W/3 ENCL
	SCHROEDER/IPPOLITO**W/ENCL	HOUSTON**W/ENCL
	NOVAK/CHECK**W/ENCL	EEB**W/ENCL
	KNIGHT**W/ENCL	BUTLER**W/ENCL
	HANAUER**W/ENCL	TEDESCO**W/ENCL
	EISENHUT**W/ENCL	BAER**W/ENCL
	SHAO**W/ENCL	VOLLMER/BUNCH**W/ENCL
	KREGER/J. COLLINS**W/ENCL	ROSA**W/ENCL
	K SEYFRIT/IE**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 CONTROL NBR: 781360090
SIZE: 1P+1P+2P

***** THE END *****



Carolina Power & Light Company

May 12, 1978

FILE: NG-3516 (R)

SERIAL: GD-78-1326

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

US NRC
DISTRIBUTION SERVICES
BRANCH

1978 MAY 15 PM 1 42

RECEIVED DISTRIBUTION
SERVICES UNIT

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET 50-261
LICENSE NO. DPR-23
LICENSEE EVENT REPORT 78-10

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,

H. R. Banks
Manager
Nuclear Generation

DCS:mls

Attachment

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

781360090

Acc 2
7/11

LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

[illegible]

NRC USE ONLY

NAME OF PREPARER R. B. Starkey, Jr.

PHONE: (803) 332-1351

SUPPLEMENTAL INFORMATION
FOR
REPORTABLE OCCURRENCE 78-10

1. Report No.: 50-261/78-10
- 2a. Report Date: April 28, 1978
- 2b. Occurrence Date: April 13, 1978
3. Facility: H. B. Robinson Unit No. 2, Hartsville, South Carolina 29550
4. Identification of Occurrence: At 1545 hours on April 13, 1978, while performing low power physics testing at 0% power, 'B' Auxiliary Feedwater Pump failed to start on command from the RTGB. 'A' Auxiliary Feedwater Pump was operable at this time. This constitutes a reportable occurrence per Technical Specifications Paragraph 6.9.2.b.2.
5. Conditions Prior to Occurrence: The reactor was critical, the plant was at 0% power, and low power physics testing was in progress.
6. Description of Occurrence: 'B' Auxiliary Feedwater Pump failed to start on command from the RTGB at 1545 hours, April 13, 1978. Similar to HBR2-R0-78-09, 'B' AFW Pumps circuit breaker was not closing properly. Westinghouse Electric Corporation personnel were called in to assist in the solution of the problem. They found internal components of the instantaneous trip coil actuators required replacement. The actuators were tripping the breaker at 2800-2900 amperes which is well below the normal setting of 4800 amperes. The actuators were rebuilt and the instantaneous trip recalibrated to 4800 amperes. Long term calibration was checked and reset also. 'B' AFW Pump was then tested with satisfactory results and returned to service at 1553 hours, April 14, 1978.
7. Designation of Apparent Cause of Occurrence: The instantaneous trip coil settings on 'B' AFW Pump circuit breaker were found to be low (2800-2900 amperes). Normal setting is 4800 amperes. This low setting tripped the breaker immediately on trying to close due to the normal high inrush current of the AC induction motor on the pump.
8. Analysis of the Occurrence: Worn internals in the instantaneous trip coil actuators caused the trip settings to be lower than specified. Failure of the internal parts, attributed to normal wear, resulted during an extended period of operation at hot shutdown and hot "zero" power conditions following a refueling outage. At the time of the failure, 'A' AFW Pump was operable and no limiting conditions for operation were violated.
9. Corrective Action: The trip coil actuators were rebuilt and the breaker recalibrated. 'B' AFW Pump was then tested in both the automatic and manual start modes with satisfactory results. 'B' Pump was returned to service at 1553 hours on April 14, 1978.

SUPPLEMENTAL INFORMATION
FOR
REPORTABLE OCCURRENCE 78-10

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9. Corrective Action (Continued):

'A' AFW Pump was then removed from service for a complete inspection of its circuit breaker. It required only a small recalibration of one instantaneous trip coil setting, i.e. 4500 reset to 4800 amperes. 'A' Pump was returned to service at 1800 hours, April 14, 1978. In addition, a sampling of other breakers supplying safety-related equipment of this type and service will be inspected for similar wear.

10. Failure Data:

One previous occurrence of this type was reported in HBR2-RO-78-09 of April 11, 1978. It is believed that these two failures are unrelated.