

D 09/29/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-261

REC: OREILLY J P
NRC

ORG: FURR B J
CAROLINA PWR & LIGHT

DOCDATE: 09/25/78
DATE RCVD: 09/28/78

DOCTYPE: LETTER NOTARIZED: NO

SUBJECT:

COPIES RECEIVED
LTR 1 ENCL 1

FORWARDING LICENSEE EVENT REPT (RO 50-261/78-020) ON 08/25/78 CONCERNING
WHILE PERFORMING P.T. 4.1.B, VALVE V6-12D IN THE NORTH SVC WATER LOOP HEADER
FAILED TO OPEN, DUE TO BINDING IN GEAR BOX...W/ATT.

PLANT NAME: H B ROBINSON -- UNIT 2

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: DL

***** 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
NSIC**W/ENCL
ACRS CAT B**W/16 ENCL

DISTRIBUTION: LTR 44 ENCL 44
SIZE: 1P+1P+1P

CONTROL NBR: 781430136

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

A/O 4
cep



Carolina Power & Light Company

LABORATORY DOCKET FILE COPY

September 25, 1978

FILE: NG-3516 (R)

SERIAL: GD-78-2574

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO
DOCKET 50-261
LICENSE NO. DPR-23
LICENSEE EVENT REPORT 78-20

RECEIVED
NRC
SERVICES
ARCH

1978 SEP 11 PM 3 02

RECEIVED
NRC
UNIT

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:lk

Attachment

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

781430136

A002
5/11

LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT TYPE ALL REQUIRED INFORMATION)

0 1 | S C H B R 2 | 0 0 - 0 0 0 0 0 0 - 0 0 | 3 4 1 1 1 0 | 4 | 5
7 8 9 14 15 25 26 30 57 CAT 58

CON'T

0 1 | L | 0 5 0 0 0 2 6 1 | 7 0 8 2 5 7 8 | 8 0 9 2 5 7 8 | 9
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During normal operation, while performing P.T. 4.1.b, valve V6-12D in the north
0 3 | service water loop header failed to open. The header was declared inoperable
0 4 | at 0935. This constitutes a reportable occurrence in accordance with Technical
0 5 | Specifications 6.9.2.b.2. Valve V6-12D became inoperable due to a failed limit
0 6 | switch. The south service water loop header was operational during the course of
0 7 | the event.

0 8 |
7 8 9 80

0 9 | W A | E | B | V A L V O P | A | Z |
7 8 9 10 11 12 13 18 19 20

(17) LER NO. REPORT NUMBER | EVENT YEAR | SEQUENTIAL REPORT NO. | OCCURRENCE CODE | REPORT TYPE | REVISION NO.
21 22 23 24 26 27 28 29 30 31 32

ACTION TAKEN | FUTURE ACTION | EFFECT ON PLANT | SHUTDOWN METHOD | HOURS | ATTACHMENT SUBMITTED | NPS-4 FORM SUB. | PRIME COMP. SUPPLIER | COMPONENT MANUFACTURER
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Failure of a rotor type-two train geared limit switch due to binding in the gear box
1 1 | resulted in a dual indication of valve position while the valve was closed. This
1 2 | prevented reopening of the valve. The limit switch was replaced. The valve was
1 3 | tested in accordance with P.T. 4.1.b and returned to service at 1658 on
1 4 | August 25, 1978.

1 5 | E | 1 0 0 | NA | B |
7 8 9 10 12 13 44 45 46 80

1 6 | Z | Z | NA | NA |
7 8 9 10 11 12 13 44 45 80

1 7 | 0 0 0 | Z | NA |
7 8 9 10 11 12 13 44 45 80

1 8 | 0 0 0 | NA |
7 8 9 10 11 12 13 44 45 80

1 9 | Z | NA |
7 8 9 10 11 12 13 44 45 80

2 0 | N | NA |
7 8 9 10 11 12 13 44 45 80

NAME OF PREPARER R. B. Starkey, Jr.

PHONE: (803) 332-1351

NRC USE ONLY

Mr. H. R. Banks
SERIAL:RSEP/78-810
September 12, 1978

SUPPLEMENTARY INFORMATION FOR REPORTABLE OCCURRENCE 78-20

1. Cause Description and Analysis:

During the performance of P.T. 4.1.b, Valve V6-12D was stroked closed from the full open position but would not reopen. A dual position indication was observed on the RTGB despite the valve being fully closed. The dual indication was a result of a limit switch failure. Since the limit switch did not recognize the valve as being closed, the valve could not reopen in response to a RTGB signal.

The limit switch is a two train geared rotary type. The failure resulted from binding in the gear box between the secondary drive pinion and one of the intermittent gears it drives. The binding was the result of a defective gear tooth on the intermittent gear. The failure is therefore attributed to a faulty gear in the limit switch gear box.

During the entire course of the event the redundant service water loop header was in service. Also, valve V6-12D was operable by manual actuation if required. Therefore, there were no adverse affects on plant operation nor was there any threat to either public health or safety.

2. Corrective Action:

A new limit switch was installed and the valve was tested in accordance with P. T. 4.1.b to ensure proper operation.

3. Corrective Action To Prevent Further Non-Compliance:

Since the occurrence resulted from a unique failure which had not previously occurred to this type of limit switch, it was attributed to a faulty device. Therefore, no additional corrective action is considered warranted.