

50-261

NRC DISTRIBUTION FOR PLANT 50 DOCKET MATERIAL

FILE NUMBER
INCIDENT REPORT

TO:

Mr. Norman C. Moseley

FROM:
Carolina Power & Light Company
Raleigh, North Carolina
H. R. Banks

DATE OF DOCUMENT
4/25/77

DATE RECEIVED
5/11/77

☒ LETTER
☒ ORIGINAL
☐ COPY

☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED
1.516NED

DESCRIPTION

Ltr. trans the following:

DO NOT REMOVE

PLANT NAME: **ACKNOWLEDGED**
H. B. Robinson (1-P)

RJL

ENCLOSURE

Licensee Event Report (RO 50-261/2-77-6) on 3/26/77 concerning valve V2-14A failing to open when commanded from the Reactor Turbine Generator Board.....

(3-P)

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

30 encl.

FOR ACTION/INFORMATION

BRANCH CHIEF:	Reid
W/3 CYS FOR ACTION	
LIC. ASST.:	INGRAM
W/ / CYS	
ACRS 16 CYS HOLDING/SENT	AS CAT 13

INTERNAL DISTRIBUTION

REG FILE				
NRC PDR				
I & E (2)				
MLPC				
SCHROEDER/IPPOLITO				
HOUSTON				
NOVAK/CHECK				
GRIMES				
CASE				
BUTLER				
HANAUER				
TEDESCO/MACCARY				
EISENHUT				
BAER				
SHAO				
VOLLMER/BUNCH				
KREGER/J. COLLINS				

EXTERNAL DISTRIBUTION

LPDR: HARTSVILLE SC.			
TIC:			
NSIC:			

CONTROL NUMBER

771320243

MD 4
GD



Carolina Power & Light Company

Regulatory Docket File

April 25, 1977

FILE: NG-3516 (R)

Serial: NG-77-479

Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Region II, Suite 818
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 2-77-6

Dear Mr. Moseley:

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 Regulatory Guide 1.16, Revision 4.

Yours very truly,

H. R. Banks

Manager

Nuclear Generation

WH:pap

Attachment

cc: Mr. W. G. McDonald
Mr. E. Volgenau

Supplementary Information for
Reportable Occurrence 77-6

1. Report No.: 50-261/77-6
2. Occurrence Date: March 26, 1977
3. Facility: H. B. Robinson Unit No. 2, Hartsville, South Carolina 29550
4. Identification of Occurrence: At 0125 hours on March 26, 1977, valve V2-14A failed to open when commanded from the Reactor Turbine Generator Board (RTGB). This valve is on the discharge of the steam driven auxiliary feedwater pump to "A" steam generator (SG) feedwater line. Failure of this valve to open is a violation of Technical Specification 3.4.1.d and constitutes a reportable occurrence in accordance with Technical Specification 6.9.2.b.2.
5. Conditions Prior to Occurrence: The plant was shut down at zero power but was being maintained critical for unrelated maintenance purposes. Make-up feedwater to the steam generators was to be supplied by the steam driven auxiliary feedwater pump. "A" motor driven auxiliary feedwater pump was out-of-service.
6. Description of the Occurrence: At 0125 hours on March 26, 1977, an attempt was made to open valve V2-14A from the RTGB. This valve is required to be open in order to feed water from the steam driven auxiliary feedwater pump to SG "A". The valve failed to open as commanded, thus preventing the makeup of feedwater to SG "A" from the steam driven auxiliary feedwater pump. Maintenance personnel discovered that motor operator torque was not sufficient to open the valve. The valve was manually freed with greater than normal resistance. Once the valve had been opened, it was cycled several times by means of its motor operator until smooth, resistance free operation was obtained. The valve was then placed back in operation at 0310 hours on March 26, 1977.
7. Designation of Apparent Cause of Occurrence: The occurrence was apparently caused by a binding of the valve seating surfaces. The possible causes of this binding are as follows:
 1. Incorrect valve operator torque switch operation.
 2. A burr on the valve seating surface.
 3. Corrosion product buildup at the valve seating surface.
 4. Differential thermal expansion at the valve seating surface.
8. Analysis of Occurrence: Following manual opening of the valve, its normal operation was verified during subsequent cycling. The cause of the increased surface tension was eliminated by operation of the valve. Also the torque switch was checked and found to be operating properly.
9. Corrective Action: Cycling of the valve demonstrated normal valve operation. The valve was, therefore, returned to service with no further corrective action deemed necessary at this time. The

valve will be inspected at the next scheduled outage. By personal observation of valve operation, the apparent causes of binding are no longer considered a factor in preventing normal valve operation.

10. Failure Data: No previous reportable occurrences of this nature have taken place on the aforementioned valve.

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 6

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE
NAME

LICENSE NUMBER

LICENSE
TYPE

EVENT
TYPE

01 S C H B R 2

0 0 - 0 0 0 0 0 - 0 0

4 1 1 1 0

0 3

CATEGORY

REPORT
TYPE

REPORT
SOURCE

DOCKET NUMBER

EVENT DATE

REPORT DATE

01 CON'T

L

L

0 5 0 - 0 2 6 1

0 3 2 6 7 7

0 4 2 5 7 7

EVENT DESCRIPTION

02 While the plant was critical and at 0% power, an attempt was made to feed "A" steam generator through valve V2-14A with the steam driven auxiliary feedwater pump. The valve failed to open. "B" motor driven auxiliary feedwater pump was available. The valve was manually opened, cycled several times, and returned to service. (HBR RO 77-6)

SYSTEM
CODE

CAUSE
CODE

COMPONENT CODE

PRIME
COMPONENT
SUPPLIER

COMPONENT
MANUFACTURER

VIOLATION

07 H H

E

V A L V E X

A

C 6 6 5

N

CAUSE DESCRIPTION

08 The gate valve failed to open because of an apparent increase in tension between the seating surfaces. Operation of the valve revealed no further problems

FACILITY
STATUS

% POWER

OTHER STATUS

METHOD OF
DISCOVERY

DISCOVERY DESCRIPTION

11 E

0 0 0

N/A

A

N/A

FORM OF
ACTIVITY
RELEASED

CONTENT
OF RELEASE

AMOUNT OF ACTIVITY

LOCATION OF RELEASE

12 Z

Z

N/A

N/A

PERSONNEL EXPOSURES

13 0 0 0 Z N/A

PERSONNEL INJURIES

14 0 0 0 N/A

OFFSITE CONSEQUENCES

15 N/A

LOSS OR DAMAGE TO FACILITY

16 Z N/A

PUBLICITY

17 N/A

ADDITIONAL FACTORS

18 N/A

19

NAME: J. B. McGirt

PHONE: (803) 332-1351

RECEIVED DOCUMENT
PROCESSING UNIT

1977 MAY 11 PM 1 53