

50-261

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FILE NUMBER

INCIDENT REPORT

TO:

Mr. James P. O'Reilly

FROM:

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

DATE OF DOCUMENT

7/26/77

DATE RECEIVED

8/19/77

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PROP

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1 Signed

DESCRIPTION

DO NOT REMOVE
ACKNOWLEDGED

PLANT NAME: H. B. Robinson Unit No. 2

RJL 8/22/77

(1-P)

ENCLOSURE

Licensee Event Report (RO 50-261/77-13) on
6/26/77 concerning the 'B' service water
booster pump being tripped by its high
temperature cutout.....

(3-P)

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

1 CY ENCL Rec'd

FOR ACTION/INFORMATION

BRANCH CHIEF:

Reid

W/ 3 CYS FOR ACTION

LIC ASST.:

Ingram

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BAER

SHAO

VOLLMER/BUNCH

KREGER/ J. COLLINS

ROSA

EXTERNAL DISTRIBUTION

LPDR: HARTSVILLE, S.C.

TIC:

NSIC:

ACRS (16) SENT AS CAT. B

CONTROL NUMBER

772340010

B



Carolina Power & Light Company

July 26, 1977

FILE: NG-3516 (R)

SERIAL: NG-77-843



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 77-13

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 Regulatory Guide 1.16, Revision 4.

Yours very truly,

H. R. Banks
Manager
Nuclear Generation

WH:dcj

Attachment

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

CONTROL BLOCK:

3

6

LICENSE NUMBER

LICENSE
TYPE

EVENT
TYPE

NAME						LICENSE NUMBER										TYPE					TYPE					
0	1	S	C	H	B	R	2	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	0	0	3	
7	8	9					14	15										25	26					30	31	32

01		CON'T		CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER						EVENT DATE				REPORT DATE					
7	8	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				L	L	0	5	0	-	0	2	6	1	0	6	2	6	7	7	0	7	2	6	7	7

02 During normal operation, 'B' service water booster pump was tripped by its high
7 8 9
03 temperature cutout. The unit was operating at 100% power when the trip occurred and
7 8 9
04 'A' service water booster pump was started immediately following indication of the
7 8 9
05 trip. 'B' pump was then checked and tested. All pertinent parameters appeared normal.
7 8 9
06 So, the pump was placed back in service operating satisfactorily. (HBR2 RO 77-13)
7 8 9

SYSTEM CODE		CAUSE CODE	COMPONENT CODE					PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER				VIOLATION			
0	7	W	A	C	M	O	T	O	R	X	A	W	1	2	0	N
7	8	9	10	11	12					17	43	44				48

08	The trip of the motor breaker was determined to be caused by the high air	
7 8 9		
09	temperature inside the auxiliary building due to unusually hot weather and in-	80
7 8 9		
10	operable auxiliary building inlet air coolers.	80
7 8 9		

7 8		9		10 11 12			13 14		15 16		17 18		19 20		21 22		23 24		25 26		27 28		29 30		31 32		33 34		35 36		37 38		39 40		41 42		43 44		45 46		47 48		49 50		51 52		53 54		55 56		57 58		59 60	
FACILITY STATUS		% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION																																													
11		E	1	0	0	N/A		A	N/A																																													

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
1	2	Z		N/A		N/A	
7	8	9	10	11	44	45	80

NUMBER				TYPE	DESCRIPTION
1	3	0	0	0	Z N/A

NUMBER				DESCRIPTION
1	4	0	0	N/A

15	N/A
----	-----

TYPE			DESCRIPTION
16	Z		N/A

1	7	N/A										
7	8	9										

18

19

NAME: J. B. McGirt

PHONE: (803) 332-1351

8. Analysis of Occurrence:

The motor's high temperature cutout breaker apparently tripped due to a high ambient temperature inside the auxiliary building which resulted from unusually hot weather and inoperable auxiliary building inlet air coolers. 'A' Service Water Booster Pump was started immediately after indication was received that 'B' pump had tripped. At no time was there any threat to the health or safety of the general public. The pump was returned to service within the time period allowed by the facility's Technical Specifications.

9. Corrective Action:

a. Immediate Action

'A' Service Water Booster Pump was started immediately following the indication that 'B' Pump had tripped.

b. Long Range Action

The auxiliary building's inlet air coolers were returned to service several days after the occurrence.

One major source of heat in the area of the service water booster pumps is the instrument air compressors. The major portion of the load experienced by these compressors will be transferred to a new compressor located outside the auxiliary building. Therefore, in the future, this area should remain cooler.

10. Failure Data:

One occurrence similar to this event was reported on October 28, 1975.

Supplemental Information for
Reportable Occurrence 77-13

1. Report No: 50-261/77-13

2. Report Date: July 19, 1977

2.b. Occurrence Date: June 26, 1977

3. Facility: H. B. Robinson SEG Plant, Hartsville, S. C. 29550

4. Identification of Occurrence:

While operating at 100% power, 'B' Service Water Booster Pump tripped with 'A' Service Water Booster Pump in stand-by. This constitutes a reportable occurrence as defined by Technical Specification 6.9.2.b.2.

5. Conditions Prior to Occurrence:

The reactor was at 100% power with all conditions normal. 'B' Service Water Booster Pump was operating with 'A' Pump in stand-by. Ambient temperature at the pumps, i.e. inside the auxiliary building, was high due to unusually hot weather and inoperable auxiliary building inlet air evaporative coolers.

6. Description of Occurrence:

At 1838 a low HVH flow alarm was received due to the trip of 'B' Service Water Booster Pump. The auxiliary operators were then notified to check the pump. The shaft was rotated by hand and found to move freely. During this check, it was noted that the motor felt a little warmer than usual. The breaker was then reset, and the pump was restarted at 1843. The pump ran without any unusual noise and with a normal discharge pressure. At 1853 the pump was stopped and a trouble ticket, #1818, was written. The next day maintenance checked the pump for amperage, vibration levels, and for proper discharge check valve operation. All parameters were found to be normal. Also, the connector lugs on the motor's breaker were tightened.

7. Designation of Apparent Cause of Occurrence:

An inspection of 'B' Service Water Booster Pump, its motor, and its breaker revealed that the pump was apparently tripped by the motor's high temperature cutout since no other cause could be found.

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PROCESSING UNIT

1977 AUG 19 PM 12 07