

50-261

## NRC DISTRIBUTION FOR PART 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

11/26/76

DATE RECEIVED

11/29/76

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

One signed copy

☐ ORIGINAL☒ UNCLASSIFIED☒ COPY

## DESCRIPTION

Ltr. trans the following:

DO NOT REMOVE

BACK TO READER

(1-P)

PLANT NAME:

H. B. Robinosn #2

## ENCLOSURE

Licensee Event Report (RO 50-261/76-19) on  
10/29/76 concerning "B" Boric Acid Transfer  
Pump being found not operating although it's  
stop/start switch was in the start position.

(3-P)

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

FOR ACTION/INFORMATION

11/29/76

RJL

☒ BRANCH CHIEF:

Reid

☒ W/3 CYS FOR ACTION☒ LIC. ASST.:

Ingram

☒ W/ CYS☒ ACRS 16 CYS HOLDING/SENT TO ~~RE~~ Cat. B. (11/29/76)

## INTERNAL DISTRIBUTION

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

## EXTERNAL DISTRIBUTION

☒ LPDR/Hartsville, S.C.☒ TIC:☒ NSIC:

CONTROL NUMBER

12089



Carolina Power & Light Company

November 26, 1976

REGULATORY DOCKET FILE COPY

FILE: NG-3513 (R)

SERIAL: NG-76-1526

Mr. Norman C. Moseley, Director  
U. S. Nuclear Regulatory Commission  
Region II, Suite 818  
230 Peachtree Street, N.W.  
Atlanta, GA 30303

Dear Mr. Moseley:

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET 50-261  
LICENSE NO. DPR-23  
LICENSEE EVENT REPORT 76-19

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.

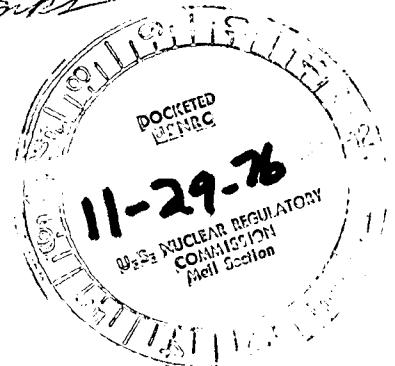
Yours very truly,

H. R. Banks  
Manager  
Nuclear Generation

CSB/pap

Attachment

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



12089

# LICENSEE EVENT REPORT

CONTROL BLOCK:            

(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	4	1	1	1	0	0	3				
7	8	9				14	15										25	26				30	31	32			

CATEGORY			REPORT TYPE		REPORT SOURCE		DOCKET NUMBER										EVENT DATE					REPORT DATE					
01	CON'T				L	L	0	5	0	-	0	2	6	1	1	0	2	9	7	6	1	1	2	6	7	6	
7	8		57	58	59	60	61							68	69							74	75				80

EVENT DESCRIPTION

02	During normal operation "B" Boric Acid Transfer Pump tripped due to high pump motor																								
7	8	9																							80
03	temperature cutout. Unit was operating at 100% power with "A" pump available. Heat																								
7	8	9																							80
04	Tracing Circuits for the pump enclosure were found excessive. Settings were returned																								
7	8	9																							80
05	to normal and the pump returned to service. A previous occurrence was reportable																								
7	8	9																							80
06	occurrence 76-11. (HBR RO 76-19)																								
7	8	9																							80

SYSTEM CODE			CAUSE CODE		COMPONENT CODE										PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER					VIOLATION	
07	P	C	A	P	U	M	P	X	X	N	C	3	0	0	N								
7	8	9	10	11	12						43	44			47	48							

CAUSE DESCRIPTION

08	Circuits EP2 (Primary) and ES2 (Secondary) for heater strips in "B" Boric Acid Trans-																								
7	8	9																							80
09	fer Pump enclosure were found set too high. The pump was not insulated properly and																								
7	8	9																							80
10	through operator error the heat tracing circuits were raised excessively causing the																								
7	8	9																							80

FACILITY STATUS			% POWER			OTHER STATUS					METHOD OF DISCOVERY		DISCOVERY DESCRIPTION												
11	E	1	0	0	NA	A	Operator Surveillance																		
7	8	9	10	12	13	44	45	46																	80

FORM OF ACTIVITY RELEASED			CONTENT OF RELEASE			AMOUNT OF ACTIVITY										LOCATION OF RELEASE									
12	Z	Z	NA										NA												
7	8	9	10	11								44	45											80	

PERSONNEL EXPOSURES

NUMBER			TYPE		DESCRIPTION																				
13	0	0	0	Z	NA																				
7	8	9	11	12	13																				80

PERSONNEL INJURIES

NUMBER			DESCRIPTION																						
14	0	0	0	NA																					
7	8	9	11	12																				80	

OFFSITE CONSEQUENCES

15	NA																								
7	8	9																							80

LOSS OR DAMAGE TO FACILITY

TYPE			DESCRIPTION																						
16	Z	NA																							
7	8	9	10																						80

PUBLICITY

17	NA																								
7	8	9																							80

ADDITIONAL FACTORS

18	(Cause Description Cont'd) high pump motor temperature trip. Setpoints were reduced																								
7	8	9																							80
19	and the pump returned to service.																								
7	8	9																							80

NAME: J. B. McGirt

PHONE: 803-332-1351

Supplementary Information For  
Reportable Occurrence 76-19

1. Report No: 50-261/76-19
- 2a. Report Date: November 16, 1976
- 2b. Occurrence Date: October 29, 1976
3. Facility: H. B. Robinson Unit No. 2  
Hartsville, South Carolina 29550

4. Identification of Occurrence:

At 0832 hours on October 29, 1976, "B" Boric Acid Transfer Pump was found not operating although it's stop/start switch was in the start position. This is a violation of paragraph 3.2.2 (b) of the Technical Specifications and constitutes a reportable occurrence in accordance with Technical Specifications paragraph 6.9.2.b.2.

5. Conditions Prior to Occurrence:

No unusual conditions prevailed prior to the occurrence. The plant was at steady state and 100% power level. "B" Boric Acid Transfer Pump was selected to run and in operation.

6. Description of Occurrence:

At 0832 hours on October 29, 1976, "B" Boric Acid Transfer Pump was found not running although it's stop/start switch was in the start position. After investigation of the problem, the apparent cause was that the boric acid heat tracing circuits were set too high causing the motor thermal overload trip. "A" Boric Acid Transfer Pump was available for operation. After resetting the heat tracing thermostats, the "B" Boric Acid Transfer Pump motor was allowed to cool and restarted for satisfactory operation.

7. Designation of Apparent Cause of Occurrence:

The apparent cause was that the Boric Acid Heat Tracing Circuits for "B" Boric Acid Transfer Pump were set too high causing the motor thermal overload trip. The pump was not insulated properly and through operator error the Boric Acid Heat Tracing Circuits raised excessively.

8. Analysis of Occurrence:

The failure of "B" Boric Acid Transfer Pump was from an operator error. Corrective actions being taken are considered adequate to prevent subsequent failures. There weren't any adverse effects to plant operation or to public health and safety.

9. Corrective Action:

The "B" Boric Acid Transfer Pump heat tracing thermostats were reset. The transfer pump's motor was allowed to cool and then restarted with satisfactory operation. The transfer pump is to be properly insulated and operators instructed to take special attention when adjusting the heat tracing circuits.

10. Failure Data:

A previous failure of "B" Boric Acid Transfer Pump occurred April 12, 1976 and reported under reportable occurrence 76-11.



Carolina Power & Light Company

November 26, 1976

FILE: NG-3513 (R)

SERIAL: NG-76-1526

Mr. Norman C. Moseley, Director  
U. S. Nuclear Regulatory Commission  
Region II, Suite 818  
230 Peachtree Street, N.W.  
Atlanta, GA 30303

Dear Mr. Moseley:

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET 50-261  
LICENSE NO. DPR-23  
LICENSEE EVENT REPORT 76-19

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

CSB/pap

Attachment

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

# LICENSEE EVENT REPORT

CONTROL BLOCK: 1         6

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME	LICENSE NUMBER	LICENSE TYPE	EVENT TYPE
<span style="border: 1px solid black; padding: 0 5px;">01</span> <span style="border: 1px solid black; padding: 0 5px;">S</span> <span style="border: 1px solid black; padding: 0 5px;">C</span> <span style="border: 1px solid black; padding: 0 5px;">H</span> <span style="border: 1px solid black; padding: 0 5px;">B</span> <span style="border: 1px solid black; padding: 0 5px;">R</span> <span style="border: 1px solid black; padding: 0 5px;">2</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">-</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">-</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">4</span> <span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">3</span>
7 8 9 14	15 25	26 30	31 32

CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER	EVENT DATE	REPORT DATE
<span style="border: 1px solid black; padding: 0 5px;">01</span> CONT	<span style="border: 1px solid black; padding: 0 5px;">L</span>	<span style="border: 1px solid black; padding: 0 5px;">L</span>	<span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">5</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">-</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">2</span> <span style="border: 1px solid black; padding: 0 5px;">6</span> <span style="border: 1px solid black; padding: 0 5px;">1</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">2</span> <span style="border: 1px solid black; padding: 0 5px;">9</span> <span style="border: 1px solid black; padding: 0 5px;">7</span> <span style="border: 1px solid black; padding: 0 5px;">6</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">2</span> <span style="border: 1px solid black; padding: 0 5px;">6</span> <span style="border: 1px solid black; padding: 0 5px;">7</span> <span style="border: 1px solid black; padding: 0 5px;">6</span>
7 8 57 58	59 60	61 68	69 74	75 80	

**EVENT DESCRIPTION**

02 During normal operation "B" Boric Acid Transfer Pump tripped due to high pump motor temperature cutout. Unit was operating at 100% power with "A" pump available. Heat Tracing Circuits for the pump enclosure were found excessive. Settings were returned to normal and the pump returned to service. A previous occurrence was reportable occurrence 76-11. (HBR RO 76-19)

SYSTEM CODE	CAUSE CODE	COMPONENT CODE	PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER	VIOLATION
<span style="border: 1px solid black; padding: 0 5px;">07</span> <span style="border: 1px solid black; padding: 0 5px;">P</span> <span style="border: 1px solid black; padding: 0 5px;">C</span>	<span style="border: 1px solid black; padding: 0 5px;">A</span>	<span style="border: 1px solid black; padding: 0 5px;">P</span> <span style="border: 1px solid black; padding: 0 5px;">U</span> <span style="border: 1px solid black; padding: 0 5px;">M</span> <span style="border: 1px solid black; padding: 0 5px;">P</span> <span style="border: 1px solid black; padding: 0 5px;">X</span> <span style="border: 1px solid black; padding: 0 5px;">X</span>	<span style="border: 1px solid black; padding: 0 5px;">N</span>	<span style="border: 1px solid black; padding: 0 5px;">C</span> <span style="border: 1px solid black; padding: 0 5px;">3</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">N</span>
7 8 9 10 11	12 17	43	44 47	48	

**CAUSE DESCRIPTION**

08 Circuits EP2 (Primary) and ES2 (Secondary) for heater strips in "B" Boric Acid Transfer Pump enclosure were found set too high. The pump was not insulated properly and through operator error the heat tracing circuits were raised excessively causing the

FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">11</span> <span style="border: 1px solid black; padding: 0 5px;">E</span>	<span style="border: 1px solid black; padding: 0 5px;">1</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	<span style="border: 1px solid black; padding: 0 5px;">A</span>	Operator Surveillance
7 8 9 10 12 13	44 45	46	80	

FORM OF ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE
<span style="border: 1px solid black; padding: 0 5px;">12</span> <span style="border: 1px solid black; padding: 0 5px;">Z</span>	<span style="border: 1px solid black; padding: 0 5px;">Z</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7 8 9 10 11	44 45	80	

**PERSONNEL EXPOSURES**

NUMBER	TYPE	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">13</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">Z</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7 8 9 11 12	13	80

**PERSONNEL INJURIES**

NUMBER	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">14</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span> <span style="border: 1px solid black; padding: 0 5px;">0</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7 8 9 11 12	80

**OFFSITE CONSEQUENCES**

NUMBER	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">15</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7 8 9	80

**LOSS OR DAMAGE TO FACILITY**

TYPE	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">16</span> <span style="border: 1px solid black; padding: 0 5px;">Z</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7 8 9 10	80

**PUBLICITY**

NUMBER	DESCRIPTION
<span style="border: 1px solid black; padding: 0 5px;">17</span>	<span style="border: 1px solid black; padding: 0 5px;">NA</span>
7 8 9	80

**ADDITIONAL FACTORS**

18 (Cause Description Cont'd) high pump motor temperature trip. Setpoints were reduced and the pump returned to service.

NAME: J. B. McGirt

PHONE: 803-332-1351

Supplementary Information For  
Reportable Occurrence 76-19

1. Report No: 50-261/76-19
- 2a. Report Date: November 16, 1976
- 2b. Occurrence Date: October 29, 1976
3. Facility: H. B. Robinson Unit No. 2  
Hartsville, South Carolina 29550
4. Identification of Occurrence:

At 0832 hours on October 29, 1976, "B" Boric Acid Transfer Pump was found not operating although it's stop/start switch was in the start position. This is a violation of paragraph 3.2.2 (b) of the Technical Specifications and constitutes a reportable occurrence in accordance with Technical Specifications paragraph 6.9.2.b.2.

5. Conditions Prior to Occurrence:

No unusual conditions prevailed prior to the occurrence. The plant was at steady state and 100% power level. "B" Boric Acid Transfer Pump was selected to run and in operation.

6. Description of Occurrence:

At 0832 hours on October 29, 1976, "B" Boric Acid Transfer Pump was found not running although it's stop/start switch was in the start position. After investigation of the problem, the apparent cause was that the boric acid heat tracing circuits were set too high causing the motor thermal overload trip. "A" Boric Acid Transfer Pump was available for operation. After resetting the heat tracing thermostats, the "B" Boric Acid Transfer Pump motor was allowed to cool and restarted for satisfactory operation.

7. Designation of Apparent Cause of Occurrence:

The apparent cause was that the Boric Acid Heat Tracing Circuits for "B" Boric Acid Transfer Pump were set too high causing the motor thermal overload trip. The pump was not insulated properly and through operator error the Boric Acid Heat Tracing Circuits raised excessively.

8. Analysis of Occurrence:

The failure of "B" Boric Acid Transfer Pump was from an operator error. Corrective actions being taken are considered adequate to prevent subsequent failures. There weren't any adverse effects to plant operation or to public health and safety.



9. Corrective Action:

The "B" Boric Acid Transfer Pump heat tracing thermostats were reset. The transfer pump's motor was allowed to cool and then restarted with satisfactory operation. The transfer pump is to be properly insulated and operators instructed to take special attention when adjusting the heat tracing circuits.

10. Failure Data:

A previous failure of "B" Boric Acid Transfer Pump occurred April 12, 1976 and reported under reportable occurrence 76-11.

U.S.A. E.C.  
REGULATORY OPERATIONS  
REGION II  
ATLANTA, GA.

Nov 29 10 18 AM '76