



Carolina Power & Light Company  
May 10, 1978

REGULATORY DOCKET FILE COPY

FILE: NG-3516 (R)

SERIAL: GD-78-1301

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

U.S. NRC  
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RECEIVED DISTRIBUTION  
SERVICES UNIT

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET 50-261  
LICENSE NO. DPR-23  
LICENSEE EVENT REPORT 78-09

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:as

Attachment

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

781320168

A002  
5/11

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6 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 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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CON'T

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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | 'B' Auxiliary Feedwater Pump failed to start upon loss of Main Feedwater Pressure at

0 3 | 0953 hours, April 11, 1978. Manual attempts to start 'B' AFW Pump from the RTGB were

0 4 | unsuccessful. 'A' AFW Pump was operable at this time. This constitutes a reportable

0 5 | occurrence per Technical Specifications Paragraph 6.9.2.b.2. (HBR2-RO-78-09)

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17 | LER/RO REPORT NUMBER | 7 | 8 | 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 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

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CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | A worn circuit breaker trip arm caused the problem. The part was replaced and

1 1 | adjusted. 'B' AFW Pump was then satisfactorily tested in the automatic and manual

1 2 | modes. 'B' AFW Pump was returned to service at 0151 hours, April 12, 1978.

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1 5 | C | 28 | 0 | 0 | 0 | 29 | NA | 30 | A | 31 | Operator Observation | 32

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1 6 | Z | 33 | Z | 34 | NA | 35 | NA | 36

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1 8 | 0 | 0 | 0 | 40 | NA | 41

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1 9 | Z | 42 | NA | 43

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2 0 | N | 44 | NA | 45

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NAME OF PREPARER R. B. Starkey, Jr.

PHONE: (803) 332-1351

SUPPLEMENTAL INFORMATION  
FOR  
REPORTABLE OCCURRENCE 78-09

1. Report No.: 50-261/78-09
- 2a. Report Date: April 28, 1978
- 2b. Occurrence Date: April 11, 1978
3. Facility: H. B. Robinson Unit No. 2, Hartsville, South Carolina 29550
4. Identification of Occurrence: At 0953 hours on April 11, 1978, while performing low power physics testing at 0% power, 'B' Auxiliary Feedwater Pump failed to start on loss of Main Feedwater Pressure. Manual attempts to start the pump from the RTGB were unsuccessful. '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 loss of Main Feedwater Pressure at 0953 hours, April 11, 1978. Attempts to manually start the pump from the RTGB were unsuccessful. 'B' AFW Pump was declared out of service with 'A' AFW Pump operable. Inspection revealed that the pump's main circuit breaker was not closing properly. Repairs and adjustments were made to the instantaneous trip mechanism lever in the circuit breaker after which 'B' AFW Pump started satisfactorily in both the automatic and manual control modes. 'B' AFW Pump was returned to service at 0151 hours on April 12, 1978.
7. Designation of Apparent Cause of Occurrence: 'B' Motor Driven AFW Pump's circuit breaker was attempting to close upon command but the instantaneous trip mechanism lever had worn at the pivot points. The lever arm was replaced and properly adjusted and the breaker re-installed in its cabinet. 'B' AFW Pump was then tested in both automatic and manual modes and performed satisfactorily. The problem was due to mechanical failure of a circuit breaker component.
8. Analysis of Occurrence: The worn pivots on the trip lever arm caused the arm to become lodged in such a position that the interlock mechanism was actuated. This allowed the breaker to trip out immediately upon trying to close, thus not closing at all. No limiting conditions for operation were violated.

SUPPLEMENTAL INFORMATION  
FOR  
REPORTABLE OCCURRENCE 78-09

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9. Corrective Action: The worn trip lever arm was replaced and the new one adjusted to trip properly. The breaker was returned to its cabinet and 'B' AFW Pump was tested satisfactorily and returned to service. No future corrective action was deemed necessary since this appeared to be a normal case of wear and replacement parts were on hand. 'A' AFW Pump's circuit breaker was inspected after 'B' was returned to service and found to have signs of some wear but was not deemed excessive or requiring any service at this time. In addition, a sampling of other breakers of this type and service supplying safety-related equipment will be inspected for wear.
10. Failure Data: No previous occurrence of this type has been recorded at the plant.