

SUPPLEMENTAL INFORMATION FOR
LICENSEE EVENT REPORT 83-004

I. Cause Description and Analysis

On April 19, 1983, at 2208 hours, with the unit at 0% power following a reactor trip, "A" and "B" motor driven Auxiliary Feedwater (AFW) pumps started automatically as required. At 2210 hours, "B" AFW pump tripped, and an investigation was immediately initiated. Visual inspection of "B" AFW pump breaker revealed no damage, and the breaker appeared not to have tripped on overcurrent. Periodic Test 22.1A (Auxiliary Feedwater System Component Test) was performed at 0214 hours on April 20, 1983. As required by the test procedure, the pump casing was vented prior to running the pump. When this step was performed, a significant amount of vapor was released from "B" AFW pump casing. It is, therefore, believed that the trip of "B" AFW pump was due to low discharge pressure caused by pump cavitation resulting from a buildup of vapor inside the pump casing.

Following satisfactory completion of the above test on "B" AFW pump, "A" AFW pump was tested at 0214 hours on April 20, 1983. There was no release of vapor when the pump casing was vented, and the test was completed satisfactorily. During a later examination of both pumps on April 20, 1983, the pump temperature was found to be approximately 120°F. This temperature indicates the existence of slight backleakage of hot water through the discharge gate valves from the discharge lines into the pump casings. Both pumps were again vented; however, no vapors were present.

This event resulted in operation in a degraded mode permitted by the Limiting Condition for Operation as defined by Technical Specification 3.4.4 which is reportable pursuant to 6.9.2.b.2. During this event, the redundant Motor Driven AFW pump and the Steam Driven AFW pump were operational and capable of supplying the necessary feedwater. For this reason, there was no threat to the public health and safety.

II. Corrective Action

"B" AFW pump was tested in accordance with Periodic Test 22.1A and performed satisfactorily. "B" AFW pump was returned to service at 1815 hours on April 20, 1983.

III. Corrective Action to Prevent Recurrence

Investigation of this event is continuing in an effort to determine the cause of the backleakage. Any corrective actions determined to be necessary as a result of this investigation will be provided as a supplement to this report. In the interim, a special procedure has been implemented to vent the Motor Driven AFW pump casings on a routine basis. This procedure requires the venting to be performed every four (4) hours with a requirement to increase the venting frequency to an hourly basis should water vapor be present. The hourly venting will then continue until it is evident the pump is remaining acceptably cool and revert back to the four hour venting interval.



Carolina Power & Light Company

REG. REGION II
ATLANTA, GEORGIA

83 MAY 23 10:35
H. B. ROBINSON STEAM ELECTRIC PLANT
POST OFFICE BOX 790
HARTSVILLE, SOUTH CAROLINA 29550

MAY 18 1983

Robinson File No: 13510C

Serial: RSEP/83-632

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

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
LICENSEE EVENT REPORT 83-004

Dear Mr. O'Reilly:

In accordance with Section 6.9.2 of the Technical Specifications for the H. B. Robinson Steam Electric Plant, Unit 2, the enclosed Licensee Event Report is submitted. This report fulfills the requirements 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.

Very truly yours,

R. B. Starkey, Jr.
General Manager

H. B. Robinson SEG Plant

HTC:FMG:JMC:CWC/bss

Enclosure

cc: R. C. DeYoung (30)
R. A. Hartfield (3)

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