

**CP&L**

**Carolina Power & Light Company**

Brunswick Steam Electric Plant  
P. O. Box 10429  
Southport, NC 28461

April 9, 1981

FILE: B09-13516  
SERIAL: BSEP/81-0786

Mr. James P. O'Reilly, Director  
U. S. Nuclear Regulatory Commission  
Region II, Suite 3100  
101 Marietta Street N.W.  
Atlanta, GA 30303



BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 1  
DOCKET NO. 50-325  
LICENSE NO. DPR-71  
LICENSEE EVENT REPORT 1-81-36

Dear Mr. O'Reilly:

In accordance with Section 6.9.1.9c of the Technical Specifications for Brunswick Steam Electric Plant, Unit No. 1, the enclosed 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.

Very truly yours,

A handwritten signature in cursive script, appearing to read "C. R. Dietz".

C. R. Dietz, General Manager  
Brunswick Steam Electric Plant

RMP/mcg

Enclosure

cc: Mr. R. A. Hartfield  
Mr. V. Stello, Jr. ✓

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5/1/1

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LER 1-81-36 ATTACHMENT

Facility: BSEP Unit No. 1

Date: 3-15-81

The differential pressure switch used to control the opening of the vacuum breakers, Barton Model No. 289A, is a "(-)5-0-(+)5" psid instrument. The instrument is connected such that a positive pressure in the torus with respect to the Reactor Building will cause the indication to move toward the -5 psid indication. A vacuum in the torus will cause the instrument to read in the +5 psid direction. The technical specifications state that the setpoint for these instruments be  $-0.45 \pm 0.05$  psid; therefore the calibration procedure was written to set the switch at  $-0.45 \pm 0.05$  psid as read on the actuation instrument. Due to the piping arrangement to the switch, this was incorrect. A check of both switches on Unit Nos. 1 and 2 determined that they had all been calibrated with the incorrect procedure. Following a thorough investigation to ensure accuracy, the calibration procedure was revised and all four switches were calibrated correctly and returned to service. During the investigation, it was noted that the accuracy of the meter is  $\pm 0.5\%$  of full scale, which equates to the accuracy required by the calibration. An Engineering Work Request has been submitted for engineering to determine whether a smaller span differential pressure switch (with an accuracy and setpoint repeatability better than  $\pm 0.05$  psid) could better serve this application to ensure technical specification compliance.

The modification installing these switches and the automatic opening valves (V16 and V17) was installed by a plant modification in 1979 and the switches were placed on an 18-month calibration cycle. Due to this occurrence and a similar occurrence reported in LER 2-81-14, the calibration frequency for these switches has been reduced to quarterly until reliability for a longer periodicity calibration is assured.

**POOR ORIGINAL**