U. S. NUCLEAR REGULATORY COMMISSION NRC FORM 366 (7.77) UPDATE REPORT: LICENSEE EVENT REPORT PREVIOUS REPORT DATE: 8/18/83 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) CONTROL BLOCK: 25 26 0 0 0 10 0 LICENSE LICENSE NUMBER CON'T 80621849 REPORT 0 8 3 4 (7) 0 7 2 0 1 (6) 0 5 SOURCE DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) Routine surveillance during unit power operation revealed that RWCU System differential 0 2 flow indicator, 2-G31-R615, was indicating high. R615 provides an indicator for one of 03 two parallel outputs from RWCU System summer circuit, 2-G31-K604, which receives its 04 input from three RWCU System flow transmitters, 2-G31-FT-N012, N036, and N041. This 0 5 event did not affect the health and safety of the public. 0 6 0 7 Technical Specifications Table 3.3.2-1, Item 3a, 6.9.1.9b 0 8 COMP CODE CAUSE CAUSE VALVE CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE (16) (13) (15 D B (12 A 0 9 REVISION REPORT SEQUENTIAL OCCURRENCE REPORT NO. CODE TYPE NO. LER RO 013 1 REPORT 16 16 NUMBER 30 PRIME COMP COMPONENT ATTACHMENT NPRD-4 ACTION FUTURE METHOD EFFECT ON PLANT HOURS (22) FORM SUB SUPPLIER MANUFACTURER 123 Y 24 0 8 N (25 0 0 0 18) X (20) CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) The design of the sensing lines to FT-NO41 allowed air to become entrapped in high 1 0 points of the lines and cause a calibration shift in the transmitter. The sensing 1 1 1 lines to FT-NO41 were vented, and the transmitter, Model 555, was returned to service. 1 2 Plant Engineering has been requested to evaluate modifying the sensing lines to all 1 3 three transmitters to eliminate the air entrapment problem. 4 METHOD OF (30) STATUS DISCOVERY DESCRIPTION (32) OTHER STATUS % POWER (28) (31) Operation Even 5 9 80 ACTIVITY CONTENT LOCATION OF RELEASE (36) AMCUNT OF ACTIVITY (35) RELEASED OF RELEASE NA 33 Z 34 NA 6 80 10 PERSONNEL EXPOSURES DESCRIPTION (39) NUMBER TYPE NA A (38) 0 0 8407020350 84062 PERSONNEL INJUPIES PDR ADOCK 05000324 DESCRIPTION (41) PDR S NUMBER (40) NA 0 0 80 LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION NA (42)80 NRC USE ONLY PUBLICITY DESCRIPTION (45) SSUEU-1(-) 11111 N NA 80 -68 69 (919)457-952 M. J. Pastva, Jr. PHONE: NAME OF PREPARER __

LER ATTACHMENT - RO NO. 2-83-66

Facility: BSEP Unit 2

Event Date: July 20, 1983

This event occurred when the instrument indication of RWCU System differential flow indicator 2-031-R615, General Electric Model 180, went high. Three RWCU System flow transmitters, 2-G31-FT-N012, N036, and N041, one on the RWCU System suction line, and one each on the two RWCU System discharge lines, feed an RWCU System summing circuit, 2-G31-FY-K604. The summing circuit takes the system suction flow and compares it with the combined system discharge flow to produce a differential flow signal to the RWCU System isolation circuits. 2-G31-R615 is a direct realing indicator off one of the two parallel signals from the summer.

This event resulted from a shift in the calibration of the FT-N041 caused by entrapped air in the sensing lines of the transmitter. Due to the design of the sensing lines to the N041, air can be entrapped in high points of the lines during periods when the PWCU System is depressurized for routine RWCU System filter demineralizer precoating or during maintenance of the system. This condition can also affect the FT-N012 and FT-N036 transmitters, as their respective sensing lines are similarly designed although, in this case, air was not entrapped in their sensing lines.

The entrapped air in the sensing lines of FT-N041, General Electric Model 555, was removed, and the transmitter was returned to service. As a result of this event, plant Engineering has been requested to evaluate modifying the instrument sensing lines of the FT-N012, N036, and N041 transmitters to eliminate the sensing line high point air entrapment problem.



Carolina Power & Light Company

84 JUN 25

Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461-0429

June 21, 1984

FILE: B09-13510C SERIAL: BSEP/84-1479

Mr. James P. O'Reilly, Administrator U. S. Nuclear Regulatory Commission Suite 2900 101 Marietta Street N.W. Atlanta, GA 30323

> BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2 DOCKET NO. 50-324 LICENSE NO. DPR-62 SUPPLEMENT TO LICENSEE EVENT REPORT 2-83-66

Dear Mr. O'Reilly:

In accordance with Section 6.9.1.9b of the Technical Specifications for Brunswick Steam Electric Plant Unit 2, the enclosed supplemental Licensee Event Report is submitted. The original report fulfilled the requirement for a written report within 30 days of a reportable occurrence and both are in accordance with the format set forth in NUREG-0161, July 1977.

Very truly yours,

Cling

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

RMP/sd1/LETPS1

Enclosure

cc: Mr. R. C. DeYoung NRC Document Control Desk



TE-22.1.