NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: [| | | | |] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | N C B E P 2 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 1 1 (4) | | (5)

LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE | CAT

CON'T 0 1 | REPORT SOURCE L (6) | DOCKET NUMBER 0 5 0 - 0 3 2 4 (7) | EVENT DATE 0 8 2 4 8 3 (8) | REPORT DATE 0 9 2 1 8 3 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 Routine surveillance during unit power operation revealed that RWCU System differential
0 3 flow indicator 2-G31-R615 was indicating high. R615 provides an indiciation for one of
0 4 two parallel outputs from RWCU System summer circuit 2-G31-K604 which receives its
0 5 input from three RWCU System flow transmitters, 2-G31-FT-N012, N036, and N041. This
0 6 event did not affect the health and safety of the public.
0 7
0 8 Technical Specifications Table 3.3.2-1, Item 3a, 6.9.1.9b

0 9

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
S D (11)	B (12)	A (13)	I N S T R U (14)	T (15)	Z (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 3	—	0 7 3	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
X (18)	X (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	N (25)	G 0 8 0 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The design of the sensing lines to FT-N041 allowed air to become entrapped in high
1 1 points of the lines and cause a calibration shift in the transmitter. The sensing
1 2 lines to FT-N041 were vented and the transmitter, Model No. 555, was returned to
1 3 service. Plant Engineering has been requested to evaluate modifying the sensing lines
1 4 to all three transmitters to eliminate the air-entrapment problem.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	E (28)	1 0 0 (29)	NA	A (31)	Operator Surveillance

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1 6	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
1 7	0 0 0 (37)	A (38)	NA

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
1 8	0 0 0 (40)	

8310030422 830921
PDR ADOCK 05000324
S PDR

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	NA

IE22

PUBLICITY

	ISSUED	DESCRIPTION (45)	NRC USE ONLY
2 0	N (44)	NA	

NAME OF PREPARER M. J. Pastva, Jr. PHONE: 919-457-9521

GPO 917-926

LER ATTACHMENT - RO #2-83-73

Facility: BSEP Unit No. 2 Event Date: August 24, 1983

This event occurred when the instrument indication of RWCU System differential flow indicator 2-G31-R615, General Electric Model No. 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 reading 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 RWCU 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 No. 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.

CP&L

Carolina Power & Light Company

83 SEP 26 A8:49

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

September 21, 1983

FILE: B09-13510C
SERIAL: BSEP/83-3129

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

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-324
LICENSE NO. DPR-62
LICENSEE EVENT REPORT 2-83-73

Dear Mr. O'Reilly:

In accordance with Section 6.9.1.9b of the Technical Specifications for Brunswick Steam Electric Plant, Unit No. 2, 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,

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

RMP/clh/LETJO3

Enclosure

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

OFFICIAL COPY

IE 22
1/1