NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Brunswick Steam Electric Plant Unit 1	0 5 0 0 0 3 2 5	1 OF 0 1

TITLE (4)

Automatic Actuation of Control Building Emergency Air Filtration Train B

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
										0 5 0 0 0
1 0	2 9	8 4	8 4	— 0 2 8	— 0 0	1 1	2 7	8 4		0 5 0 0 0

OPERATING MODE (9)	1
POWER LEVEL (10)	0 1 3

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: *(Check one or more of the following)* (11)

	20.402(b)		20.405(c)
	20.405(a)(1)(i)		50.36(c)(1)
	20.405(a)(1)(ii)		50.36(c)(2)
	20.405(a)(1)(iii)		50.73(a)(2)(i)
	20.405(a)(1)(iv)		50.73(a)(2)(ii)
	20.405(a)(1)(v)		50.73(a)(2)(iii)

X	50.73(a)(2)(iv)		73.71(b)
	50.73(a)(2)(v)		73.71(c)
	50.73(a)(2)(vii)		OTHER *(Specify in Abstract below and in Text, NRC Form 366A)*
	50.73(a)(2)(viii)(A)		
	50.73(a)(2)(viii)(B)		
	50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
M. J. Pastva, Jr., Regulatory Technician	9 1 9 — 4 5 7 — 9 5 2 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
X	I L	I M O D	G 0 8 0	No							

SUPPLEMENTAL REPORT EXPECTED (14)

		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
	YES *(If yes, complete EXPECTED SUBMISSION DATE)*				
X	NO				

ABSTRACT *(Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines)* (16)

On October 29, 1984, at 1430, train B of the Units 1 and 2 common Control Building Emergency Air Filtration (CBEAF) System automatically started due to an instrument upscale actuation of area radiation monitor trip module 1-D22-RM-K600-1 for the units' common Control Room. Train B was reset and returned to standby. At the time, a normal radiation reading of 0.06 mR/hr was indicated. In addition, Units 1 and 2 were operating at respective power levels of 13 and 13.4 percent. The redundant CBEAF System train A was in standby.

This event resulted from a failure of the actuation relay, K2, in the K600-1 upscale trip logic circuitry and its respective driving transistor, Q9, which electrically shorted due to failure of K2. The cause of the K2 failure could not be determined. K2 and Q9 were replaced and K600-1, General Electric Part No. 129B2802G17, was returned to service.

The failure of K600-1 would have prevented an automatic initiation of the CBEAF System due to high radiation in the Control Room at the time of the event. However, the respective Control Building ventilation air intake radiation monitor trip modules, 1-D22-RM-K600-2 and K600-3, were operable to initiate, if required, an automatic start of the CBEAF System.

Actuation of a CBEAF System train places the affected train in its design mode of operation.

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CP&L

Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429
November 27, 1984

FILE: B09-13510C
SERIAL: BSEP/84-2516

NRC Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
DOCKET NO. 50-325
LICENSE NO. DPR-71
LICENSEE EVENT REPORT 1-84-28

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, 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-1022, September 1983.

Very truly yours,

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

MJP/smp/LETPS1

Enclosure

cc: Mr. R. C. DeYoung
Mr. J. P. O'Reilly

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