

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Brunswick Steam Electric Plant Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 5	PAGE (3) 1 OF 0 2
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TITLE (4) Automatic Isolation of Units 1 and 2 Common Control Building Heating, Ventilating, Air Conditioning System and Emergency Air Filtration System During Routine Maintenance

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		MONTH	DAY	YEAR	FACILITY NAMES		
0 5	0 2	8 8	0 1 0	0 0		0 5	2 5	8 8	Brunswick Unit 2		
									DOCKET NUMBER(S)		
									0 5 0 0 0 3 2 4		
									0 5 0 0 0 0 0 0		

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)							
POWER LEVEL (10) 1 0 0	20.402(b)		20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)		73.71(b)	
	20.405(a)(1)(i)		50.38(c)(1)		50.73(a)(2)(v)		73.71(c)	
	20.405(a)(1)(ii)		50.38(c)(2)		50.73(a)(2)(viii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)	
	20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)			
	20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)			
	20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)			

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME M. J. Pastva Jr., Regulatory Compliance Specialist		AREA CODE 9 1 9	4 5 7 - 2 3 1 5

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NFRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NFRDS

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO <input type="checkbox"/>					

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

At 1310 hours on 5/2/88, the Units' 1 and 2 common Control Building Emergency Air Filtration System and common Control Building Heating, Ventilating, Air Conditioning System automatically isolated due to actuation of Unit 1 chlorine detector 1-X-AT-2979 at the units' common Chlorination System chlorine loading (tank car storage) area. Unit 1 was operating at 100%, while Unit 2 was operating at 77%. The respective Unit 2 chlorine detector, 2-X-AT-2979, did not actuate, and there was no evidence of a chlorine leak. Routine (weekly) preventive maintenance (PM) of the chlorine detectors was in progress, with electrolyte solution being added to the 1-X detector reservoir in accordance with procedure OPM-DET001. The subject detector alarm subsequently cleared and the affected systems were returned to their normal configuration. The safety consequences of this event were minimal.

The cause of this event could not be determined. It is felt the detector actuation may have resulted from addition of the electrolyte solution, as experience with these type detectors has shown they are sensitive to minor disturbances.

No further action is planned regarding this event, as it is considered an isolated occurrence.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Brunswick Steam Electric Plant Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 5	LER NUMBER (5)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
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TEXT (if more space is required, use additional NRC Form 366A's) (17)

Initial Conditions

Unit 1 was operating at 100% power, while Unit 2 was operating at 77% power. The units' common Control Building (EIIS/NA) Heating, Ventilating, Air Conditioning (CB HVAC) System (EIIS/VI) was aligned in the normal mode of operation. The units' common Control Building Emergency Air Filtration (CBEAF) System (EIIS/VI) was aligned in normal standby readiness. Routine (weekly) preventive maintenance (PM) of the chlorine loading (tank car storage) area chlorine detectors of both units, 1(2)-X-AT-2979 (EIIS/VI/DET), was in progress in accordance with PM procedure OPM-DET001.

Event Description

At 1310 hours on May 2, 1988, while adding electrolyte solution to the 1-X-AT-2979 detector reservoir, the detector unexpectedly actuated, and the chlorine loading area high chlorine alarm annunciation (EIIS*/ANN) was received in the Control Room (EIIS/NA), concurrent with automatic isolation of the CB HVAC System and automatic starting logic lockout of the CBEAF System (per design). Following receipt of the annunciation, the alarm condition subsequently cleared and shortly thereafter, the incurred isolation signals were reset and the affected systems were returned to their normal configuration.

Event Investigation

The cause of this event could not be determined. This type chlorine detector, Wallace and Tiernan Part No. 50-125, has been found to exhibit sensitivity to disturbances. Consequently, the detector actuation may have resulted from inadvertent movement of the detector probe during addition of the electrolyte solution to the detector reservoir. The procedure used to perform this maintenance is performed weekly on the six chlorine detectors. Experience has shown that detector actuation does not routinely occur during performance of the procedure (first such isolation in over a year). The plant safety consequences of this event were minimal.

Corrective Action

Based upon the results of the investigation and a review of documentation which shows this event is an isolated occurrence, further corrective action regarding this event is not required.

Event Assessment

Occurrence of this event under other reasonable and credible alternative conditions would not have been more severe.

*EIIS System Description Unavailable



Carolina Power & Light Company

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

May 25, 1988

FILE: B09-13510C
SERIAL: BSEP/88-0532

10CFR50.73

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

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
DOCKET NO. 50-325
LICENSE NO. DPR-71
LICENSEE EVENT REPORT 1-88-010

Gentlemen:

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

Very truly yours,

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

MJP/srg

Enclosure

cc: Dr. J. N. Grace
Mr. E. D. Sylvester
BSEP NRC Resident Office

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