

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Brunswick Steam Electric Plant Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 2 5 1 OF 0 1										PAGE (3) 1 OF 0 1				
TITLE (4) Automatic Isolation of the Units 1 and 2 Common Control Building Heating Ventilating Air Conditioning System Due to Chlorine Detection Alarm																								
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 Brunswick Unit 2					DOCKET NUMBER(S) 0 5 0 0 0 3 2 4										
1	0	1	3	8	5	8	5	7	0	5	7	0	0	1	1	0	8	8	5	0 5 0 0 0 3 2 4				
OPERATING MODE (9) 5		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)																						
POWER LEVEL (10) 0 0 1 0		20.402(b)				20.408(a)				X 90.73(a)(2)(iv)				73.71(b)										
		20.408(a)(1)(i)				90.38(a)(1)								73.71(a)										
		20.408(a)(1)(ii)				90.38(a)(2)				90.73(a)(2)(v)				OTHER (Specify in Abstract below and in Text, NRC Form 305A)										
		20.408(a)(1)(iii)				90.73(a)(2)(i)				90.73(a)(2)(vii)(A)														
		20.408(a)(1)(iv)				90.73(a)(2)(ii)				90.73(a)(2)(viii)(B)														
		20.408(a)(1)(v)				90.73(a)(2)(iii)				90.73(a)(2)(ix)														
LICENSEE CONTACT FOR THIS LER (12)												TELEPHONE NUMBER												
NAME M. J. Pastva, Jr., Regulatory Technician												AREA CODE 9 1 9 4 5 7 1 - 2 3 1 5												
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																								
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC														
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 10/13/85, at 1829, an automatic isolation of the Units 1 and 2 common Control Building Heating Ventilating Air Conditioning (CB HVAC) System occurred, per design, due to actuation of the system air intake plenum chlorine detector, 2X-AT-2977. The isolation was revealed through appropriate Control Room alarm annunciations and indications. An appropriate plant area inspection showed chlorine alarm conditions did not exist. Within seven minutes, the detector was reset and the CB HVAC System returned to operation. Unit 1 was in a refuel/maintenance outage and Unit 2 was operating at 94%.

The cause of the event is attributed to a spurious actuation of the 2X detector. The detector was reset and returned to service.

Design problems affecting the CB HVAC System and the chlorine detectors were previously addressed in LER 1-84-033. Corrective actions include measures to stabilize detector electrolyte drip rate, decreasing detector sensitivity within design constraints, and addition of an algicide to combat the algae growth in the detector drip tubes. The effects of these corrective actions are being evaluated by Technical Support to ensure the spurious actuation problem is resolved. As a result of prior similar events involving the isolation instrumentation to the CB HVAC System, additional plant surveillance requirements were imposed to better ensure operability of the chlorine detectors and the CB HVAC until implementation of planned corrective actions.

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Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429
November 8, 1985

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Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
DOCKET NO. 50-325
LICENSE NO. DPR-71
LICENSEE EVENT REPORT 1-85-057

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/ag

Enclosure

cc: Dr. J. N. Grace

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