Carolina Power & Light Company BADES FERNE VIOLENCE AND TOTAL PROPERTY SAME Brunswick Nuclear Project P. O. Box 10429 Southport, N.C. 28461-0429 MAR 3 0 1992

FILE: B09-13510C 10CFR50.73

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

> BRUNSWICK STEAM ELECTRIC PLANT UNIT 1 & 2 DOCKET NO 50-325 & 50-324 LICENSE NO. DFR-71 & DFR-62 LICENSEE EVENT PEPORT 1-92-008

Gentlemen:

In accordance with Title 10 of 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 stabilitied in accordance with the format set forth in NUREG-1022, September 1983.

Very truly yours,

Kelllonga p

J. W. Spencer, General Manager Brunswick Nuclear Project

RK/

Enclosure

Mr. S. D. Ebneter Mr. N. B. Le BSEP NPC Resident Office

NRC FORM 2F6

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED DMB NO. 3150-0104

EXPIRES: 4/30/92

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P. 330), U.F. NUCLEAR REGULATIONY COMMISSION, WASHINGTON, OC 2055S, AND TO THE PAPERWORK REDUCTION PROJECT (\$150-0104), OFFICE OF A ANACEMENT AND BUCKET, WASHINGTON, OC 20503.

LICENSEE EVENT REPORT (LER)

FACUTY NAME (1) Brunswick Steam Electric Plant Unit 1

05000325

PAGE (3)

BULE (4) SPURIOUS CHLORINE DETECTOR ACTUATION CAUSED CONTROL BUILDING VENTILATION SYSTEM AUTOMATIC ISOLATION

EVENT DATE (5)				LER NUMBER (6)					REPORT DATE (7)			OTHER PACILITIES INVOLVED (B)				
MONTH	DAY	YEAR	YEAR		SEQ. NO.		REV. NO.	MONTH	DAY	YEAR	FACILIT	Y NAME		DOCKET NUMBER		
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							LICENSEE CO	MTACT FOR	HIS LER (12)						

NAME Rhonda S. Knight, Regulatory Compliance Spacialist

TELEPHONE NUMBER

(919) 457-2174

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

CAUSE	SYSTEM	COMPONENT	MANUF/CTURER	REPORTABLE TO NEADS	GAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPHOS	
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SUPPLEMENTAL REPORT EXPECTEL (14)

YES (If yes, in mojete EXPECTED SUBMISSION DATE)

X NO

DATE (15)

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

On March 2, 1992, Unit 1 was in hot shutdown and Unit 2 was operating at 78% power. The common Control Building ventilation was in normal operation. At approximately 1255, a chlorine detector which is located at the chlorine tank car loading area spuriously tripped. A Unit 2 Control Room annunciator was received for "Chlorine Loading Area Hi Chlorine". This was followed by the Control Building fans automatically tripping and the automatic closure of the normal makeup air damper. The control operator verified that the automatic actions had occurred and performed required actions per the annunciator procedure. The abnormal operating procedure (AOP) for chlorine and toxic gas emergencies was entered. At 1256, the annunciator cleared and the Control Building damper automatically opened. Redundant chlorine detectors and a physical inspection of the area indicated no evidence of a chlorine release. At 1312 the AOP was exited. At approximately 1315, the Control Building ventilation was returned to normal. The cause of the spurious chlorine detector actuation is unknown at this time. It is thought that detector 2.X.AT.2979 was the cause of the spurious actuation. This work is scheduled to be performed on or about April 11, 1992. The plan is to change out a printed circuit board and the detector. The safety significance of this event is minimal as there was not an actual chlorine event. The Control Building ventilation automatically isolated as designed and redundant detectors were available to perform the safety function.

LERs 1-89-022, 1-86-003, 1-85-064, 1-85-057, 1-85-041 reported other similar occurrences.

APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/82

ESTIMATED BURDEN PLR RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HAS, FORWARD COMMENTS REGARDING SURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20551, AND TO THE PUPERWORK REDUCTION PROJECT (3170-6104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

I	FACILITY NAME (1)	DOCKET NUMBER (2)	LEA NUMBER (6)		PAGE (3)
	Brunswick Steam Electric Plant Unit 1	05000325	YE/A		SEQ NO.		PEV NO.	2
			92		008		0	

TEXT (if more space is required, use adultional NAC Form 366A's) (17)

INITIAL CONDITIONS

On March 2, 1992, Unit 1 was in hot shutdown and Unit 2 was operating at 78% power. The common Control Building ventilation was in normal operation.

EVENT NARRATIVE

At approximately 1255, a chlorine detector which is located at the chlorine tank car loading area spuriously tripped. This detector is designed to provide annunciation in the Control Room and trip functions to isolate the Units 1 and 2 common control building heating, ventilation and air conditioning system. A Unit 2 Control Room annunciator was received for "Chlorine Loading Area Hi Chlorine". This was followed by the Control Building fans automatically tripping and the automatic closure of the normal makeup air damper for the Control Building.

The control operator verified that the automatic actions had occurred and performed required actions per the annunciator procedure. The abnormal operating procedure (AOP) for chlorine and toxic gas emergencies was entered. At 1256, the annunciator cleared and the Control Building damper automatically opened. Redundant chlorine detectors and a physical inspection of the area indicated no evidence of a chlorine selease. At 1312, the AOP was exited. At approximately 1315, the Control Building ventilation was returned to normal.

CAUSE OF EVENT

The cause of the spurious chlorine detector actuation is unknown at this time. It is thought that detector 2-X-AT-2979 was the cause of the actuation.

CORRECTIVE ACTIONS

A Work Request/Job Order was initiated to troubleshoot the cause of the spurious actuation. This work is scheduled to be performed on or about April 11, 1902. The plan is to change out a printed circuit board and the detector.

SAFETY ASSESSMENT

The safety significance of this event is minimal as there was not an actual chlorine event. The Control Building ventilation automatically isolated as designed and redundant detectors were available to perform the safety function.

PREVIOUS SIMILAR EVENTS

LERs 1-89-022, 1-86-003, 1-85-064, 1-85-057, 1-85-041 similar events.

EIIS COMPONENT IDENTIFICATION

System/Component

EIIS Code

CONTROL BUILDING ENVIPONMENTAL CONTROL SYSTEM

VI

DETECTOR

VI/DET