

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									
TITLE (4) Primary Containment Group 1 Isolation Signal During Refueling/Maintenance Outage																							
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	1	5	8	5	8	5	0	2	9	0	0	0	6	1	3	8	5	0	5	0	0	0
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																					
5		20.402(b)				20.406(e)				<input checked="" type="checkbox"/> 50.73(a)(2)(v)				73.71(b)									
POWER LEVEL (10)		20.406(a)(1)(i)				50.38(e)(1)				<input type="checkbox"/> 50.73(a)(2)(v)				73.71(e)									
Q 0 0		20.406(a)(1)(ii)				50.38(e)(2)				<input type="checkbox"/> 50.73(a)(2)(viii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.406(a)(1)(iii)				50.73(a)(2)(i)				<input type="checkbox"/> 50.73(a)(2)(viii)(A)													
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				<input type="checkbox"/> 50.73(a)(2)(viii)(B)													
		20.406(a)(1)(v)				50.73(a)(2)(iii)				<input type="checkbox"/> 50.73(a)(2)(x)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME M. J. Pastva, Jr., Regulatory Technician										TELEPHONE NUMBER 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 NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC													
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO											

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

On 5-15-85, at 1600, a Unit 1 primary containment Group 1 isolation signal occurred while the unit main steam line isolation valves (MSIVs) were closed. Unit 1 was in a refuel/maintenance outage. Replacement of the MSIV logic HFA relay, B21-K22, was in progress when an accidental shorting of a test lead to K22 caused logic circuitry fuse F6C to blow, initiating a channel A logic trip signal. Prior to this event, a channel B logic trip signal had been sealed in due to a blown fuse.

This event is attributed to personnel error during replacement and wire terminations. The fuses were replaced and the Group 1 was reset.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Brunswick Steam Electric Plant Unit 1	0 5 0 0 0 3 2 5 8 5	-0	2 9	-0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On 5-15-85, at 1600, a Unit 1 primary containment Group 1 isolation signal occurred while the unit main steam line isolation valves (MSIVs) were closed. Unit 1 was in a refuel/maintenance outage. Replacement of the MSIV logic HFA relay, B21-K22, was in progress when an accidental shorting of a test lead to K22 caused logic circuitry fuse F6C to blow, initiating a channel A logic trip signal.

An investigation into why this blown fuse gave an isolation determined that fuse F6B in the B logic train was also blown. Together, these two blown fuses caused the Group 1 isolation. Further investigation into the blown F6B fuse determined that the fuse had apparently blown the previous day when the B21-K23 relay was replaced. In addition, it was determined that the wires to terminals 2 and 4 of relay B21-K23 had been reversed.

Both fuses were replaced and the Group 1 signal was cleared. Also, the reversed leads on B21-K23 were correctly terminated. The problems of a lead shorting and causing the fuse to be blown and reversing wires are considered personnel errors. To correct these problems, the following actions have been taken:

1. More senior personnel were assigned to the HFA relay replacement project (per IE Bulletin 84-02). These more senior technicians have been thoroughly trained in the relay replacement project scope and procedures and have been briefed on this event.
2. Additional field supervision has been assigned for the duration of the project.
3. HFA relays which had been replaced as part of the relay replacement project prior to this event have been field verified by independent sources to ensure proper termination.



Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429
June 13, 1985

FILE: B09-13510C
SERIAL: BSEP/85-1103

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 1-85-029

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/mcg

Enclosure

cc: Dr. J. N. Grace

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