

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 Signals During Unit 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	8	0	6	8	5	8	5	0	4	4	0	0	0	9	0	5	8	5	0	5	0	0	0			
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																								
5		20.402(b)					20.405(c)					<input checked="" type="checkbox"/> 50.73(a)(2)(iv)					73.71(b)									
POWER LEVEL (10)		0 0 1 0					20.405(a)(1)(i)					50.36(c)(1)					50.73(a)(2)(v)					73.71(c)				
		20.405(a)(1)(ii)					50.36(c)(2)					50.73(a)(2)(vii)					OTHER (Specify in Abstract below and in Text, NRC Form 386A)									
		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)(N)														
		20.405(a)(1)(v)					50.73(a)(2)(iii)					50.73(a)(2)(ix)														
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	MANUFAC- TURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NRC																
X	TIG	RCOG	080	No																						
SUPPLEMENTAL REPORT EXPECTED (14)																										
YES (If yes, complete EXPECTED SUBMISSION DATE)										NO							EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR					
										<input checked="" type="checkbox"/>																

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

On 8-6-85, at 1715, and 8-7-85, at 0110, Unit 1 primary containment Group 1 isolation signals occurred due to opening of the unit main turbine stop valves (SV) with low vacuum in the main condenser. In each case, Unit 1 was in a refuel/maintenance outage with the reactor defueled.

The 8-6-85 event resulted from null spring adjustment problems with the No. 2 SV. When the servo input to the valve was disconnected, the valve opened, thereby initiating the opening sequence of SVs 1, 3, and 4. The Group 1 low condenser vacuum/two open SVs criteria was thereby met. The 8-7-85 event resulted from inadvertent removal of logic circuitry card D02 for the master input of No. 2 SV to the Electrohydraulic Control (EHC) System. The No. 2 SV consequently opened, and the subject logic criteria for the incurred Group 1 signal was met.

The No. 2 SV servo unit, GE Part No. 183A2502P001, will appropriately be adjusted or replaced. Personnel involved with the removal of logic card D02 have been appropriately cautioned concerning the need for attentiveness during performance of future similar activities.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) Brunswick Steam Electric Plant Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 5 8 5 - 0 4 4 - 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					0 2	OF	0 2

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

On August 6, 1985, at 1715, and August 7, 1985, at 0110, Unit 1 primary containment Group 1 isolations occurred due to opening of the unit main turbine main steam stop valves (SV) with low vacuum in the unit main condenser. During each event, Unit 1 was in a refueling/maintenance outage with the reactor defueled.

The first event occurred during an alignment of the unit Electrohydraulic Control (EHC) System. A plant technician and a vendor technical representative were verifying proper adjustment of the null string on the No. 2 SV. When input of the valve servo unit to the valve was disconnected, the valve drifted fully open. The valve should not have opened during this evolution. The main turbine SV control logic functions such that No. 2 SV is the master to the opening of the remaining SVs 1, 3, and 4. Consequently, opening of No. 2 SV resulted in opening of SVs 1, 3, and 4. Opening of the SVs with a preexisting low vacuum condition thereby met the logic criteria for a Group 1 isolation signal and the event resulted.

The second event occurred while performing a functional test of the permissive logic to the unit main turbine main steam bypass valves. A plant technician inadvertently removed EHC logic card D02 instead of EHC logic card D01. Removal of card D01 removes the low condenser vacuum permissive logic from the bypass valves. Removal of card D02 removed the master input from No. 2 SV to SVs 1, 3, and 4. Consequently, SVs 1, 3, and 4 opened, and due to the main condenser low vacuum, the isolation resulted.

As a result of the first event, the No. 2 SV servo unit, General Electric Co. Part No. 183A2502P001, will be appropriately adjusted or replaced prior to returning Unit 1 to service.

As a result of the second event, involved personnel were counseled to be attentive while performing future similar activities.



Carolina Power & Light Company

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

September 5, 1985

FILE: B09-13510C
SERIAL: BSEP/85-1529

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 1-85-044

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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