

## 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 2										
TITLE (4) Safety Relief Valve (SRV) Setpoint Drift																									
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	2	0	8	5	8	5	0	3	3	0	1	0	8	3	0	8	5	0	5	0	0	0		
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																							
5		20.402(b)				20.405(e)				50.73(a)(2)(iv)				73.71(b)											
POWER LEVEL (10)		20.405(a)(1)(i)				50.38(e)(1)				X 50.73(a)(2)(v)				73.71(e)											
0 0 0		20.405(a)(1)(ii)				50.38(e)(2)				X 50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)											
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(vii)(A)															
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(vii)(B)															
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)															
LICENSEE CONTACT FOR THIS LER (12)																									
NAME										TELEPHONE NUMBER															
M. J. Pastva, Jr., Regulatory Technician										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															
X	A/D	R   V   T   0   2   0		Yes		X	A/D	R   V   T   0   2   0		Yes															
X	A/D	R   V   T   0   2   0		Yes		X	A/D	R   V   T   0   2   0		Yes															
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)

During a Unit 1 refuel/maintenance outage, testing of safety relief valves (SRV) in accordance with Technical Specification 3.4.2, revealed 9 of the 11 valves tested actuated at higher than allowed setpoints. The highest recorded discrepancy was 6.5% above the specified lift setpoint (a variance of  $\pm 1\%$  is allowed). Due to a diagnostic test revealing a sticking valve pilot disc on an additional SRV, it was not pop-tested. Results of the diagnostic test indicate the valve would not have lifted within the allowed variance.

Test data indicates the nine test failures resulted from friction in the valves' labyrinth seal guide areas. This is supported by an observed downward trend in the lift setpoints during subsequent test runs. The remaining test failure is attributed to corrosion induced valve pilot disc to seat sticking.

The SRVs Target Rock Corporation Model No. 7567F were refurbished, recertified, and returned to CP&L for reinstallation.

Setpoint drift is a generic problem with Target Rock two-stage SRVs at BWRs. Standard reload analysis addresses the failure of an SRV to lift. General Electric's NEDE-30476, Setpoint Drift Investigation of Target Rock Two-Stage Safety Relief Valve Final Report (proprietary information), demonstrates that adequate safety margins exist with setpoint drift up to 10.0% on all valves. CP&L is an active participant in the BWR Owners' group which is studying this item. Future actions for these valves will be evaluated based on the Owners' group findings.

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Carolina Power & Light Company

Brunswick Steam Electric Plant  
P. O. Box 10429  
Southport, NC 28461-0429  
August 30, 1985

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Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1  
DOCKET NO. 50-325  
LICENSE NO. DPR-71  
SUPPLEMENT TO LICENSEE EVENT REPORT 1-85-033

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, the enclosed Supplemental Licensee Event Report is submitted. The original report fulfilled the requirement for a written report within (30) days of a reportable occurrence and was submitted 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: NRC Document Control Desk

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