

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 8 7										PAGE (3) 1 OF 0 2	
TITLE (4) RPS Manual Scram during Testing of ADS SRV's.												OTHER FACILITIES INVOLVED (8)									
EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			FACILITY NAMES			DOCKET NUMBER(S)									
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR				0 5 0 0 0									
0 2	2 5	8 4	8 4	0 1 0	0 0 0	3 2	6	8 4				0 5 0 0 0									
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																					
OPERATING MODE (9)		1		20.402(b)		20.405(e)		50.73(a)(2)(iv)		73.71(b)											
POWER LEVEL (10)		1 5 4		20.405(a)(1)(i)		50.38(e)(1)		50.73(a)(2)(v)		73.71(c)											
				20.405(a)(1)(ii)		50.38(e)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)											
				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)(B)													
				20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)													
LICENSEE CONTACT FOR THIS LER (12)												TELEPHONE NUMBER									
NAME D.C. Wood												AREA CODE 7 1 7 5 4 2 - 3 2 4 0									
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																					
CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NPRDS											
B	8 1 3	ISO I L C 7 1 1		YES																	
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)

Unit 1 reactor was manually scrambled from 54% power when during functional testing of the automatic depressurization system Safety Relief Valves (SRV), one of the six valves stuck open and could not be closed within two minutes. It was determined that one of the three independent instrument air control valve solenoids had stuck open supplying air to the pneumatic piston which opens the SRV. The solenoid was replaced and there is no history of this type of event. The reactor scram systems operated properly and safety systems were available to mitigate any possible accident conditions.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On 2/25/84, at 1848, the Unit 1 reactor, in mode 1 at 54% power, was manually scrammed during preplanned testing of the Automatic Depressurization System (ADS) valves. The SSES Safety Relief Valve (SRV) System consists of sixteen (16) valves which function as safety-relief valves; six (6) of these valves also function as Automatic Depressurization System (ADS) valves. A preplanned test requirement was in progress to verify operability of the ADS valves wherein each ADS valve was to be manually, and sequentially, cycled. During the test sequence, the "M" SRV failed to close, and in accordance with the test procedure, a manual scram was initiated when attempts to close the SRV were unsuccessful.

Each of the ADS SRV's has three independent solenoid operated control valves. During testing of the "B" solenoid on the "M" SRV, the solenoid valve stuck open and the instrument gas pressure kept the SRV open. After two minutes of attempting to close the SRV by a procedure especially written for this activity, the reactor was manually scrammed. At one minute and twenty seconds after scram, the inboard MSIV's were closed to reduce vessel depressurization. Vessel pressure dropped from 946 PSIG to 682 PSIG during the transient. Several minutes later, the "M" SRV closed due to internal spring energy when the instrument gas header which was isolated for the test, dropped to approximately 60 PSIG. The "B" solenoid and air valve on the "M" SRV were replaced and the new solenoid was tested successfully. Investigation has found this to be a non-recurring event. The vendor will inspect the valves to determine the cause of the failure. This report may be updated pending the results of this investigation. The test was continued and the other SRV's and solenoid valves operated properly.

The ADS system is an Engineered Safety Features System serving as a backup to the HPCI system. During this event, the HPCI system was operable, as was the ADS feature of the SRV's to relieve primary system pressure. Hence, there was no increase in risk to public health and safety. Were the event to occur at full power, the procedures utilized would provide for a safe shutdown.



Pennsylvania Power & Light Company

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SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 84-010-00
ER 100450 FILE 841-23
PLA- 2148

Attached is Licensee Event Report 84-010. This event was determined reportable per 10CFR50.73 (a) (2) (i), in that a safety relief valve stuck open during preplanned testing at 54% power and a RPS manual scram was initiated to mitigate the subsequent consequences.

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DCW/gj

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