

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 8 8				PAGE (3) 1 OF 0 2									
TITLE (4) Loss of Single Train Safety System and 'B' Loop of Core Spray																							
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	2	1	6	8	5	8	5	0	0	8	0	0	0	3	1	4	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)																					
1		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)									
POWER LEVEL (10)		0 4 5				20.405(a)(1)(i)				X 50.73(a)(2)(v)				73.71(c)									
		20.405(a)(1)(ii)				50.36(c)(1)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.405(a)(1)(iii)				50.36(c)(2)				50.73(a)(2)(vii)													
		20.405(a)(1)(iii)				X 50.73(a)(2)(ii)				50.73(a)(2)(viii)(A)													
		20.405(a)(1)(iv)				50.73(a)(2)(iii)				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)																							
NAME D.J. Gandenberger										TELEPHONE NUMBER													
										AREA CODE 7 1 7 5 4 2 1 - 3 9 1 1 4													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPDs													
B	E	J	I	C	O	I	N	*		Y													
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)

On February 16, 1985 at 2345 the High Pressure Coolant Injection (HPCI) Turbine Trip and Logic power loss indicator and B Loop Core Spray Logic power loss indicator were received in the Control Room. Investigation revealed a broken lug on the negative terminal at 125 VDC panel 2D624 breaker 01 which feeds the logic for HPCI and B Loop Core Spray. Modification work was in progress in the panel when the loss of logic power occurred. Limiting Conditions for Operation were declared in accordance with Technical Specification 3.5.1 and 3.0.3. The broken lug was replaced, power was restored and the Limiting Conditions for Operation were cleared at 0225 on February 17, 1985.

* Amp Special Industries.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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

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

On February 16, 1985, a broken terminal lug on 125 VDC panel 2D624 breaker 01 resulted in the loss of logic power to HPCI and the B Loop of Core Spray. The loss of power was noticed in the Control Room when HPCI and B Loop Core Spray Logic Power Loss indication lights were received simultaneously. The broken terminal lug was the result of modification work in panel 2D624. Due to the limited space inside this and similar DC distribution panels, it is difficult to install new cables or change circuit breakers without disturbing the existing cables. When construction activities are performed in these panels it requires moving the existing cables to install new components. This repeated movement has caused bending of the terminal lugs and in some cases resulted in cracking the existing lugs.

Non-Conformance Report (NCR) 85-0025 was written on January 25, 1985, identifying this problem and initiated corrective action. On February 8 and 9, 1985 a 100% inspection of terminal lugs was conducted in 125 VDC panels 1D614, 1D624, 1D634, 1D644, 2D614, 2D624, 2D634, and 2D644 as required by the disposition to NCR 85-0025. As a result of this inspection, Work Authorizations (WA) were written to replace cracked, broken, or cold worked terminal lugs.

The negative terminal lug at panel 2D624 breaker 01 which failed on February 16, 1985, had been identified as cracked during the inspection on February 8 and 9, 1985. It was to be replaced under generic WA V50148, however, this WA was still in the planning stage at the time of the failure. For expediency, a separate WA, V50163, was written to replace the broken lug due to Technical Specification Limiting Condition for Operation 3.0.3 which required the Unit to be in at least startup within the next six hours since both HPCI and one loop of Core Spray were inoperable. The broken lug was replaced and power was restored at 0225 on February 17, 1985, clearing the Limiting Condition for Operation.

Inspection of the Class 1E 125 VDC distribution panels will be performed again after modification work is completed to identify any additional rework of terminal lugs. Inspection of the Unit 2 panels is complete, and discrepancies noted in the inspection have been repaired. Inspection of the Unit 1 panels will be completed prior to the end of its refueling outage.



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

March 14, 1985

U.S. Nuclear Regulatory Commission
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SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 85-008-00
ER 100450 FILE 841-23
PLAS-052

Docket No. 50-388
License No. NPF-22

Attached is Licensee Event Report 85-008-00. This event was determined reportable per 10CFR50.73(a)(2)(v) and 10CFR50.73(a)(2)(i), in that loss of a single train safety system (HPCI) and the 'B' Loop of Core Spray occurred due to an electrical component failure.

H.W. Keiser
Superintendent of Plant-Susquehanna

DJG/pjg

cc: Dr. Thomas E. Murley
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Mr. R.H. Jacobs
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Shickshinny, PA 18655

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