NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Susquehanna Steam Electric Station - Unit 1	0 5 0 0 0 3 8 7	1 OF 0 2

TITLE (4)

Frozen Condensate Storage Tank Level Switches

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 0 0 0
0 1	1 3	8 4	8 4	— 0 0 4	— 0 0	0 2	1 0	8 4		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)			
POWER LEVEL (10) 0 0 0	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
	20.405(a)(1)(i)	50.36(c)(1)	X 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 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)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
L.A. Kuczynski, Nuclear Plant Specialist III	AREA CODE 7 1 7 5 4 2 - 2 1 8 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
C	*	L I S	M 0 4 0	N							
A	*	E H T R	N 0 8 2	N							

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 the performance of a quarterly surveillance calibration, the two level switches located at the Condensate Storage Tank (CST) that provide the signal that automatically transfers the High Pressure Coolant Injection pump suction from the CST to the suppression pool were found inoperable due to freezing. Heat tracing on the affected instrument lines and switches was restored and the switches were calibrated and returned to service.

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* System codes unavailable.

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

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

On January 13, 1984, with the unit still in the Unit 1 - Unit 2 tie-in outage, I&C personnel commenced the regularly scheduled quarterly surveillance calibration of two Condensate Storage Tank (CST) low level channels. The level switches (Magnetrol Model No. 3.5-751) in these channels act to automatically transfer the High Pressure Coolant Injection (HPCI) pump suction from the CST to the suppression pool if the CST level falls to 3 ft. 7.5 in. (10,000 gal.) above HPCI suction. The level switches were found frozen, with the cause determined to be de-energized heat tracing (Control switch in 'OFF'). Operations personnel placed the heat tracing control to 'AUTO' to thaw the switches. The heat tracing was checked by Electrical Maintenance personnel, who found one thermostat set at 80°F and the other set at 45°F. The thermostats were actuating at their respective setpoints. Both the thermostats were left set at 80°F.

Three days later, the channel calibration was attempted again and the switches were found incompletely thawed. The heat trace control was then placed in 'HAND' (continually energized) and the switches completely thawed. The calibration was successfully completed January 17, 1984. The violation date of the surveillance procedure under which the calibration was performed was not exceeded. The heat trace control was placed in 'AUTO' and has functioned properly since. The HPCI system is the only system affected by this event. This event has been added to the Supervisor of Operations Weekly Meeting agenda for review with all Operation's shift personnel to emphasize cold weather operation of the heat tracing.

The HPCI pump suction line from the CST was not affected by this event. If this event had occurred at power and the HPCI system called upon to mitigate an accident, the system could have performed its designed function for a limited amount of time. Other level switches located at the CST and operable throughout the entire event would have provided notice to Operation's personnel in the main Control Room of 'RCIC Condensate Storage Tank Low Level' at the same setpoint that would have actuated the HPCI switches. This information would give the Operators approximately two minutes to assess actual CST level and manually switch the HPCI pump suction to the suppression pool.

PP&L

Pennsylvania Power & Light Company

February 10, 1984

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 84-004-00
ER 100450 FILE 841-23 Docket No. 50-387
PLA-2078 License No. NPF-14

Attached is Licensee Event Report No. 84-004-00. This event was determined reportable per 10CFR50.73(a)(2)(v) in that, due to the de-energization of some heat tracing, condensate storage tank level inputs to the High Pressure Coolant Injection system were unavailable. The heat tracing was re-energized and the affected level switches were returned to service.

H.W. Keiser
Superintendent of Plant-Susquehanna

LAK/pjg

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