

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Susquehanna Steam Electric Station - Unit 1DOCKET NUMBER (2)  
0 5 0 0 0 3 8 7 1 OF 0 2TITLE (4)  
HPCI Inoperable Due to Failed Surveillance.

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	6	0	9	8	5	8	5	-	0	2	4	-	0	0	0	7	0	8	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)															
POWER LEVEL (10) 0 1 0 1 5	2	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)(vi)				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)(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)(ix)									

LICENSEE CONTACT FOR THIS LER (12)  
NAME  
D.J. Gandenberger, Power Production EngineerTELEPHONE NUMBER  
AREA CODE  
7 1 1 7 5 4 2 - 1 3 9 1 4

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	CAUSE	SYSTEM

SUPPLEMENTAL REPORT EXPECTED (14)  
YES (If yes, complete EXPECTED SUBMISSION DATE) ☐ NO ☒  
EXPECTED SUBMISSION DATE (15)  
MONTH DAY YEAR

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

On June 9, 1985, the High Pressure Coolant Injection (HPCI) was declared inoperable due to the inability to meet the flow and discharge pressure requirements of SO-152-002, "Quarterly HPCI Flow Verification." The surveillance was being performed for the first time at 920 psig following the completion of the Unit's First Refueling Outage. The rated flow was not achieved because the turbine could not attain the desired speed of 4200 rpm specified in SO-152-002. The high level signal cut-out on the HPCI Flow Controller prevented the turbine from reaching 4200 rpm. Investigation revealed that 4200 rpm was greater than the calibrated span of the HPCI Turbine Control System. The high speed setting had been adjusted to approximately 4130 rpm by the calibration procedure performed on March 19, 1985. Under a Work Authorization, the high level signal cut-off was raised to allow turbine operation at 4200 rpm. The surveillance was reperfomed with satisfactory results.

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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 5 — 0 2 4 — 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 2/ (17)

On June 9, 1985, at 1850, the High Pressure Coolant Injection System (HPCI)(BJ) was declared inoperable and a Limiting Condition for Operation (LCO) entered due to the inability to meet the Acceptance Criteria of SO-152-002, "Quarterly HPCI Flow Verification." The surveillance requires a flow of 5000 gpm at a discharge pressure of 1266 psig. The maximum flow available at the required discharge pressure was approximately 4900 gpm. The surveillance was being performed for the first time at 920 psig following the completion of the Unit's First Refueling Outage. Technical Specifications require this surveillance to be performed within twelve hours after reactor steam pressure is adequate to perform the test if current satisfactory results are not on record. Reactor steam pressure of 920 psig was achieved at 1630 on June 9, 1985.

The rated flow was not achieved because the turbine could not attain the desired speed of 4200 rpm specified in SO-152-002. It was prevented from reaching 4200 rpm by the high level signal cut-off on the HPCI Flow Controller, FC-E41-1R600. During investigation by I&C personnel (utility, non-licensed) it was noted that the required speed of 4200 rpm is greater than the calibrated span of the HPCI Turbine Control System. The high speed setting was adjusted to approximately 4130 rpm in accordance with IC-152-001, "HPCI Turbine Control System Calibration." IC-152-001 had been performed on March 19, 1985 to calibrate upgraded HPCI instruments installed during the refueling outage. Under a Work Authorization the high level signal cut-off was adjusted to 5.265 VDC. The original cut-off was set at 5.0 VDC. SO-152-002 was reperformed and the Acceptance Criteria for flow and discharge pressure were met. HPCI was declared operable and the LCO was cleared at 0100 on June 10, 1985.



Pennsylvania Power & Light Company

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July 8, 1985

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

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 85-024-00  
ER 100450 FILE 841-23  
PLAS- 100

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Docket No. 50-387  
License No. NPF-14

Attached is Licensee Event Report 85-024-00. This event was determined reportable per 10CFR50.73(a)(2)(v), in that the High Pressure Coolant Injection System, a single train safety system, was inoperable due to a failed surveillance.

H.W. Keiser  
Superintendent of Plant-Susquehanna

DJG/pjg

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