

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8704030223 DOC. DATE: 87/08/19 NOTARIZED: NO DOCKET #
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHOR AFFILIATION
 HIRT, J. A. Pennsylvania Power & Light Co.
 BYRAM, R. G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-007-01: on 870413, while performing surveillance testing, HPCI turbine steam supply valve breaker tripped resulting in HPCI sys being declared inoperable. Caused by stucked contacts on relay 2R. Contacts replaced. W/870819 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000388

	RECIPIENT ID CODE/NAME	COPIES		RECIPIENT ID CODE/NAME	COPIES	
		LTTR	ENCL		LTTR	ENCL
	PD1-2 LA	1	1	PD1-2 PD	1	1
	THADANI, M	1	1			
INTERNAL:	ACRS MICHELSON	1	1	ACRS MOELLER	2	2
	AEOD/DOA	1	1	AEOD/DSP/NAS	1	1
	AEOD/DSP/ROAB	2	2	AEOD/DSP/TPAB	1	1
	DEDRO	1	1	NRR/DEST/ADS	1	0
	NRR/DEST/CEB	1	1	NRR/DEST/ELB	1	1
	NRR/DEST/ICSB	1	1	NRR/DEST/MEB	1	1
	NRR/DEST/MTB	1	1	NRR/DEST/PSB	1	1
	NRR/DEST/RSB	1	1	NRR/DEST/SGB	1	1
	NRR/DLPQ/HFB	1	1	NRR/DLPQ/QAB	1	1
	NRR/DOEA/EAB	1	1	NRR/DREP/RAB	1	1
	NRR/DREP/RPB	2	2	NRR/PMAS/ILRB	1	1
	REG FILE 02	1	1	RES DEPY GI	1	1
	RES TELFORD, J	1	1	RES/DE/EIB	1	1
	RGN1 FILE 01	1	1			
EXTERNAL:	EG&G GROH, M	5	5	H ST LOBBY WARD	1	1
	LPDR	2	2	NRC PDR	1	1
	NSIC HARRIS, J	1	1	NSIC MAYS, G	1	1

NOTES: 3 3

TOTAL NUMBER OF COPIES REQUIRED: LTTR 47 ENCL 46

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 8 7	SEQUENTIAL NUMBER - 0 0 7	REVISION NUMBER - 0 1			
					0 2	OF 0 3	

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

DESCRIPTION

On April 13, 1987, at 1701 hours, Limiting Condition for Operation (LCO) 3.5.1 was entered on the High Pressure Coolant Injection (HPCI) system (EIIS Code: BJ) in order to perform surveillance test SO-252-004 'Quarterly HPCI Valve Exercising.' At the time the unit was operating at 100% rated thermal power. At approximately 1800 hours Operations personnel attempted to cycle the HPCI Turbine Steam Supply Valve, HV-255-F001. The valve opened satisfactorily. When Operations personnel tried to close HV-255-F001 the valve's supply breaker tripped. As a result, the HPCI system was declared inoperable for reasons other than surveillance testing.

Electrical Maintenance personnel investigated and found that contacts on the 2R relay were stuck in the closed position. The 2R relay energizes, closing its contacts, to open the valve. When the operator attempted to close the valve the abnormal circuit configuration, caused by the contacts being closed, resulted in the tripping of the supply breaker.

CAUSE/CORRECTIVE ACTION

The supply breaker to the HPCI turbine steam supply valve tripped due to contacts on the 2R relay (IEEE Code: RLY; Manufacturer: General Electric) being stuck together while the operator attempted to shut the valve. Electrical Maintenance personnel freed the contacts and stroked the supply valve several times. The valve operated satisfactorily. Based on this, Operations personnel cleared LCO 3.5.1 at 2300 hours on April 13, 1987. On April 20, 1987 at 1800 hours surveillance test SO-252-004 was successfully completed. On April 21, 1987 the contacts on the 2R relay were replaced. The cause for the relay contacts sticking is attributed to aging and repeated operation, which is not considered abnormal. A periodic maintenance program has been instituted to inspect the contacts and replace them as necessary.

SAFETY SIGNIFICANCE

This event did not pose a significant safety consequence. The HPCI system was out of service for approximately six hours. The Action Statement to LCO 3.5.1 allows the HPCI system to be inoperable for up to 14 days provided the Core Spray System (CSS) (EIIS Code: BM), the Low Pressure Coolant Injection (LPCI) system (EIIS Code: BO), the Automatic Depressurization System (ADS) (EIIS Code: Not listed) and the Reactor Core Isolation Cooling (RCIC) system (EIIS Code: BN) are operable. The CSS, LPCI system, ADS and the RCIC system were operable during this six hour period.

No other plant status was identified in which this safety consequence would have been more severe.

SIMILAR OCCURRENCES

There were no past Licensee Event Reports identified which reported to the Commission an instance where the HPCI system became operable due to the contacts of the 2R relay being stuck together.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Susquehanna Steam Electric Station Unit Two	DOCKET NUMBER (2) 0 5 0 0 0 3 8 8	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 7	— 0 0 7	— 0 1	0 3	OF 0	3

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

REPORTABILITY

This event was determined to be reportable to the Commission per 10CFR50.73 (a) (2) (vii), in that a single train safety system, HPCI, became inoperable due to a failure within the control circuitry of the steam supply valve.

1001 FEB 25 1988
FBI



Pennsylvania Power & Light Company

P.O. Box 451 • Berwick, PA 18603-0451 • 717/542-2151


August 19, 1987

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 87-007-01
FILE R41-2
PLAS-275

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

Attached is Licensee Event Report (LER) 87-007-01 which is an update to LER 87-007-00 filed on May 13, 1987. This event was determined reportable per 10CFR50.73 (a) (2) (vii), in that the High Pressure Coolant Injection System, a single train safety system, was inoperable for six hours due to an electrical failure.


R.G. Byram
Superintendent of Plant-Susquehanna

JAH/cmw

cc: Mr. William T. Russell
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Mr. Loren Plisco
Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 52
Shickshinny, PA 18655

FE22
1/1