

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9201210226      DOC. DATE: 92/01/14      NOTARIZED: NO      DOCKET # 05000388  
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania  
 AUTH. NAME: LLOYD, H.      AUTHOR AFFILIATION: Pennsylvania Power & Light Co.  
 STANLEY, H.G.      Pennsylvania Power & Light Co.  
 RECIPIENT NAME: RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: LER 91-015-00: on 911216, small leak discovered in drain line for HPCI sys steam supply line & steam supply isolation valve closed due to condensation buildup. Caused by corrosion of carbon steel piping. Pipe repaired. W/920114 ltr.

DISTRIBUTION CODE: IE22T      COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: LPDR 1 cy Transcripts. 05000388

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	AEOD/DOA	1	1		AEOD/DSP/TPAB	1	1	
	AEOD/ROAB/DSP	2	2		NRR/DET/ECMB 9H	1	1	
	NRR/DET/EMEB 7E	1	1		NRR/DLPQ/LHFB10	1	1	
	NRR/DLPQ/LPEB10	1	1		NRR/DOEA/OEAB	1	1	
	NRR/DREP/PRPB11	2	2		NRR/DST/SELB 8D	1	1	
	NRR/DST/SICB8H3	1	1		NRR/DST/SPLB8D1	1	1	
	NRR/DST/SRXB 8E	1	1		<del>REG FILE 02</del>	1	1	
	RES/DSIR/EIB	1	1		RGN( FILE 01	1	1	
EXTERNAL:	EG&G BRYCE, J.H	3	3		L ST LOBBY WARD	1	1	
	NRC PDR	1	1		NSIC MURPHY, G.A	1	1	
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NOTES:		2	2					

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Pennsylvania Power & Light Company

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January 14, 1992

U.S. Nuclear Regulatory Commission  
Document Control Desk  
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SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 91-015-00  
FILE R41-2  
PLAS - 513

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

Attached is Licensee Event Report 91-015-00. This report is being made pursuant to 10CFR50.73(a)(2)(V)(D), in that the High Pressure Coolant Injection System, a single train safety system, was removed from service due to a leak in the steam supply piping. The piping was repaired and the system was restored to operable status.

H.G. Stanley  
Superintendent of Plant - Susquehanna

HL/mjm

cc: Mr. T. T. Martin  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
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*IF22*  
*11*

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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

TITLE (4) **High Pressure Coolant Injection System Inoperable When Steam Supply Isolated Due to Leak**

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)										
1	2	1	6	9	1	9	1	1	0	1	5	0	0	0	0	0	0	0	0	0	0

OPERATING MODE (9) **1**

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	50.38(c)(1)	<input checked="" type="checkbox"/> 50.73(a)(2)(v)	73.71(c)
20.406(a)(1)(ii)	50.38(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME **Harrison Lloyd, Jr. - Power Production Engineer** TELEPHONE NUMBER **7 1 7 5 4 2 - 3 9 1 7**

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

CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS

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 December 16, 1991, with Unit 2 in Condition 1 at 100% power, a small leak was discovered in a drain line for the HPCI system steam supply line. The leak was isolated by closing two drain valves upstream of a steam trap which is upstream of the leakage location. In addition, the steam supply isolation valve was closed due to the possibility of condensation build-up. Closing the steam supply valve caused the HPCI to be inoperable. The cause of the event was determined to be erosion/corrosion of the carbon steel HPCI drain line piping. This event was determined to reportable per 10CFR50.73(a)(2)(v)(D), as a condition that alone could have prevented the fulfillment of the safety function of a system needed to mitigate the consequences of an accident. The drain piping was repaired at the leakage location. The piping is included in the erosion/corrosion control program and had been identified as experiencing some degradation. Documents were already in place to replace the subject piping with upgraded material during the next refueling outage in each Unit.



2

2

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)  Unit 2 Susquehanna Steam Electric Station	DOCKET NUMBER (2)  0   5   0   0   0   3   8   8	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9   1   -	0   1   5   -	0   0	0   2	OF	0   3

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

DESCRIPTION OF EVENT

On December 16, 1991, with Unit 2 in Condition 1 at 100% power, a small leak was discovered in a one inch drain line for the High Pressure Coolant Injection System (EIS Code: BJ) steam supply piping. The location of the leak was downstream of a steam trap which serves to maintain the HPCI steam supply line at the turbine drained of condensation. The leak was initially stopped by closing two drain valves upstream of the steam trap but this action isolated the steam trap and thus created a potential for build up of condensation in the steam supply piping. Due to this concern, the HPCI steam supply valve was closed which rendered the system inoperable. Technical Specification 3.5.1 Action c.1 was entered while repairs were performed. The HPCI System was out of service from 0350 to 2030 on 12/16/91.

CAUSE OF EVENT

The cause of this event was attributed to the combination of corrosion and through wall erosion of the carbon steel piping. The location of the leak was at a bend which is more susceptible to erosion. This piping is included in the erosion/corrosion control program, and it had been identified that some degradation had occurred. Work documents had been generated to replace the piping with a more suitable material during the next refueling outages for each Unit.

REPORTABILITY/ANALYSIS

This event was determined to be reportable per 10CFR50.73(a)(2)(v)(D) and per NRC guidance provided in the Statements of Consideration, as an event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident. There were no safety consequences as a result of this event. All other Emergency Core Cooling Systems remained operable throughout this event. In addition, had HPCI been required to mitigate an event, it could have been returned to service since the leak was minimal and was located downstream of a steam trap. This event did not create a significant degradation in our ability to protect the health and safety of the public and/or plant personnel based on the above discussion.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

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FACILITY NAME (1) Unit 2 Susquehanna Steam Electric Station	DOCKET NUMBER (2) 05000388	LER NUMBER (6)			PAGE (3)		
		YEAR 91	SEQUENTIAL NUMBER 015	REVISION NUMBER 00			

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

CORRECTIVE ACTION

The drain pipe was temporarily weld repaired at the leakage location. Additional wall thickness measurements were taken and no additional areas of concern were noted. As mentioned previously, this piping is included in the erosion/corrosion control program. This piping, as well as similarly configured piping (i.e. steam line drain piping fitted with drain traps on the HPCI and RCIC Systems in Unit 1 and Unit 2) has either been replaced or is scheduled for replacement with an upgraded material.

ADDITIONAL INFORMATION

Failed Component Identification: N/A

Previously Similar Events: N/A