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ACCESSION NBR: 8808240280 DOC. DATE: 88/08/17 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 RYDER, T.S. Pennsylvania Power & Light Co.
 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-013-00: on 880712, RWCU sys Div 2 isolation on penetration room high temp.

W/8 ltr.

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 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: LPDR 2 cys Transcripts.

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	PAGE (3) 1 OF 0 2
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TITLE (4)
RWCU System Division 2 Isolation on Penetration Room High Temperature

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	7	1	2	8	8	8	8	0	1	3	0	0	8	1	7	8	8			0 5 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)										
POWER LEVEL (10) 1 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)							
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)							
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.38(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(vii)(A)								
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(vii)(B)								
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)								

LICENSEE CONTACT FOR THIS LER (12)							
NAME T.S. Ryder - Power Production Engineer					TELEPHONE NUMBER		
					AREA CODE		
					7	1	7
					5	4	2
					-	3	2
					3	2	3
					5		

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

SUPPLEMENTAL REPORT EXPECTED (14)				EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR		
<input checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input type="checkbox"/> NO				1	1	3	0	8

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

At 1655 hours on July 18, 1988 with Unit 1 operating in Condition 1 at 100% power, a RWCU System Division 2 isolation occurred when a penetration room high temperature trip signal was actuated from RWCU Containment Penetration Room Ambient Temperature Element TSH-G33-1N600F. The plant responded properly to the RWCU isolation. The cause of the RWCU isolation has been attributed to elevated ambient penetration room temperatures due to unusually hot weather conditions. The event described in this report was determined to be reportable per 10CFR50.73(a)(2)(iv), in that an unplanned ESF actuation occurred when RWCU Outboard Isolation Valve HV-144-1F004 auto-closed. The isolation occurred when RWCU penetration room temperature exceeded the trip setpoint intended to detect a steam leak in the penetration room. The system operated per design. There was no compromise to the health and safety of the public and no safety consequences occurred. The setpoints for TSH-G33-1N600E & F have been temporarily raised from 111° F. to 116° F., still below the Technical Specification limit of 118.3° F. An engineering review has been initiated to evaluate making the setpoint changes permanent for the penetration room ambient temperature elements on both units.

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

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

DESCRIPTION OF EVENT

At 1655 hours on July 18, 1988 with Unit 1 operating in Condition 1 at 100% power, a Reactor Water Cleanup (RWCU, EIS Code: CE) System Division 2 isolation occurred when a penetration room high temperature trip signal was actuated from RWCU Containment Penetration Room Ambient Temperature Element TSH-G33-1N600F. The plant responded properly to the RWCU isolation signal and the RWCU Outboard Isolation Valve (HV-144-1F004) auto-closed as per design. Actual room temperature as indicated by the Riley temperature module for TSH-G33-1N600F was found to be 108° F. and the trip setpoint as indicated by a calibrated thermocouple reader was found to be 105° F.

CAUSE OF EVENT

The cause of the above RWCU isolation has been attributed to elevated ambient penetration room temperatures due to unusually hot weather conditions.

REPORTABILITY/ANALYSIS

The event described in this report was determined to be reportable per 10CFR50.73 (a)(2)(iv), in that an unplanned ESF actuation occurred when RWCU Outboard Isolation Valve HV-144-1F004 auto-closed. This valve serves a containment isolation function. The isolation occurred when RWCU penetration room temperature exceeded the trip setpoint intended to detect a steam leak in the penetration room. The system operated per design. There was no compromise to the health and safety of the public and no safety consequences occurred.

CORRECTIVE ACTIONS

Immediate corrective actions consisted of verifying proper RWCU system response to the isolation signal and verifying that there were no breaks or abnormal conditions in the RWCU penetration room. Following approval of a temporary setpoint changes, the setpoints for TSH-G33-1N600E & F were raised from 111° F. to 116° F., still below the Technical Specification limit of 118.3° F. An engineering review has been initiated to evaluate making the setpoint changes permanent for the penetration room ambient temperature elements on both units.

ADDITIONAL INFORMATION

Failed Component Identification: Not applicable.

Previous Similar Events: LER 87-008-00 (Unit 2), LER 88-013-00 (Unit 2).



Pennsylvania Power & Light Company

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

August 17, 1988

U.S. Nuclear Regulatory Commission
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Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 88-013-00
FILE R41-2
PLAS - 33L

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

Attached is Licensee Event Report 88-013-00. This event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that an unplanned engineered safety feature actuation occurred when the Unit 1 Reactor Water Cleanup System isolated on a high room temperature trip signal.

R.G. Byram
Superintendent of Plant - Susquehanna

TSR/mjm

cc: Mr. William T. Russell
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. Frank Young
Sr. Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 52
Shickshinny, PA 18655

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