

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8808180309 DOC. DATE: 88/08/11 NOTARIZED: NO DOCKET #
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
 AUTH. NAME AUTHOR AFFILIATION
 RYDER, T.S. Pennsylvania Power & Light Co.
 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-013-00: on 880712, RWCU sys Div 1 isolation on penetration room high temp.

W/8 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: LPDR 2 cys Transcripts.

05000388

	RECIPIENT ID CODE/NAME	COPIES	LTR	ENCL	RECIPIENT ID CODE/NAME	COPIES	LTR	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	
	ARM/DCTS/DAB	1	1		DEDRO	1	1	
	NRR/DEST/ADS 7E	1	0		NRR/DEST/CEB 8H	1	1	
	NRR/DEST/ESB 8D	1	1		NRR/DEST/ICSB 7	1	1	
	NRR/DEST/MEB 9H	1	1		NRR/DEST/MTB 9H	1	1	
	NRR/DEST/PSB 8D	1	1		NRR/DEST/RSB 8E	1	1	
	NRR/DEST/SGB 8D	1	1		NRR/DLPQ/HFB 10	1	1	
	NRR/DLPQ/QAB 10	1	1		NRR/DOEA/EAB 11	1	1	
	NRR/DREP/RAB 10	1	1		NRR/DREP/RPB 10	2	2	
	NRR/DRIS/SIB 9A	1	1		NUDOCS-ABSTRACT	1	1	
	<u>REG FILE</u> 02	1	1		RES TELFORD, J	1	1	
	RES/DSIR DEPY	1	1		RES/DSIR/EIB	1	1	
	RES/DSR DEPY	1	1		RGN1 FILE 01	1	1	
EXTERNAL:	EG&G WILLIAMS, S	4	4		FORD BLDG HOY, A	1	1	
	H ST LOBBY WARD	1	1		LPDR	2	2	
	NRC PDR	1	1		NSIC HARRIS, J	1	1	
	NSIC MAYS, G	1	1					
NOTES:		2	2					

TOTAL NUMBER OF COPIES REQUIRED: LTR 49 ENCL 48

R
I
D
S
A
D
S
A
D
S

LICENSEE EVENT REPORT (LER)

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

TITLE (4)
RWCU System Division I 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	0 8	1 1	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	20.402(b)	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)					
	20.405(a)(1)(i)	50.38(c)(1)		50.73(a)(2)(v)	73.71(c)					
	20.405(a)(1)(ii)	50.38(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 T.S. Ryder - Power Production Engineer							TELEPHONE NUMBER 7 1 7 5 4 2 - 3 2 3 5		

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	

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 8

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

At 0912 hours on July 12, 1988 with Unit 2 operating in Condition 1 at 100% power, a RWCU System Division I isolation occurred when a penetration room high temperature trip signal was actuated from RWCU Containment Penetration Room Ambient Temperature Element TSH-G33-2N600E. The plant responded properly to the RWCU isolation. The cause of the RWCU isolation has been attributed to elevated ambient penetration room temperatures which have been running 5° - 8° F. higher than normal due to unusually hot weather conditions and minor steam leakage in the penetration room. 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 Inboard Isolation Valve HV-244-2F001 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-G33-2N600E & F have been temporarily raised from 110.3° 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. The small steam leakage in the penetration room was evaluated as not requiring immediate corrective action and longer term corrective action to repair this leakage will be undertaken.

8808180309 880811
PDR ADOCK 05000388
S PDC

Handwritten signature/initials

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

DESCRIPTION OF EVENT

At 0912 hours on July 12, 1988 with Unit 2 operating in Condition 1 at 100% power, a Reactor Water Cleanup (RWCU, EIIS Code: CE) System Division I isolation occurred when a penetration room high temperature trip signal was actuated from RWCU Containment Penetration Room Ambient Temperature Element TSH-G33-2N600E. The Unit 2 RWCU Leak Detection Isolation Logic "A" High Temperature alarm annunciated, the RWCU Inboard Isolation Valve (HV-244-2F001) auto-closed, both RWCU pumps tripped and the RWCU Filter/Demineralizers (F/D's) went into hold constituting a proper plant response to the RWCU isolation signal. Actual room temperature as indicated by the Riley temperature module for TSH-G33-2N600E was found to be 107° F. and the trip setpoint as indicated by a calibrated thermocouple reader was found to be 109.6° F. The anomaly of the penetration room temperature being slightly lower than the trip setpoint and receiving the trip is explained by taking into account the accuracy of the temperature element.

CAUSE OF EVENT

The cause of the above RWCU isolation has been attributed to elevated ambient penetration room temperatures which have been running 5° - 8° F. higher than normal due to unusually hot weather conditions and minor steam leakage past RWCU Pump Discharge Header Vents 244010A&B in the penetration room.

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 Inboard Isolation Valve HV-244-2F001 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.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

CORRECTIVE ACTIONS

On July 12, 1988 following approval of a temporary setpoint change, the setpoints for TSH-G33-2N600E & F were raised from 110.3° 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. The small steam leakage through the 244010A&B vent valves in the penetration room was evaluated as not requiring immediate corrective action. Longer term corrective actions to repair this leakage will be undertaken. Ventilation in the penetration room was checked and confirmed to be within design specifications.

ADDITIONAL INFORMATION

Failed Component Identification: Not applicable.

Previous Similar Events: LER 87-008-00



Pennsylvania Power & Light Company

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

August 11, 1988

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 88-013-00
FILE R41-2
PLAS - 330

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

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 2 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

IE22
1/1