

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8705210556, DOC. DATE: 87/05/15 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 87-014-00: on 870416, plant manually shutdown from 20% power in compliance w/Tech Spec 3.6.1.1 because of inability to validate primary containment integrity when purge exhaust valve failed. Rubber seat on HV-15713 replaced. W/870515 ltr.

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

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387

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:	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEOD/DOA	1 1	AEOD/DSP/ROAB	2 2
	AEOD/DSP/TPAB	1 1	DEDRO	1 1
	NRR/DEST/ADE	1 0	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/EPB	1 1
	NRR/DREP/RAB	1 1	NRR/DREP/RPB	2 2
	NRR/PMAS/ILRB	1 1	NRR/PMAS/PTSB	1 1
	<u>REG FILE</u> 02	1 1	RES DEPY, GI	1 1
	RGNI FILE 01	1 1		

EXTERNAL:	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	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

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit One	DOCKET NUMBER (2) 0 5 0 0 0 3 1 8 7	PAGE (3) 1 OF 0 3
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TITLE (4)
Manual Shutdown Per Technical Specification Due To Failed LLRT

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 4	1 6	8 7	8 7	0 1	4	0 5	1 5	8 7				0 5 0 0 0		

OPERATING MODE (9) **1**

POWER LEVEL (10) **0 2 0**

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

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A)
<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
<input type="checkbox"/> 20.405(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	TELEPHONE NUMBER
Thomas S. Ryder - Power Production Engineer	AREA CODE: 7 1 7 NUMBER: 5 4 2 1 - 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
X	B B	I S V	P 3 4 0	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

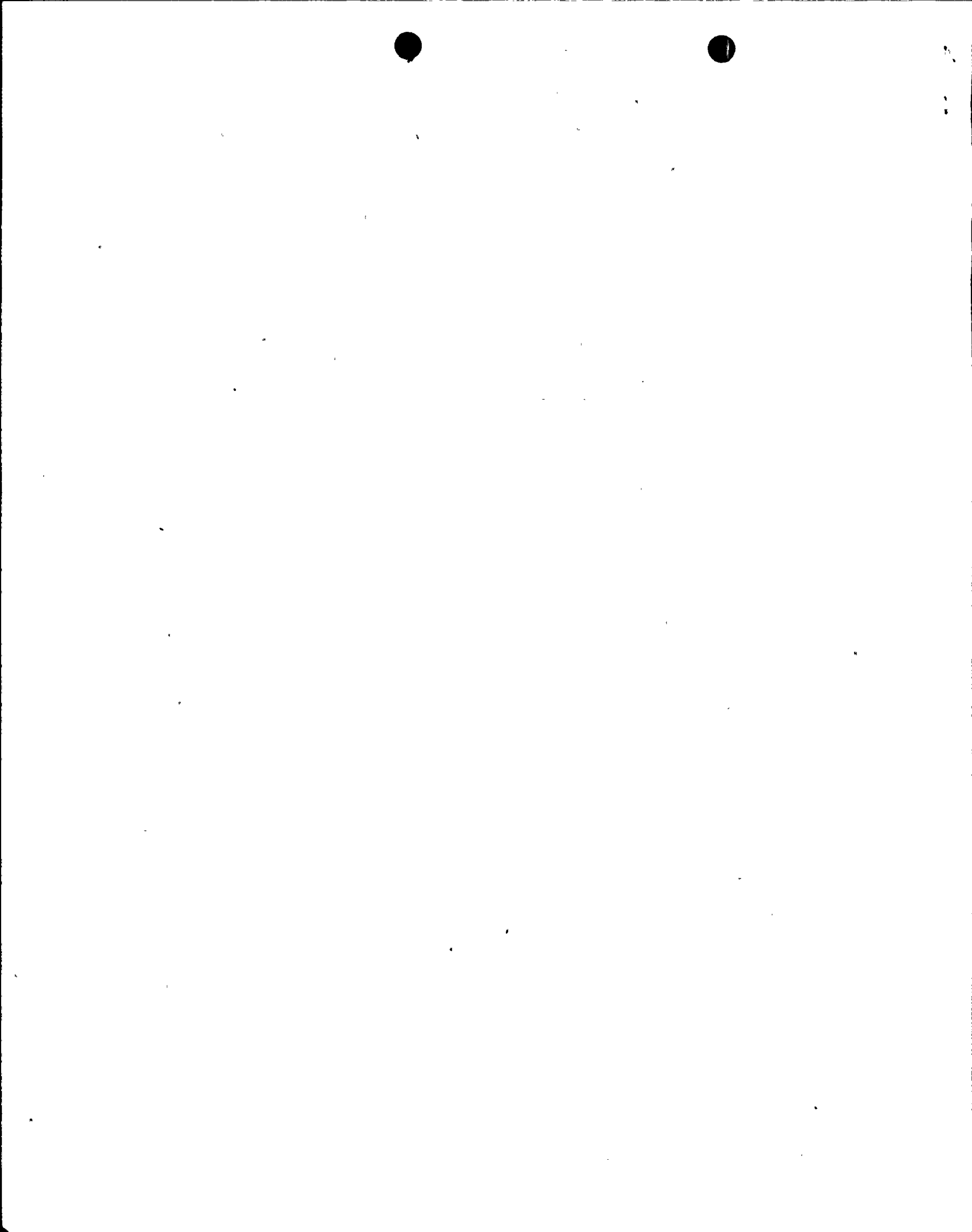
MONTH	DAY	YEAR

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

On April 16, 1987 at 0247 hours, Susquehanna Unit 1 was manually shutdown from twenty percent (20%) power by taking the reactor mode switch to Shutdown. The shutdown was performed in compliance with Technical Specification 3.6.1.1 which was entered due to the failure of a Local Leak Rate Test (LLRT) on Containment Purge Exhaust Valves, HV-15713, HV-15714 and HV-15711. Plant response to the manual shutdown was as anticipated and per design. Engineered Safety Feature systems were not challenged and no operator actions were required to place the unit in a stable condition. Repairs were made to HV-15713 and the LLRT was passed with acceptable results. The Unit commenced a reactor startup on April 18, 1987.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		-	0 1 4	-	0 0	0 2 OF 0 3

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

DESCRIPTION OF EVENT

Susquehanna Steam Electric Station, Unit 1 was manually shutdown from twenty percent (20%) power at 0247 on April 16, 1987 in compliance with Technical Specification 3.6.1.1. During the performance of a Local Leak Rate Test (LLRT) pursuant to Technical Specification Surveillance Requirement 4.6.1.8.2 on Containment Purge Exhaust Valves (EIS Code: BB), HV-15713, HV-15714 and HV-15711, personnel were unable to establish the required test pressure of 45 psig within the LLRT boundaries. This prevented determination of a leak rate for the containment purge exhaust valves. The inability to determine a leak rate at the boundary established by these valves required entry into Technical Specification 3.6.1.1. In compliance with Technical Specification 3.6.1.1, an orderly shutdown of Unit 1 commenced from one hundred percent (100%) power at 2315 on April 15, 1987. Reactor power had been reduced to approximately twenty percent (20%) when the main turbine was manually tripped at 0230 hours the next day. At 0247 hours the reactor was shutdown in accordance with procedures from twenty percent (20%) power by taking the reactor mode switch to shutdown.

CAUSE OF EVENT

The Unit was shutdown in compliance with Technical Specification 3.6.1.1 because of the inability to validate primary containment integrity when the containment purge exhaust valve LLRT had failed. The LLRT failure was due to a torn resilient rubber seat on the Drywell Vent Inboard Isolation Valve HV-15713. This prevented test pressure from being established within the LLRT boundary resulting in an inability to determine a leak rate.

REPORTABILITY

This event has been determined to be reportable per 10CFR 50.73 (a) (2) (i) in that Unit 1 completed a plant shutdown required by Technical Specifications. Primary containment integrity being in question was the cause for this shutdown. There was no resultant release of radioactive material as evidenced by a comparison of pre/post shutdown vent radiation monitor data. Additionally, the failed valve is one of two redundant valves in-series and the companion valve was found to be in satisfactory condition. Hence, the penetration was isolable during the event.

CORRECTIVE ACTIONS

The rubber seat on HV-15713 was replaced and after some torque adjustments to the valve's retainer ring nuts were made, the LLRT was performed with acceptable leak rates which compared well with previous data recorded for this penetration.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		87	014	00	03	OF	03

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

ADDITIONAL INFORMATION

Failed component identification information for HV-15713 is as follows: 24 inch air operated butterfly valve manufactured by Henry Pratt Company. Cause of the tear in the valve's resilient rubber seat is not known. A review of previous LLRT results for the containment purge exhaust valve indicated that there has been one similar occurrence on Unit 1 during a scheduled refuel outage.



Pennsylvania Power & Light Company

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

May 15, 1987

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 87-014-00
FILE R41-2
PLAS- 253

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

Attached is Licensee Event Report 87-014-00. This event was determined reportable per 10CFR 50.73 (a) (2) (i), in that Susquehanna Steam Electric Station - Unit One completed a reactor shutdown required by the plant's Technical Specifications due to the failure of a Containment Isolation valve during surveillance testing.

R.G. Byram
Superintendent of Plant - Susquehanna

TSR/cdn

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