

REGULAR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8704130354 DDC. DATE: 87/04/06 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 WALLEN, C. W. Pennsylvania Power & Light Co.
 BYRAM, R. G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-008-00: on 870223, HPCI inverter failure green status light & out-of-svc annunciator signal received in control room. Caused by ruptured Topaz inverter. Topaz inverter replaced. W/870406 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3
 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: ACRS MICHELSON	1	1	ACRS MOELLER	1	1
ACRS WYLIE	1	1	AEOD/DOA	1	1
AEOD/DSP/ROAB	2	2	AEOD/DSP/TAPB	1	1
NRR/ADT	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/SCB	1	1	NRR/DLPQ/HFB	1	1
NRR/DLPQ/GAB	1	1	NRR/DOEA/EAB	1	1
NRR/DREP/EPB	1	1	NRR/DREP/RAB	1	1
NRR/PMAS/ILRB	1	1	NRR/PMAS/PTSB	1	1
<u>REG FILE</u> 02	1	1	RES SPEIS, T	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

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Susquehanna Steam Electric Station - Unit 1	05000387	1 OF 02

TITLE (4)
High Pressure Coolant Injection Inverter Failure

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	2	23	8	7	00	0	4	06			050000
0	2	23	8	7	00	0	4	06			050000

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)									
POWER LEVEL (10)	100	<input type="checkbox"/> 20.402(a)	<input type="checkbox"/> 20.406(a)	<input type="checkbox"/> 80.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
		<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 80.36(a)(1)	<input checked="" type="checkbox"/> 80.73(a)(2)(v)	<input type="checkbox"/> 73.71(a)						
		<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 80.36(a)(2)	<input type="checkbox"/> 80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Test, NRC Form 302A)						
		<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 80.73(a)(2)(i)	<input type="checkbox"/> 80.73(a)(2)(vii)(A)							
		<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 80.73(a)(2)(ii)	<input type="checkbox"/> 80.73(a)(2)(vii)(B)							
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 80.73(a)(2)(iii)	<input type="checkbox"/> 80.73(a)(2)(v)									

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
C. W. Wallen - Compliance Engineer	717 542-3913

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
X	B	J	I, N, V, T	T, 2, 4, 8	Y				

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

On February 23, 1987 at 0800 hours with Unit 1 operating at 100% power the Unit 1 High Pressure Coolant Injection (HPCI) inverter failure green status light and HPCI out of service annunciator were received in the Control Room. A Limiting Condition of Operation (LCO) was entered per Tech. Spec. 3.5.1.

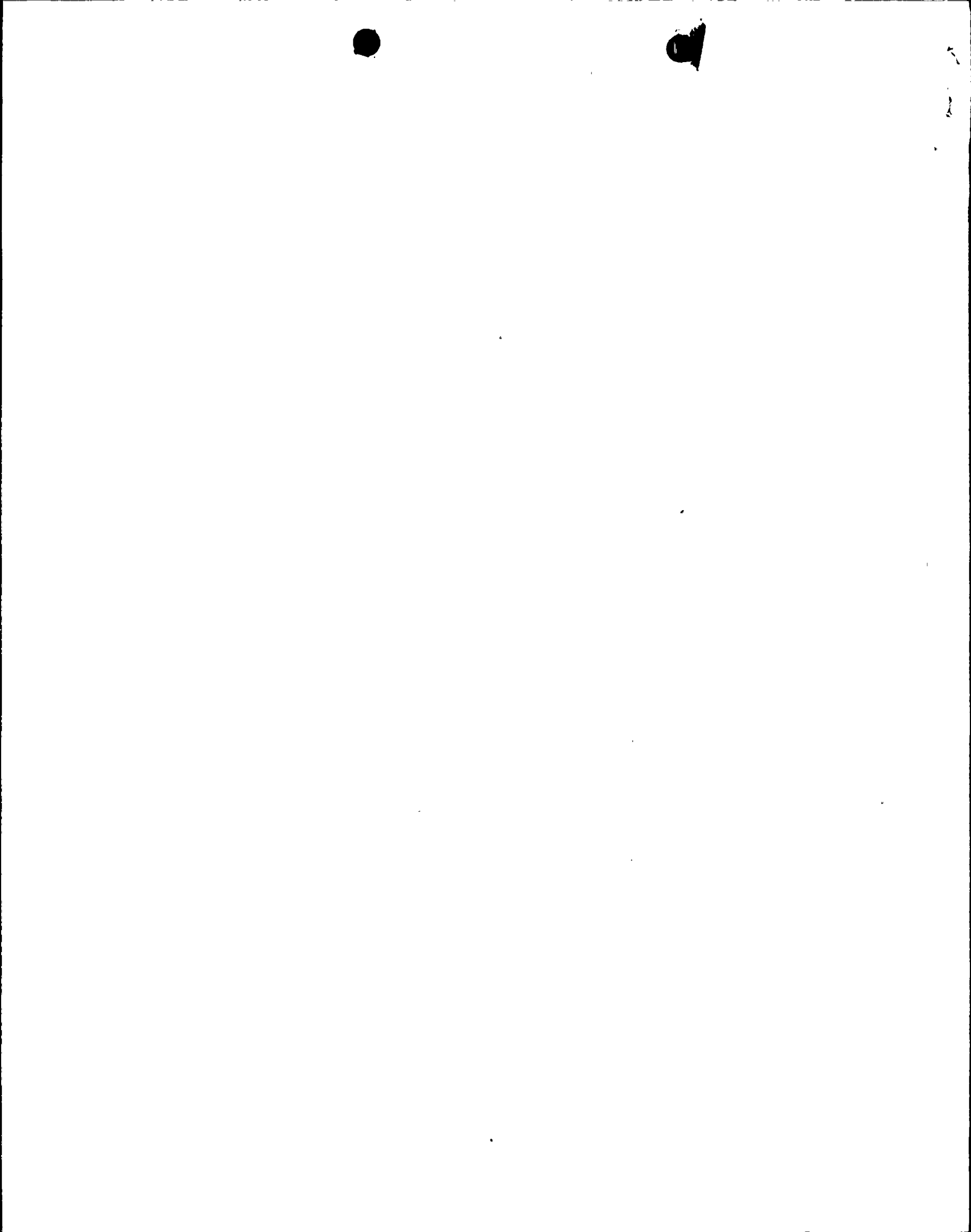
The event was caused by a ruptured Topaz inverter capacitor which leaked insulating oil in the HPCI panel.

The Topaz inverter was replaced, and the inverter discarded appropriately.

The LCO was cleared at 1700 hours on 2/23/87.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (If more space is required, use additional NRC Form 364A's) (17)

DESCRIPTION OF EVENT

On February 23, 1987 at 0800 hours with Unit 1 operating at 100% power, the High Pressure Coolant Injection (HPCI) (EIIS Code: BJ) inverter failure green status light and the HPCI out of service annunciator alarm were received in the Control room. A Limiting Condition of Operation (LCO) was entered and the HPCI system declared inoperable.

CAUSE OF EVENT

The event was caused by the failure of a capacitor on the HPCI Topaz inverter ES E41 K603. The oil filled capacitor ruptured, leaking oil into HPCI panel 1C612 and the Topaz inverter K603. The loss of this inverter will inop the control circuit power for the HPCI pump.

REPORTABILITY/ANALYSIS

This event was determined reportable per 10CFR 50.73 (A) (2) (v) and (vi) in that HPCI was declared inoperable. This is based on the fact that the single HPCI system is one of several required to fulfill the safety function needed to shut down the reactor and maintain it in safe shutdown condition. All other safety systems were operable at the time. The LCO was cleared at 1700 hours on 2-23-87 within the allotted time period, therefore no Tech Specs were violated.

CORRECTIVE ACTION

The damaged Topaz inverter was replaced by Work Authorization (WA) S76448. The area was cleaned, posted with "Caution PCBS" signed and the failed inverter discarded appropriately. The new inverter was tested satisfactorily and the HPCI system returned to service.

ADDITIONAL INFORMATION

This is considered an isolated case and to further evaluate, all Topaz inverters will be investigated and changed out if found to be leaking. Based on these facts, this event does not pose any significant safety consequences.



Pennsylvania Power & Light Company

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

April 6, 1987

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 87-008-00
FILE - R41-2
PLAS - 241

Docket No. 50-387/50-388
License No. NPF-14/NPF-22

Attached is Licensee Event Report 87-008-00. This event was determined reportable per 10CFR50.73(a)(2)(v) & (vi) in that the high pressure coolant injection system was inoperable from 0800 hours on 2-23-87 to 1700 hours on 2-23-87.

Submittal of this report is 8 days overdue because of an administration oversight with internal reporting forms in establishing the appropriate due date. The error was reviewed with the appropriate personnel.

R. G. Byram
Superintendent of Plant - Susquehanna

CLW/cmw

cc: Dr. Thomas E. Murley
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