

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8712030447 DOC. DATE: 87/11/30 NOTARIZED: NO DOCKET #
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHOR AFFILIATION
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 RAM, R. G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-012-00: on 871028, ESF actuation occurred. Cause of event & corrective actions not yet determined. Efforts underway include investigations into auxiliary boiler sys operating procedure adequacy & implementation. W/871130 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. 05000388

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR 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	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/GAB	1 1	NRR/DOEA/EAB	1 1
	NRR/DREP/RAB	1 1	NRR/DREP/RPB	2 2
	NRR/DRIS/SIB	1 1	NRR/PMAS/ILRB	1 1
	REG FILE 02	1 1	RES DEPY GI	1 1
	RES TELFORD, J	1 1	RES/DE/EIB	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) Susquehanna Steam Electric Station - Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 8 8	PAGE (3) 1 OF 0 2
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TITLE (4)
Auxiliary Boiler Arc-Over Causes Primary Containment Isolation Valve Closure

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	0	2	8	8	7	8	7	—	0	1	2	—	0	0	1	1	3	0	8	7	SSES Unit 1	0 5 0 0 0 3 8 7
1	0	2	8	8	7	8	7	—	0	1	2	—	0	0	1	1	3	0	8	7		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)			20.406(c)			60.73(a)(2)(iv)			73.71(b)		
	20.406(a)(1)(i)			60.38(c)(1)			60.73(a)(2)(v)			73.71(c)		
	20.406(a)(1)(ii)			60.38(c)(2)			60.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
	20.406(a)(1)(iii)			60.73(a)(2)(i)			60.73(a)(2)(viii)(A)					
	20.406(a)(1)(iv)			60.73(a)(2)(ii)			60.73(a)(2)(viii)(B)					
20.406(a)(1)(v)			60.73(a)(2)(iii)			60.73(a)(2)(x)						

LICENSEE CONTACT FOR THIS LER (12)										
NAME Robert G. Sheranko - Senior Results Engineer - Compliance							TELEPHONE NUMBER			
							AREA CODE 7 1 7	5 4 2 - 3 8 5 6		

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

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		0	2	2	9	8

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

At 0830 on October 28, 1987, a spurious Engineered Safety Feature actuation occurred on Unit 2. With Unit 1 in Refueling and Unit 2 in normal power operations at 100% power, auxiliary boiler "A" experienced an internal electrical arc-over which caused an overcurrent trip of its 13.8KV supply breaker. This caused a transient on the Startup Bus 10 which resulted in closure of Unit 2 Primary Containment Isolation Valves associated with the containment atmosphere control system and various other minor system perturbations and alarms on Unit 2 and Unit 1. Unit 2 reactor power remained constant throughout the occurrence and recovery. All affected systems were promptly returned to normal operation.

Cause of the arc-over and corrective actions to prevent recurrence have not yet been determined and will be discussed in a Supplemental Report. Efforts underway include investigations into auxiliary boiler system operating procedure adequacy and procedure implementation during the event.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (If more space is required, use additional NRC Form 368A's) (17)

DESCRIPTION OF EVENT

At 0830 on October 28, 1987, a spurious Engineered Safety Feature (ESF) actuation occurred on Unit 2. With Unit 1 in Refueling and Unit 2 in normal power operations at 100% power, auxiliary boiler "A" (EIIS Code: SA) experienced an internal electrical arc-over which caused an overcurrent trip of its 13.8KV supply breaker. This caused a transient on the Startup Bus 10 (EIIS Code: EA) which resulted in closure of the Unit 2 Div I containment atmosphere control valves (EIIS Code: IK) and other minor system perturbations on Unit 2 and Unit 1. There were no loads being fed by the "A" Auxiliary Boiler at the time of arc-over.

Unit 2 reactor power remained constant throughout the occurrence and recovery. All affected systems were promptly returned to normal operation.

CAUSE OF EVENT AND CORRECTIVE ACTION

Cause of the event and corrective actions to prevent recurrence have not yet been determined and will be discussed in a Supplemental Report. Efforts underway include investigations into auxiliary boiler system operating procedure adequacy and procedure implementation during the event.

ANALYSIS

This event was determined reportable per 10CFR50.73(a) (2) (iv) in that the unit experienced an unanticipated Engineered Safety Feature actuation when the Unit 2 containment atmosphere control valves, which are Primary Containment Isolation System Valves, closed.

There were no safety implications to the public during this occurrence, nor would there have been any if the occurrence took place during any other condition. During the occurrence, the affected valves, which are for sampling purposes only, failed to the safe (closed) position and were successfully reopened after the electrical transient without problems.

ADDITIONAL INFORMATION

Previous Similar Events: Similar electrical transients caused by auxiliary boiler arc-overs have occurred in the past as reported in LER's 82-065, 84-043, and 87-010.



Pennsylvania Power & Light Company

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November 30, 1987

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 87-012-00
ER 100450 FILE-R41-2
PLAS - 286

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

Attached is Licensee Event Report 87-012-00. This event was determined reportable per 10CFR50.73(a)(2)(iv), in that the unit experienced an unanticipated Engineered Safety Feature actuation when Primary Containment Isolation System valves associated with the containment atmosphere control system closed.

E. G. Byram
Superintendent of Plant - Susquehanna

RGS/cmw

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