

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9012190198 DOC.DATE: 90/12/14 NOTARIZED: NO DOCKET #
 FACIL:50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
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 LLOYD,H. Pennsylvania Power & Light Co.
 STANLEY,H.G. Pennsylvania Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 90-029-00:on 901116,standby gas treatment sys fan auto started when sys inlet dampers opened.Caused by procedural inadequacy.Applicable procedures revised to address drywell restrictions.W/901214 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:LPDR 1 cy Transcripts. 05000387

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	NRR/DET/EMEB 7E	1 1	NRR/DLPQ/LHFB11	1 1
	NRR/DLPQ/LPEB10	1 1	NRR/DOEA/OEAB	1 1
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	NRR/DST/SICB 7E	1 1	NRR/DST/SPLB8D1	1 1
	NRR/DST/SRXB 8E	1 1	REG-FILE 02	1 1
	RES/DSIR/EIB	1 1	RGN1 FILE 01	1 1
EXTERNAL:	EG&G BRYCE,J.H	3 3	L ST LOBBY WARD	1 1
	NRC PDR	1 1	NSIC MAYS,G	1 1
	NSIC MURPHY,G.A	1 1	NUDOCS FULL TXT	1 1
NOTES:		2 2		

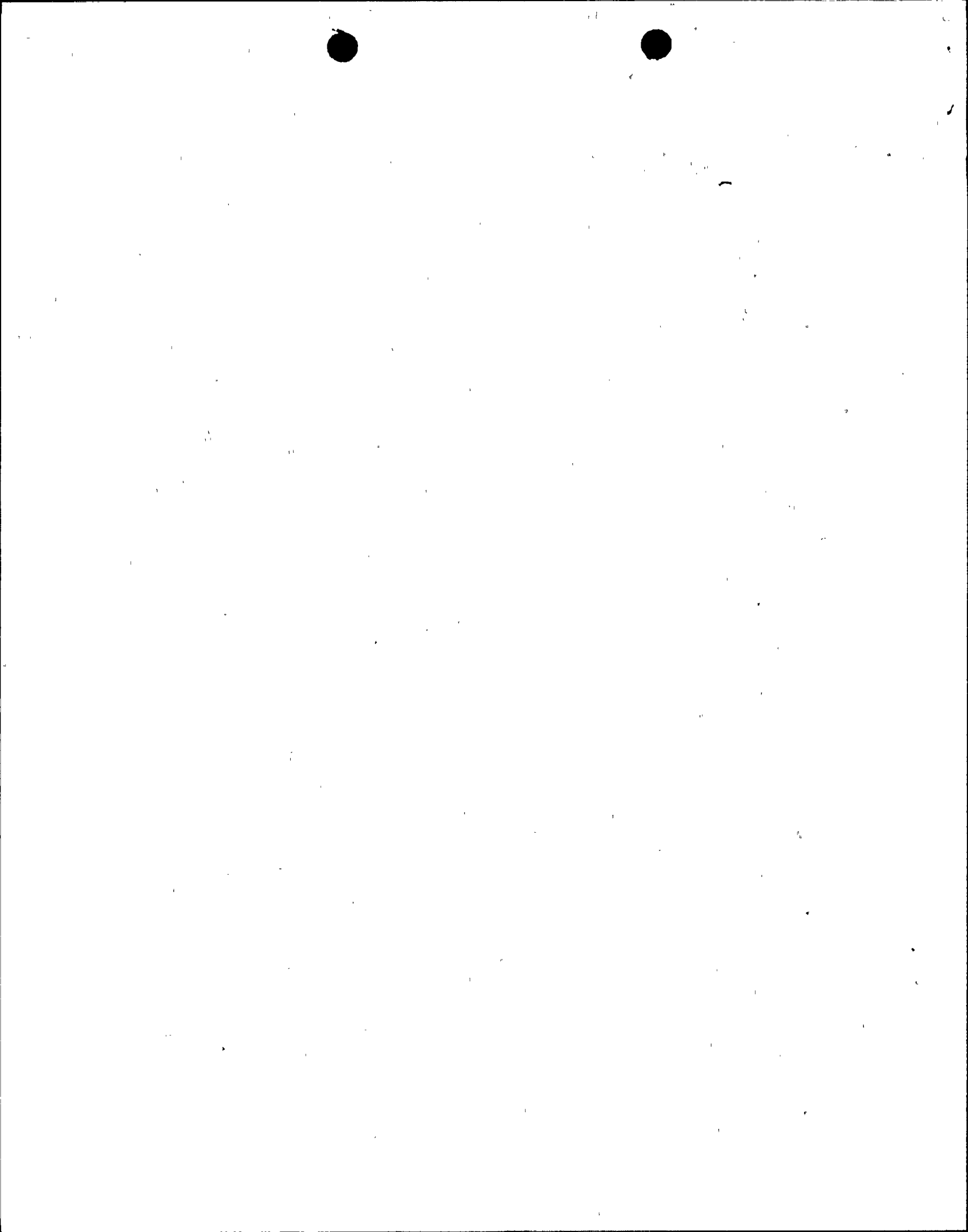
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December 14, 1990

U.S. Nuclear Regulatory Commission
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SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 90-029-00
FILE R41-2
PLAS - 461

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

Attached is Licensee Event Report 90-029-00. This report is being made pursuant to 10CFR50.73(a)(2)(iv), in that an unplanned ESF actuation occurred when the 'B' Standby Gas Treatment System fan automatically started during drywell/suppression chamber inerting operations due to procedural inadequacy. Procedures have been revised appropriately.

TC Dalrymple

H.G. Stanley
Superintendent of Plant - Susquehanna

HL/mjm

cc: Mr. T. T. Martin
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
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Mr. G. S. Barber
Sr. Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 35
Berwick, PA 18603-0035

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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 3
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TITLE (4)
Standby Gas Treatment System Fan - Unexpected Auto Start

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	1	1990	90	02	00	1	2	1990			0 5 0 0 0

OPERATING MODE (9) 2	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 4	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input checked="" 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)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input 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 H. Lloyd, Jr. - Power Production Engineer	TELEPHONE NUMBER 7 1 7 5 4 1 2 1 - 1 3 1 9 1 1 7
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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)

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 November 16, 1990, with Unit 1 in Condition 2 and a reactor startup in progress, the 'B' Standby Gas Treatment System (SGTS) fan auto-started when the system inlet dampers were opened. At the time of this event, the 'A' fan was already in service in preparation for inerting the drywell and suppression chamber. The fan start was unexpected and was caused by high inlet plenum pressure. After determination of the reason for the auto-start, the fan was stopped. The cause of the unexpected start was procedural inadequacy in that guidance in operating procedures did not provide precautions concerning drywell and/or suppression chamber pressure limitations prior to opening the inlet dampers. The event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that an unplanned ESF actuation occurred when the 'B' SGTS fan auto-started. There were no safety consequences or compromises to the public health or safety. Applicable operating procedures were revised to properly address drywell and suppression chamber pressure restrictions.



LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION.

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Unit 1 Susquehanna Steam Electric Station	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 0	- 0 2 9	- 0 0	0 2	OF	0 3

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

DESCRIPTION OF EVENT

At 1400 hours on November 16, 1990 with Unit 1 in Condition 2 (Startup) at 4% power and a reactor startup in progress, the 'B' Standby Gas Treatment System (SGTS; EIIS Code: BH) fan auto-started when dampers HD-17508A&B (Drywell/Wetwell Purge and Burp dampers) were opened. These dampers align the SGTS suction to the containment drywell or suppression chamber. At the time of this event, the 'A' SGTS fan was already in service in preparation for inerting the drywell and suppression chamber and the 'B' SGTS fan control switch was in the Auto-Lead position in accordance with the operating procedure. The start of the 'B' SGTS fan was unexpected and was caused by pressure greater than the high pressure setpoint for automatic initiation of the SGTS fan (0.06 psig) in the inlet plenum to the SGTS. After determination of the reason for the auto-start and upon verification that no other initiation signals were present, the 'B' SGTS fan was shutdown.

CAUSE OF EVENT

The cause of the autostart of the second SGTS fan was a procedural inadequacy in that no guidance was provided for ensuring Drywell and/or Suppression Chamber pressure was below the SGTS inlet header high pressure setpoint prior to opening the Drywell/Wetwell Purge and Burp Dampers HD-17508A&B. The suppression chamber pressure at the time of the event is not known since this information is not recorded on the plant history computer. Drywell pressure at the time was 0.65 psig. Drywell and suppression chamber pressure was maintained between -1 and 1.5 psig by the Containment Atmosphere Control operating procedure. Since a SGTS fan was running when HD-17508A&B were opened, and due the length of piping and ductwork from containment to the subject pressure switch, the inlet header pressure switch saw some pressure below drywell or suppression chamber pressure due to pressure drop in the system. The pressure switch setpoint is 0.06 psig. In this case, the suppression chamber and/or drywell pressure was enough to cause the inlet header pressure switch to actuate and start the second SGTS fan.

REPORTABILITY/ANALYSIS

This event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that an unplanned Engineered Safety Feature actuation occurred when the 'B' SGTS fan auto-started on high inlet plenum pressure. There were no safety consequences or compromises to the public health or safety nor would there have been under different initial operating conditions. All equipment operated properly and per design.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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		9 0	- 0 2 9	- 0 0	0 3	OF	0 3

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

In accordance with guidance provided in NUREG 1022, item 14.1 & 14.2, the required submission date for this report was determined to be 12/17/90. The event was determined to be reportable on 11/16/90 and the required ENS notification was completed at that time.

CORRECTIVE ACTION

The applicable operating procedures for the Containment Atmosphere Control system were revised to properly address drywell and suppression chamber pressure restrictions. The revisions addressed inerting and de-inerting operations.

ADDITIONAL INFORMATION

Failed Component Identification: Not applicable

Previous Similar Events:

Docket No. 50-388 LER 89-015-00 Unplanned Auto-Start of SGTS During ILRT Depressurization.

