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W ACCESSION NBR: 9302190067      DOC. DATE: 93/02/12      NOTARIZED: NO      DOCKET #  
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
 AUTH. NAME      AUTHOR AFFILIATION  
 STANLEY, H.G.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
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SUBJECT: Forwards LER 93-001-00 re invalid ESF sys actuations which occurred following momentary voltage dip on 120 volt ac power from instrument ac distribution panel.

DISTRIBUTION CODE: IE22T      COPIES RECEIVED: LTR 1 ENCL 1      SIZE: 1+3  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	AEOD/ROAB/DSP	2			2	NRR/DET/EMEB 7E	1			1
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	NRR/DOEA/OEAB	1			1	NRR/DREP/PRPB11	2			2
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	REG FILE 02	1			1	RES/DSIR/EIB	1			1
	RGNI FILE 01	1			1					
EXTERNAL:	EG&G BRYCE, J.H	2			2	L ST LOBBY WARD	1			1
	NRC PDR	1			1	NSIC MURPHY, G.A	1			1
	NSIC POORE, W.	1			1	NUDOCS FULL TXT	1			1

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A04



Pennsylvania Power & Light Company

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February 12, 1993

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

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 93-001-00  
FILE R41-2  
PLAS - 559

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

Attached is Licensee Event Report 93-001-00. This event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that unplanned invalid Engineered Safety Feature system actuations occurred following a momentary voltage dip on the 120 VAC power from an Instrument AC distribution panel. System response to the momentary loss of power was per design.

*H.G. Stanley*

H.G. Stanley  
Superintendent of Plant - Susquehanna

RRW/mjm

cc: Mr. T. T. Martin  
Regional Administrator, Region I  
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180017

*JEZ*

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 2

DOCKET NUMBER (2)  
0 5 0 0 0 3 8 8

PAGE (3)  
1 OF 0 3

TITLE (4)  
Momentary Loss of 120 VAC Instrument Power Resulted in Invalid ESF Actuations

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	1	1	4	9	3	9	3	0	0	0	1	0	0	0

OPERATING MODE (9)  1

POWER LEVEL (10) 1 0 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 checked="" type="checkbox"/> 50.73(e)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(c)(1)	<input type="checkbox"/> 50.73(e)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.38(c)(2)	<input type="checkbox"/> 50.73(e)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(e)(2)(viii)(A)	
<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(vii)(B)	
<input type="checkbox"/> 20.406(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: Richary R. Wehry, Power Production Engineer - Cmpl.

TELEPHONE NUMBER: 7 1 7 5 4 2 - 3 6 6 4

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS
B	E F	2 7	C  7 7 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)

At 0625 hours on January 14, 1993, with Unit 2 in Condition 1 at 100% power, the alarm for Instrument AC Panel 2Y226 Power Failure was received in the control room. Approximately three to five minutes later, additional alarms and invalid Engineered Safety Feature (ESF) actuations occurred as containment isolations of the Reactor Water Cleanup System, 'B' Loop of Containment Atmosphere Control and Drywell Floor Drain Sump lines. Non-ESF trips of the 'B' Containment Hi Rad Monitor and the 'B1' Containment Rad Monitor Pump and an auto swap of the Containment Instrument Gas 150 pound header to its backup nitrogen bottles also occurred. The cause for the initial Instrument AC Panel 2Y226 Power Failure alarm and the momentary voltage dip to the subject loads on Panel 2Y226 was attributed to failure of a rectifier on the Loss of Voltage Relay located in Panel 2Y226, and was considered to be an isolated failure. The relay was replaced. System response to the momentary voltage dip of the 120 VAC power was per design and there were no safety consequences or compromise to public health or safety as a result of the event.

9302190067 930212  
PDR ADOCK 05000388  
S PDR