

LICENSEE EVENT REPORT (LER)

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 2
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TITLE (4)
EPA Breaker Trips Caused 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 8	0 3	8 4	8 4	0 3 7	0 0	0 8	3 0	8 4			0 5 0 0 0
DOCKET NUMBER(S) 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)	<input checked="" type="checkbox"/>	20.408(e)	<input type="checkbox"/>	80.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
	20.408(a)(1)(i)	<input type="checkbox"/>	80.38(a)(1)	<input type="checkbox"/>	80.73(a)(2)(v)	<input type="checkbox"/>	73.71(a)	<input type="checkbox"/>			
	20.408(a)(1)(ii)	<input type="checkbox"/>	80.38(a)(2)	<input type="checkbox"/>	80.73(a)(2)(vi)	<input type="checkbox"/>		<input type="checkbox"/>			
	20.408(a)(1)(iii)	<input type="checkbox"/>	80.73(a)(2)(i)	<input type="checkbox"/>	80.73(a)(2)(vii)(A)	<input type="checkbox"/>		<input type="checkbox"/>			
	20.408(a)(1)(iv)	<input type="checkbox"/>	80.73(a)(2)(ii)	<input type="checkbox"/>	80.73(a)(2)(vii)(B)	<input type="checkbox"/>		<input type="checkbox"/>			
	20.408(a)(1)(v)	<input type="checkbox"/>	80.73(a)(2)(iii)	<input type="checkbox"/>	80.73(a)(2)(viii)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	20.408(a)(1)(vi)	<input type="checkbox"/>	80.73(a)(2)(iv)	<input type="checkbox"/>	80.73(a)(2)(ix)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

LICENSEE CONTACT FOR THIS LER (12)									
NAME L.A. Kuczynski - Nuclear Plant Specialist III							TELEPHONE NUMBER		
							AREA CODE 7 1 1 7		
							7 5 4 2 1 - 3 7 1 5 1 9		

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	EIC	BKIR	G10810	N					

SUPPLEMENTAL REPORT EXPECTED (14)				EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO							

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

On August 3, 1984, with the Unit at 100% power, the Electrical Protection Assembly (EPA) breakers on the Reactor Protection System (RPS) alternate power supply to RPS bus 'A' tripped twice within four (4) minutes. Both times, the Standby Gas Treatment System (SGTS) and Control Room Emergency Outside Air Supply System (CREOASS) started and the Reactor Water Cleanup (RWCU) Inlet Inboard Isolation valve closed. The SGTS and CREOASS are Engineered Safety Features (ESF). The RWCU valve is also part of the Primary Containment Isolation System, which is an ESF. All actuations were per design. Voltage regulating/conditioning transformers will be installed in the alternate power feed to the EPA breakers to prevent recurrence of this event. (See LER 84-036 (Unit 1) for details regarding work performed on the RPS motor-generator set.)

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	- 0 3 7	- 0 0	0 2	OF	0 2

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

Due to preventive maintenance activities being performed on the Reactor Protection System (RPS) Motor-Generator (M-G) set 'A' (Ref. LER 84-036), the RPS bus 'A' was aligned to its alternate power supply. On August 3, 1984, at 0635 and 0639, with the Unit at 100% power, the alternate power supply Electrical Protection Assembly (EPA) breakers tripped on undervoltage. This caused the unanticipated actuation of three (3) Engineered Safety Features: the Standby Gas Treatment System, the Control Room Emergency Outside Air Supply System, and a Reactor Water Cleanup valve which is part of the Primary Containment Isolation System. It is postulated that a large motor starting in the plant caused a voltage dip which was sensed by and tripped the EPA breakers. To prevent future spurious trips of the alternate power supply EPA breakers, plans have been made to install voltage regulating/conditioning transformers.



Pennsylvania Power & Light Company

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August 30, 1984

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 84-037-00
ER 100450 FILE 841-23
PLA-2294

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

Attached is Licensee Event Report 84-037-00. This event was determined reportable per 10CFR50.73(a)(2)(iv), in that due to a trip of the Reactor Protection System Electrical Protection Assembly breakers, the unit experienced two unanticipated actuations of the Standby Gas Treatment System and Control Room Emergency Outside Air Supply System, which are Engineered Safety Features.

H.W. Keiser
Superintendent of Plant-Susquehanna

LAK/pjg

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