

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Susquehanna Steam Electric Station - Unit 2DOCKET NUMBER (2)
0 5 0 0 0 3 8 8 1 OF 0 2TITLE (4)
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	2	8	5	8	5	0	0	2	0	5	0	0	0		
0	1	1	2	8	5	8	5	0	0	2	0	5	0	0	0		

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)														
POWER LEVEL (10) 0 8 1	1	20.402(b)	20.405(e)	X	80.73(a)(2)(iv)	73.71(b)										
		20.405(a)(1)(i)	80.73(a)(1)		80.73(a)(2)(v)	73.71(c)										
		20.405(a)(1)(ii)	80.38(a)(2)		80.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)										
		20.405(a)(1)(iii)	80.73(a)(2)(i)		80.73(a)(2)(viii)(A)											
		20.405(a)(1)(iv)	80.73(a)(2)(ii)		80.73(a)(2)(viii)(B)											
		20.405(a)(1)(v)	80.73(a)(2)(iii)		80.73(a)(2)(ix)											

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

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		
A	*	**	**	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 January 12, 1985, while completing a modification to the 'B' Reactor Protection System (RPS) alternate source transformer, a non-licensed, non-utility electrician caused the RPS motor generator (M-G) set to trip when his wrench slipped and came in contact with an energized conductor. This resulted in the start of the Standby Gas Treatment System (SGTS) and Control Room Emergency Outside Air Supply System (CREOASS), which are Engineered Safety Features (ESF). Also, the reactor Water Cleanup (RWC) Pump Suction Inboard and Outboard Isolation valves shut. These valves are part of the Primary Containment Isolation System, another ESF. The electrician failed to use proper protective equipment, did not isolate the equipment being worked upon, and did not insulate the tools being used. The craft electricians received a briefing about the event. Work on the system modification was successfully completed on January 14, 1985.

* Reactor Protection System
** Not Applicable

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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

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

On January 12, 1985, a non-licensed, non-utility electrician was installing an instrument ground as part of a modification to the 'B' Reactor Protection System (RPS) alternate source transformer. The wrench being used by the electrician to tighten the ground connection slipped and came in contact with an energized conductor. This caused the 'B' RPS motor-generator to trip and resulted in the following unanticipated Engineered Safety Feature (ESF) actuation:

- the Standby Gas Treatment System (SGTS) started
- the Control Room Emergency Outside Air Supply System (CREOASS) started
- the Reactor Water Cleanup System (RWCU) pumps suction inboard and outboard isolation valves closed. These valves are part of the Primary Containment Isolation System (PCIS).

The electrician failed to use proper protective equipment, did not isolate the energized conductor and did not insulate the tools being used. These were cognitive errors; he had received training on November 8, 1984, regarding proper work practices when working in energized equipment. The modification was completed after the non-utility electricians received re-training on the use of rubber goods on electrical equipment and work practices around energized equipment and apparatus in tight or close areas. A follow-up training session was held after completion of the modification using before and after pictures of the area where the event occurred. Emphasis was placed on how to protect tools and prevent personnel from coming in contact with energized equipment and the proper use of rubber goods. A Safety Memo dated February 1, 1985, was issued to the appropriate utility supervisors for their use in tailboard safety meetings.



Pennsylvania Power & Light Company

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February 8, 1985

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 85-002-00
ER 100450 FILE 841-23
PLAS- 037

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

Attached is Licensee Event Report 85-002-00. This event was determined reportable per 10CFR50.73(a)(2)(iv), in that the Unit experienced an unanticipated actuation of the Standby Gas Treatment System (SGTS) and the Control Room Emergency Outside Air Supply System (CREOASS), which are Engineered Safety Features. Also affected were two primary containment isolation valves.

H.W. Keiser
Superintendent of Plant-Susquehanna

LAK/pjg

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