VRC Form 9-83)	LICENSEE EVENT REPORT (LER)										U.S. 1	NUCLEAR REGULATORY COMMISSION APTROVED OMB NO. 3150-0104 EXPIRES 8/31/85								
PACILITY NAME (1)											DOCK	OCKET NUMBER (2)				PAG	E (3)			
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MODE (8)			-	20.402(b) 20.406(s)(1)(i)			20.406(c) 90.36(c)(1)			×	50.73(a)(2)(iv) 50.73(a)(2)(v)			F	73.71(b) 73.71(c)					
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YE	LICENSEE CONTACT FOR THIS LER (12) ME L.A. KUCYSRKI - NUCLEAR Plant Specialist III COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) AUSE SYSTEM COMPONENT MANUFAC. REPORTABLE TO NPROS A E I C M 101 I G 10 8 10 Y A E I C M 101 I G 10 Y A E I C M 101 I G 10 Y A E I C M 101 I					1	1	1												

Due to a buildup of grease in the motor of the 'A' Reactor Protection System (RPS) Motor-Generator (M-G) Set, a short circuit to ground developed which tripped the M-G Set. This resulted in the unanticipated start of the Standby Gas Treatment System and the Control Room Emergency Outside Air Supply System, which are engineered safety features.

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U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

ACILITY NAME (1)		DOCKET NUMBER (2)		ER NUMBER (6)	PAGE (3)			
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SUSQUEHANNA STEAM ELECTRIC S	Unit I STATION -	0 5 0 0 0 3 8 7	814-	036	- 010	0 2	OF	01

The failure of the Reactor Protection System (RPS) Motor Generator (M-G) set motor on July 24, 1984, was attributed to a buildup of grease in the motor windings. The excessive grease resulted from an increased lubrication frequency initiated in response to a significant rattle in the M-G set's flywheel bearing. Inadvertently, in addition to the flywheel bearing, the lubrication frequency of all points on the M-G set was increased. The lubrication was performed by non-licensed, utility personnel, and the excessive lubrication was due to a cognitive error associated with an activity not covered by a work authorizing document. The M-G set motor failure caused an RPS M-G set 'A' trip with a resulting start of the Standby Gas Treatment System (SGTS) and the Control Room Emergency Outside Air Treatment System (CREDASS) which are Engineered Safety Features.

Within three minutes, Operations personnel checked the actual physical status of the RPS M-G set, determined that it could not readily be put back in service and restored power to the RPS bus using its alternate feed. Following its start, the CREOASS tripped due to low differential temperature across the train's heaters. This is a condition that had been identified in the past and will be corrected by relocating one of the train's temperature elements and adjusting the trip paramets. The RPS M-G set 'A' motor was replaced, tested, and placed in service on July 25, 1984.

On August 3, 1984, a preventive maintenance activity was completed on the RPS M-G set 'A' which performed the following:

- cleaned, inspected and changed bearings (as necessary);
- cleaned the generator field windings, rotor windings and generator internals;
- visually checked the stator frame, windings, wedges, end turns, rotor frame and windings, exciter frame and windings.

Normal lubrication frequencies are controlled by approved preventive maintenance documents which have been reviewed and revised to agree with vendor recommendations.



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

August 21, 1984

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

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 84-036-00 ER 100450 FILE 841-23 PLA- 2287

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

Attached is Licensee Event Report 84-036-00. This event was determined reportable per 10 CFR 50.73 (a)(2)(iv) in that a short in the Reactor Protection System Motor-Generator Set 'A' motor caused the associated Electrical Protective Assembly breaker to trip and cause an actuation of the Standby Gas Treatment System and Control Room Emergency Outside Air Supply System.

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H.W. Keiser Superintendent of Plant-Susquehanna

LAK/elo

cc: Dr. Thomas E. Murley Regional Administrator, Region I U.S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA 19406

> Mr. R.H. Jacobs Senior Resident Inspector U.S. Nuclear Regulatory Commission P.O. Box 52 Shickshinny, PA 18655

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