NRC Forg	LICENSEE EVENT REPORT (LER)										U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85								
FACILITY NAME (1)												DOCKET NUMBER (2)							
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TITLE (4)																			
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MCDE (9)			20	20.402(b)			20.406(c)			80.73(a)(2)(iv)		73,71(b)							
POWER LEVEL O O			30	20.406(a)(1)(i)			80.36(c)(1)			50.73(a)(2)(v)		73.71(c)							
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			20	406(a)(1)(iv)	50.73(a)(2)(ii)				90,73(a)(2)(viii)										
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Jeffrey A. Hirt, Engineer Level I											AREA CODE	514121-1319111							
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On March 15, 1986 at approximately 1100 hours a half scram was generated on Division I of the Reactor Protection System (RPS) by a noise induced upscale trip of the 'C' and 'G' Intermediate Range Monitors (IRM's). Since a half scram was present on Division II of RPS, from a maintenance inspection of HFA Relay contacts, a full scram signal was engendered. No control rod movements occurred, and none were required, because the reactor was defueled with all rods already inserted. The noise spike resulted from the cycling of a relay during an Instrument and Control surveillance procedure. After the IRM's returned to their downscale position the Division I RPS actuation was cleared. No further action is planned.

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YES (If yes, complete EXPECTED SUBMISSION DATE)

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

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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)									LI	ER NUMBER (6	PAGE (3)					
Susquehanna Steam Electric	-								YEAR		SEQUENTIAL NUMBER		REVISION NUMBER	147			
Station - Unit 1	0	5	0	0	0	3	8	7	8 6	-	0 0 9	_	010	0 2	OF	0	12

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

On March 15, 1986, at approximately 1100 hours, a half scram signal was generated on Division I of the Reactor Protection System (RPS) (EIIS Code: JC) by a noise induced upscale trip of the 'C' and 'G' Intermediate Range Monitors (IRM's) (EIIS Code: IG). Since a half scram was present on Division II of RPS, from a Maintenance inspection of HFA Relay contacts, a full scram signal was produced. No control rod movements occurred, and none were required, because all rods were already inserted into the core.

At the time of the scram, Unit One was shutdown for its second refueling outage. The reactor was defueled for workers to inspect the steam dryer support brackets. Unit Two was unaffected and continued operation at approximately 100%. When the IRM detectors are near irradiated fuel, or other neutron sources, the signal pulses normally generated would suppress any noise spikes. However, with the vessel defueled and no other neutron sources present, an unsuppressed noise spike caused the 'C' and 'G' IRM Channels to exceed 120 units of 125 units full scale. This resulted in the generation of a half scram in Division I of RPS.

The noise was the result of cycling a relay during Instrument and Control (I&C) surveillance procedure SI-183-412 '18 Month Response Time Test of Main Steam Line Pressure Channels PSL-B21-N015A,B,C, and D.' The procedure instructs technicians to attach a recorder across two contacts of relay B21H-K4C and to a pressure switch for the 'C' Main Steam Line. The recorder is used to measure the time between the tripping of the switch and the actuation of the relay. The cable, which connected the relay to the recorder, was located close to the 'C' and 'G' IRM drawers. It appears that when the relay cycled, the signal on the cable induced a noise spike in the 'C' and 'G' IRM drawers causing them to exceed their trip setpoints.

After the IRM's returned to their downscale positions the Division I RPS actuation was cleared. No further action is planned.



## Pennsylvania Power & Light Company

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

April 14, 1986

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

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 86-009-00 FILE R41-2 PLAS- 162

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

Attached is Licensee Event Report 86-009-00. This event was determined reportable per 10CFR50.73(a)(2)(iv), in that an automatic actuation of the Reactor Protection System, an Engineered Safety Feature, occurred as a result of two Intermediate Range Monitor channels exceeding their upscale trip setpoints.

T.M. Crimmins, Jr.

Superintendent of Plant-Susquehanna

JAH/pjg

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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