

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Susquehanna Steam Electric Station - Unit 2DOCKET NUMBER (2)  
0 5 0 0 0 3 8 8PAGE (3)  
1 OF 0 2TITLE (4)  
RPS Actuation on Spurious IRM SignalEVENT DATE (5)  
MONTH DAY YEAR  
0 4 0 5 8 4 8 4  
LER NUMBER (6)  
YEAR SEQUENTIAL NUMBER REVISION NUMBER  
8 4 0 0 1 0 0 0 5  
REPORT DATE (7)  
MONTH DAY YEAR  
0 4 8 4  
OTHER FACILITIES INVOLVED (8)  
FACILITY NAMES  
DOCKET NUMBER(S)  
0 5 0 0 0 0THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)  
OPERATING MODE (9) 5  
POWER LEVEL (10) 0 0 0  
20.402(b) 20.405(c) X 50.73(a)(2)(iv) 73.71(b)  
20.406(a)(1)(i) 50.36(e)(1) 50.73(a)(2)(v) 73.71(c)  
20.406(a)(1)(ii) 50.36(e)(2) 50.73(a)(2)(vii) OTHER (Specify in Abstract below and in Text, NRC Form 365A)  
20.406(a)(1)(iii) 50.73(a)(2)(i) 50.73(a)(2)(viii)(A)  
20.406(a)(1)(iv) 50.73(a)(2)(ii) 50.73(a)(2)(viii)(B)  
20.406(a)(1)(v) 50.73(a)(2)(iii) 50.73(a)(2)(ix)LICENSEE CONTACT FOR THIS LER (12)  
NAME L.A. Kuczynski - Nuclear Plant Specialist-III  
TELEPHONE NUMBER  
AREA CODE 7 1 1 7 5 4 2 - 3 7 5 1 9COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)  
CAUSE SYSTEM COMPONENT MANUFAC. TURER REPORTABLE TO NPRDS  
B I G A M P G 0 8 0 NSUPPLEMENTAL REPORT EXPECTED (14)  
YES (If yes, complete EXPECTED SUBMISSION DATE) X NO  
EXPECTED SUBMISSION DATE (15)  
MONTH DAY YEARABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)  
On April 5, 1984, during initial fuel load, the unit experienced a Reactor Protection System actuation on a spurious signal from Intermediate Range Monitor Channel 'D'. The channel's voltage preamplifier was replaced and the channel has worked properly since.8405080318 840504  
PDR ADOCK 05000388  
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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)  Susquehanna Steam Electric Station  Unit 2	DOCKET NUMBER (2)  0 5 0 0 0 3 8 8	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	— 0 0 1	— 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On April 5, 1984, during initial fuel load, the unit experienced a Reactor Protection System (RPS) actuation on a spurious signal from Intermediate Range Monitor (IRM) Channel 'D'. The scram was able to be immediately reset. IRM 'D' was not in the vicinity of the fuel loading operation. Investigation showed that opening and closing the door of the cabinet in which the channel's voltage pre-amplifier is located produced a repeatable noise signal. No other neutron monitoring instrumentation channels were affected in this manner. The IRM Channel 'D' voltage pre-amplifier was replaced and tested satisfactorily, and the channel has performed properly since.

During normal operation, the trip of a single IRM channel would result in a half scram. However, during initial fuel load and under certain circumstances while in Operational Condition 5 (Refuel), the Reactor Protection System is configured such that any Source Range, Intermediate Range or Average Power Range Monitor channel trip will yield a signal to both RPS trip channels. This provides 'non-coincident protection' (a full scram) upon the detection of localized criticality. Thus, this event, although caused by a spurious signal, resulted in system operation in a conservative manner.



Pennsylvania Power & Light Company

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U.S. Nuclear Regulatory Commission  
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Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 84-001-00  
ER 100450 FILE 841-23  
PLA-2193

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

Attached is Licensee Event Report 84-001-00. This event was determined reportable per 10CFR50.73(a)(2)(iv), in that during initial fuel load, Unit 2 experienced a Reactor Protection System actuation on a spurious Intermediate Range Monitor signal.

H.W. Keiser  
Superintendent of Plant-Susquehanna

LAK/pjg

cc: Dr. Thomas E. Murley  
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