

# CATEGORY 1

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ACCESSION NBR: 9812090233      DOC.DATE: 98/12/01      NOTARIZED: NO      DOCKET #  
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 AUTH.NAME      AUTHOR AFFILIATION  
 CODDINGTON, C.T.      Pennsylvania Power & Light Co.  
 SAUNDERS, R.F.      Pennsylvania Power & Light Co.  
 RECIP.NAME      RECIPIENT AFFILIATION

SUBJECT: LER 98-017-00: on 981103, incomplete channel function test of SRM channels was noted. Caused by incomplete acceptance criteria. Completed channel calibration SRs & revised surveillance functional TPs. With 981201 ltr.

DISTRIBUTION CODE: IE22T      COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc:

NOTES:

05000387<sup>G</sup>

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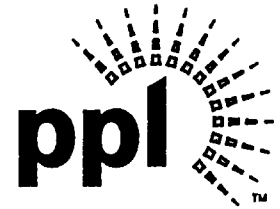
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Robert F. Saunders  
Vice President - Nuclear Site Operations

Susquehanna Steam Electric Station.  
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DEC 01 1998

U.S. Nuclear Regulatory Commission  
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SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 50-387/98-017-00  
PLA - 0005012 FILE R41-2

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

Attached is Licensee Event Report 50-387/98-017-00. This event was determined to be reportable per 10CFR50.73(a)(2)(i)(B) in that the channel functional test surveillances for the Source Range Monitors did not include the indication portion of the channels as acceptance criteria as stated in the Technical Specification Bases.

A handwritten signature in cursive script, appearing to read "Robert F. Saunders".

Robert F. Saunders  
Vice President - Nuclear Site Operations

Attachment

cc: Mr. H. J. Miller  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

cc: Sr. Resident Inspector  
U.S. Nuclear Regulatory Commission  
P. O. Box 35  
Berwick, PA 18603-0035

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**LICENSEE EVENT REPORT (LER)**

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 50.0 HRS. REPORTED LESSONS LEARNED ARE INCORPORATED INTO THE LICENSING PROCESS AND FED BACK TO INDUSTRY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1	DOCKET NUMBER (2) 05000387	PAGE (3) 1 OF 3
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TITLE (4)  
Incomplete Channel Functional Test Of SRM Channels

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 NAME	DOCKET NUMBER
11	3	98	98	017	00	12	1	98	Susquehanna SES - Unit 2	05000388
									FACILITY NAME	DOCKET NUMBER
										05000

OPERATING MODE (9) 1

POWER LEVEL (10) 100

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more) (11)

20.2201(b)	20.2203(a)(2)(v)	X	50.73(a)(2)(i)	50.73(a)(2)(viii)
20.2203(a)(1)	20.2203(a)(3)(i)		50.73(a)(2)(ii)	50.73(a)(2)(x)
20.2203(a)(2)(i)	20.2203(a)(3)(ii)		50.73(a)(2)(iii)	73.71
20.2203(a)(2)(ii)	20.2203(a)(4)		50.73(a)(2)(iv)	OTHER
20.2203(a)(2)(iii)	50.36(c)(1)		50.73(a)(2)(v)	Specify in Abstract below or in NRC Form 366A
20.2203(a)(2)(iv)	50.36(c)(2)		50.73(a)(2)(vii)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Cornelius T. Coddington - Senior Engineer, Licensing	TELEPHONE NUMBER (Include Area Code) 717 / 542-3294
--	--

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE).	X	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On November 3, 1998 with Unit 1 in Mode 1 (Power Operation) at 100% power and Unit 2 in Mode 1 (Power Operation) at 100% power, engineering personnel (utility; non-licensed) determined that the Source Range Monitor channel functional test surveillances did not include the indication portion of the channels as acceptance criteria. A review of Technical Specifications concluded that the indication portion of the channel should have been included as acceptance criteria both before and after ITS. The SRMs were declared inoperable. The need to include the indication portion of the SRM channel as acceptance criteria in the channel functional test surveillances had not been recognized in 1982 when the channel functional test surveillances had been initially developed. Although the indicators were not tested against acceptance criteria, the calibration procedures for the SRM channels did ensure that the indicator loops were calibrated to the appropriate tolerances. Therefore, the lack of having the indication portion of the SRM channels as part of the acceptance criteria for the channel functional test surveillances had no safety consequences or compromises to the health and safety of the public. This event has been determined to be reportable per 10CFR50.73(a)(2)(i)(B). Completed corrective actions include: completion of the channel calibration surveillance requirements and revision to surveillance functional test procedures to include indication as acceptance criteria. The calibration procedures and refueling outage channel functional test surveillance procedures will be revised to include indication as acceptance criteria.

**LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION**

FACILITY NAME (1)	DOCKET	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Susquehanna Steam Electric Station - Unit 1	05000				2 OF 3
	387	98	-- 017	-- 00	

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

**EVENT DESCRIPTION**

On November 3, 1998 with Unit 1 in Mode 1 (Power Operation) at 100% power and Unit 2 in Mode 1 (Power Operation) at 100% power, engineering personnel (utility; non-licensed) determined that the Source Range Monitor (SRM; EIS Code: I) channel functional test surveillances did not include the indication portion of the channels as acceptance criteria. A review of Technical Specification Bases 3.3.1.2 and of the definition of channel functional test was being conducted as part of the Improved Technical Specification (ITS) Project. The review concluded that the indication portion of the channel should have been included as acceptance criteria both before and after ITS. The SRMs were declared inoperable. Since both units were in Modes that did not require the SRMs to be operable, no Limiting Conditions for Operation were entered. The SRM channel calibration surveillance requirements were successfully completed and the SRMs declared operable.

**CAUSE OF EVENT**

The need to include the indication portion of the SRM channel as acceptance criteria in the channel functional test surveillances had not been recognized in 1982 when the channel functional test surveillances had been initially developed.

**REPORTABILITY/ANALYSIS**

This event deals with SRM Control Room indication only. Although the indicators were not tested against acceptance criteria, the calibration procedures for the SRM channels did ensure that the indicators were calibrated to the appropriate tolerances. Also, the channel checks performed on the SRM channels ensured the indicators were performing properly for plant conditions. An indicator failure would be immediately observed. Therefore, the lack of having the indication portion of the SRM channels as part of the acceptance criteria for the channel functional test surveillances had no safety consequences or compromises to the health and safety of the public. This event has been determined to be reportable per 10CFR50.73(a)(2)(i)(B).

In accordance with the guidelines provided in NUREG-1022, Revision 1 Section 5.1.1, the required submission date for this report was determined to be December 3, 1998.

**CORRECTIVE ACTIONS**

Corrective actions that have been completed include:

- Satisfactorily completed SRM channel calibration surveillance requirements.
- Revised weekly channel functional test procedures to include the indication as acceptance criteria.

**LICENSEE EVENT REPORT (LER)**  
**TEXT CONTINUATION**

FACILITY NAME (1)	DOCKET	LER NUMBER (6)			PAGE (3)
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Susquehanna Steam Electric Station - Unit 1	05000				3 OF 3
	387	98	-- 017	-- 00	

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

Corrective actions that are to be completed include:

- Revise refueling outage channel functional test procedures to include indication as acceptance criteria.
- Revise channel calibration procedures to include indication as acceptance criteria.

**ADDITIONAL INFORMATION**

Past Similar Events: Docket No. 50-387 LER 95-012-00  
 LER 98-004-00\*  
 LER 98-010-00\*  
 LER 98-012-00\*

Docket No. 50-388 LER 93-008-00

\* Identified during reviews for the ITS Project

Failed Component: None