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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 DAVIS, S.E. Pennsylvania Power & Light Co.
 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-023-00: on 881108, openings through 3 h fire rated
 barriers between diesel generator bays discovered. W/8 ltr.

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 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: LPDR 1 cy Transcripts. 05000387

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	<u>REG FILE 02</u>	1 1	RES/DSIR/EIB	1 1
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NOTES: 2 2

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	PAGE (3) 1 OF 0 3
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TITLE (4)
Openings found through fire rated barriers

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)
1	1	0 8 8 8 8	8 8	0 2 3	0 0	1 2	1 9	8 8	SSSES - Unit 2	0 5 0 0 0 3 8 8

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 1 0 0	20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)			
	20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)			
	20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)			
	20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)					
	20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)					
20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)						

LICENSEE CONTACT FOR THIS LER (12)							TELEPHONE NUMBER				
NAME S.E. Davis, Site Fire Protection Engineer							AREA CODE 7 1 7		5 4 2 - 3 9 1 5		

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	

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 November 8, 1988, with Unit 1 at 100% power and Unit 2 at 100% power, it was discovered during scaffold erection that openings exist through the three hour fire rated barriers between Diesel Generator Bays A and C, C and B, and B and D. A nonconformance report (NCR) was generated. The openings exist where "she-bolts" and their tie rods have been removed from the walls. She-bolts and tie rods were used during construction as form ties on the formwork for the concrete walls and were normally left embedded in the walls. Upon notification of the openings in the walls, the required compensatory actions were implemented per Technical Specification 3.7.7. As the exact date when these openings came to exist cannot be determined, it is assumed that this condition has existed since construction and this occurrence is being reported per 10CFR50.73(a)(2)(i)(B). This event was determined to be reportable on November 16, 1988. The openings will be sealed to provide a three hour fire rated barrier in accordance with the disposition of the non-conformance report.

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PDR ADOCK 05000387
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Unit 1 Susquehanna Steam Electric Station	0 5 0 0 0 3 8 7	8 8	- 0 2 3	- 0 0	0 2	OF	0 3

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

DESCRIPTION OF EVENT

On November 8, 1988 with Unit 1 at 100% power and Unit 2 at 100% power it was discovered during scaffold erection that openings exist through the three hour fire rated barriers between Diesel Generator Bays A and C, C and B, and B and D. The openings exist where "she-bolts" and their tie rods have been removed from the walls. She-bolts and tie rods were used during construction as form ties on the formwork for the concrete walls and were normally left embedded in the walls.

CAUSE OF THE EVENT

The cause of the event could not be directly determined, however, it is apparent that construction personnel error was involved in that the holes were not filled during construction and that this deficiency was not identified during the performance of SM-113-010, "18 Month Inspection of Fire Barriers and Penetration Seals". It appears that sometime since construction of the walls some of the she-bolts and tie bars have been removed. Discussions with construction personnel have indicated that standard practice during construction of this building was to repair only holes in high traffic areas and areas which were to receive epoxy coatings. The specific areas identified did not meet that criteria therefore, the subject holes were not repaired during construction. This personnel error was not a cognitive error and was contrary to an approved Engineering Specification and an approved surveillance procedure.

REPORTABILITY/ANALYSIS

On November 16, 1988 this event was determined to be reportable per 10CFR50.73(a)(2)(i)(B) in that these holes are through fire rated barriers which are required to satisfy Technical Specification 3.7.7. This event caused no safety consequences or compromise to public health or safety. Had a fire occurred on either side of the fire barrier, the possibility of fire spread to the adjoining fire area existed. The probability of the fire spreading to the adjoining fire area, however, is minimal due to the small size of the holes (1½" to 3/4").

CORRECTIVE ACTIONS

Upon discovery of the holes, an NCR was initiated to document the discrepancy and the required compensatory actions per Technical Specification 3.7.7 were implemented (hourly firewatch patrol with operable detection in the area). The openings will be sealed to provide a three hour fire rating for the fire barrier in accordance with the disposition of the NCR.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Unit 1 Susquehanna Steam Electric Station	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	LER NUMBER (6)			PAGE (3)		
		YEAR 8 8	SEQUENTIAL NUMBER - 0 2 3	REVISION NUMBER - 0 0			

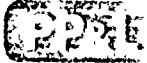
TEXT (If more space is required, use additional NRC Form 366A's) (17)

ADDITIONAL INFORMATION

Failed Component: None

Previous Similar Events: The below listed LERs identify conditions where unsealed openings were found through fire rated barriers.

- 1-84-046-00
- 1-87-009-00
- 1-87-011-00
- 2-84-026-00



Pennsylvania Power & Light Company

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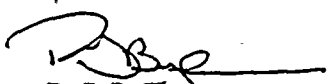
November 19, 1988

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 88-023-00
FILE R41-2
PLAS - 348

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

Attached is Licensee Event Report 88-023-00. This event was determined to be reportable, in that openings were discovered through fire rated barriers. As the exact date when this condition originated could not be determined, this occurrence is being reported per 10CFR50.73(a)(2)(i)(B).


R.G. Byram
Superintendent of Plant - Susquehanna

SED/mjm

cc: Mr. W. T. Russell
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. F. I. Young
Sr. Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 35
Berwick, PA 18603-0035

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