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FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
AUTH. NAME AUTHOR AFFILIATION
WALLEN, C. L. Pennsylvania Power & Light Co.
BYRAM, R. G. Pennsylvania Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-001-00: on 870331, non fire rated penetration existed beneath control room raised floor. Caused by personnel leaving penetration unsealed after eletrical conduit added. Work crews installed nonspec seal. W/870430 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387

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	NRR/PMAS/PTSB	1	1	REG FILE 02	1	1
	RES SPEIS, T	1	1	RGN1 FILE 01	1	1
EXTERNAL:	EG&G GROH, M	5	5	H ST LOBBY WARD	1	1
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NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

LICENSEE EVENT REPORT (LER)

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

TITLE (4)
Fire Barrier Not Properly Sealed

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)
0 3	3 1	8 7	8 7	— 0 1 1 —	0 0	0 4	3 0	8 7	SSES Unit 2	0 5 0 0 0 3 8 8
										0 5 0 0 0

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)

NAME	TELEPHONE NUMBER (AREA CODE)
Craig L. Wallen Compliance Evaluator	7 1 7 5 4 2 - 3 9 1 3

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
B	1 C	P E N	X 9 9 9	N					

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

ABSTRACT

On March 31, 1987, with Units 1 and 2 operating at 100% power, it was determined that a non-fire rated penetration existed beneath the Unit 2 Control Room Raised Floor. This opening requires a fire barrier and is not visible or readily accessible unless the raised flooring sections are removed.

During work in the area, work crews discovered that a nearby penetration was unsealed. Corrective action was initiated by identifying the condition to supervisory personnel. Subsequently, work crews installed a nonspecification seal. Followup planning activities, including a penetration inspection, determined that a nonspecification seal was installed as an interim measure. This condition was identified as a deficiency and documented as a nonconformation to specifications. Initial reviews regarded the condition as non-reportable because of the non-Q status of the panel it serves. A subsequent review determined that Technical Specification 3.7.7.a requirements were not met and that the condition was reportable in accordance with 10CFR 50.73(a)(2)(i)(B). A fire watch has been established in accordance with Technical Specification 3.7.7.a wherein all fire seals and penetrations shall be operable or a fire watch be established. A letter was issued to all appropriate personnel re-emphasizing penetration sealing must be performed in accordance with PP&L specification C-1027.

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PDR ADOCK 05000387
S PDR

DESCRIPTION OF EVENT

On March 31, 1987 with Units 1 and 2 operating at 100% power it was determined that a non-fire rated penetration seal existed beneath the Unit 2 control room raised floor. Penetration (X-21-5-183) is inside panel 2C-600 (Process Radiation Recorder Vertical Board) and was discovered unsealed while work was being performed in an adjacent area. Fire detection (EIIS Code IC) zones 026H control room 729 elevation, and 025A lower cable spreading room 714 elevation are affected.

CAUSE OF EVENT

Investigation determined that prior to commercial operation of Unit 2, an electrical conduit (F2M085) was added to penetration X-21-5-183 by Construction personnel in 1983. The work was implemented via a Design Change Package (DCP 20112). Penetration sealing was not included in the attendant documentation. Because the opening is not readily visible or accessible the penetration in question remained unsealed. Adjacent work activities revealed the open penetration where upon a work authorization (WA) was initiated to install the proper fire barrier. Further investigation/planning determined that a dust/moisture seal at this penetration was nonconforming to specifications and required a nonconformance report. This originally was determined to be not reportable as the 2C600 panel is Non-Q.

REPORTABILITY/ANALYSIS

This event was determined reportable per 10 CFR 50.73 (a)(2)(i)(B) in that it violates Technical Specification 3.7.7.a, wherein all fire seals and penetrations shall be operable or a fire watch be established. A fire watch could not be verified as having been established since the original work performed in 1983, therefore this event is determined to be reportable. Both the Fire Detection and Suppression systems in the lower cable spreading room and the underfloor in the Control Room have been successfully tested and would have performed their intended function if required.

CORRECTIVE ACTION

A Limiting Condition of Operation (LCO) was entered and a fire watch established per Technical Specification 3.7.7.a.

Per NCR. 87-0049 and WA V73267 the existing seal was removed and the proper fire rated seal installed on April 13, 1987. The LCO and fire watch continue pending closure of the documenation. Letter PLIS-26009 was issued to all appropriate personnel iterating penetration sealing must be performed in accordance with PP&L Specification C-1027.

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

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

A review of fire protection zones and boundaries was performed against 10CFR50 Appendix R requirements which included field inspections. The necessary upgrades and enhancements will be implemented accordingly. Additionaly a requirement will be added to applicable station procedures requiring Fire Protection Engineer review of fire-protection related Nonconformance Report (NCRs) for reportability.

PP&L Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

April 30, 1987

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 87-011-00
FILE R41-2
PLAS - 248

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

Attached is License Event Report 87-011-00. This event was determined reportable per 10CFR 50.73(a)(2)(i)(B), in that a penetration was not properly fire rated and no compensatory fire watch could be verified to have been in place for the entire duration as required by the Action of Technical Specification 3.7.7.a.

R. G. Byram
Superintendent of Plant - Susquehanna

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