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ACCESSION NBR: 9105070218 DOC. DATE: 91/05/02 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME AUTHOR AFFILIATION
 DAVIS, S.E. Pennsylvania Power & Light Co.
 STANLEY, H.G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 91-003-01: on 910214, discovered that fire damper not installed in fire-rated barrier. Caused by failure to install damper during initial plant const. Continuous fire watch established in Fire Zone 0-21A.W/910502 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: LPDR 1 cy Transcripts. 05000387

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EXTERNAL:	EG&G BRYCE, J.H	3 3	L ST LOBBY WARD	1 1
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Pennsylvania Power & Light Company

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May 2, 1991

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 91-003-01
FILE R41-2
PLAS -484

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

Attached is Licensee Event Report 91-003-01. This event was determined to be reportable per 10CFR50.73(a)(2)(i)(B), in that a Fire damper was not installed in a three hour fire barrier which is required to meet Technical Specification 3.7.7 requirements. Further analysis has shown that this three hour fire barrier is not required to meet Technical Specification 3.7.7.

H.G. Stanley
Superintendent of Plant - Susquehanna

SED/mjm

cc: Mr. T. T. Martin
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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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) 0 5 0 0 0 3 8 7 1	PAGE (3) 1 OF 0 3
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TITLE (4)
Fire Damper Not Installed in Fire Rated Barrier

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	2	1	9	1	0	0	3	0	1	0	5	0	2	9	1	SSES - Unit 2	0 5 0 0 0 3 8 1 8
0	2	1	9	1	0	0	3	0	1	0	5	0	2	9	1		0 5 0 0 0 1 1

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	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 60.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 60.36(c)(1)	<input type="checkbox"/> 60.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 60.36(c)(2)	<input type="checkbox"/> 60.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 60.73(a)(2)(i)	<input type="checkbox"/> 60.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 60.73(a)(2)(ii)	<input type="checkbox"/> 60.73(a)(2)(viii)(B)							
<input type="checkbox"/> 20.455(a)(1)(v)	<input type="checkbox"/> 60.73(a)(2)(iii)	<input type="checkbox"/> 60.73(a)(2)(x)								

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

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

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 February 14, 1991 with Unit 1 and Unit 2 operating in Condition 1 at 100% and 99% power respectively, it was identified that a fire rated damper was not found in a fire rated barrier which is required to meet Technical Specification 3.7.7, and since it cannot be confirmed that a continuous firewatch was in place to meet the action statement for this Technical Specification during the entire time the damper was missing, it was determined that the condition constituted an operation prohibited by the Technical Specifications. A continuous firewatch was established. This condition is being evaluated to determine the requirement for this fire barrier. The initial evaluation appeared to indicate that this fire barrier was not required. Further evaluation has verified that this fire barrier does not separate redundant safe shutdown equipment or cables, has no effect on the safe shutdown analysis, and does not protect safety related equipment. Based upon this analysis, no operation prohibited by the Technical Specifications existed.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 1	- 0 0 3	- 0 1	0 2	OF	0 3

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

EVENT DESCRIPTION

On February 14, 1991 with Unit 1 and Unit 2 operating in Condition 1 at 100% and 99% power respectively, during review of an Engineering Discrepancy Report, no evidence could be found that a qualified fire damper was installed in the 36" x 14" HVAC duct which penetrates the west wall of fire zone 0-21A. The west wall of fire zone 0-21A is required to meet Technical Specification 3.7.7. A continuous firewatch was established in fire zone 0-21A on February 14 at 1630 hours. On February 15, it was confirmed that no fire damper was installed.

CAUSE OF EVENT

This condition appears to be the result of the fire damper not being installed during the initial construction of the plant. The damper appears on a vendor drawing (however no unique identification number was ever assigned to it). The damper does not appear on related Bechtel/PP&L drawings. The Fire Damper Surveillances did not discover this condition because the Bechtel/PP&L drawings are used as a basis for establishing the list of dampers to be surveilled.

REPORTABILITY/SAFETY ASSESSMENT

This event was determined to be reportable under 10 CFR 50.73(a)(2)(i)(B) because the failure to meet Technical Specification 3.7.7 Action a constituted an operation prohibited by the Technical Specifications.

The fire barrier provided by the west wall of fire zone 0-21A is necessary to maintain separation between fire areas. With this fire damper missing, a breach of this fire barrier is possible. However, based upon the combustible loading in the fire zones on either side of the barrier, the direction of the air flow within the ductwork, and the construction of the HVAC ductwork assembly, the propagation of a fire through the fire barrier is unlikely. With the fire damper not installed, this event created little or no significant consequences to the health and safety of the public and/or plant personnel. The safety impact of this condition would not have been greater at any other plant operating condition.

In accordance with 10CFR50.4(d), the required submission date for this report was determined to be 03/18/91.

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

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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

CORRECTIVE ACTIONS

A continuous firewatch was established in fire zone 0-21A on February 14, 1991 at 1630 hours.

An engineering analysis was performed to evaluate this condition and similar fire dampers in the area. It has been determined that this fire barrier and existing fire dampers in fire zone 0-21A do not separate redundant safe shutdown equipment or cables, have no effect on the safe shutdown analysis, and do not protect safety related equipment. Therefore, this fire barrier and associated fire dampers are being removed from the SSES Appendix A and Appendix R fire area boundary program. The applicable design documents will be revised to properly reflect this configuration. The continuous firewatch was removed on March 18, 1991.

ADDITIONAL INFORMATION

Failed Components Identification:

Previous Similar Reported Events:

LER 84-046-00 (Unit 1), 84-026-00 (Unit 2), and 87-009-00 (Unit 1 and 2) are similar events where a fire barrier was found not complete (penetration seal missing) from initial construction of the plant.



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