

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8806020096 DOC. DATE: 88/05/26 NOTARIZED: NO DOCKET #  
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388  
 AUTH. NAME AUTHOR AFFILIATION  
 DAVIS, S. E. Pennsylvania Power & Light Co.  
 BYRAM, R. G. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-008-00: on 880404, ventilation supply fire dampers for plant 4kV switchgear room II-407 chained in open position w/ no fusible link installed. Cause undetermined. Compensatory actions implemented per Tech Spec 3.7.7.W/880526 ltr.

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

NOTES: LPDR 2 cys Transcripts. 05000388

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
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	AEOD/DOA	1 1	AEOD/DSP/NAS	1 1
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	ARM/DCTS/DAB	1 1	DEDRO	1 1
	NRR/DEST/ADS 7E	1 0	NRR/DEST/CEB 8H	1 1
	NRR/DEST/ESB 8D	1 1	NRR/DEST/ICSB 7	1 1
	NRR/DEST/MEB 9H	1 1	NRR/DEST/MTB 9H	1 1
	NRR/DEST/PSB 8D	1 1	NRR/DEST/RSB 8E	1 1
	NRR/DEST/SGB 8D	1 1	NRR/DLPQ/HFB 10	1 1
	NRR/DLPQ/GAB 10	1 1	NRR/DOEA/EAB 11	1 1
	NRR/DREP/RAB 10	1 1	NRR/DREP/RPB 10	2 2
	NRR/DRIS/SIB 9A	1 1	NUDOCS-ABSTRACT	1 1
	<u>REG FILE</u> 02	1 1	RES TELFORD, J	1 1
	RES/DE/EIB	1 1	RES/DRPS DEPY	1 1
	RGN1 FILE 01	1 1		
EXTERNAL:	EG&G WILLIAMS, S	4 4	FORD BLDG HOY, A	1 1
	H ST LOBBY WARD	1 1	LPDR	2 2
	NRC PDR	1 1	NSIC HARRIS, J	1 1
	NSIC MAYS, G	1 1		
NOTES:		2 2		

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station Unit 2	DOCKET NUMBER (2) 0   5   0   0   0   3   8   8	PAGE (3) 1   OF   0   3
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TITLE (4)  
Two Fire Dampers found inoperable due to missing fusible link

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	4	0	4	8	8	8	8	8	0	0	8	0	0	8	0	0	0	5	0	0	0			0	5	0	0	0		

OPERATING MODE (9) 5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)											
POWER LEVEL (10) 0   0   0	20.4C2(b)			20.405(c)			60.73(a)(2)(iv)			73.71(b)		
	20.405(a)(1)(i)			60.38(e)(1)			60.73(a)(2)(v)			73.71(c)		
	20.405(a)(1)(ii)			60.38(e)(2)			60.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
	20.405(a)(1)(iii)			60.73(a)(2)(i)			60.73(a)(2)(viii)(A)					
	20.405(a)(1)(iv)			60.73(a)(2)(ii)			60.73(a)(2)(viii)(B)					
20.405(a)(1)(v)			60.73(a)(2)(iii)			60.73(a)(2)(x)						

LICENSEE CONTACT FOR THIS LER (12)									
NAME S.E. Davis, Site Fire Protection Engineer							TELEPHONE NUMBER		
							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 NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		

SUPPLEMENTAL REPORT EXPECTED (14)						EXPECTED SUBMISSION DATE (15)		
<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 May 2, 1988, it was determined that the following condition was reportable. With Unit 2 defueled, it was observed during performance of SM-013-009, "18 month Inspection of Fire Windows/Fire Dampers and Associated Hardware", that two ventilation supply fire dampers for Unit 2 4kV switchgear room II-407 were found to be chained in the open position with no fusible link installed. The fusible link is necessary to allow the fire damper to close in the event of a fire. This condition appears to have been overlooked during the previous performance of the surveillance. Upon notification of the inoperable fire dampers, the required compensatory actions were implemented per Technical Specification 3.7.7. As the exact date when these fire dampers became inoperable cannot be determined, this occurrence is being reported per 10CFR50.73(a)(2)(i)(B). The Fire Dampers were repaired by installation of the appropriate fusible link into the chain mechanism under Work Authorization (WA) V83578. Further review revealed that the fusible link was properly installed in the remaining six similar fire dampers at the station. The above condition is being reviewed with the appropriate inspection personnel.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 8   8	SEQUENTIAL NUMBER -   0   0   8	REVISION NUMBER -   0   0			

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

DESCRIPTION OF EVENT

With Unit 2 defueled, SM-013-009, "18 Month Inspection of Fire Windows/Fire Dampers and Associated Hardware", was performed in the Unit 2 Reactor Building. The two ventilation supply fire dampers for the 4kV Switchgear Room II-407 were found chained in the open position with no fusible link installed. The fire dampers (3-34-4-3 and 3-34-4-4) are trap door style with two doors each. The fusible link in the chain assembly holding the trap doors open is designed to melt away, defeating the chain assembly, and allowing the fire damper to close. Without the fusible link installed in the fire dampers, they would not perform their intended design function of closing during a fire to prevent the spread of the fire to the adjacent fire zone. Upon notification of the inoperable fire dampers, the required compensatory actions were implemented per Technical Specification 3.7.7. However, this condition appears to have been overlooked during the previous performance of the surveillance, as no documentation could be located which identified any work being performed on these dampers.

CAUSE OF EVENT

The cause of the event could not be determined. It appears that this condition may have existed since initial construction. A work document search was performed and no evidence was found that any work has been performed on either of these dampers. The doors were held in the proper position for normal unit operation by the chain, but without the fusible link installed, a fire could have passed from that fire zone to the adjoining fire zone, as the trap doors would not have closed as designed when called upon.

REPORTABILITY/ANALYSIS

This event was determined to be reportable per 10CFR50.73(a) (2) (i) (B) in that these dampers are part of a fire rated barrier which is 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 damper, the possibility of fire spread to the adjoining fire zone existed. However, based upon the low combustible loading of the Switchgear room and that the dampers open into a supply ventilation duct (which carries no combustibles), it is unlikely that a fire would have spread much beyond the opening. The most significant occurrence would be the spread of smoke within the building.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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   8	-   0   0   8	-   0   0	0   3	OF	0   3

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

CORRECTIVE ACTIONS

Upon discovery of the inoperable fire dampers, the required compensatory actions per Technical Specification 3.7.7. were implemented (hourly firewatch with operable detection in the area) and a work authorization (WA) was immediately initiated to repair the dampers. The fire dampers were repaired by installation of the appropriate fusible link into the chain mechanism. Further review revealed that the fusible link for the remaining six similar dampers was properly installed. The above condition is being reviewed with the inspection personnel regarding the importance of the proper completion of this surveillance.

ADDITIONAL INFORMATION

Failed Component: None

Previous Similar Events: None



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

May 26, 1988

Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 88-008-00  
FILE R41-2  
PLAS- 319

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

Attached is a Licensee Event Report 88-008-00. This event was determined reportable, in that two fire dampers were found inoperable during performance of a surveillance. As the exact date when these fire dampers became inoperable cannot be determined, this occurrence is being reported per 10CFR50.73(a) (2) (i) (B).

R.G. Byram  
Superintendent of Plant Susquehanna

SED/mjm

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