

LICENSEE EVENT REPORT (LER)

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) 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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Fire Barrier Installations Inoperable - Condition Outside Design Basis of Plant

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 7	0 9	9 2	9 2	0 1 2	0 0 0	8 0	7 9	2	SSES - Unit 2		0 5 0 0 0 3 8 8
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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)	20.406(c)	60.73(a)(2)(iv)	73.71(b)						
	20.406(a)(1)(i)	60.36(c)(1)	60.73(a)(2)(v)	73.71(c)						
	20.406(a)(1)(ii)	60.36(c)(2)	60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.406(a)(1)(iii)	X 60.73(a)(2)(i)	60.73(a)(2)(viii)(A)							
	20.406(a)(1)(iv)	X 60.73(a)(2)(ii)	60.73(a)(2)(viii)(B)							
20.406(a)(1)(v)	60.73(a)(2)(iii)	60.73(a)(2)(ix)								

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Harrison Lloyd, Jr. - Power Production Engineer	AREA CODE 7 1 7	NUMBER 5 1 4 2 1 - 1 3 9 1 1 7	

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 (16)	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) (18)

PP&L 's evaluation of NRC Bulletin 92-01 led to the conclusion that certain conduits and cable trays protected by Thermo-Lag 330 were inoperable based on the lack of sufficient documentation to prove the ability of these installations to perform their design function. This condition was determined to be reportable per 10CFR50.73(a)(2)(i)(B) as an operation prohibited by Technical Specification in that conduits containing safe shutdown cables having been determined inoperable and required fire watches not established within the required time frame. In addition, when those installations outlined in NRC Bulletin 92-01 were declared inoperable, the condition was expanded to be reportable per 10CFR50.73(a)(2)(ii)(B) as a condition outside the design basis of the plant. Our compensatory action of establishing appropriate fire watches minimizes the safety impact thus there was no significant degradation in our ability to protect the health and safety of the public and/or plant personnel. PP&L is researching available test information to demonstrate the capability of Thermo-Lag to function in all configurations at Susquehanna and preparations are being made to conduct additional testing as required. Contingency plans are being developed to address any test failures that occur. Compensatory actions currently in place will remain in effect until fire barriers can be demonstrated operable.

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TEXT CONTINUATION

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-830), 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 9 2	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		—	0 1 2	—	0 0	0 2	OF 0 3

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

DESCRIPTION OF EVENT

NRC Bulletin 92-01, "Failure of Thermo-Lag 330 Fire Barrier System to Maintain Cabling in Wide Cable Trays and Small Conduit Free From Fire Damage", issued 6/24/92, describes NRC concerns with Thermo-Lag 330 fire barrier material. Thermo-Lag fire barrier material is utilized at Susquehanna to provide fire protection for safe shutdown cables.

On July 1, 1992 precautionary fire watches were implemented for installations at Susquehanna similar to those outlined in the Bulletin. On July 9, 1992 PP&L completed an initial assessment through our discrepancy management process. The assessment at that time was that 3/4" conduit should be declared inoperable since our configuration is similar to that which failed testing at another utility. The applicable Technical Specification LCO was entered. For other installations, (i.e. - conduit greater than 3/4" and wide cable trays) the initial conclusion was that our installations are capable of providing a sufficient degree of passive fire protection based of dissimilarities between our installation and those where the failures occurred. However, there were still valid quality issues with these installations. This condition was determined to be reportable per 10CFR50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications.

Evaluation of our installations continued, and on July 17, 1992, PP&L concluded that we lack sufficient documentation to prove the ability of these installations to perform their design function as required and it was judged prudent to declare the barriers inoperable until additional research and testing could be performed. This condition constitutes a condition outside the design basis of the plant per 10CFR50.73(a)(2)(ii)(B) and the required one hour NRC notification was completed per 10CFR50.72(b)(1)(ii)(B) via the ENS. Additional Technical Specification LCO actions were entered for the applicable areas. Firewatches established previously were maintained.

CAUSE OF EVENT

Installation of Thermo-Lag 330 at Susquehanna was installed per approved procedures and programs using approved material. However, testing at another utility called into question the ability of Thermo-Lag 330 to perform its intended function resulting in issuance of NRC Bulletin 92-01. PP&L's review of the Bulletin resulted in the condition described above.

REPORTABILITY/ANALYSIS

The condition of conduits containing safe shutdown cables having been determined inoperable since initial installation was determined to be reportable per 10CFR50.73(a)(2)(i)(B) as an operation prohibited by the plant Technical Specifications in that fire watches were not

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TEXT (If more space is required, use additional NRC Form 368A's) (17)

established within the allowed time frame. Upon determination that the remaining components were considered inoperable, this condition was expanded to be reportable per 10CFR50.73(a)(2)(ii)(B) as a condition outside the design basis of the plant. There were no safety consequences as a result of this condition. Fire watches were established and fire detection systems were verified operable in all affected zones. Given this compensatory action to quickly detect a fire, the likelihood of fire damage to both divisions of safety related equipment is minimal, and therefore safety impact is minimal.

This condition would not have been more significant at any other initial operating condition.

In accordance with guidance provided in NUREG 1022, Supplement 1, item 14.1 and 10CFR50.4(d); the required submission date for the report was determined to be 8/10/92.

CORRECTIVE ACTIONS

PP&L is researching and documenting available test information to demonstrate the capability of Thermo-Lag to function in all specific configurations at Susquehanna. Where such information is found to be deficient, PP&L will conduct appropriate additional testing. It is currently anticipated that testing will be performed during fourth quarter 1992. Contingency plans will be in place to address any test failures that occur. Compensatory actions currently in place will remain in effect until the fire barriers can be demonstrated operable.

ADDITIONAL INFORMATION

Failed Component Identification: N/A

Previous Similar Events: None