

# CATEGORY 1

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ACCESSION NBR:9601160239      DOC.DATE: 96/01/10      NOTARIZED: NO      DOCKET #  
 FACIL:50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva      05000387  
 AUTH.NAME      AUTHOR AFFILIATION  
 CODDINGTON,C.T.      Pennsylvania Power & Light Co.  
 STANLEY,H.G.      Pennsylvania Power & Light Co.  
 RECIP.NAME      RECIPIENT AFFILIATION

SUBJECT: LER 95-014-00:on 951211,determined that double O-rings in flanges of TIP penetrations not tested in accordance w/ 10CFR50,App J due to inadequate LLRT procedures.Changes to TIP penetration LLRT procedures issued.W/960110 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:

05000387

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**Pennsylvania Power & Light Company**

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January 10, 1996

U.S. Nuclear Regulatory Commission  
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Washington, DC 20555

**SUSQUEHANNA STEAM ELECTRIC STATION**  
**LICENSEE EVENT REPORT 50-387/95-014-00**  
**PLAS - 659                      FILE R41-2**

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

Attached is Licensee Event Report (LER) 50-387/95-014-00. This event was determined to be reportable per 10CFR50.73(a)(2)(i) in that the double O-rings in the flanges of the TIP penetrations on both units were not tested in accordance with 10 CFR 50, Appendix J. This is a condition that is prohibited by the Technical Specifications.

  
H.G. Stanley  
VP - Nuclear Operations

Attachment

CTC/dmd

cc: Mr. T. T. Martin  
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**160031**

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PDR ADOCK 05000387  
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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 1			PAGE (3) OF 0 3		
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TITLE (4)  
Missed 10 CFR 50 Appendix J Testing

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	95	95	014	00	01	1	096	SSES - 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 5: (Check one or more of the following) (11)										
POWER LEVEL (10) 1 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 73.71(b)							
	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)							
	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(j)	<input type="checkbox"/> 50.73(a)(2)(vii)(A)								
	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(k)	<input type="checkbox"/> 50.73(1)(2)(vii)(B)								
<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(l)	<input type="checkbox"/> 50.73(a)(2)(viii)									

(LICENSEE CONTACT FOR THIS LER (12))

NAME Cornelius T. Coddington - Sr. Project Engineer, Licensing		TELEPHONE NUMBER 7 1 7 5 4 2 - 3 2 8 9	
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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)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On December 11, 1995, with Unit 1 and Unit 2 both in Condition 1 (Power Operation) at 100% power during evaluation and local leak rate test (LLRT) requirement reviews for the Unit 2 "E" Traversing Incore Probe (TIP) ball valve, PP&L determined that the double O-rings in the flanges on the TIP penetrations were not tested in accordance with 10 CFR 50, Appendix J. The volume between the double O-rings should have been tested as a separate test from the 10 CFR 50, Appendix J, Type C test of the TIP ball valves; however, during a revision to the surveillance procedures it was assumed that the TIP ball valve test would be sufficient to test the double O-ring. Failure to test in accordance with 10 CFR 50 Appendix J constitutes a condition prohibited by Technical Specifications and therefore, is reportable in accordance with 10 CFR 50.73(a)(2)(i). The double O-rings on all the TIP penetrations in both units were successfully tested within 24 hours of the discovery of the inadequate testing.



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**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 5 —	0 1 4 —	0 0	2	OF	3			

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

**EVENT DESCRIPTION**

On December 11, 1995, during evaluation and LLRT requirement reviews for the Unit 2 "E" TIP ball valve, PP&L discovered that the flange on the TIP (EIS Code: IG) penetration detail drawing showed that the double O-ring is independent of the TIP tube. The flange on the containment side has a 0.375 inch diameter tube welded to a 1.5 inch pipe blind flange. The double O-ring seals the flange to the 1.5 inch pipe opening from containment and not to the TIP tube that penetrates the flange. The double O-ring has not been Type B tested since 1985. Until 1985 the double O-ring was tested by performing a Type B test that pressurized the volume between the double O-rings. In 1985, the test procedures were revised to indicate that the flange double O-ring would be tested as part of the TIP ball valve test and the Type B test requirement was deleted. Since the procedure change in 1985, the double O-rings on both units have not been fully tested in accordance with 10 CFR 50, Appendix J. However, the double O-ring for the flange was tested during the 10 CFR 50, Appendix J Type A (ILRT) test (last performed on 5/6/92 for Unit 1 and 11/2/92 for Unit 2). Failure to test in accordance with 10 CFR 50 Appendix J constitutes a condition prohibited by Technical Specifications and therefore, is reportable in accordance with 10 CFR 50.73(a)(2)(i). Within 24 hours of the discovery of the inadequate testing, all the TIP penetration flange double O-rings on both units were successfully tested.

**CAUSE OF EVENT**

PP&L has determined that the LLRT procedures were revised in 1985 without fully understanding the detailed construction and subsequent testability of the TIP penetration. As such, the procedures did not address testing of the double O-ring.

**REPORTABILITY/ANALYSIS**

This event was determined to be reportable per 10 CFR 50.73(a)(2)(i) in that the TIP penetration flange double O-rings in both units were not tested in accordance with the requirements of 10 CFR 50, Appendix J. This constitutes a condition prohibited by Technical Specifications.

The TIP penetration flange double O-rings in both units were successfully tested in accordance with the requirements of 10 CFR 50 Appendix J. Based on this testing PP&L concluded that the TIP penetration double O-rings would have satisfactorily performed their safety function should a design basis event have occurred.

In accordance with the guidelines provided in NUREG-1022, Supplement 1, Item 14.1, the required submission date for this report was determined to be January 10, 1996.

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

**CORRECTIVE ACTIONS**

The following corrective actions have been identified:

- Changes to the TIP penetration LLRT procedures were issued to permit testing of the double O-ring.
- The LLRTs were satisfactorily performed on the TIP penetration double O-rings in both units.
- The existing LLRT procedures, test program and penetration drawings were reviewed to determine if similar situations existed, where a double O-ring penetration was not being tested due to procedural inadequacies. No additional procedural inadequacies or test deficiencies were noted.
- The LLRT surveillance procedures will be revised to show detail of the flange and double O-ring for the 10 CFR 50 Appendix J testing.

**ADDITIONAL INFORMATION**

Past Similar Events: None

Failed Component: None