

## LICENSEE EVENT REPORT (LER)

FACILITY NAME 1 Susquehanna Steam Electric Station - Unit 1										DOCKET NUMBER (2) 05000031871 OF 03										PAGE 5	
TITLE 4 Nitrogen Drywell Inerting.																					
EVENT DATE 8				LER NUMBER 6				REPORT DATE (R)				OTHER FACILITIES INVOLVED (8)									
MONTH DAY YEAR				SEQUENTIAL NUMBER REVISION NUMBER				MONTH DAY YEAR				FACILITY NAMES				DOCKET NUMBER (5)					
12 21 84				04 8 00012238				12 23 84								050000					
OPERATING MODE 9				THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § 42.49 (Check one or more of the following) (11)																	
POWER LEVEL (10)				20 4021b				20 408a				00 73a(C)(1)(i)				73.71b					
				20 408a(1)(ii)				00 30a(1)				00 73a(C)(1)(i)				73.71a					
				20 408a(1)(iii)				00 30a(2)				00 73a(C)(1)(i)				OTHER (Specify - Abstract below and a Test 40C Form 306A)					
				20 408a(1)(iv)				X 00 73a(C)(1)(i)				00 73a(C)(1)(i)(A)									
				20 408a(1)(v)				00 73a(C)(1)(i)				00 73a(C)(1)(i)(B)									
				20 408a(1)(vi)				00 73a(C)(1)(i)				00 73a(C)(1)(i)									
NAME R.W. Stanley										TELEPHONE NUMBER 717 542-3930											
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (12)																					
CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NRC											
A	J M	V		N																	
SUPPLEMENTAL REPORT EXPECTED (13)										EXPECTED SUBMISSION DATE (14)											
YES ( ) NO ( ) COMPLETE EXPECTED SUBMISSION DATE:										MONTH DAY YEAR											
X NO																					

ABSTRACT (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30)

On December 21, 1984, at 2027, a vendor's nitrogen tanker began pumping nitrogen into the plant piping without clearance for the Control Room due to the misunderstanding of the auxiliary system operator's instructions. The nitrogen tanker was brought on-site to inert the Unit 1 drywell by decreasing the oxygen content. Subsequent investigation revealed the unauthorized discharge of nitrogen caused valve seats in the nitrogen purge line to leak excessively. The Unit 1 Reactor commenced shutdown on December 24, 1984 at 1100 in accordance with Technical Specification 3.6.1.1 which requires a shutdown due to Loss of Primary Containment. Valves were disassembled, repaired, and local leak rate tests were performed with satisfactory results. Unit 1 was restarted.

\*Henry Pratt Co.

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PDR ADOCK 05000387  
S PDRIE22  
"1"  
1'84 Retrofit

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

PART 2 OF 3  
(SEE INSTRUCTIONS)

FACILITY NAME

DOC-87 NUMBER 2

LER NUMBER 6

PAGE 3

Susquehanna Steam Electric Station  
Unit 1

DATE	REVISION	REASON
1984	1	INITIAL

0 5 1 0 0 1 0 3 8 7 8 4 - 0 1 4 8 - 0 1 0 0 2 OF 0 3

TEXT - THIS REPORT IS REQUIRED BY NRC FORM 886, 8-81

On December 21, 1984, a vendor's nitrogen tanker was brought on site for the purpose of inerting the Unit 1 containment. The tanker was connected to the plant piping and preparations were made on the nitrogen tanker for off loading. During these preparations the operating equipment on the tanker changed pitch. The auxiliary system operator stationed at the tanker asked the driver if he had started pumping (off loading) the nitrogen. The driver replied "No." The operator acknowledged "OK." The truck driver understood "OK" to mean OK to start pumping. Pumping commenced at 20:27. At this time the valve line up within the plant had not been changed for receipt of the nitrogen, nor was the Control Room aware the nitrogen tanker was pumping. Subsequently, as part of the in-plant preparation for receipt of the nitrogen, Operations personnel opened the Nitrogen Flow Valve (FV-05719), and attempted, unsuccessfully, to fully open the Primary Containment Nitrogen Purge Supply Valve (HV-15721). At this time Control Room personnel (Plant Control Operator) observed a nitrogen flow indication and in turn directed personnel at the tank truck to stop pumping. Pumping was halted within seconds.

A Work Authorization (WA) was initiated for Maintenance personnel to investigate/correct conditions which prevented Operation's personnel from fully opening the Purge Supply Valve (HV-15721). Subsequent review of the WA identified the HV-15721 valve as an outboard Primary Containment Isolation Valve and the applicability of Technical Specification 3.6.3. A Limiting Condition of Operation was declared in accordance with Technical Specification 3.6.3 and the inboard purge supply valves deactivated. Maintenance personnel disassembly of valve HV-15721 identified a damaged (deformed) clamp segment ring used for retaining the valve seat. The deformation caused the valve to stick.

Technical Staff investigation of the event included review of containment and structural integrity. A local leak rate test was performed on December 24, 1984 at 0300 to verify the integrity of purge system isolation valves HV-15722, HV-15723, HV-15724, and HV-15725. Test results indicated excessive leakage from these boundary valves. Technical Specification Limiting Conditions of Operation, section 3.6.1.1 were revoked at 0415 on December 24, 1984. The Technical Specification Action Statement required Primary Containment to be restored within 1 hour or be in hot shutdown in the next 12 hours and cold shutdown in the following 24 hours. The reactor shutdown had commenced at 1100, and was completed at 1119 on December 25, 1984 with Unit 1 in cold shutdown.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

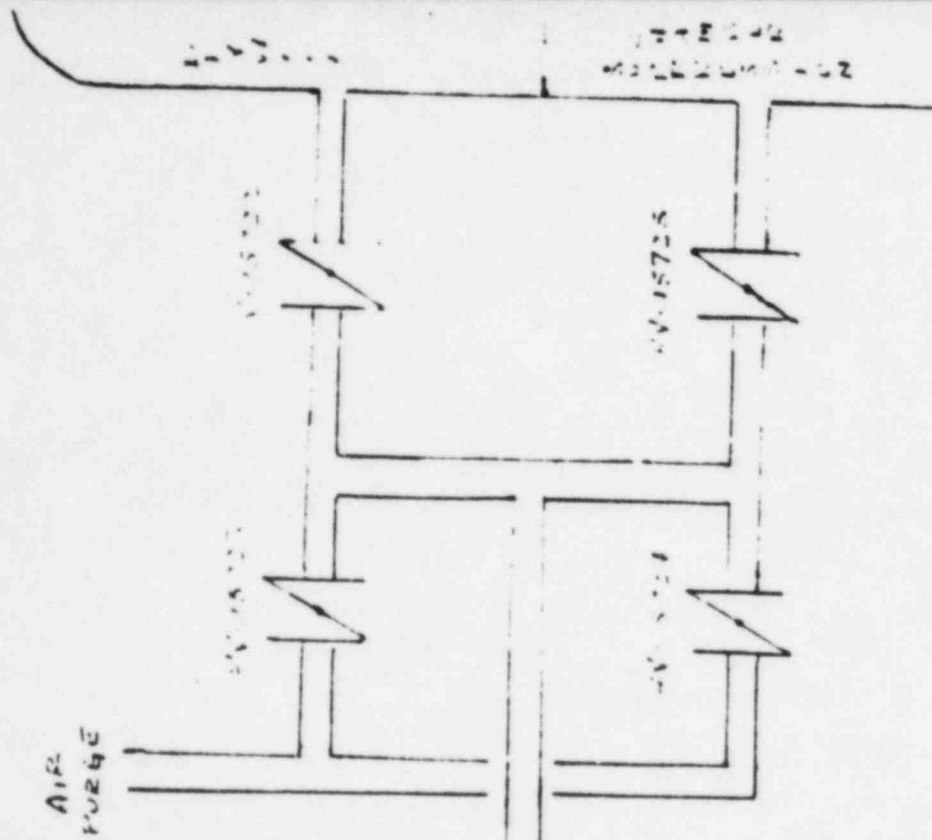
U.S. NUCLEAR REGULATORY COMMISSION

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EX-100-11-85

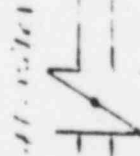
FACILITY NAME 1	DOCKET NUMBER 2	LER NUMBER 6	PAGE 3						
Susquehanna Steam Electric Station Unit 1		<table border="1"><tr><td data-bbox="1031 302 1137 336">YEAR</td><td data-bbox="1137 302 1261 336">SEQUENTIAL NUMBER</td><td data-bbox="1261 302 1367 336">RE-STATE NUMBER</td></tr><tr><td data-bbox="1031 336 1137 394"></td><td data-bbox="1137 336 1261 394"></td><td data-bbox="1261 336 1367 394"></td></tr></table>	YEAR	SEQUENTIAL NUMBER	RE-STATE NUMBER				
YEAR	SEQUENTIAL NUMBER	RE-STATE NUMBER							
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TEXT - More space is provided for reporting NRC Form 2664.

Post shutdown investigation identified a damaged valve seat in the Suppression Chamber Air Purge Line Supply Isolation Valve (HV-15724) as cause of the excessive leakage during the local leak rate test. The valves were repaired and a satisfactory local leak rate test was performed. The piping system was inspected and no problems were noted. The Unit was restarted December 30, 1984. The system was modified to include a pressure gauge to monitor the discharge pressure of the nitrogen tanker. The operating procedure was revised by having the operator stationed at the nitrogen tanker instruct the nitrogen tanker vendor to immediately close the nitrogen tank truck discharge valve if the nitrogen pressure increased to 80 psig. The occurrence will be reviewed by Operations personnel and placed on the Supervisor of Operations Agenda.



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1.5 V 0.1/1



POOR ORIGINAL  
INPO RECORDS CENTER

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PP&L

SUSQUEHANNA STEAM ELECTRIC STATION  
PO BOX 467, BERWICK, PA 18603

January 25, 1985

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

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 84-048-00  
ER 100450 FILE 84-23  
PLAS-030

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

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270 Farmington Ave.  
Farmington, CT 06032  
Attn: Librarian

Attached is Licensee Event Report 84-048-00. This event was determined reportable per 50.73(a)(2)(ii). In that Loss of Primary Containment due to excessive leakage required a shutdown of Unit 1.

*H.W. Keiser*  
H.W. Keiser  
Superintendent of Plant-Susquehanna

PWS/pjg

cc: Dr. Thomas E. Murley  
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KJB

AHG

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LER
LER # <u>387-84048</u>
EVENT DATE <u>841224</u>
INPO RCVD DATE <u>2-2-85</u>
NSAC RCVD DATE _____

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11

'84 RETROFIT