

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Susquehanna Steam Electric Station - Unit 1DOCKET NUMBER (2)
0 5 0 0 0 3 8 7 1 OF 0 4TITLE (4)
Four Isolation Dampers Not Adequately Tested.

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	1	1	0	8	6	8	6	0	0	1	0	0	0	3	8	8
										0 5 0 0 0						

OPERATING MODE (9)	POWER LEVEL (10)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																			
2	1 0 0	20.402(b)					20.408(e)					80.73(a)(2)(iv)					73.71(b)				
		20.408(a)(1)(i)					80.73(a)(1)					80.73(a)(2)(iv)					73.71(c)				
		20.408(a)(1)(ii)					80.73(a)(2)					80.73(a)(2)(vii)					OTHER (Specify in Abstract below and in Text, NRC Form 366A)				
		20.408(a)(1)(iii)					X 80.73(a)(2)(i)					80.73(a)(2)(viii)(A)									
		20.408(a)(1)(iv)					80.73(a)(2)(ii)					80.73(a)(2)(viii)(B)									
		20.408(a)(1)(v)					80.73(a)(2)(iii)					80.73(a)(2)(ix)									

LICENSEE CONTACT FOR THIS LER (12)
NAME
Jeffrey A. Hirt - Engineer Level ITELEPHONE NUMBER
AREA CODE
7 1 7 5 4 2 - 1 3 9 1 7

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)									
CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPDOS

SUPPLEMENTAL REPORT EXPECTED (14)
☐ YES (If yes, complete EXPECTED SUBMISSION DATE) ☒ NOEXPECTED SUBMISSION DATE (15)
MONTH DAY YEAR

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

On January 10, 1986 both Unit 1 and Unit 2 entered Limiting Condition for Operation (LCO) 3.0.3 because the two divisions of the Control Room Emergency Outside Air Supply System (CREOASS) were declared inoperable due to a surveillance procedure deficiency. SO-030-002 "18 Month Control Structure Ventilation System Operability Test" did not test four isolation dampers to close within eight (8) seconds after receipt of a high chlorine test signal. This is required by Technical Specification (T/S) Surveillance Requirement 4.7.2.d.2. The four isolation dampers were satisfactorily tested to close within eight (8) seconds and LCO 3.0.3 was cleared seventy (70) minutes after it was entered. Both Units continued 100% power operation throughout the event.

A review of a selected number of surveillance procedures will be conducted to determine if a full investigation of all surveillance procedures is warranted. The review will consist of an operational scoping of the systems covered by the selected procedures to verify that all T/S requirements are satisfied.

Prior to this event an addition to an administrative procedure had recently been issued which stresses that new, renewed and revised surveillance procedures be examined carefully to make certain that they conform to and satisfy all T/S requirements. SO-030-002 had not yet been reviewed under this revised administrative procedure.

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PDR ADOCK 05000387
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) Susquehanna Steam Electric Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7 8 6 - 0 0 1 - 0 0 0 2 OF 0 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

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

On January 10, 1986 while both Unit 1 and Unit 2 were operating at 100% the two divisions of the Control Room Emergency Outside Air Supply System (CREOASS) (BH) were declared inoperable as a result of a surveillance deficiency. This caused both Unit 1 and Unit 2 to enter into the 'motherhood clause' of Technical Specifications (T/S); otherwise known as Limiting Condition for Operation (LCO) 3.0.3.

In a review of SO-030-002 "18 Month Control Structure Ventilation System (VI) Operability Test" the NRC Resident Inspector discovered the surveillance procedure does not fulfill the requirements of T/S Surveillance Requirement 4.7.2.d.2. The surveillance requirement states:

Each control room emergency outside air supply subsystem shall be demonstrated OPERABLE at least once per 18 months by verifying that on each of the below isolation mode actuation test signals, the subsystem automatically switches to the isolation mode of operation and the isolation dampers (DME) close within 8 seconds:

- a) Outside air intake chlorine-high
- b) Outside air intake radiation-high
- c) Reactor Building (NG) isolation

The attached diagram shows a simplified flow path of CREOASS. Normal air flow to the control structure heating and ventilation system is through the two HD-07802 dampers. On a high radiation or Reactor Building isolation signal these dampers close and the following dampers open:

HD-07814A	HD-07813A
HD-07814B	HD-07813B
HD-07812A	HD-07811A
HD-07812B	HD-07811B

This mode of operation filters the outside air before it is delivered to the control structure heating and ventilation system. Because the filter units can not remove chlorine the HD-07812 and HD-07814 dampers close in addition to the HD-07802 dampers on a high chlorine signal. This puts the control room in a recirculation mode of operation.

In SO-030-002 the HD-07812 and HD-07814 dampers were verified to open on a high radiation and Reactor Building isolation test signal; however they were not timed to close on a high chlorine test signal. Thus if a high radiation signal or Reactor Building isolation signal were received and then followed by a high chlorine signal it was not known if the HD-07812 and HD-07814 dampers would close in eight (8) seconds.

LCO 3.0.3 was entered at 1145 on January 10, 1986 and cleared at 1255 on the same day after the four dampers (HD-07812A, HD-07812B, HD-07814A, and HD-07814B) were tested to close within eight (8) seconds after a high chlorine test signal.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 9/31/85

FACILITY NAME (1) Susquehanna Steam Electric Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7 8 6 - 0 0 1 - 0 0 0 3 OF 0 4	LER NUMBER (6)			PAGE (3)	
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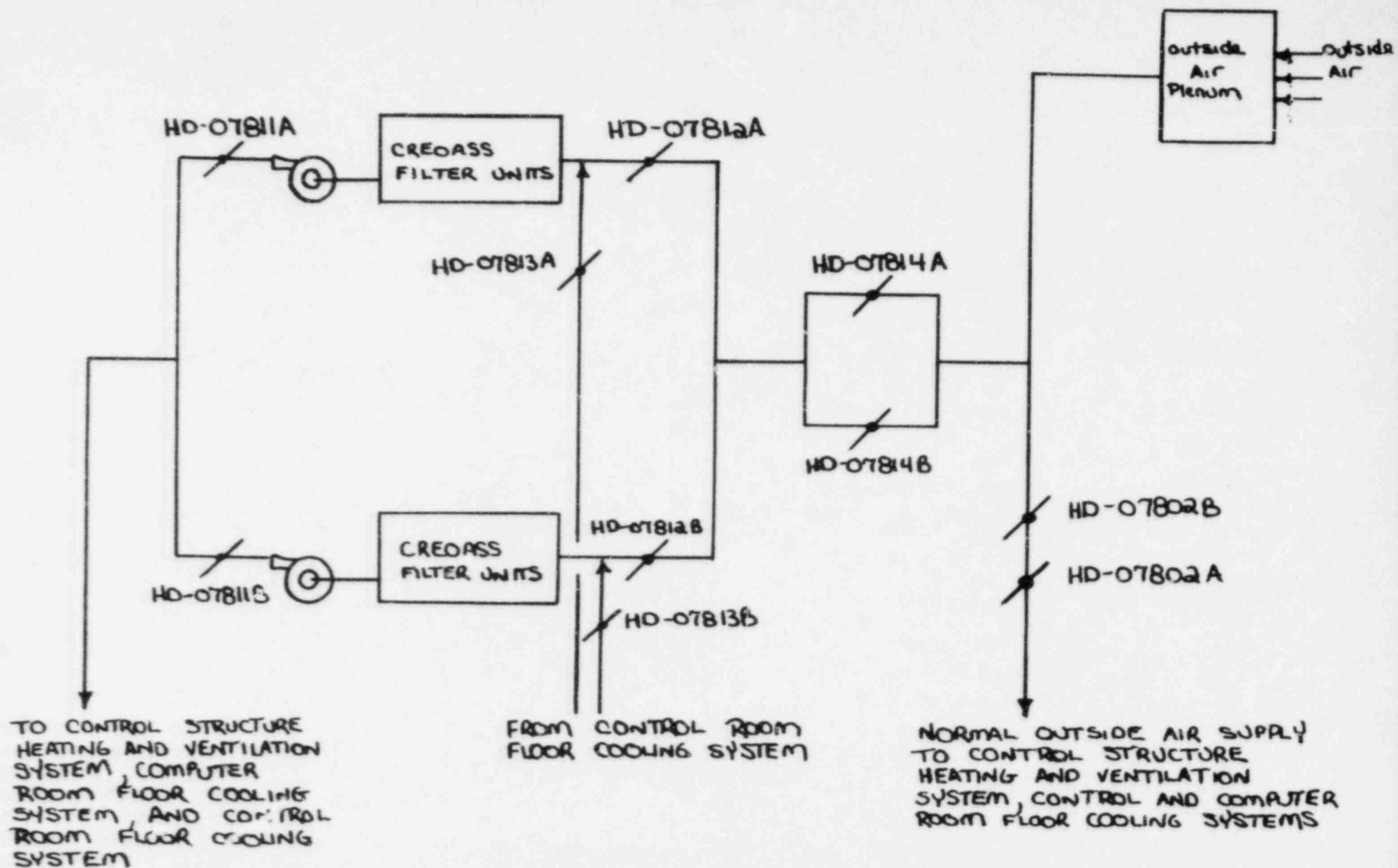
TEXT (If more space is required, use additional NRC Form 366A's) (17)

Corrective Actions To Prevent Recurrence:

A review of a selected number of surveillance procedures will be conducted to determine if a full investigation of all surveillance procedures is warranted. The review will consist of an operational scoping of the system(s) covered by the selected procedures to verify that all T/S requirements are satisfied.

Prior to this event an addition to an administrative procedure had recently been issued which stresses that new, renewed and revised surveillance procedures be examined carefully to make certain that they conform to and satisfy all T/S requirements. SO-030-002 had not yet been reviewed under this revised administrative procedure.

EMERGENCY OUTSIDE AIR SUPPLY SYSTEM SIMPLIFIED FLOW PATH





Pennsylvania Power & Light Company

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February 7, 1986

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 86-001-00
ER 100450 FILE 841-23
PLIS- 145

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

Attached is Licensee Event Report 86-001-00. This event was determined reportable per 10CFR50.73(a)(2)(i), in that Unit 1 and Unit 2 operated in a condition prohibited by the plants Technical Specifications as a result of a deficiency in a surveillance procedure.

T.M. Crimmins, Jr.
Superintendent of Plant-Susquehanna

JAH/pjg

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