

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): SUSQUEHANNA STEAM ELECTRIC STATION - UNIT ONE
DOCKET NUMBER (2): 0 5 0 0 0 3 8 7 1 OF 0 2

TITLE (4): STANDBY GAS TREATMENT (SBGT) SYSTEM INITIATED DUE TO A PROCEDURE DEFICIENCY

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		
04	02	86	86	013	00	05	01	86			
									DOCKET NUMBER (5): 0 5 0 0 0		

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11):

OPERATING MODE (9): 5	20.402(b)	20.406(a)	<input checked="" type="checkbox"/>	90.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10): 0, 0, 0	20.406(a)(1)(D)	90.38(a)(1)	<input type="checkbox"/>	90.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(E)	90.38(a)(2)	<input type="checkbox"/>	90.73(a)(2)(vi)	OTHER (Specify in Abstract Below and in Text, NRC Form 306A)
	20.406(a)(1)(W)	90.73(a)(2)(i)	<input type="checkbox"/>	90.73(a)(2)(vii)(A)	
	20.406(a)(1)(V)	90.73(a)(2)(ii)	<input type="checkbox"/>	90.73(a)(2)(vii)(B)	
	20.406(a)(1)(W)	90.73(a)(2)(iii)	<input type="checkbox"/>	90.73(a)(2)(viii)	

LICENSEE CONTACT FOR THIS LER (12):
NAME: Jeffrey A. Hirt, Engineer Level I
TELEPHONE NUMBER: 711 7 5421 - 3911 7

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13):

CAUSE	SYSTEM	COMPONENT	MANUF. TURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUF. TURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14):
YES (If yes, complete EXPECTED SUBMISSION DATE): NO: X
EXPECTED SUBMISSION DATE (15): MONTH: DAY: YEAR:

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

On April 2, 1986, at 2040 hours, a procedure deficiency caused Division I of the Reactor Building Zone III Ventilation System to isolate, and the SBGT System to initiate. Technicians were de-energizing Engineered Safeguard System (ESS) Bus 1A(1A201) when the isolation occurred. The procedure they were using, OP-105-002 'ESS BUS 1A(1A201) DE-ENERGIZATION FOR SCHEDULED OUTAGES,' instructed them to open a supply breaker to the Division I SBGT System Loss of Coolant Accident (LOCA) Trip Logic control. After opening the breaker, the technicians were directed to install jumpers from an alternate electrical supply to restore power to the circuit. When the jumpers were installed, Zone III isolated and the SBGT System initiated. The isolation was caused by the de-energization of two relays in the High Radiation trip logic when the breaker was opened. This set up logic for the Zone III isolation when power was restored. The procedure failed to provide steps which prevented the isolation. To prevent recurrence, OP-105-002, and the similar procedure for Division II, OP-105-003, will be revised to add steps which disable the isolation logic while the alternate power supply is connected.

8605070133 860501
PDR ADOCK 0500038/
S PDR

IF 22
W

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) SUSQUEHANNA STEAM ELECTRIC STATION UNIT ONE	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7 8 6 - 0 1 3 - 0 0	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
					0 2	OF 0 2

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

On April 2, 1986, at 2040 hours, Division I of the Reactor Building Zone III Ventilation System (EIIIS Code: VA) isolated and the Standby Gas Treatment (SBGT) System (EIIIS Code: BH) started. At the time of the isolation, Unit One was shutdown for its second refueling outage and Unit Two was operating at or near 100% power. The isolation and subsequent start of the SBGT System occurred while plant personnel were de-energizing the Engineered Safeguard System (ESS) (EIIIS Code: EC) Bus 1A(1A201) for modification and maintenance work. Technicians had opened the supply breaker for the Division I SBGT System Loss of Coolant Accident (LOCA) Trip Logic Control as directed by Step 1.3 of Attachment 'D' to OP-105-002 'ESS BUS 1A(1A201) DE-ENERGIZATION FOR SCHEDULED OUTAGES.' The following step instructed the technicians to install jumpers from an alternate electrical source to restore power to the SBGT System LOCA Trip Logic. As the jumpers were installed, Division I of the Zone III Ventilation System isolated and the SBGT System initiated. All dampers and fans actuated per design except for the recirculation fan. Step 1.1 of Attachment 'D' had technicians open the supply breaker for the fan which prevented it from autostarting. Throughout the event, Secondary Containment pressure differential was maintained at or above the Technical Specification limit of 0.25" WG Vacuum and Unit Two power operation continued at approximately 100%. Normal Zone III ventilation was restored and the SBGT System shutdown at 2047 hours.

The cause of the isolation was a procedure deficiency. When power was interrupted in Step 1.3, logic for the Zone III isolation was set up by the de-energization of two relays associated with the High Radiation trip logic. When power was restored, the isolation and SBGT System start occurred. No steps in the procedure prevented the isolation. To prevent recurrence, OP-105-002, and a similar procedure for Division II, OP-105-003, will be revised to add steps that disable the isolation logic while the alternate power supply is connected.



Pennsylvania Power & Light Company

Susquehanna Steam Electric Station
P.O. Box 467 • Berwick, PA 18603 • 717 / 542-2181

May 1, 1986

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 86-013-00
ER 100450 FILE R41-2
PLAS - 168

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

Attached is Licensee Event Report 86-013-00. This event was determined reportable per 10 CFR 50.73(a)(2)(iv), in that an automatic initiation of the Standby Gas Treatment System, an engineered safety feature, occurred as a result of a procedure deficiency.

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

JAH/rmm

cc: Dr. Thomas E. Murley
Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Mr. R.H. Jacobs
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 52
Shickshinny, PA 18655

IE22
1/1