NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Susquehanna Steam Electric Station - Unit 1	0 5 0 0 0 3 8 7	1 OF 0 2

TITLE (4)

SGTS Start on Refuel Floor High Radiation Signal.

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 5 0 0 0
0 2	1 3	8 5	8 5	— 0 0 1	— 0 0	0 3	1 5	8 5		0 5 0 0 0

OPERATING MODE (9)	5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 0 0	20.402(b)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
L.A. Kuczynski - Nuclear Plant Specialist, III	7 1 7 — 5 4 2 - 3 7 5 9

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	
D	B H	*	*	*							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
X YES (If yes, complete EXPECTED SUBMISSION DATE)	NO		0 7	0 1	8 5

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

On February 13, 1985, with the Unit shutdown for its first refueling outage, actions commenced to remove the steam dryer from the reactor vessel. The maintenance procedure used to move the dryer includes steps for the installation of jumpers in the refuel floor wall duct trip units. This would forestall a Zone III (Refuel Floor) ventilation isolation and concomitant start of the Standby Gas Treatment System (SGTS) and Control Room Emergency Outside Air Supply System (CREOASS) under circumstances where it is known that conditions other than airborne radiation would cause the isolation or systems to start. (SGTS and CREAOSS are Engineered Safety Features.)

When the steam dryer move was complete, the jumpers were removed per the maintenance procedure. Within two minutes, Zone III had isolated on a high radiation signal and the SGTS and CREOASS started. The jumpers were replaced and all systems restored to normal status. Station particulate, iodine and noble gas monitor data showed no abnormal release rates for the day. Actions to prevent recurrence of the Zone III isolation, and SGTS and CREOASS starts are still being investigated and will be provided in an update to this LER.

* Not Applicable

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

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

On February 13, 1985, with the Unit shutdown for its first refueling outage, actions commenced to remove the steam dryer from the reactor vessel. The maintenance procedure used to move the dryer includes steps for the installation ofjumpers in the refuel floor wall duct trip units. Unit 1 Technical Specification Table 3.3.2-1 does not require that the affected sensors be operable during Operational Condition 4 (Cold Shutdown) or 5 (Refueling). Since the dryer removal process does not present the potential to drain the vessel, there is no reason why the sensors could not be jumpered out. The corresponding sensors remained operable on Unit 2 throughout the event. The intent of this action is to forestall a Zone III (Refuel Floor) ventilation isolation and concomitant start of the Standby Gas Treatment System (SGTS) and Control Room Emergency Outside Air Supply System (CREOASS) under circumstances where it is known that conditions other than airborne radiation would cause the isolation or systems to start. (The SGTS and CREOASS are Engineered Safety Features.) The strongback used to move the dryer has a sprinkling system installed on it and there is a sprinkling system in the dryer-separator pool to minimize airborne radiation.

When the steam dryer move was complete, the jumpers were removed per the maintenance procedure. Within two minutes, Zone III had isolated on a high radiation signal and the SGTS and CREOASS started. Operations pesonnel directed that the jumpers be reinstalled based on the deduction that the steam dryer was acting as a source large enough to affect the sensors in the Zone III exhaust duct. CREOASS was shutdown, normal Zone III ventilation was re-established and SGTS was shutdown. Station particulate, iodine and noble gas monitor data showed no abnormal release rates for the day.

All system logic functioned properly except that the Reactor Building Recirculation Fans did not start. (These fans act to recirculate the air within the ventilation zones to reduce radioactivity concentrations by mixing the air before it is exhausted through the Standby Gas Treatment System.) Investigation into the lack of fan start showed no problems and simulated conditions resulted in correct logic sequencing including the start of the Recirculation Fans. Actions to prevent recurrence of the Zone III isolation, and SGTS and CREOASS starts are still being investigated and will be provided in an update to this LER.

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March 15, 1985

U.S. Nuclear Regulatory Commission
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SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 85-001-00
ER 100450 FILE 841-23
PLAS-056

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

Attached is Licensee Event Report 85-001-00. This event was determined reportable per 10CFR50.73(a)(2)(iv), in that the Unit experienced an unanticipated start of the Standby Gas Treatment and Control Room Emergency Outside Air Supply Systems, which are Engineered Safety Systems.

H.W. Keiser
Superintendent of Plant-Susquehanna

LAK/pjg

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