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MAY 31 2016

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

10 CFR 50.73

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 50-387(388)/2016-010-00
UNIT 1 LICENSE NO. NPF-14
UNIT 2 LICENSE NO. NPF-22
PLA-7485

Docket No. 50-387
50-388

Attached is Licensee Event Report (LER) 50-387(388)/2016-010-00. The LER reports an event involving Secondary Containment being declared inoperable due to both doors of several airlocks being open at the same time while transporting an individual out of the Reactor Building during a medical emergency. This event was determined to be reportable in accordance with 10 CFR 50.73(a)(2)(v)(C) as a condition that could have prevented fulfillment of a safety function.

There were no actual consequences to the health and safety of the public as a result of this event.

This letter contains no new regulatory commitments.

A handwritten signature in black ink, appearing to be "J. A. Franke", written over the text "This letter contains no new regulatory commitments."

J. A. Franke

Attachment: LER 50-387(388)/2016-010-00

Copy: NRC Region I
Mr. J. E. Greives, NRC Sr. Resident Inspector
Ms. T. E. Hood, NRC Project Manager
Mr. M. Shields, PA DEP/BRP

**LICENSEE EVENT REPORT (LER)**(See Page 2 for required number of
digits/characters for each block)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME

Susquehanna Steam Electric Station Unit 1

2. DOCKET NUMBER

05000387

3. PAGE

1 of 3

4. TITLE

Secondary Containment Declared Inoperable Due to Airlock Doors Open Due to Medical Emergency

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED			
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER		
04	06	2016	2016	- 010	- 00	05	31	2016	Susquehanna Steam Electric Station Unit 2	05000388		
									FACILITY NAME	DOCKET NUMBER		
										05000		
9. OPERATING MODE			11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)									
5			<input type="checkbox"/> 20.2201(b)			<input type="checkbox"/> 20.2203(a)(3)(i)			<input type="checkbox"/> 50.73(a)(2)(ii)(A)		<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
			<input type="checkbox"/> 20.2201(d)			<input type="checkbox"/> 20.2203(a)(3)(ii)			<input type="checkbox"/> 50.73(a)(2)(ii)(B)		<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
			<input type="checkbox"/> 20.2203(a)(1)			<input type="checkbox"/> 20.2203(a)(4)			<input type="checkbox"/> 50.73(a)(2)(iii)		<input type="checkbox"/> 50.73(a)(2)(ix)(A)	
			<input type="checkbox"/> 20.2203(a)(2)(i)			<input type="checkbox"/> 50.36(c)(1)(i)(A)			<input type="checkbox"/> 50.73(a)(2)(iv)(A)		<input type="checkbox"/> 50.73(a)(2)(x)	
10. POWER LEVEL			<input type="checkbox"/> 20.2203(a)(2)(ii)			<input type="checkbox"/> 50.36(c)(1)(ii)(A)			<input type="checkbox"/> 50.73(a)(2)(v)(A)		<input type="checkbox"/> 73.71(a)(4)	
			<input type="checkbox"/> 20.2203(a)(2)(iii)			<input type="checkbox"/> 50.36(c)(2)			<input type="checkbox"/> 50.73(a)(2)(v)(B)		<input type="checkbox"/> 73.71(a)(5)	
			<input type="checkbox"/> 20.2203(a)(2)(iv)			<input type="checkbox"/> 50.46(a)(3)(ii)			<input checked="" type="checkbox"/> 50.73(a)(2)(v)(C)		<input type="checkbox"/> 73.77(a)(1)	
			<input type="checkbox"/> 20.2203(a)(2)(v)			<input type="checkbox"/> 50.73(a)(2)(i)(A)			<input type="checkbox"/> 50.73(a)(2)(v)(D)		<input type="checkbox"/> 73.77(a)(2)(i)	
000			<input type="checkbox"/> 20.2203(a)(2)(vi)			<input type="checkbox"/> 50.73(a)(2)(i)(B)			<input type="checkbox"/> 50.73(a)(2)(vii)		<input type="checkbox"/> 73.77(a)(2)(ii)	
						<input type="checkbox"/> 50.73(a)(2)(i)(C)			<input type="checkbox"/> OTHER		Specify in Abstract below or in NRC Form 366A	

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT

C. E. Manges, Jr., Senior Engineer - Nuclear Regulatory Affairs

TELEPHONE NUMBER (Include Area Code)

(570) 542-3089

13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED☐ YES (If yes, complete 15. EXPECTED SUBMISSION DATE)☒ NO**15. EXPECTED SUBMISSION DATE**

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On April 6, 2016 at 13:30, a medical emergency on the refuel floor (Elevation 818) required having both doors open at the same time for multiple airlocks along the travel path required to move the affected individual from the refuel floor to a location outside the reactor building to allow transport to a local hospital by ambulance. The evolution was performed under the cognizance of the Field Unit Supervisor (FUS) and the Control Room. The Control Room declared Secondary Containment inoperable and entered the applicable Technical Specification (TS) 3.6.4.1 condition for Unit 1 and Unit 2 during the time when both doors in a required airlock were open.

This event was reported in accordance with 10 CFR 50.72(b)(3)(v)(C) in EN 51851. The condition also requires a Licensee Event Report (LER) in accordance with 10 CFR 50.73(a)(2)(v)(C).

The cause of the event was a medical emergency on the refuel floor which required both secondary containment airlock doors to be open at the same time in several airlocks along the travel path to transport the individual out of the Reactor Building and to a local hospital. Since the event was due to a medical emergency, no corrective actions are required.

There were no actual consequences to the health and safety of the public as a result of this event.

NRC FORM 366A
(11-2015)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104

EXPIRES: 10/31/2018



LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
Susquehanna Steam Electric Station, Unit 1	05000387	YEAR	SEQUENTIAL NUMBER	REV NO.
		2016	- 010	- 00

NARRATIVE

CONDITIONS PRIOR TO EVENT

Unit 1 – Mode 5, 0 percent Rated Thermal Power

Unit 2 – Mode 1, 100 percent Rated Thermal Power

There were no structures, systems, or components that were inoperable at the start of the event that contributed to the event.

EVENT DESCRIPTION

On April 6, 2016 at 13:30, a medical emergency on the refuel floor (Elevation 818) required having both doors [EIS Component Identifier: DR] open at the same time for multiple airlocks [EIS Component Identifier: AL] along the travel path required to move the affected individual from the refuel floor to a location outside the reactor building [EIS System Identifier: NG] to allow transport to a local hospital by ambulance. The evolution was performed under the cognizance of the Field Unit Supervisor (FUS) and the Control Room. The Control Room declared Secondary Containment [EIS System Identifier: NG] inoperable and entered the applicable Technical Specification (TS) 3.6.4.1 condition for Unit 1 and Unit 2 during the time when both doors in a required airlock were open.


The following is a time line of the event that occurred on April 6, 2016:

- 13:30 The Control Room was notified of a medical emergency on the refuel floor. The FUS was among the individuals who responded to the emergency.
- 13:37 Due to the medical emergency, the FUS identified the need to open both air lock doors in order to transport the individual off the refuel floor. The Control Room declared Secondary Containment inoperable and entered TS 3.6.4.1 during the time that both airlock doors were opened.
- 13:38 The individual was transported through the Elevation 818 airlock and the Control Room cleared TS 3.6.4.1.
- 13:43 The individual was transported through both sets of the Unit 2 and Unit 1 Reactor Building airlock doors on Elevation 799. The Control Room declared Secondary Containment inoperable and entered TS 3.6.4.1.
- 13:44 The Elevation 779 doors were returned to a normal alignment, Secondary Containment was restored to an operable status, and the Control Room cleared TS 3.6.4.1.
- 13:45 The individual was transported down the Unit 1 elevator and proceeded out the Unit 1 air lock doors on Elevation 676. These doors were open due to secondary containment being relaxed. No entry into TS 3.6.4.1 was required.

The opening of the airlock doors were controlled by the FUS to allow transport of the individual needing medical attention out of the reactor building and subsequently being transported to the local hospital.

With both airlock doors of the required airlocks open simultaneously, Secondary Containment was briefly inoperable due to failure to meet Surveillance Requirement (SR) 3.6.4.1.3.

This event was reported in accordance with 10 CFR 50.72 (b)(3)(v)(C) in EN 51851. The condition also requires a Licensee Event Report (LER) in accordance with 10 CFR 50.73(a)(2)(v)(C).

NRC FORM 366A <small>(11-2015)</small>	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0104	EXPIRES: 10/31/2018		
 LICENSEE EVENT REPORT (LER) CONTINUATION SHEET		Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.			
1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER			
Susquehanna Steam Electric Station, Unit 1	05000387	YEAR	SEQUENTIAL NUMBER	REV NO.	
		2016	- 010	- 00	
NARRATIVE CAUSE OF EVENT The cause of the event was a medical emergency on the refuel floor which required both secondary containment airlock doors to be open at the same time in several airlocks along the travel path to transport the individual out of the Reactor Building and to a local hospital.					
ANALYSIS/SAFETY SIGNIFICANCE An engineering evaluation was performed and concluded that secondary containment could have performed its safety function of isolating, as assumed in the accident analysis, and also of re-establishing 0.25 inches vacuum (drawdown) within the assumed accident analysis time (10 minutes). Therefore, the subject event did not cause a loss of safety function. This event will not be counted as a safety system functional failure (SSFF) for the NRC performance indicator based on the engineering analysis that shows there was no loss of ability to fulfill the safety function.					
CORRECTIVE ACTIONS The event was due to a medical emergency, and no corrective actions are required. The doors were opened under the cognizance of a Senior Reactor Operator.					
PREVIOUS SIMILAR EVENTS The following are recent LERs involving loss of secondary containment due to door issues: LER 50-387(388)/2016-005-00, "Secondary Containment Declared Inoperable Due to Airlock Doors Open Due to Human Performance Error," dated May 16, 2016. LER 50-387(388)/2016-004-00, "Momentary Loss of Secondary Containment due to Both Airlock Doors on Elevation 779 of the Unit 2 reactor Building being Opened at the Same Time," dated May 10, 2016. LER 50-387(388)/2016-002-00, "Secondary Containment Declared Inoperable Due to an Airlock Doors Open Due to Random Occurrence," dated April 18, 2016. LER 50-388(387)/2016-001-00, "Secondary Containment Declared Inoperable Due to an Airlock Doors Open Due to Random Occurrence," dated April 18, 2016. LER 50-387(388)/2015-011-00, "Secondary Containment Declared Inoperable Due to an Airlock Door that Had Not Been Properly Latched," dated January 29, 2016. LER 50-388(387)/2015-006-00, "Secondary Containment Declared Inoperable Due to Secondary Containment Boundary Door 104-R Breached," dated September 18, 2015. LER 50-387/2015-004-00, "Secondary Containment Inoperable due Secondary Containment Boundary Door Found Ajar," dated June 25, 2015. LER 50-388/2015-002-00, "Secondary Containment Inoperability Due Failure to Meet Technical Specification Surveillance Requirement 3.6.4.1.1," dated May 11, 2015 LER 50-388(387)/2014-001-00, "Both Doors of a Secondary Containment Airlock Momentarily Open Due to a Personnel Error Resulting in Entry into Secondary Containment Technical Specification Limiting Condition for Operation," dated December 31, 2014 LER 50-387(388)/2014-002-00, "Secondary Containment Door Found Ajar," dated April 9, 2014.					