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JUN 09 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)/2016-013-00**  
**UNIT 1 LICENSE NO. NPF-14**  
**UNIT 2 LICENSE NO. NPF-22**  
**PLA-7492**

**Docket No. 50-387**  
**50-388**

Attached is Licensee Event Report (LER) 50-387(388)/2016-013-00. The LER reports an event involving Secondary Containment being declared inoperable due to both doors in a single airlock being simultaneously opened. 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 read "J. A. Franke".


J. A. Franke

Attachment: LER 50-387(388)/2016-013-00

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

<b>NRC FORM 366</b> (11-2015)		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>   <b>LICENSEE EVENT REPORT (LER)</b> (See Page 2 for required number of digits/characters for each block)		<b>APPROVED BY OMB: NO. 3150-0104</b> <b>EXPIRES: 10/31/2018</b>  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 Infocollections.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.		
<b>1. FACILITY NAME</b> Susquehanna Steam Electric Station Unit 1		<b>2. DOCKET NUMBER</b> 05000387		<b>3. PAGE</b> 1 of 3		
<b>4. TITLE</b> Secondary Containment Declared Inoperable Due to Simultaneous Opening of Double Airlock Doors						
<b>5. EVENT DATE</b>			<b>6. LER NUMBER</b>		<b>7. REPORT DATE</b>	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH DAY YEAR
04	12	2016	2016	- 013	- 00	6 09 2016
<b>8. OTHER FACILITIES INVOLVED</b>			<b>8. OTHER FACILITIES INVOLVED</b>			
FACILITY NAME Susquehanna Steam Electric Station Unit 2			DOCKET NUMBER 05000388			
FACILITY NAME			DOCKET NUMBER 05000			
<b>9. OPERATING MODE</b>			<b>11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)</b>			
5			<input type="checkbox"/> 20.2201(b)		<input type="checkbox"/> 20.2203(a)(3)(i)	
			<input type="checkbox"/> 20.2201(d)		<input type="checkbox"/> 20.2203(a)(3)(ii)	
			<input type="checkbox"/> 20.2203(a)(1)		<input type="checkbox"/> 20.2203(a)(4)	
			<input type="checkbox"/> 20.2203(a)(2)(i)		<input type="checkbox"/> 50.36(c)(1)(i)(A)	
<b>10. POWER LEVEL</b>  000			<input type="checkbox"/> 20.2203(a)(2)(ii)		<input type="checkbox"/> 50.36(c)(1)(ii)(A)	
			<input type="checkbox"/> 20.2203(a)(2)(iii)		<input type="checkbox"/> 50.36(c)(2)	
			<input type="checkbox"/> 20.2203(a)(2)(iv)		<input type="checkbox"/> 50.46(a)(3)(ii)	
			<input type="checkbox"/> 20.2203(a)(2)(v)		<input type="checkbox"/> 50.73(a)(2)(i)(A)	
<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"/> 50.73(a)(2)(i)(C)			<input type="checkbox"/> OTHER Specify in Abstract below or in NRC Form 366A			
<b>12. LICENSEE CONTACT FOR THIS LER</b>						
LICENSEE CONTACT Brittany Sprung, Nuclear Regulatory Affairs Engineer						TELEPHONE NUMBER (Include Area Code) (570) 542-3407
<b>13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT</b>						
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM
<b>14. SUPPLEMENTAL REPORT EXPECTED</b>					<b>15. EXPECTED SUBMISSION DATE</b>	
<input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE)					<input checked="" type="checkbox"/> NO	
MONTH DAY YEAR					MONTH DAY YEAR	
<b>ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)</b>  On April 12, 2016 at approximately 2020 hours, a Susquehanna employee was in the process of exiting the Unit 1 Reactor Building via a double door airlock leading to the Unit 1 Turbine Building. The individual inserted his badge into a security related badge reader to access the airlock and received a green light. While opening the Reactor Building side door, employees from the Turbine Building side entered the airlock. The airlock air horn alarm activated as designed since both doors were simultaneously opened. The individual did not observe the airlock indication light prior to entry, which is designed to indicate red while the airlock is being utilized.  With both airlock doors open simultaneously during a period in which Secondary Containment was required, Surveillance Requirement (SR) 3.6.4.1.3 was not met.  This Licensee Event Report (LER) is being submitted in accordance with 10 CFR 50.73(a)(2)(v)(C) as a condition which could have prevented the fulfillment of a safety function.  The direct cause of the event was determined to be less than adequate situational awareness, since the individual stated they did not confirm the airlock was acceptable to enter via the airlock door status light. The individual was coached and reinforcement of the expectations related to Secondary Containment Boundary doors was provided in work group meetings to improve human performance associated with airlock door use.  There were no actual consequences to the health and safety of the public as a result of this event.						



<b>NRC FORM 366A</b> (11-2015)	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>   <b>LICENSEE EVENT REPORT (LER) CONTINUATION SHEET</b>	<b>APPROVED BY OMB: NO. 3150-0104</b> <b>EXPIRES: 10/31/2018</b>  <small>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.</small>						
<b>1. FACILITY NAME</b>	<b>2. DOCKET NUMBER</b>	<b>3. LER NUMBER</b>						
Susquehanna Steam Electric Station, Unit 1	05000387	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">YEAR</th> <th style="width: 33%;">SEQUENTIAL NUMBER</th> <th style="width: 33%;">REV NO.</th> </tr> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">- 013</td> <td style="text-align: center;">- 00</td> </tr> </table>	YEAR	SEQUENTIAL NUMBER	REV NO.	2016	- 013	- 00
YEAR	SEQUENTIAL NUMBER	REV NO.						
2016	- 013	- 00						
<b>NARRATIVE</b>  <h3 style="margin: 0;">CONDITIONS PRIOR TO EVENT</h3> <p>Unit 1 – Mode 5, 0 percent Rated Thermal Power</p> <p>Unit 2 – Mode 1, 100 percent Rated Thermal Power</p> <p>There were no structures, systems, or components that were inoperable at the start of the event that contributed to the event. Zone 1 of Secondary Containment (applicable to Unit 1 only) was established at 17:00 on 04/12/16 and was required by TS 3.6.4.1 at the time of this event.</p> <h3 style="margin: 0;">EVENT DESCRIPTION</h3> <p>On April 12, 2016 at approximately 2020 hours, a Susquehanna employee was in the process of exiting the Unit 1 Reactor Building via a double door airlock leading to the Unit 1 Turbine Building. The individual inserted their badge into a security related badge reader to access the airlock and received a green light. While opening the Reactor Building side door, employees from the Turbine Building side entered the airlock. The airlock air horn alarm activated as designed since both doors were simultaneously opened. The individual did not observe the airlock indication light prior to entry, which is designed to indicate red while the airlock is being utilized.</p> <p>With both airlock doors open simultaneously during a period in which Secondary Containment was required, Surveillance Requirement (SR) 3.6.4.1.3 was not met.</p> <p>This Licensee Event Report (LER) is being submitted in accordance with 10 CFR 50.73(a)(2)(v)(C) as a condition which, at the time of discovery, could have prevented the fulfillment of a safety function.</p> <h3 style="margin: 0;">CAUSE OF EVENT</h3> <p>An interview was conducted with the individuals involved immediately following the event. Information obtained during the interviews was used in performing the condition report evaluation. The condition report evaluation determined the direct cause of the event was less than adequate situational awareness, since the individual stated they did not confirm that other personnel were not entering the airlock.</p> <h3 style="margin: 0;">ANALYSIS/SAFETY SIGNIFICANCE</h3> <p>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. As a result this event will not be counted as a safety system functional failure (SSFF) for the NRC performance indicator.</p>								

1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
Susquehanna Steam Electric Station, Unit 1	05000387	YEAR	SEQUENTIAL NUMBER	REV NO.
		2016	- 013	- 00

## CORRECTIVE ACTIONS

In addition to coaching the individual who committed the error, reinforcement of the expectations related to use of Secondary Containment Boundary doors was provided in the next daily departmental meetings to improve human performance associated with airlock door use.

## PREVIOUS SIMILAR EVENTS

The following are recent LERs involving loss of secondary containment due to door issues:

LER 50-387(388)/2016-010-00, "Secondary Containment Declared Inoperable Due to Medical Emergency," dated May 31, 2016.

LER 50-387(388)/2016-005-00, "Secondary Containment Declared Inoperable Due Personnel Error," dated May 16, 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.