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JAN 26 2017

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)/2016-025-00
UNIT 1 LICENSE NO. NPF-14
UNIT 2 LICENSE NO. NPF-22
PLA-7569

Docket No. 50-387
50-388

Attached is Licensee Event Report (LER) 50-387(388)/2016-025-00. This LER reports an event involving Secondary Containment being declared inoperable due to both doors of an airlock being open at the same time. This LER is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(v)(C) as a condition that could have prevented fulfillment of a safety function.

Should you have any questions regarding this submittal, please contact Mr. Jason Jennings, Manager – Nuclear Regulatory Affairs at (570) 542-3155.

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 cursive script, appearing to read "R. J. Franssen".

R. J. Franssen

Attachment: LER 50-387(388)/2016-025-00

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

IEZZ
NRR

Electronic Copy:

N. E. Fairchild (NSRB)

R. J. Franssen

J. R. Jennings

D. J. LaMarca

T. L. Martin

L. G. Oberrender

N. D. Pagliaro

D. G. Kostelnik (DBD)

G. S. Lubinsky (DBD)

NRA File GENPL5

DCS GENPL4

Send PDF copy to: L. Oberrender for transmittal to INPO

NRC FORM 366 (06-2016)		U.S. NUCLEAR REGULATORY COMMISSION			APPROVED BY OMB: NO. 3150-0104		EXPIRES: 10/31/2018			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>LICENSEE EVENT REPORT (LER) (See Page 2 for required number of digits/characters for each block)</p> <p>(See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)</p> </div> <div style="font-size: 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 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. </div> </div>										
1. FACILITY NAME Susquehanna Steam Electric Station Unit 1					2. DOCKET NUMBER 05000387			3. PAGE 1 OF 3		
4. TITLE Secondary Containment Breach due to Simultaneous Opening of Airlock Doors										
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
11	30	2016	2016	- 025	- 00	01	26	2017	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)							
1			<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)	
100			<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)	
			<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 Nicole Pagliaro, Licensing Specialist – Nuclear Regulatory Affairs								TELEPHONE NUMBER (Include Area Code) 570-542-6578		
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						15. EXPECTED SUBMISSION DATE		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE)						<input checked="" type="checkbox"/> NO				
ABSTRACT (Limit to 1400 spaces. i.e.. approximately 15 single-spaced typewritten lines)										
<p>On November 30, 2016 at approximately 0921, a Talen Security Officer attempted to exit the Unit 1 Air Lock via Security door 585 on elevation 676. A Talen Mechanical Maintenance employee knocked on the Turbine Building door to gain his attention. The Security Officer then stopped from proceeding into the Reactor Building and was allowing the Reactor Building door to close when the mechanic opened the Turbine Building air lock door without verifying a green light. This caused an alarm for a momentary breach of Secondary Containment. The mechanic then closed the door without proceeding into the airlock. This airlock serves as a secondary containment boundary; as such, having both doors open at the same time results in failure to meet Technical Specification 3.6.4.1 as a result of not satisfying Surveillance Requirement 3.6.4.1.3.</p> <p>The condition is being reported in accordance with 10 CFR 50.73(a)(2)(v)(C).</p> <p>The cause of the event was failure to follow station expectations when entering an airlock and less than adequate verification practices.</p> <p>Corrective actions included documented coaching of the mechanic.</p> <p>There were no actual consequences to the health and safety of the public as a result of this event.</p>										

**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

(See NUREG-1022, R.3 for instruction and guidance for completing this form
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

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 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.

1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
		YEAR	SEQUENTIAL NUMBER	REV NO.
Susquehanna Steam Electric Station, Unit 1	05000-387	2016	- 025	- 00

NARRATIVE**CONDITIONS PRIOR TO EVENT**

Unit 1 – Mode 1, approximately 100 percent Rated Thermal Power

Unit 2 – Mode 1, approximately 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 November 30, 2016 at approximately 0921, a Talen Security Officer attempted to exit the Unit 1 Air Lock [EIS: AL] via Security door 585 [EIS: DR] on elevation 676. A Talen Mechanical Maintenance employee knocked on the Turbine Building [EIS: NM] door to gain his attention. The Security Officer then stopped from proceeding into the Reactor Building [EIS: NG] to allow the mechanic to enter the airlock. While the Reactor Building door was closing, the mechanic opened the Turbine Building air lock door without verifying a green light. This caused an alarm [EIS: ALM] for a momentary breach of Secondary Containment [EIS: VA]. The mechanic then closed the door without proceeding into the airlock. This airlock serves as a secondary containment boundary; as such, having both doors open at the same time results in failure to meet Technical Specification 3.6.4.1 as a result of not satisfying Surveillance Requirement 3.6.4.1.3.

CAUSE OF THE EVENT

The cause of the event was failure to follow station expectations when entering an airlock and less than adequate verification practices.

ANALYSIS/ SAFETY SIGNIFICANCE

Technical Specification 3.6.4.1 Surveillance Requirement 3.6.4.1.3 requires that one secondary containment access door in each access opening is closed. This event is being reported pursuant to 10 CFR 50.73(a)(2)(v)(C) as having both Secondary Containment airlock doors momentarily open simultaneously results in a condition that could have prevented fulfillment of a safety function to mitigate the consequences of an accident by controlling the release of radioactive material.

There was no actual safety consequence as a result of this event. Engineering analysis of this event has determined that secondary containment could have performed its safety function of isolating, as assumed in the accident analysis, and also of re-establishing 0.25 in w.g. 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 supporting the system's ability to fulfill the safety function.

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CONTINUATION SHEET**

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		YEAR	SEQUENTIAL NUMBER	REV NO.
Susquehanna Steam Electric Station, Unit 1	05000-387	2016	- 025	- 00

CORRECTIVE ACTIONS

Corrective actions completed included coaching of the individual involved.

PREVIOUS SIMILAR EVENTS

LER 50-387(388)/2016-021-00, "Secondary Containment Declared Inoperable Due to Airlock Doors Open Due to a Human Performance Error," dated August 17, 2016 (PLA-7515).

LER 50-387(388)/2016-015-00, "Secondary Containment Declared Inoperable Due to Airlock Doors Open Due to a Human Performance Error," dated June 15, 2016 (PLA-7493).

LER 50-387(388)/2016-014-00, "Secondary Containment Declared Inoperable Due to Airlock Doors Open Due to a Human Performance Error," dated June 9, 2016 (PLA-7492).

LER 50-387(388)/2016-013-00, "Unit 1 Secondary Containment Airlock Doors on 676' opened at same time due to personnel error," dated June 9, 2016 (PLA-7492).

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 (PLA-7466).

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 (PLA-7467).

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 (PLA-7432).

LER 50-388(387)/2015-006-00, "Secondary Containment Declared Inoperable Due to Secondary Containment Boundary Door 104-R Breached," dated September 18, 2015 (PLA-7383).

LER 50-387/2015-004-00, "Secondary Containment Inoperable due Secondary Containment Boundary Door Found Ajar," dated June 25, 2015 (PLA-7353).

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 (PLA-7329).