Jon A. Franke Site Vice President Susquehanna Nuclear, LLC
769 Salem Boulevard
Berwick, PA 18603
Tel. 570.542.2904 Fax 570.542.1504
Jon.Franke@TalenEnergy.com



AUG 1 7 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)/2016-021-00 UNIT 1 LICENSE NO. NPF-14 UNIT 2 LICENSE NO. NPF-22 PLA-7515

Docket No. 50-387

50-388

Attached is Licensee Event Report (LER) 50-387(388)/2016-021-00. The LER reports an event involving Secondary Containment being declared inoperable due to both doors of an airlock being open at the same time. 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 fulfilment 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.

J.A. Franke

Attachment: LER 50-387(388)/2016-021-00

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

NRC FORM 366

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED	DV OMD.	NO	2450 0

EXPIRES: 10/31/2018

(11-2015)



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,

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06	22	2016	2016	- 021	-	- 00	80	17	20	16	FACI	LITY NAME				DOCK 050		JMBER
9. OPERATING MODE 11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)																		
□ 20.2201(b)				20.2203(a)(3)(i)					☐ 50.73(a)(2)(ii)(A)			☐ 50.73(a)(2)(viii)(A)						
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10. POWER LEVEL 20.2203(a)(2)(iii)				☐ 50.36(c)(2)				☐ 50.73(a)(2)(v)(B)			☐ 73.71(a)(5)							
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R. B. Genovese - Nuclear Regulatory Affairs (570) 542-2980																		
13, COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT																		
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inadvertently unlatched an outside airlock door, resulting in an airlock alarm indicating both doors were simultaneously. 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.

The condition requires a Licensee Event Report (LER) in accordance with 10 CFR 50.73(a)(2)(v)(C).

The cause of the event was the individual inadvertently utilized their key card for the wrong door and when opening the intended door, differential pressure caused a momentary violation of secondary containment.

Corrective actions included coaching the engineer and reinforcing to all Engineering personnel the expectations for passing through airlocks.

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	05000307	YEAR SEQUENTIA NUMBER				
	05000387	2016	- 021	- 00		

NARRATIVE

CONDITIONS PRIOR TO EVENT

Unit 1 – Mode 4, 0 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 June 22, 2016 at approximately 15:01, an engineer working with a team was passing through a Unit 1 Reactor Building [EIIS System Code: NG] airlock [EIIS Component Code: AL] to access the Unit 1 train bay. Once inside the airlock, the individual inadvertently unlatched the Reactor Building airlock door [EIIS Component Code: DR], resulting in an airlock alarm [EIIS Component Code: ALM], indicating both Reactor Building and train bay doors were open simultaneously. This airlock serves as a secondary containment [EIIS System Code: VA] 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.

The following is a time line of the event that occurred on June 22, 2016:

Engineering personnel arrived at Unit 1 Reactor Building airlock with the intent of passing through to the Unit 1 train bay. Individuals ensured they were in the correct location and discussed expectations for traversing through airlock.
 Engineering personnel proceeded to key-card into the airlock through the Reactor Building door.
 Once inside the airlock, one individual used the card reader inside the airlock, incorrectly assuming the card reader operated the train bay door. This unlatched the Reactor Building

door; personnel were unaware the Reactor Building door had been unlatched

When the inner door was expended differential prossure cause the unlatched Reactor Building

When the inner door was opened, differential pressure cause the unlatched Reactor Building door to open, resulting in an airlock alarm. The train bay door was then immediately closed.

The individual self-identified that they had inadvertently assumed the need to key-card through the inner door to access the Unit 1 train bay. Upon receiving the airlock alarm, the train bay door was immediately closed.

The condition requires a Licensee Event Report (LER) in accordance with 10 CFR 50.73(a)(2)(v)(C).

CAUSE OF EVENT

The cause of the event was the individual inadvertently utilized their key card for the wrong door and when opening the intended door, differential pressure caused a momentary violation of secondary containment.

NRC FORM 366A

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1. FACILITY NAME	2. DOCKET NUMBER		3. LER NUMBER				
Susquehanna Steam Electric Station, Unit 1	05000207	SEQUENTIAL NUMBER	REV NO.				
	05000387	2016	- 021	- 00			

NARRATIVE

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.

CORRECTIVE ACTIONS

Corrective actions completed include coaching of the engineer on situational awareness and proper airlock use as well as reinforcement during Engineering briefings of expectations for passing through airlocks.

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)/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.