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TALEN ENERGY

MAY 10 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)/2016-004-00
UNIT 1 LICENSE NO. NPF-14
UNIT 2 LICENSE NO. NPF-22
PLA-7467

Docket Nos. 50-387
50-388

Attached is Licensee Event Report (LER) 50-387(388)/2016-004-00.
On March 14, 2016, the Susquehanna Steam Electric Station (SSES) experienced a momentary loss of Secondary Containment due to both doors of the Unit 2 Reactor Building airlock being opened at the same time. This LER is being submitted for a loss of safety function of Secondary Containment.

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)/2016-004-00

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 (11-2015) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2018

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.

LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

1. FACILITY NAME	2. DOCKET NUMBER	3. PAGE
Susquehanna Steam Electric Station Unit 1	05000387	1 OF 3

4. TITLE

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

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
									Susquehanna SES – Unit 2	05000388
03	14	2016	2016	004	00	05	10	2016	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	☐ 20.2201(b)	☐ 20.2203(a)(3)(i)	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)
	☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)
10. POWER LEVEL	☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.73(a)(2)(iii)	☐ 50.73(a)(2)(ix)(A)
	☐ 20.2203(a)(2)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)
	☐ 20.2203(a)(2)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(v)(A)	☐ 73.71(a)(4)
100	☐ 20.2203(a)(2)(iii)	☐ 50.36(c)(2)	☐ 50.73(a)(2)(v)(B)	☐ 73.71(a)(5)
	☐ 20.2203(a)(2)(iv)	☐ 50.46(a)(3)(ii)	☒ 50.73(a)(2)(v)(C)	☐ 73.77(a)(1)
	☐ 20.2203(a)(2)(v)	☐ 50.73(a)(2)(i)(A)	☐ 50.73(a)(2)(v)(D)	☐ 73.77(a)(2)(i)
	☐ 20.2203(a)(2)(vi)	☐ 50.73(a)(2)(i)(B)	☐ 50.73(a)(2)(vii)	☐ 73.77(a)(2)(ii)
		☐ 50.73(a)(2)(i)(C)	☐ OTHER Specify in Abstract below or in NRC Form 366A	

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT	TELEPHONE NUMER *(Include Area Code)*
Brenda W. O'Rourke – Senior Engineer, Nuclear Regulatory Affairs	(570) 542-1791

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

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

On March 14, 2016, an individual was attempting to enter the Unit 2 Reactor Building airlock on Elevation 779 through Door 115R, when the opposite airlock door (Door 602) opened due to air pressure/vacuum created when Door 115R was opened. The airlock alarmed at 0925 hours due to both airlock doors (Door 602 and 115R) being open at the same time. The individual immediately closed Door 115R. An inspection of Door 602 was performed which identified that the strike plate on the door was not maintaining the door latched. Door 115R was maintained closed while Door 602 was being repaired. Door 602 was repaired by tightening the screws of the cover plate on the door's mortise. Operations declared the door to be operable at 0957 hours on March 14, 2016.

In accordance with 10 CFR 50.73(a)(2)(v)(C), this LER is being submitted for an event or condition that could have prevented the fulfillment of the safety function of Secondary Containment to control the release of radioactive material. No entry into Technical Specification 3.6.4.1, Action Statement A, was made because at the time the Control Room was made aware of the event, both airlock doors were closed and Secondary Containment had been re-established.

The direct cause of the event was due to a loose cover plate on the door's mortise. The latch on Door 602 was repaired and the door was declared operable. 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		
		YEAR	SEQUENTIAL NUMBER	REV NO.
Susquehanna Steam Electric Station, Unit 1	05000387	2016	- 004	- 00

NARRATIVE

CONDITIONS PRIOR TO THE EVENT

Unit 1 – Mode 5, 0 percent Rated Thermal Power

Unit 2 – Mode 1, 99.8 percent Rated Thermal Power

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

EVENT DESCRIPTION

On March 14, 2016, an individual was attempting to enter the Unit 2 Reactor Building [EIIS: NG] airlock [EIIS: AL] on Elevation 779 through Door 115R, when the opposite airlock door (Door 602) opened due to air pressure/vacuum created when Door 115R was opened. The airlock alarmed at 0925 hours due to both airlock doors (Door 602 and 115R) [EIIS: DR] being open at the same time. The individual immediately closed Door 115R and Secondary Containment was re-established.

An inspection of Door 602 was performed which identified that the strike plate on the door was not maintaining the door latched. Door 115R was maintained closed while Door 602 was being repaired. Door 602 was repaired by tightening the screws of the cover plate on the door's mortise. Operations declared the door to operable at 0957 hours on March 14, 2016.

In accordance with 10 CFR 50.73(a)(2)(v)(C), this LER is being submitted for an event or condition that could have prevented the fulfillment of the safety function of Secondary Containment to control the release of radioactive material. No entry into Technical Specification 3.6.4.1, Action Statement A, was made because at the time the Control Room was made aware of the event, both airlock doors were closed and Secondary Containment had been re-established.

CAUSE OF THE EVENT

The direct cause of the event was due to a loose cover plate on the door's mortise.

ANALYSIS/SAFETY SIGNIFICANCE

The actual consequence of this event was a momentary loss of Secondary Containment. No entry into the Technical Specification 3.6.4.1, Action Statement A, was made because at the time the Control Room was made aware of the event, both airlock doors were closed.

This event will not be counted as a safety system functional failure (SSFF) for the NRC performance indicator. An engineering analysis was performed and concluded that Secondary Containment could have performed its

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LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
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Susquehanna Steam Electric Station, Unit 1	05000387	2016	-004	-00

ANALYSIS/SAFETY SIGNIFICANCE (CONT.)

safety function of isolating as in the accident analysis and also of re-establishing 0.25 inch vacuum within the assumed accident analysis time of 10 minutes. Therefore, there was no loss of the ability of the Secondary Containment system to fulfill its safety function.

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

CORRECTIVE ACTIONS

The latch on Door 602 was repaired and the door was declared operable.

PREVIOUSLY SIMILAR EVENTS

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

LER 50-387(388)/2016-002: Secondary Containment Declared Inoperable Due to an Airlock Doors Open Due to Random Occurrence, dated April 18, 2016.

LER 50-387(388)/2016-001: Secondary Containment Declared Inoperable Due to an Airlock Doors Open Due to Random Occurrence, dated April 18, 2016.

LER 50-387(388)/2015-011: 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.