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JUN 25 2015

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

**SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 50-387(388)/2015-005-00
UNIT 1 LICENSE NO. NPF-14
UNIT 2 LICENSE NO. NPF-22
PLA-7354**

**Docket No 50-387
and 50-388**

Attached is Licensee Event Report (LER) 50-387(388)/2015-005-00. On May 4, 2015, Secondary Containment differential pressure was lost during maintenance activities on Secondary Containment exhaust fan discharge dampers. This event was determined to be reportable under 10 CFR 50.73(a)(2)(v) as a condition that could have prevented the fulfillment of the safety function of the Secondary Containment system.

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


No regulatory commitments are associated with this LER.

A handwritten signature in black ink, appearing to be "J. A. Franke", written over a horizontal line.

J. A. Franke

Attachment: LER 50-387(388)/2015-005-00

Copy: NRC Region I
Mr. J. E. Greives, NRC Sr. Resident Inspector
Mr. J. A. Whited, NRC Project Manager
Mr. B. R. Fuller, PA DEP/BRP

NRC FORM 366 (02-2014)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0104		EXPIRES: 01/31/2017	
		LICENSEE EVENT REPORT (LER) (See Page 2 for required number of digits/characters for each block)					
1. FACILITY NAME Susquehanna Steam Electric Station, Unit 1				2. DOCKET NUMBER 05000387		3. PAGE 1 of 2	
4. TITLE Loss of Secondary Containment Differential Pressure During Ventilation Damper Testing							
5. EVENT DATE			6. LER NUMBER			7. REPORT DATE	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY
05	04	2015	2015	- 005	00	06	25
						8. OTHER FACILITIES INVOLVED	
FACILITY NAME Susquehanna Unit 2						DOCKET NUMBER 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)(i)(C)	
		<input type="checkbox"/> 20.2201(d)		<input type="checkbox"/> 20.2203(a)(3)(ii)		<input type="checkbox"/> 50.73(a)(2)(ii)(A)	
10. POWER LEVEL 098		<input type="checkbox"/> 20.2203(a)(1)		<input type="checkbox"/> 20.2203(a)(4)		<input type="checkbox"/> 50.73(a)(2)(ii)(B)	
		<input type="checkbox"/> 20.2203(a)(2)(i)		<input type="checkbox"/> 50.36(c)(1)(i)(A)		<input type="checkbox"/> 50.73(a)(2)(iii)	
		<input type="checkbox"/> 20.2203(a)(2)(ii)		<input type="checkbox"/> 50.36(c)(1)(ii)(A)		<input type="checkbox"/> 50.73(a)(2)(iv)(A)	
		<input type="checkbox"/> 20.2203(a)(2)(iii)		<input type="checkbox"/> 50.36(c)(2)		<input type="checkbox"/> 50.73(a)(2)(v)(A)	
		<input type="checkbox"/> 20.2203(a)(2)(iv)		<input type="checkbox"/> 50.46(a)(3)(ii)		<input type="checkbox"/> 50.73(a)(2)(v)(B)	
		<input type="checkbox"/> 20.2203(a)(2)(v)		<input type="checkbox"/> 50.73(a)(2)(i)(A)		<input checked="" type="checkbox"/> 50.73(a)(2)(v)(C)	
		<input type="checkbox"/> 20.2203(a)(2)(vi)		<input type="checkbox"/> 50.73(a)(2)(i)(B)		<input type="checkbox"/> 50.73(a)(2)(v)(D)	
12. LICENSEE CONTACT FOR THIS LER							
LICENSEE CONTACT T. A. Case, Senior Engineer – Nuclear Regulatory Affairs						TELEPHONE NUMBER (Include Area Code) (570) 542-3606	
13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT							
CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT
14. SUPPLEMENTAL REPORT EXPECTED						15. EXPECTED SUBMISSION DATE	
<input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE)						<input checked="" type="checkbox"/> NO	
						MONTH	DAY
						YEAR	
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)							
<p>During a refueling outage, a clearance order was applied to Unit 2 Zone III Reactor Building ventilation exhaust fan inlet dampers in support of maintenance activities on the system. Upon completion of the maintenance activities, the clearance order was removed on May 4, 2015. During removal of the clearance order, the ventilation dampers were repositioned open in anticipation of restoring the Unit 2 Zone III Reactor Building ventilation system to service. Following the removal of the clearance order and damper repositioning, a ventilation damper located at the outlet of an exhaust fan was stroked open as part of a maintenance activity. By stroking this outlet damper open a vent path from Zone III was inadvertently established and, as a result, Zone III differential pressure degraded to below the Technical Specification (TS) Surveillance Requirement (SR) minimum value of 0.25 inch of vacuum water gauge. Limiting Condition for Operation (LCO) 3.6.4.1 was entered at 1439 on both units. The outlet damper was immediately closed and Zone III differential pressure was restored to above the TS SR minimum value after approximately two minutes. LCO 3.6.4.1 was exited at 1452.</p> <p>The apparent cause of the event was determined to be that Operations shift supervision did not adequately assess the impact to the plant prior to releasing stroking of the Zone III exhaust damper. Key planned corrective actions include revising operating and administrative procedures to require applicable dampers to be closed and status control tags applied when either unit's Zone III Reactor Building ventilation system is shutdown.</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**

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	6. LER NUMBER			3. PAGE
Susquehanna Steam Electric Station, Unit 1	05000387	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 of 2
		2015	- 005	- 00	

NARRATIVE**CONDITIONS PRIOR TO THE EVENT**

Unit 1 – Mode 1, 98 percent Rated Thermal Power

Unit 2 – Mode 5, Refueling Outage

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

EVENT DESCRIPTION

During Susquehanna's Unit 2 17th Refueling and Inspection Outage in April 2015, a clearance order was applied to Unit 2 Zone III Reactor Building ventilation [EIS System Code VA] exhaust fan inlet dampers in support of maintenance activities on the system. Upon completion of the maintenance activities, the clearance order was removed on May 4, 2015. During removal of the clearance order, the ventilation dampers were repositioned open in anticipation of restoring the Unit 2 Zone III Reactor Building ventilation system to service. Following the removal of the clearance order and damper repositioning, a ventilation damper located at the outlet of an exhaust fan was stroked open as part of a maintenance activity. By stroking this outlet damper open while the inlet dampers were open, a vent path from Zone III was inadvertently established and, as a result, Zone III differential pressure on both units degraded to below the Technical Specification (TS) Surveillance Requirement (SR) minimum value of 0.25 inches of water gauge. Limiting Condition for Operation (LCO) 3.6.4.1 was entered at 1439 on both units. In accordance with the required actions for LCO 3.6.4.1, fuel handling evolutions were placed on hold. The outlet damper was immediately closed and Zone III differential pressure was restored to above the TS SR minimum value after approximately two minutes. LCO 3.6.4.1 was exited at 1452.

At 2144, emergency notification (EN) 51040 was communicated to the NRC to report this event as an event or condition that could have prevented fulfillment of a safety function. Using the guidance in NUREG-1022, this event was determined to be reportable under 10 CFR 50.73(a)(2)(v) as a condition that could have prevented the fulfillment of the safety function of the Secondary Containment system.

CAUSE OF THE EVENT

The apparent cause of the event was determined to be that Operations shift supervision did not adequately assess the impact to the plant prior to releasing stroking of the Zone III exhaust fan outlet damper.

ANALYSIS/SAFETY SIGNIFICANCE

There were no actual consequences to the health and safety of the public as a result of this event. The fan exhaust dampers are outside the isolation (inlet) dampers. Therefore there was no impact on the Standby Gas Treatment System's ability to drawdown secondary containment. Based on an engineering evaluation, Secondary Containment could have performed its safety function of isolating as assumed in the accident analysis and also of re-establishing 0.25 inch of vacuum water gauge within the assumed accident analysis time. Therefore, this event did not cause a loss of safety function.

CORRECTIVE ACTIONS

Following restoration from the event, action was taken to close the Unit 2 Zone III Reactor Building ventilation exhaust fan inlet dampers until the Unit 2 Zone III system was returned to service. Key planned corrective actions include revising operating and administrative procedures to require applicable dampers to be closed and status control tags applied when either unit's Zone III Reactor Building ventilation system is shutdown.

PREVIOUS SIMILAR EVENTS

CR-856695: Loss of Zone III differential pressure during exhaust fan outlet damper stroking