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August 8, 2014

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

Nine Mile Point Nuclear Station, Unit 2
Renewed Facility Operating License No. NPF-69
Docket No. 50-410

SUBJECT: Licensee Event Report 2014-008, Secondary Containment Inoperable
Due to Reactor Building Exhaust Fan Trip

In accordance with 10 CFR 50.73(a)(2)(v)(C), please find attached Licensee Event
Report 2014-008, Secondary Containment Inoperable Due to Reactor Building Exhaust
Fan Trip .

There are no regulatory commitments in this submittal.

Should you have questions regarding the information in this submittal, please contact
Theresa Darling, Acting Manager Site Regulatory Assurance, at (315) 349-2221.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter M. Orphanos", followed by a long horizontal line.

Peter M. Orphanos
PMO/KP

Attachment: Licensee Event Report 2014-008, Secondary Containment Inoperable
Due to Reactor Building Exhaust Fan Trip

cc: Regional Administrator, Region I, USNRC
Project Manager, USNRC
Resident Inspector, USNRC

Handwritten initials "TE22" with "NRR" written below them.

ATTACHMENT

LICENSEE EVENT REPORT 2014-008

**SECONDARY CONTAINMENT INOPERABLE DUE TO REACTOR
BUILDING EXHAUST FAN TRIP**

**Nine Mile Point Nuclear Station, LLC
August 8, 2014**

(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 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.

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4. TITLE

Secondary Containment Inoperable Due to Reactor Building Exhaust Fan Trip

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
									N/A	N/A
06	10	2014	2014 - 008 - 00			08	08	2014	N/A	N/A

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"/> 50.73(a)(2)(vii)
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)
	<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"/> 50.73(a)(2)(viii)(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"/> 50.73(a)(2)(ix)(A)
10. POWER LEVEL	<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"/> 50.73(a)(2)(x)
	<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"/> 73.71(a)(4)
	<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"/> 73.71(a)(5)
	<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"/> OTHER
	<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)	Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT	TELEPHONE NUMBER (Include Area Code)
Theresa Darling, Acting Manager Site Regulatory Assurance	(315) 349-2221

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
B	VA	FAN	JOY	N	N/A	N/A	N/A	N/A	N/A

14. SUPPLEMENTAL REPORT EXPECTED <input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR
		NA	NA	NA

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

Nine Mile Point Unit 2 (NMP2) secondary containment was declared inoperable on June 10, 2014 from 2032 until 2036. The event occurred while the plant was restoring the Reactor Building Ventilation System to normal line up. Exhaust Fan 2HVR-FN5A tripped following planned post maintenance testing which resulted in building differential pressure (dP) exceeding the Technical Specification (TS) limit of ≥ 0.25 inch vacuum water gauge. Secondary containment dP was restored within TS limits by starting the Standby Exhaust Fan. Both the TS Action Statement and plant procedure were exited at 2036 when secondary containment was declared operable. The cause of the exhaust fan trip was a faulty flow switch. Corrective actions taken or planned to prevent a recurrence include: 1) replaced Flow Switch 2HVR-FS12A, 2) revising the Preventative Maintenance (PM) strategy for Reactor Building ventilation supply and exhaust fan flow switches, and 3) revising a plant procedure to clarify fan start requirements. There were no previously submitted similar LERs identified. The reportable condition has been documented in the plant's corrective action program as CR-2014-005610.

**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.

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NARRATIVE**I. DESCRIPTION OF EVENT****A. PRE-EVENT PLANT CONDITIONS:**

Prior to the event, Nine Mile Point Unit 2 (NMP2) was in Mode 1 operating at rated thermal power.

B. EVENT:

On June 10 at 2032, Nine Mile Point Unit 2 (NMP2) declared secondary containment inoperable due to a Reactor Building Exhaust fan trip. While restoring Reactor Building ventilation to normal lineup following planned maintenance, Fan 2HVR-FN5A (Exhaust Fan "A"), tripped which caused secondary containment differential pressure (dP) to exceed Technical Specification (TS) limits. Exhaust Fan "A" was being started after maintenance to replace the fan power supply breaker when the event occurred. The exhaust fan trip was attributed to a fan flow switch malfunction. At the start of the event, the station entered the action statement for TS 3.6.4.1 Condition A.1 to restore dP within TS limits within 4 hours. Procedure N2-EOP-SC, "Secondary Containment – Flowchart" was also entered. Standby Exhaust Fan, 2HVR-FN5B, was started per procedure and Reactor Building dP was subsequently restored within TS limits. At 2036, the secondary containment was declared operable. The TS 3.6.4.1 action statement and N2-EOP-SC were subsequently exited.

Nine Mile Point Unit 1 (NMP1) was unaffected by the occurrence of secondary containment inoperability at NMP2.

This event has been documented in the plant's corrective action program as CR-2014-005610.

C. INOPERABLE STRUCTURES, COMPONENTS, OR SYSTEMS THAT CONTRIBUTED TO THE EVENT:

No other systems, structures, or components contributed to this event.

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NARRATIVE

D. DATES AND APPROXIMATE TIMES OF MAJOR OCCURRENCES:

The dates, times and major occurrences for this event are as follows:

June 10

2032 Reactor Building Exhaust Fan 2HVR-FN5A Tripped
 2032 Entered TS Action Statement 3.6.4.1, Condition A.1
 2035 Entered N2-EOP-SC
 2036 Standby Exhaust Fan 2HVR-FN5B started
 2036 Declared Secondary Containment Operable, Exited TS Action Statement 3.6.4.1, Condition A.1. Exited N2-EOP-SC

E. OTHER SYSTEMS OR SECONDARY FUNCTIONS AFFECTED:

No other systems or secondary functions were affected.

F. METHOD OF DISCOVERY:

This event was discovered when Local Alarm 101107, RB VENT FN5A-5B Auto Trip/Fail to Start, annunciator was received at the time of the 2HVR-FN5A trip.

G. MAJOR OPERATOR ACTION:

The station entered TS action statement 3.6.4.1, Condition A.1 and N2-EOP-SC for the Reactor Building dP being greater than TS limits. These measures were exited after Standby Fan 2HVR-FN5B was started and dP returned to greater than the TS minimum.

H. SAFETY SYSTEM RESPONSES:

The duration of the reportable condition was approximately 4 minutes. Fan 2HVR-FN5B was started at 2036 and secondary containment dP returned to within TS limits. Division I Standby Gas Treatment System (GTS) was operable and in operation.

II. CAUSE OF EVENT:

This event was caused by the tripping of 2HVR-FN5A due to a faulty flow switch.

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III. ANALYSIS OF THE EVENT:

The event described in this LER is reportable under 10 CFR 50.72 (b)(3)(v)(C) and 10 CFR 50.73(a)(2)(v)(C) as "any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to control the release of radioactive material."

Reactor Building Exhaust Fan "A" tripped subsequent to planned maintenance while Reactor Building ventilation was being restored to normal lineup. The causal analysis for this event identified that associated Flow Switch 2HVR-FS12A did not change state following a 35 second delay. The exhaust fan tripped as a result of this malfunction then secondary containment dP exceeded TS limits.

Operator actions taken on June 10, 2014 to address this condition were consistent with plant procedures. When Standby Exhaust Fan "B" was activated, secondary containment dP returned within TS limits.

The required TS Limiting Condition for Operation (LCO) action statement during this event was entered and subsequently exited once the secondary containment dP was restored to above the required TS minimum value. In all cases, the TS required completion time was not exceeded. The secondary containment structural integrity, the ability to automatically isolate the non-safety related Reactor Building Ventilation System, and the GTS availability were not impacted. Secondary containment would have continued to perform its intended safety function.

Based on the above discussion, it is concluded that the safety significance of this event is low and the event did not pose a threat to the health and safety of the public or plant personnel.

This event does not affect the NRC Regulatory Oversight Process Indicators.

IV. CORRECTIVE ACTIONS:

A. ACTION TAKEN TO RETURN AFFECTED SYSTEMS TO PRE-EVENT NORMAL STATUS:

Compensatory measures taken to restore secondary containment to pre-event status included the following:

Entering and exiting TS Action Statement 3.6.4.1 and N2-EOP-SC

Starting Standby Exhaust Fan 2HVR-FN5B

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B. ACTION TAKEN OR PLANNED TO PREVENT RECURRENCE:

The following are actions planned or taken to prevent recurrence:

Replaced Flow Switch 2HVR-FS12A.

Revise the Preventative Maintenance (PM) strategy for Reactor Building ventilation supply and exhaust fan flow switches.

Revise N2-OP-52, "Reactor Building Ventilation", to ensure exhaust and supply fan discharge dampers are 100% open prior to a fan start.

V. ADDITIONAL INFORMATION:

A. FAILED COMPONENTS:

There were no other failed components that contributed to this event.

B. PREVIOUS LERs ON SIMILAR EVENTS:

There were no previously submitted similar LERs identified.

C. THE ENERGY INDUSTRY IDENTIFICATION SYSTEM (EII) COMPONENT FUNCTION IDENTIFIER AND SYSTEM NAME OF EACH COMPONENT OR SYSTEM REFERRED TO IN THIS LER:

<u>COMPONENT</u>	<u>IEEE 803 FUNCTION IDENTIFIER</u>	<u>IEEE 805 SYSTEM IDENTIFICATION</u>
Reactor Building Ventilation System	N/A	VA
Reactor Building Exhaust Fan	FAN	VA
Standby Gas Treatment System	N/A	BH

D. SPECIAL COMMENTS:

None