



Exelon Generation®

10 CFR 50.73

NMP2L 2624
June 6, 2016

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: NMP2 Licensee Event Report 2016-001, Secondary Containment Inoperable
Due to Simultaneous Opening of Airlock Doors

In accordance with the reporting requirements contained in 10 CFR 50.73(a)(2)(v)(C), please find enclosed NMP2 Licensee Event Report (LER) 2016-001, Secondary Containment Inoperable Due to Simultaneous Opening of Airlock Doors.

There are no regulatory commitments contained in this letter.

Should you have any questions regarding the information in this submittal, please contact Dennis Moore, Site Regulatory Assurance Manager, at (315) 349-5219.

Respectfully,

Robert E. Kreider Jr.
Plant Manager, Nine Mile Point Nuclear Station
Exelon Generation Company, LLC

REK/KJK

Enclosure: NMP2 Licensee Event Report 2016-001, Secondary Containment Inoperable
Due to Simultaneous Opening of Airlock Doors

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

IEZ 2
NRR

Enclosure

NMP2 Licensee Event Report 2016-001,
Secondary Containment Inoperable Due to Simultaneous Opening of Airlock Doors

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



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, 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

Nine Mile Point Unit 2

2. DOCKET NUMBER

05000410

3. PAGE

1 OF 5

4. TITLE

Secondary Containment Inoperable Due to Simultaneous Opening of Airlock Doors

5. EVENT DATE

MONTH	DAY	YEAR
04	07	2016

6. LER NUMBER

YEAR	SEQUENTIAL NUMBER	REV NO.
2016	- 001	- 00

7. REPORT DATE

MONTH	DAY	YEAR
06	06	2016

8. OTHER FACILITIES INVOLVED

FACILITY NAME	DOCKET NUMBER
N/A	N/A
FACILITY NAME	DOCKET NUMBER
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)(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)

10. POWER LEVEL

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 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 checked="" 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

Dennis Moore, Site Regulatory Assurance Manager

TELEPHONE NUMBER (Include Area Code)

(315) 349-5219

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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

14. SUPPLEMENTAL REPORT EXPECTED

☐ YES (If yes, complete 15. EXPECTED SUBMISSION DATE) ☒ NO15. EXPECTED
SUBMISSION
DATE

MONTH	DAY	YEAR
N/A	N/A	N/A

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

On April 7, 2016, at approximately 1730 hours, the secondary containment of the Nine Mile Point Unit 2 (NMP2) Reactor Building was breached when workers opened both inner and outer airlock doors, SA262-2 and SA262-3, simultaneously. The integrity of the airlock was re-established within 4 to 5 seconds when one of the doors was closed and latched. This resulted in a momentary loss of Secondary Containment Operability (TS 3.4.3). Secondary containment differential pressure never exceeded the minimum Technical Specification limit of 0.25 inch of vacuum water gauge. The causal analysis identified that the existing notice providing airlock door usage instructions is not effective in preventing doors being opened simultaneously in all situations. Corrective actions taken include revising the notice signage at all airlock doors to increase wait time from 5 seconds to 10 seconds to allow personnel traversing the airlock to exit. NMP2 has submitted LER 2014-007, Revision 1 for similar conditions.

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

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1. FACILITY NAME	2. DOCKET NUMBER	3. LER NUMBER		
Nine Mile Point Unit 2	05000-410	YEAR	SEQUENTIAL NUMBER	REV NO.
		2016	- 001	- 00

NARRATIVE

I. DESCRIPTION OF EVENT

A. PRE-EVENT PLANT CONDITIONS:

Prior to the event, Nine Mile Point Unit 2 (NMP2) was in Mode 1 and operating at 100% reactor power.

B. EVENT:

On April 7, 2016, at approximately 1730 hours, the simultaneous opening of Reactor Building airlock doors resulted in a momentary loss of secondary containment safety function. NMP2 was in Mode 1 and operating at 100%. The incident occurred when individuals were attempting to utilize the Unit 2 outer South Auxiliary Bay airlock (doors SA262-2 and SA262-3) on elevation 261 from opposite directions. An Operator was entering the airlock from RP access into the Reactor Building through door SA262-3. The Operator carded in, opened door, and started to step into the airlock. Concurrently, two supplemental workforce personnel were exiting the Reactor Building to RP Access through door SA262-2. The breach of secondary containment was immediately realized and the supplemental workforce personnel immediately closed door SA262-2 without entering the airlock. The control room was contacted and in response to this condition, operators entered Technical Specification (TS) action statement 3.6.4.1, Condition C then promptly exited this action statement when the inner airlock door was closed. During the event, both the operator and the supplemental workforce personnel were attempting to utilize the airlock doors in accordance with the posted Notice. However, the requirement to wait 5 seconds to allow personnel who may be traversing to exit, does not reduce the chances of an event when personnel are attempting to enter the airlock from outside opposing airlock doors (not actually traversing).

Nine Mile Point Unit 1 (NMP1) was unaffected by both airlock doors being open at NMP2.

The event has been entered into the plant's corrective action program as IR 2652511.

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 AND OPERATOR ACTIONS:

The dates, times, and major occurrences and operator actions for this event are as follows. All dates are 2016.

April 7

1730 Doors SA262-2 and SA262-3 are opened concurrently.

1730 Personnel recognize that secondary containment has been breached and immediately closed door SA262-2.

1730 Entered TS action statement 3.6.4.1, Condition C and exited.

NMP2 entered TS action statement 3.6.4.1, Condition C, then exited it when door SA262-2 was shut.

E. METHOD OF DISCOVERY:

This event was discovered by station personnel traversing the Reactor Building airlock doors.

F. SAFETY SYSTEM RESPONSES:

The duration of each event was 4 to 5 seconds, or less. There was no impact on building differential pressure. Operators entered the applicable TS action statement then exited it soon afterwards. The event concluded when the inner airlock door was shut.

II. CAUSE OF EVENT:

This event was caused by the simultaneous opening of Airlock Doors SA262-2 and SA262-3 by workers as they passed through the doors. During the event, both the operator and the supplemental workforce personnel were attempting to utilize the airlock doors in accordance with the posted Notice. However, the requirement to wait 5 seconds to allow personnel who may be traversing to exit, does not reduce the chances of an event when personnel are attempting to enter the airlock from outside opposing airlock doors (not actually traversing).

III. ANALYSIS OF THE EVENT:

The reportable condition associated with airlock doors SA262-2 and SA262-3 being open simultaneously represents a potential loss of secondary containment safety function. This condition is reportable under 10 CFR 50.72(b)(3)(v)(C) and 10 CFR 50.73(a)(2)(v)(C). It is defined under paragraph 10 CFR 50.73(a)(2)(v)(C) as any event or condition that could

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Nine Mile Point Unit 2	05000-410	YEAR	SEQUENTIAL NUMBER	REV NO.
		2016	- 001	- 00

NARRATIVE

have prevented the fulfillment of the safety function of structures or systems that are needed to control the release of radioactive material.

The incident occurred when individuals were attempting to utilize the Unit 2 outer South Auxiliary Bay airlock (doors SA262-2 and SA262-3) on elevation 261 from opposite directions. An Operator was entering the airlock from RP access into the Reactor Building through door SA262-3. The Operator carded in, opened the door, and started to step into the airlock. Concurrently, two supplemental workforce personnel were exiting the Reactor Building to RP Access through door SA262-2. The breach of secondary containment was immediately realized and the supplemental workforce personnel immediately closed door SA262-2 without entering airlock. During the event, both the operator and the supplemental workforce personnel were attempting to utilize the airlock doors in accordance with the posted Notice. However, the requirement to wait 5 seconds to allow personnel who may be traversing to exit, does not reduce the chances of an event when personnel are attempting to enter the airlock from outside opposing airlock doors (not actually traversing).

In response to the event, the station entered the action statement for TS 3.6.4.1 then promptly exited it when the airlock doors were shut. Computer data identified that secondary containment differential pressure was unaffected by this event. Secondary containment structural integrity, the ability to automatically isolate the non-safety related Reactor Building ventilation system, and the GTS availability were not impacted. 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:

Airlock door SA262-2 was closed and the secondary containment was restored to Operable status.

B. ACTION TAKEN OR PLANNED TO PREVENT RECURRENCE:

Revise Notice signage at all airlock doors to increase wait time from 5 seconds to 10 seconds to allow personnel traversing the airlock to exit.

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Revise Notice at the three South Auxiliary Bay airlocks to restrict use as follows: "Use airlock R261-1 / R261-2 whenever possible. Use of this airlock should be limited to accessing work location(s) only when necessary."

V. ADDITIONAL INFORMATION:

A. FAILED COMPONENTS:

There were no failed components that contributed to this event.

B. PREVIOUS LERs ON SIMILAR EVENTS:

NMP2 LER 2014-007, Revision 1

C. THE ENERGY INDUSTRY IDENTIFICATION SYSTEM (EIIIS) 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 (BWR)	N/A	NG
Reactor Building Ventilation System	PDIC	VA
Standby Gas Treatment System	N/A	BH
Airlock Door	DR	NG

D. SPECIAL COMMENTS:

None