Exelon Generation®

10 CFR 50.73

NMP1L 2969
October 10, 2014

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

Nine Mile Point Nuclear Station, Unit 1
Renewed Facility Operating License No. DPR-63
Docket No. 50-220

Subject: NMP1 Licensee Event Report 2014-004, 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 attached NMP1 Licensee Event Report 2014-004, 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 Terry Syrell, Acting Manager - Site Regulatory Assurance, at (315) 349-5245.

Respectfully,

Peter M. Orphanos
Plant Manager - Nine Mile Point Nuclear Station
Exelon Generation Company, LLC

PMO/KJK

Attachment: NMP1 Licensee Event Report 2014-004, Secondary Containment Inoperable due to Simultaneous Opening of Airlock Doors

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

IE22
NRR

ATTACHMENT

NMP1 LICENSEE EVENT REPORT 2014-004

SECONDARY CONTAINMENT INOPERABLE DUE TO SIMULTANEOUS OPENING OF AIRLOCK DOORS

Nine Mile Point Nuclear Station, LLC
October 10, 2014

NRC FORM 366 (02-2014) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 01/31/2017

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
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4. TITLE

Secondary Containment Inoperable Due to Simultaneous Opening of Airlock Doors

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
08	13	2014	2014	004	00	10	10	2014	FACILITY NAME: N/A	DOCKET NUMBER: N/A

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)(i)(C)	☐ 50.73(a)(2)(vii)
	☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)
	☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)
	☐ 20.2203(a)(2)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(iii)	☐ 50.73(a)(2)(ix)(A)
10. POWER LEVEL	☐ 20.2203(a)(2)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)
	☐ 20.2203(a)(2)(iii)	☐ 50.36(c)(2)	☐ 50.73(a)(2)(v)(A)	☐ 73.71(a)(4)
100%	☐ 20.2203(a)(2)(iv)	☐ 50.46(a)(3)(ii)	☐ 50.73(a)(2)(v)(B)	☐ 73.71(a)(5)
	☐ 20.2203(a)(2)(v)	☐ 50.73(a)(2)(i)(A)	☒ 50.73(a)(2)(v)(C)	☐ OTHER
	☐ 20.2203(a)(2)(vi)	☐ 50.73(a)(2)(i)(B)	☐ 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)*
Terry Syrell, Acting Regulatory Assurance Manager	(315) 349-5245

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
A	NG	DR	N/A	N	N/A	N/A	N/A	N/A	N/A

14. SUPPLEMENTAL REPORT EXPECTED	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR
☐ YES *(If yes, complete 15. EXPECTED SUBMISSION DATE)* ☒ NO		N/A	N/A	N/A

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

On August 13, 2014, at approximately 2318 hours, the secondary containment of the Nine Mile Point Nuclear Station Unit 1 (NMP1) Reactor Building was breached when station personnel opened both inner and outer airlock doors simultaneously while passing through. The integrity of the airlock was re-established in approximately 5 seconds when one of the doors was closed and latched. The magnetic door lock system on the NMP1 airlock doors was bypassed defeating the system used to prevent simultaneous opening of both doors. Secondary containment differential pressure was unaffected by this event. The cause of the event is less than adequate physical barriers to prevent casual operation of the bypass pushbuttons. Corrective actions to be taken include installing closure devices on the magnetic door lock bypass pushbutton covers. NMP2 LER 2014-007 was provided for a similar event that occurred on April 2, 2014.

NARRATIVE

I. DESCRIPTION OF EVENT

A. PRE-EVENT PLANT CONDITIONS:

Prior to the event, Nine Mile Point Nuclear Station Unit 1 (NMP1) was operating at rated thermal power.

B. EVENT:

On August 13, 2014 at 2318, the simultaneous opening of Reactor Building airlock doors resulted in a momentary loss of secondary containment safety function. NMP1 was operating at rated thermal power. The incident occurred during normal egress from the reactor building into the turbine building. The badging transaction report indicated that two workers carded into D-052 (outer door). The workers were exiting the reactor building with garbage bags. Before the outer door could close, a security officer opened D-053 (inner door) from the reactor building side, resulting in both doors being open concurrently for several seconds. The security officer immediately shut the inner door and reported the issue. An event investigation confirmed the outer door was opened first, the inner door was opened second; both doors were open at the same time for approximately 5 seconds. In response to this, operators acknowledged the condition and entered Technical Specification (TS) action statement 3.4.3, then promptly exited this action statement when the inner airlock door was closed.

This event has been documented in the plant's corrective action program as CR 2014-007802 and IR 01700957.

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

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

D. DATES AND APPROXIMATE TIMES OF MAJOR OCCURRENCES:

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

<u>August 13</u>

2318 Workers carded in D-052 (outer door)
2318 Secondary containment was breached when D-053 (inner door) was opened
D-053 (inner door) is shut
Entered TS action statement 3.4.3, Condition C and exited.

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NARRATIVE

E. OTHER SYSTEMS OR SECONDARY FUNCTIONS AFFECTED:

No other systems or secondary functions were affected beyond the systems discussed in Section I.B.

F. METHOD OF DISCOVERY:

This event was discovered by station personnel reporting the issue.

G. MAJOR OPERATOR ACTION:

NMP1 entered TS action statement 3.4.3, and exited it when the inner door was shut.

H. SAFETY SYSTEM RESPONSES:

The duration of this event was approximately 5 seconds. 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:

The magnetic door lock system on the NMP1 airlock doors was bypassed defeating the system used to prevent simultaneous opening of both doors. The cause of the event is less than adequate physical barriers to prevent casual operation of the bypass pushbuttons. The location of the pushbuttons is close to the card reader and could have been interpreted as being necessary to push to activate the doors.

III. ANALYSIS OF THE EVENT:

The reportable condition associated with both reactor building airlock doors being open simultaneously represents a 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 have prevented the fulfillment of the safety function of structures or systems that are needed to control the release of radioactive material. Secondary Containment differential pressure was unaffected by this event.

The primary access to the NMP1 Reactor Building is through the airlock doors D-052 and D-053. In response to the event, the station entered the action statement for TS 3.4.3 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 Reactor Building Emergency Ventilation System availability were not impacted. 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.

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NARRATIVE

IV. CORRECTIVE ACTIONS:

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

The magnetic door closure mechanism override was reset.

B. ACTION TAKEN OR PLANNED TO PREVENT RECURRENCE:

The pushbutton covers will be sealed with closure devices to prevent inadvertent operation of the pushbuttons.

V. ADDITIONAL INFORMATION:

A. FAILED COMPONENTS:

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

B. PREVIOUS LERs ON SIMILAR EVENTS:

NMP2 LER 2014-007. On April 2, 2014, at approximately 0123 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, R261-1 and R261-2, simultaneously while passing through. The integrity of the airlock was re-established within 4 to 5 seconds when one of the doors was closed and latched. Secondary Containment differential pressure was unaffected by this event.

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

COMPONENT	IEEE 803 FUNCTION IDENTIFIER	IEEE 805 SYSTEM IDENTIFICATION
Reactor Building (BWR)	N/A	NG
Reactor Building Ventilation System	PDIC	VA
Airlock Door	DR	NG

D. SPECIAL COMMENTS:

None