



Monticello Nuclear Generating Plant  
2807 W County Road 75  
Monticello, MN 55362

May 23, 2014

L-MT-14-040  
10 CFR 50.73

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

Monticello Nuclear Generating Plant  
Docket 50-263  
Renewed Facility Operating License No. DPR-22

LER 2014-006 "Secondary Containment Doors Opened Simultaneously"

A Licensee Event Report (LER) for this occurrence is enclosed.

Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

A handwritten signature in black ink, appearing to read 'Karen D. Fili'.

Karen D. Fili  
Site Vice President, Monticello Nuclear Generating Plant  
Northern States Power Company-Minnesota

Enclosure

cc: Regional Administrator, Region III, USNRC  
Project Manager, Monticello Nuclear Generating Plant, USNRC  
Resident Inspector, Monticello Nuclear Generating Plant, USNRC



**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.

<b>1. FACILITY NAME</b> Monticello Nuclear Generating Plant	<b>2. DOCKET NUMBER</b> 05000-263	<b>3. PAGE</b> 1 OF 3
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**4. TITLE**  
Secondary Containment Doors Opened Simultaneously

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
03	28	2014	2014	006	00	5	23	2014		05000
									FACILITY NAME	DOCKET NUMBER
										05000

<b>9. OPERATING MODE</b>	<b>11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)</b>			
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)
<b>10. POWER LEVEL</b>  88.5%	<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 checked="" 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 Carrie Fosaaen, Licensing Engineer	TELEPHONE NUMBER (Include Area Code) 763-295-1357
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**13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT**

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX

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

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

On March 28, 2014, two secondary containment doors in the main access airlock were opened at the same time. With both doors open, Technical Specification Surveillance Requirement 3.6.4.1.3 was not met and secondary containment was declared inoperable. Interviews with individuals involved indicate the doors were open for approximately two seconds.

The cause was determined to be plant employees do not have secondary containment airlock training, and the airlock interlock did not have posted operating instructions.

Corrective actions include affixing permanent labels next to the interlock push button which provide instructions on how to appropriately open the doors. As an additional measure, plans are in place to replace the doors with doors that have windows. The need for training on proper airlock operation will also be evaluated for inclusion in general access training.



**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](mailto: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
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Monticello Nuclear Generating Plant	05000-263	2014	- 006	- 00	2 OF 3

**NARRATIVE**

**EVENT DESCRIPTION**

On March 28, 2014, the Monticello Nuclear Generating Plant (MNGP) was in Mode 1 at approximately 88.5% power. At approximately 1358 hours, plant personnel were passing through the main access secondary containment airlock [AL]. Personnel on opposite sides of the airlock entered the airlock simultaneously; both DOOR-62 [DR] and DOOR-63 [DR] opened. Personnel promptly closed the doors, restoring the secondary containment boundary, and notified the control room. Interviews with individuals involved indicate the doors were open for approximately two seconds.

To prevent a breach of secondary containment, each pair of doors is electrically interlocked so only one door may be open at a time. Permissive pushbuttons must be used to open airlock doors. The airlock also has a battery powered alarm system which will sound an alarm if both doors are open at the same time.

The two individuals inappropriately applied an opening force to the two secondary containment airlock doors prior to and while depressing the doors' interlock push buttons, defeating the interlock. The airlock interlock should be operated by first depressing the interlock push button, then applying opening force to the door. The interlock function was verified to be working properly via the Secondary Containment Door Interlock Check procedure following the event; there was no design deficiency or equipment issue.

Technical Specification (TS) Surveillance (SR) 3.6.4.1.3 was declared not met at 1358 due to both airlock doors being open, and the TS Action 3.6.4.1.A was entered. The TS Action was exited at approximately 1359 hours upon verification that at least one door was closed.

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

**EVENT ANALYSIS**

The event is reportable to the NRC under 10 CFR 50.73(a)(2)(v)(C) and (D) as an event or condition that could have prevented the fulfillment of a safety function. The plant reported the event to the NRC in Event Notification 49970 on March 28, 2014.

An engineering analysis determined that a safety system functional failure did not occur as defined in Nuclear Energy Institute (NEI) 99-02 Revision 7. The post-accident dose calculation does not credit secondary containment integrity for mitigation of off-site and control room doses for the first five minutes of the event. Therefore, this event is bounded by the existing post-accident dose calculation.

**SAFETY SIGNIFICANCE**

Secondary containment was inoperable as a result of SR 3.6.4.1.3 not met with both doors simultaneously open. However, secondary containment's safety function of minimizing off-site dose was maintained because the positive pressure period utilized in the dose calculations was not exceeded or compromised by the short-duration, simultaneous opening of the main access airlock doors.

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**NARRATIVE**

**CAUSE**

The cause was determined to be plant employees do not have secondary containment airlock training, and the airlock interlock did not have posted operating instructions.

**CORRECTIVE ACTION**

Corrective actions include affixing permanent labels next to the interlock push button which provide instructions on how to appropriately open the doors. As an additional measure, plans are in place to replace the doors with doors that have windows. The need for training on proper airlock operation will also be evaluated for inclusion in general access training.

**PREVIOUS SIMILAR EVENTS**

A Licensee Event Report (LER 2010-04) was submitted for the MNGP on December 22, 2010, for a similar occurrence with the same main access airlock doors. The cause of the occurrence was determined to be an intermittent failure of the magnetic bond sensor due to a lack of periodic maintenance. Corrective actions included replacement of the magnets on a periodic basis.

Other previous similar events with secondary containment doors open simultaneously have been reported to the NRC for the MNGP but involved airlocks of different designs (LER 2013-08-01, LER 2010-03-01, and LER 2010-02-02).