



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

May 19, 2014

L-MT-14-039
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 2014-005 "Appendix R Fire Door Failed to Latch"

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 cursive script, 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.

| | | |
|--|--------------------------------------|--------------------------|
| 1. FACILITY NAME Monticello Nuclear Generating Plant | 2. DOCKET NUMBER 05000-263 | 3. PAGE 1 OF 3 |
|--|--------------------------------------|--------------------------|

4. TITLE
Appendix R Fire Door Failed to Latch

| 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 | 20 | 2014 | 2014 | 005 | 00 | 05 | 19 | 2014 | | 05000 |
| | | | | | | | | | 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"/> 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 checked="" 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 93% | <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 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 Carrie Fosaaen, Licensing Engineer | TELEPHONE NUMBER (Include Area Code) 763-295-1357 |
|--|--|

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 |
|-------|--------|-----------|---------------|--------------------|-------|--------|-----------|---------------|--------------------|
| X | NH | DR | | N | | | | | |

| | | | | |
|--|-------------------------------------|-------|-----|------|
| 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 |
| | | | | |

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

On March 20, 2014, during performance of the semi-annual fire door inspection, an Appendix R fire door did not latch as required and divisional separation could not be assured in the event of a fire. A continuous fire watch was established within the required timeframe once the deficiency was discovered.

The cause of door-410B failure to close and latch during performance of the surveillance was determined to be insufficient closing force.

Immediate corrective actions were to repair door-410B by adjusting the door closer and lubrication of the door latch. The door was then satisfactorily tested and declared functional. Long term corrective actions include door closer force adjustments on a periodic basis.



**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 |
|-------------------------------------|-----------|---------------|-------------------|---------|---------|
| | | YEAR | SEQUENTIAL NUMBER | REV NO. | |
| Monticello Nuclear Generating Plant | 05000-263 | 2014 | - 005 | - 00 | 2 OF 3 |
| | | | | | |

NARRATIVE

EVENT DESCRIPTION

On March 20, 2014, the Monticello Nuclear Generating Plant was in Mode 1 at approximately 93% power. At 1020 hours, during performance of the semi-annual fire door inspection, door-410B [DR] did not automatically close and latch as required, as a result of insufficient closing force. Door-410B is an Appendix R fire door that is required for divisional separation of safe shutdown equipment, specifically reactor level instrumentation. In this condition, divisional separation could not be assured in the event of a fire. A continuous fire watch was established and repairs were made.

At approximately 1135 hours, door-410B repair was completed by lubrication of the door latch and adjusting the door closer. The door was then satisfactorily tested and declared functional. Therefore, the door was non-functional for approximately 1 hour and 15 minutes.

There were no other structures, systems, or components inoperable at the start of the event that contributed to the event. Door-410B also has a High Energy Line Break function which is to remain open; this function was not compromised during this event.

EVENT ANALYSIS

The condition is reportable to the NRC in accordance with 10 CFR 50.73(a)(2)(ii)(B) for placing the plant in an unanalyzed condition that significantly degrades plant safety. The condition was reported to the NRC on March 20, 2014, in event notification 49938 in accordance with 10 CFR 50.72(b)(3)(ii)(B).

SAFETY SIGNIFICANCE

The Appendix R specified function for door-410B is to close and latch during a fire event to provide divisional separation. Door-410B is normally open and is designed to close in the event of a fire to create a fire barrier between the east and west side of the reactor building. The door was satisfactorily tested during the previous semi-annual fire door inspection on September 18, 2013.

Since the last successful testing of the door's closing function, the fire detection systems and manual suppression capability for the impacted fire zones have been functional with no fire impairments issued. The fire detection system alarms in the Main Control Room which would result in prompt fire brigade response and fire extinguishment. Manual suppression capability consists of fire hose stations and extinguishers.

CAUSE

The cause of door-410B failure to close and latch during performance of the surveillance was determined to be insufficient closing force.

**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

| 1. FACILITY NAME | 2. DOCKET | 6. LER NUMBER | | | 3. PAGE |
|-------------------------------------|-----------|---------------|-------------------|---------|---------|
| Monticello Nuclear Generating Plant | 05000-263 | YEAR | SEQUENTIAL NUMBER | REV NO. | 3 OF 3 |
| | | 2014 | - 005 | - 00 | |

NARRATIVE

CORRECTIVE ACTION

Immediate corrective actions were to repair door-410B by adjusting the door closer and lubrication of the door latch. The door was then satisfactorily tested and declared functional. Long term corrective actions include door closer force adjustments on a periodic basis.

PREVIOUS SIMILAR EVENTS

There were no previous similar licensee event reports in the past three years. On March 22, 2010, door-410B did not automatically latch during performance of fire door inspections and was declared non-functional. The door closer was adjusted and the door was returned to functional status.

ADDITIONAL INFORMATION

Door manufacturer: WM. J. Perkinson Co., INC