



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

June 30, 2020

Mr. Thomas Conboy
Site Vice President
Monticello Nuclear Generating Plant
Northern States Power Company, Minnesota
2807 West County Road 75
Monticello, MN 55362-9637

SUBJECT: MONTICELLO NUCLEAR GENERATING PLANT – LICENSE RENEWAL
PHASE IV REPORT 05000263/2020014

Dear Mr. Conboy:

On June 10, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Monticello Nuclear Generating Plant and discussed the results of this inspection with Ms. M. Kelly, Director of Site Performance and Support and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Ann Marie J. Stone, Chief
Engineering Branch 1
Division of Reactor Safety

Docket No. 05000263
License No. DPR-22

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Thomas Conboy from Ann Marie J. Stone dated June 30, 2020.

SUBJECT: MONTICELLO NUCLEAR GENERATING PLANT – LICENSE RENEWAL
PHASE IV REPORT 05000263/2020014

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| DATE | 6/18/2020 | 6/30/2020 | | | |

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Number: 05000263

License Number: DPR-22

Report Number: 05000263/2020014

Enterprise Identifier: I-2020-014-0002

Licensee: Northern States Power Company, Minnesota

Facility: Monticello Nuclear Generating Plant

Location: Monticello, MN

Inspection Dates: June 01, 2020 to June 10, 2020

Inspectors: J. Corujo-Sandin, Reactor Inspector
G. O'Dwyer, Reactor Engineer
J. Park, Reactor Inspector

Approved By: Ann Marie J. Stone, Chief
Engineering Branch 1
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a License Renewal Phase IV at Monticello Nuclear Generating Plant, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), regional inspectors were directed to begin telework. For the inspection documented below, it was determined that the objectives and requirements stated in the IP could be performed remotely.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

71003 - Post-Approval Site Inspection for License Renewal

The team conducted this Phase IV license renewal inspection remotely. The team selected Aging Management Programs (AMPs) for evaluation considering risk insights and programs that were enhanced or new under the renewed operating license. The team also considered for selection those programs with monitoring results that were performed for the first time or those that identified examination or test results not experienced in the past. For the AMPs selected, the team reviewed records and interviewed plant staff to evaluate whether AMP elements were being implemented involving program scope, preventive actions, parameters monitored or inspected, detection of aging effects, monitoring and trending, acceptance criteria, corrective actions, confirmation process, administrative controls, and operating experience.

The following aging management programs were evaluated by the team:

Post-Approval Site Inspection for License Renewal (6 Samples)

- (1) EWI-11.01.11; Fuel Oil Chemistry
- (2) EWI-11.01.14; Buried Piping & Tanks Inspection
- (3) EWI-11.01.19; Compressed Air Monitoring
- (4) EWI-11.01.31; Protective Coating Monitoring & Maintenance Program
- (5) EWI-11.01.33; Bolting Integrity
- (6) EWI-11.01.35; Selective Leaching of Materials

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On June 10, 2020, the inspectors presented the License Renewal Phase IV results to Ms. M. Kelly, Director of Site Performance and Support and other members of the licensee staff.
- On June 10, 2020, the inspectors presented the Technical Debrief inspection results to Mr. J. Madden, Engineering Manager and other members of the licensee staff.

DOCUMENTS REVIEWED

| Inspection Procedure | Type | Designation | Description or Title | Revision or Date |
|----------------------|-----------------------------|---------------------------|---|------------------|
| 71003 | Corrective Action Documents | 01226439 | Corrosion Discovered on Removed Fire Protection Valve | 06/28/2010 |
| | | 01228174 | FP-13, License Renewal, Evidence of Selective Leaching | 11/08/2010 |
| | | 01232662 | Add Note to MMP-008 to Clarify Requirements for Thread Lubrication | 05/23/2020 |
| | | 01249063 | Selective Leaching Identified on FP-7-2 Valve | 09/09/2010 |
| | | 01254764 | Selective Leaching Identified on FP-199 | 10/19/2010 |
| | | 01356511 | Selective Leaching Long Term Management Strategy | 10/25/2012 |
| | | 01449311 | Selective Leaching: Program Not Updated for New Strategy | 10/03/2014 |
| | | 01475664 | Torus Internal Coating Flaking Noted During 1132 | 04/22/2015 |
| | | 01475667 | Torus Internal Corrosion Noted During 1132 | 04/22/2015 |
| | | 01477384 | Numerous Small Areas of PCT Coatings Failed Acceptance Criteria | 05/28/2015 |
| | | 01558080 | Numerous Small Areas of PCT Coatings Failed Acceptance Criteria | 05/05/2017 |
| | | 501000002818 | 1R XFMR - Moisture Found in 13.8KV Bus | 09/22/2017 |
| | | 501000002848 | 1R XFMR - Enclosed Buses Need Sealing | 09/20/2017 |
| | | 501000012494 | PM 4159 Air Leaks Identified | 05/25/2018 |
| | | 501000026573 | 4159-PM -3 Air Leaks Identified in the Drywell and 1 Minor Air Leak in Steam Chase | 04/30/2019 |
| | | 501000026876 | Small Areas of Unsat PCT Coating | 05/04/2019 |
| | | 501000028542 | 1362 Air Quality Test for IA System under WO 700042064 Single Benign Particle Detected | 06/14/2019 |
| | | 501000032327 | LR FSA AMP Ownership Needs Improvement | 09/26/2019 |
| | | 501000032338 | LR FSA: AMP Documents Outdated/Incorrect | 09/26/2019 |
| | | 501000032354 | LR FSA: Sel. Leaching Strategy Unclear | 09/26/2019 |
| | | 501000032360 | LR FSA: Bus Duct Inspection Criteria | 09/26/2019 |
| | | 501000032360 | LR FSA- Bus Duct Procedures Correct but USAR Not Updated | 10/31/2019 |
| | | 501000036476 | Bolting AMP OE Review | 01/13/2020 |
| | | 501000036529 | GAP Review for EWI-11.01.33 vs GALL 2 | 01/15/2020 |
| | | 501000038263-20200421-000 | USAR-K Update Needed for ASME XI ISI Programs | 03/01/2020 |

| Inspection Procedure | Type | Designation | Description or Title | Revision or Date |
|----------------------|---|--------------------|--|------------------|
| | | 501000038783 | App J AMP Doc Issue | 03/13/2020 |
| | | 501000039741 | Unable to Find Form 3839 Records | 04/16/2020 |
| | | 501000039871 | SL AMP Procedures - Add Ductile Iron | 04/20/2020 |
| | | 501000039968 | 1362 Air Quality Test for 17 AC Detected 10 Particles Greater than 40 Microns | 04/23/2020 |
| | Corrective Action Documents Resulting from Inspection | 501000039970 | 2020 LR NRC Insp: LR-ISG-2012-02 OEE | 04/22/2020 |
| | | 501000040540 | 2020 LR NRC Insp: AMP Doc PM Lists | 05/12/2020 |
| | | 501000041198 | 2020 LR NRC Insp: Buried Pipe AMP PM | 06/02/2020 |
| | | 501000041227 | 2020 LR NRC Insp: Response >24 hrs | 06/03/2020 |
| | | 501000041258 | 2020 LR NRC Insp: USAR-K SL Outdated | 06/03/2020 |
| | | 501000041281 | 2020 LR NRC Insp: SL Valve Strategy | 06/03/2020 |
| | | 501000041300 | 2020 LR NRC Insp: SL Inspection Doc | 06/03/2020 |
| | | 501000041300 | 2020 LR NRC Insp: SL Inspection Doc | 06/03/2020 |
| | | 501000041303 | 2020 LR NRC Insp: Duct Iron SL Insp Proc | 06/04/2020 |
| | | 501000041313 | 2020 LR NRC Inspection: EWI-11.01.33 Should Be Enhanced to Clarify Molybdenum Disulfide (MoS ₂) SHALL NOT Be Used on Bolts in Scope of Bolting Integrity Program | 06/04/2020 |
| | | 501000041313 | 2020 LR NRC Insp: EWI-11.01.33 MoS ₂ Enh | 06/04/2020 |
| | | 501000041316 | 2020 LR NRC Insp: EWI-11.01.31 Enh | 06/04/2020 |
| | | 501000041342 | 2020 LR NRC Insp: Inadequate CAP Closure | 06/05/2020 |
| | | 501000041351 | Gap in RM Process for Lost Records | 06/05/2020 |
| | | 501000041384 | 2020 LR NRC Insp Questioned EWI-11.01.19 Pump Casing Requirement | 06/08/2020 |
| | | 501000041463 | 2020 LR NRC Insp: Coatings Observation | 06/11/2020 |
| | Miscellaneous | OE 600000676449 | Fermi Power Plant, Unit 2 - Special Inspection Reactive Report 05000341/2019050 | 05/01/2020 |
| | | OE 610000000867 | EPRI Selective Leaching State of the Art Technical Update (3002016057) | 03/25/2020 |
| | | OE 610000000879 | NUREG-2191 Vol 2, Generic Aging Lessons Learned for Subsequent License Renewal (GALL-SLR) Report, Section XI.M33 Selective Leaching | 05/12/2020 |
| | Procedures | 0140 | Drywell Interior Surface Inspection | 25 |
| | | 0268 | Fire Protection System Flow Test | 24 |

| Inspection Procedure | Type | Designation | Description or Title | Revision or Date |
|----------------------|------------------|--------------------------------------|---|------------------|
| | | 4 AWI-08.11.03 | Nuclear Coatings Program | 16 |
| | | 4108-01-PM | Emergency Diesel Generator 6 Year Maintenance | 36 |
| | | EWI-08.26.02 | Selective Leaching Inspection Process | 2 |
| | | EWI-11.01.01 | Bus Duct Inspection Program | 5 |
| | | EWI-11.01.11 | Fuel Oil Chemistry | 2 |
| | | EWI-11.01.14 | Buried Piping & Tanks Inspection | 2 |
| | | EWI-11.01.19 | Compressed Air Monitoring | 2 |
| | | EWI-11.01.31 | Protective Coating Monitoring & Maintenance Program | 4 |
| | | EWI-11.01.33 | Bolting Integrity | 1 |
| | | EWI-11.01.35 | Selective Leaching of Materials | 0 |
| | | FP-G-RM-01 | Quality Assurance Records Control | 32 |
| | | FP-G-RM-02 | Records Processing | 22 |
| | | FP-PE-RLP-01 | License Renewal Implementation | 9 |
| | | FP-PE-UPT-01 | Underground Piping and Tanks Integrity Program | 4 |
| | | FP-WM-PLA-01 | Work Order Planning Process | 37 |
| | | NSP-DOL-0598 | Diesel Fuel Oil Tank Inspection | 6 |
| | | NSP-DOL-0598 | Diesel Fuel Tank Inspection | 6 |
| | | PCR 602000015193- 20200420-000 | Procedure Change Request for EWI-11.01.33 Bolting Integrity | 03/09/2020 |
| | | PCR 602000015610 | Procedure Change Request for MMP-008, Bolting Practices | 3 |
| | | PCR 602000015610 | Procedure Change Request for MMP-008 | 2 |
| | | PEI-03.01.03 | Selective Leaching (Graphitic Corrosion) Inspection | 1 |
| | Self-Assessments | 01468275 | Audit Aging Management Programs | 03/02/2015 |
| | | 01533999 | Aging Management SSA in Prep for 2016 P&IR | 09/07/2016 |
| | | 6060000001098 | SnapShot Report, Perform AMP Effectiveness Reviews in Accordance with NEI 14-12 | 03/01/2020 |
| | | 6060000000952 | License Renewal Phase IV Self-Assessment Plan | 09/26/2020 |
| | Work Orders | 00453355 | CONST - T-44, Transfer Fuel to FRAC Tanks and Clean T-44 | 06/12/2013 |
| | | 00453355 | CONST - T-44, Transfer Fuel to Frac Tanks and Clean T-44 | 06/12/2013 |
| | | 00457542 | Perform Elec PM | 07/07/2013 |

| Inspection Procedure | Type | Designation | Description or Title | Revision or Date |
|----------------------|------|----------------|---|------------------|
| | | 00487027 | OPS-FIR, 0268 3-Year Fire Protection System Flow Test | 12/01/2015 |
| | | 00532393 | EPRO - MRE, UPTI Inspection | 01/22/2018 |
| | | 00552645 | Const - T-45A, Clean and Inspect T-45A Day Tank | 01/19/2018 |
| | | 490719 | 0135 Torus Painted Surface Internal Insp. | 05/09/2015 |
| | | 490906 | 0140 Drywell Interior Surface Inspection | 05/09/2015 |
| | | 500121 | PM 4159 Leak Detection PM 3 ARs 5 WOs | 05/10/2016 |
| | | 533733 | 0140 Drywell Interior Surface Inspection | 05/10/2017 |
| | | 537441 | CPF: Hydrant FP-192 AND FP-27; Install New Valves | 04/22/2017 |
| | | 537441 | CPF: Hydrant FP-192 and FP-27, Install New Valves | 03/17/2017 |
| | | 700005790-0020 | Perform UT and Visual Inspection of Tank, Inspect LIS-7259 | 06/08/2017 |
| | | 700009412 | 12 EDG G-3B Electrical Control Panel Bolt Broken | 02/13/2019 |
| | | 700013462 | Performed PM 4858-59 for 1R XFMR X03 | 10/26/2017 |
| | | 700017270 | Walk Down Found No Problems in Air and AN2 Systems within LR Scope | 04/14/2019 |
| | | 700020823 | 0140 Drywell Interior Surface Inspection | 05/10/2019 |
| | | 700023986 | PM 4159 Leak Reduced to Less than Champagne Bubbles | 05/29/2018 |
| | | 700031848 | PM 4954 Air Dryers Leak Shows Elbow Needs to Be Replaced QIM 501000016607 Written | 09/07/2018 |
| | | 700047082 | Walked Down Found No Problems in Air and AN2 Systems within LR Scope | 12/13/2019 |
| | | 700058662 | PM 4953 Compressors Results All SAT | 01/28/2020 |
| | | 700059432 | 1362 Test All Results SAT | 09/10/2019 |
| | | 700062663 | 1362 Test All Results Were SAT | 03/13/2020 |
| | | 700067605 | Graphitic Corrosion Inspection Results Form 3839 | 01/08/2020 |
| | | QF0571 | Troubleshooting Plan for QIM 501000039968 10 Particles Greater than 40 Microns | 04/23/2020 |