



**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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**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

## **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
		50100002818	1R XFMR - Moisture Found in 13.8KV Bus	09/22/2017
		50100002848	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 EW1-11.01.33 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 (MoS2) SHALL NOT Be Used on Bolts in Scope of Bolting Integrity Program	06/04/2020
		501000041313	2020 LR NRC Insp: EWI-11.01.33 MoS2 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