



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

August 24, 2021

Mr. Christopher P. Domingos
Site Vice President
Prairie Island Nuclear Generating Plant
Northern States Power Company, Minnesota
1717 Wakonade Drive East
Welch, MN 55089-9642

SUBJECT: PRAIRIE ISLAND NUCLEAR GENERATING PLANT – EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000282/2021501 AND 05000306/2021501

Dear Mr. Domingos:

On August 5, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Prairie Island Nuclear Generating Plant and discussed the results of this inspection with you 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,

A handwritten signature in cursive script that reads "Patricia J. Pelke".

Signed by Pelke, Patricia
on 08/24/21

Patricia J. Pelke, Chief
Operations Branch
Division of Reactor Safety

Docket Nos. 05000282 and 05000306
License Nos. DPR-42 and DPR-60

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Christopher P. Domingos from Patricia J. Pelke dated August 24, 2021.

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PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000282/2021501 AND 05000306/2021501

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 05000282 and 05000306

License Numbers: DPR-42 and DPR-60

Report Numbers: 05000282/2021501 and 05000306/2021501

Enterprise Identifier: I-2021-501-0021

Licensee: Northern States Power Company, Minnesota

Facility: Prairie Island Nuclear Generating Plant

Location: Welch, MN

Inspection Dates: August 02, 2021 to August 05, 2021

Inspectors: S. Forster, Health Physicist
G. Hansen, Senior Emergency Preparedness Inspector
C. Norton, Senior Resident Inspector
K. Pusateri, Resident Inspector

Approved By: Patricia J. Pelke, Chief
Operations Branch
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise inspection at Prairie Island 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, observed activities, 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), inspectors were directed to begin telework. In addition, regional baseline inspections were evaluated to determine if all or a portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

REACTOR SAFETY

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.11) (1 Sample)

- (1) The inspectors evaluated the Biennial Emergency Plan Exercise on August 3, 2021. The exercise scenario simulated an event at the Prairie Island Nuclear Generating Plant that initiated with the declaration and notification of a Site Area Emergency due to the potential loss of 2 fission product barriers, specifically the fuel clad barrier and reactor cooling system barrier. The Site Area Emergency, which was the highest classification level reached during the exercise, was communicated to the required state and local government agencies.

71114.08 - Exercise Evaluation Scenario Review

Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on July 2, 2021.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

EP01: Drill/Exercise Performance (DEP) Sample (IP Section 02.12) (1 Sample)

- (1) Unit 1 - October 01, 2020 through March 31, 2021
Unit 2 - October 01, 2020 through March 31, 2021

EP02: Emergency Response Organization (ERO) Drill Participation (IP Section 02.13)
(1 Sample)

- (1) Unit 1 - October 01, 2020 through March 31, 2021
- Unit 2 - October 01, 2020 through March 31, 2021

EP03: Alert and Notification System (ANS) Reliability Sample (IP Section 02.14) (1 Sample)

- (1) Unit 1 - October 01, 2020 through March 31, 2021
- Unit 2 - October 01, 2020 through March 31, 2021

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On August 5, 2021, the inspectors presented the emergency preparedness biennial exercise inspection results to Christopher P. Domingos, Site Vice President and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Corrective Action Documents	QIM 0501000053187	During EP Drill the Dose Projections Software Error Resulted in Program Having to Be Re-Started Several Times	06/15/2021
		QIM 0501000053189	During the EP Drill - Trending of Simulated Rad Monitor Data in ERCS Was Unsuccessful	06/15/2021
		QIM 0501000053216	During the EP Drill on 6/15/2021 It Was Noted as an Improvement Item During the Critique that Familiarization Training in regards to KI Directions on Distribution Process	06/15/2021
		QIM 0501000053219	During the EP Drill It Was Noted that Several Business LAN Computers Could Not Generate ERCS Data Trends (Graphs)	06/15/2021
		QIM 0501000053288	The Demonstration Criteria 4.01.1 (The Appropriate EAL Threshold Associated with a Parameter or Symptom Was Recognized) Was Rated as Weak and the Overall Objective 4.01 Was Rated as Needs Improvement	06/21/2021
		QIM 501000029669	Numerous Pagers Did Not Work During the 7/19/2019 EP Drill	07/17/2019
		QIM 501000029685	Multiple Computers in the OSC Found to Be Missing ERCS	07/19/2019
		QIM 501000029691	7/17/19 ERO Drill Short Range Pagers Did Not Activate for All ERO Personnel in the OSC	07/17/2019
		QIM 501000029700	During the 7/17/19 EP Drill Critique an Enhancement Was Noted for Communication Between the TSC and EOF	07/19/2019
		QIM 501000042191	EP Drills Scheduled with DEP Opportunities Have Had Some or All the Opportunities Cancelled Because a Participant Wasn't Available	07/08/2020
		QIM 501000043375	During the Simulator Session for DEP, Offsite Notification Emails Were Delayed	08/20/2020
		QIM 501000046174	EP Conducted a Medical Drill at PINGP on 11/5/2020 and a Communications Enhancement Was Noted	11/05/2020
		Miscellaneous		Drill Critique Reports
	Procedures		Prairie Island Nuclear Generating Plant Emergency Plan	58

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		F3-1	Onsite Emergency Organization	28
		F3-10	Personnel Accountability	27
		F3-2	Classification of Emergencies	50
		F3-4	Responsibilities During an Alert, Site Area Emergency, or General Emergency	43
		F3-5	Emergency Notifications	34
		F3-6	Activation and Operation of Technical Support Center	29
		F3-7	Activation and Operation of Operational Support Center	26
		F3-8	Recommendations for Offsite Protective Actions	41
		F3-9	Emergency Evacuation	30
		PINGP 1576	Emergency Action Level Matrix	11
71114.08	Miscellaneous		2021 Prairie Island Nuclear Generating Plant, Units 1 and 2, Exercise Scenario 60-day NRC Submittal	06/04/2021
71151	Miscellaneous		NRC Performance Indicator Data, Emergency Preparedness – Alert and Notification System Reliability	10/01/2020 - 03/31/2021
			NRC Performance Indicator Data, Emergency Preparedness – Drill/Exercise Performance	10/01/2020 - 03/31/2021
			NRC Performance Indicator Data, Emergency Preparedness – ERO Drill Participation	10/01/2020 - 03/31/2021