



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

August 22, 2022

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 05000282/2022501 AND 05000306/2022501

Dear Mr. Domingos:

On August 4, 2022, 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 dark ink, appearing to read "Patricia J. Pelke".

Signed by Pelke, Patricia
on 08/22/22

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 22, 2022.

SUBJECT: PRAIRIE ISLAND NUCLEAR GENERATING PLANT – EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION
REPORT 05000282/2022501 AND 05000306/2022501

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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: 05000282/2022501 and 05000306/2022501

Enterprise Identifier: I-2022-501-0009

Licensee: Northern States Power Company, Minnesota

Facility: Prairie Island Nuclear Generating Plant

Location: Welch, MN

Inspection Dates: August 01, 2022 to August 04, 2022

Inspectors: E. Fernandez, Reactor Inspector
G. Hansen, Senior Emergency Preparedness Inspector
R. Ng, Project Engineer
P. Zurawski, Senior 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.

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 2, 2022. The exercise scenario simulated an event at the Prairie Island Nuclear Generating Plant that initiated with the declaration and notification of an Alert in response to AC power to both Safeguards Buses 15 and 16 being reduced to a single power source for 15 minutes or longer. The scenario conditions simulated the escalation of the significance of the event, requiring the declaration of a Site Area Emergency, and then a General Emergency, as well as the development of Protective Action Recommendations that were 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 the biennial emergency plan exercise on June 29, 2022.

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) July 1, 2021 through April 30, 2022

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

- (1) July 1, 2021 through April 30, 2022

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

(1) July 1, 2021 through April 30, 2022

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 4, 2022, the inspectors presented the emergency preparedness biennial exercise inspection results to Christopher Domingos 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 501000064087	EP Drill - Missing Info in PINGP 911	06/01/2022
		QIM 501000064089	EP Drill - Emergency Action Level Poster	06/21/2022
		QIM 501000064104	EP Drill - Emergency Team Status Board	06/21/2022
		QIM 501000064121	EP Drill - TSC Coordinator Location	06/21/2022
		QIM 501000064131	EP Drill - EOF Telephone Headset Mic	06/24/2022
		QIM 501000064133	EP Drill- Consequences of Invite Only	06/21/2022
		QIM 501000064139	EP Drill	06/22/2022
		QIM 501000064145	ERO Drill - Initial Control Room Classification	06/24/2022
	Miscellaneous		2022 Prairie Island Evaluated Exercise Performance Summary - PowerPoint Presentation	08/04/2022
	Procedures		Prairie Island Nuclear Generating Plant Emergency Plan	58
		1ECA-0.0	Loss of All Safeguards AC Power	30
		1FR-P.1	Response to Imminent Pressurized Thermal Shock Condition	14
		F3-10	Personnel Accountability	28
		F3-13	Offsite Dose Calculation	19
		F3-14.1	Onsite Radiological Monitoring	16
		F3-17	Core Damage Assessment	17
		F3-2	Classification of Emergencies	50
		F3-2.1	Emergency Action Level Technical Bases	15
		F3-4	Responsibilities During an Alert, Site Area Emergency, or General Emergency	43
		F3-5	Emergency Notifications	36
		F3-6	Activation and Operation of Technical Support Center	29
		F3-7	Activation and Operation of Operational Support Center	26

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		F3-8	Recommendations for Offsite Protective Actions	41
		F3-9	Emergency Evacuation	30
		F8-3	Activation and Operation of the EOF	18
		PINGP 1576	Emergency Action Level Matrix	11
71114.08	Miscellaneous		Prairie Island Nuclear Generating Plant (PINGP) Emergency Plan 2022 Exercise Scenario	06/02/2022
71151	Miscellaneous		NRC Performance Indicator Data, Emergency Preparedness – Alert and Notification System Reliability	07/01/2021 - 03/31/2022
			NRC Performance Indicator Data, Emergency Preparedness – Drill/Exercise Performance	07/01/2021 - 03/31/2022
			NRC Performance Indicator Data, Emergency Preparedness – ERO Drill Participation	07/01/2021 - 03/31/2022