



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

October 6, 2021

Mr. Joel P. Gebbie
Senior VP and Chief Nuclear Officer
Indiana Michigan Power Company
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106

SUBJECT: DONALD C. COOK NUCLEAR PLANT – EMERGENCY PREPAREDNESS
BIENNIAL EXERCISE INSPECTION REPORT 05000315/2021501 AND
05000316/2021501

Dear Mr. Gebbie:

On September 23, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Donald C. Cook Nuclear 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 10/06/21

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

Docket Nos. 05000315 and 05000316
License Nos. DPR-58 and DPR-74

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Joel P. Gebbie from Patricia J. Pelke dated October 6, 2021.

SUBJECT: DONALD C. COOK NUCLEAR PLANT – EMERGENCY PREPAREDNESS
BIENNIAL EXERCISE INSPECTION REPORT 05000315/2021501 AND
05000316/2021501

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

Docket Numbers: 05000315 and 05000316

License Numbers: DPR-58 and DPR-74

Report Numbers: 05000315/2021501 and 05000316/2021501

Enterprise Identifier: I-2021-501-0019

Licensee: Indiana Michigan Power Company

Facility: Donald C. Cook Nuclear Plant

Location: Bridgman, MI

Inspection Dates: September 20, 2021 to September 23, 2021

Inspectors: M. Garza, Emergency Preparedness Inspector
G. Hansen, Senior Emergency Preparedness Inspector
J. Nance, Operations Engineer
F. Tran, Health Physicist

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 Donald C. Cook Nuclear 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 September 21, 2021. The exercise scenario simulated an event at the Donald C. Cook Nuclear Power Plant that initiated with the declaration and notification of a Site Area Emergency due to the potential loss of two fission product barriers, specifically the potential loss of fuel clad and the reactor coolant system. The scenario conditions simulated the escalation of the significance of the event, requiring the declaration of 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 August 18, 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 - July 01, 2020 through June 30, 2021
- Unit 2 - July 01, 2020 through June 30, 2021

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

- (1) Unit 1 - July 01, 2020 through June 30, 2021
- Unit 2 - July 01, 2020 through June 30, 2021

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

- (1) Unit 1 - July 01, 2020 through June 30, 2021
- Unit 2 - July 01, 2020 through June 30, 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 September 23, 2021, the inspectors presented the emergency preparedness biennial exercise inspection results to Joel P. Gebbie and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Miscellaneous		Emergency Preparedness Focused Area Drill and Exercise Reports	09/01/2019-09/20/2021
			PowerPoint Presentation: Donald C. Cook 2021 Biennial Exercise Critique	09/23/2021
	Procedures	CEP	D. C. Cook Nuclear Plant Emergency Plan	46
		EPAM-2080-601	State of Michigan Notification Job Aid	3
		PMP-2080-EPP-100	Emergency Response	41
		PMP-2080-EPP-101	Emergency Classification	27
		PMP-2080-EPP-108	Initial Dose Assessment	18
		RMT-2080-ENC-001	Activation and Operation of the ENC	1
		RMT-2080-EOF-001	Activation and Operation of the EOF	38
		RMT-2080-FRM-005	Accountability	0
		RMT-2080-FRM-006	Protective Action Recommendations	1
		RMT-2080-FRM-013	Instructions for Administration of KI	0
		RMT-2080-OSC-001	Activation and Operation of the OSC	24
		RMT-2080-TSC-001	Activation and Operation of the TSC	28
71114.08	Miscellaneous		2021 D. C. Cook Emergency Plan Exercise Scenario	07/22/2021
71151	Miscellaneous		Alert Notification System (ANS) Reliability Performance Indicator Records	07/01/2020-06/30/2021
			ERO Drill Participation Performance Indicator Records	07/01/2020-06/30/2021
			Drill and Exercise Participation (DEP) Performance Indicator	07/01/2020-

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Records	06/30/2021