



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

June 21, 2023

Q. Shane Lies  
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 05000315/2023501 AND  
05000316/2023501

Dear Q. Shane Lies:

On May 18, 2023, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Donald C. Cook Nuclear Plant and discussed the results of this inspection with Scott Dailey, Plant Manager, 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 black ink, appearing to be "S. Orth".

Signed by Orth, Steven  
on 06/21/23

Steven K. Orth, Chief  
Security, Emergency Preparedness & Incident  
Response Branch  
Division of Radiological Safety and Security

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

Enclosure:  
As stated

cc: Distribution via LISTSERV®

Letter to Q. Shane Lies from Steven Orth date June 21, 2023.

SUBJECT: DONALD C. COOK NUCLEAR PLANT – EMERGENCY PREPAREDNESS  
BIENNIAL EXERCISE INSPECTION REPORT 05000315/2023501 AND  
05000316/2023501

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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: 05000315/2023501 and 05000316/2023501

Enterprise Identifier: I-2023-501-0005

Licensee: Indiana Michigan Power Company

Facility: Donald C. Cook Nuclear Plant

Location: Bridgman, Michigan

Inspection Dates: May 15, 2023 to May 18, 2023

Inspectors: E. Fernandez, Senior Reactor Inspector  
G. Hansen, Sr. Emergency Preparedness Inspector  
J. Kutlesa, Emergency Preparedness Inspector  
R. Ng, Senior Project Engineer

Approved By: Steven K. Orth, Chief  
Security, Emergency Preparedness & Incident  
Response Branch  
Division of Radiological Safety and Security

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.

## **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 May 16, 2023. The exercise scenario simulated an event at the D. C. Cook Nuclear Power Plant that initiated with the declaration and notification of an Unusual Event in response to Control Room personnel feeling an actual or potential seismic event that was confirmed through site seismic monitor indications. 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 biennial emergency plan exercise on April 13, 2023.

## **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) January 1, 2022 through December 31, 2022

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

- (1) January 1, 2022 through December 31, 2022

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

- (1) The site is in compliance with ANS performance indicator reporting requirements. The site's primary ANS is the Integrated Public Alert Warning System (IPAWS), therefore, for the period of this inspection, no siren performance testing data was available or required. In accordance with EPFAQ 21-03, Revision 1, "Reporting ANS Data Following a Transition to IPAWS," the performance of the licensee's ANS is evaluated during the site's emergency preparedness program inspection using NRC Inspection Procedure 71114 Attachment 2 and is documented in the associated inspection report.

**INSPECTION RESULTS**

No findings were identified.

**EXIT MEETINGS AND DEBRIEFS**

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

- On May 18, 2023, the inspectors presented the emergency preparedness biennial exercise inspection results to Scott Dailey, Plant Manager, and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71114.01	Corrective Action Documents	AR 2021-7359	EOF Activation Time During Drill Exceeded CEP Requirements	08/26/2021	
		AR 2021-7366	EMD-032A inaccuracies	08/26/2021	
		AR 2021-7754	Validate Dose Assessment Results from ERO Drill	09/14/2021	
		AR 2021-7972	KI Authorization Form Not Completed During Drill	09/23/2021	
		AR 2021-9078	PA and OCANS Announcement Late or Not Performed During Drill	11/04/2021	
		AR 2021-9081	EOF Full Staffing Level Not Met within 1 HR. Expectation	11/03/2021	
		AR 2022-0327	EOF Full Staffing Level Not Met within 1 HR. Expectation	01/12/2022	
		AR 2022-0343	Back-Up Method Required to Notify MSP During ERO Drill	01/12/2022	
		AR 2022-0529	ERO Drill: Low-Level Issue Failure to Critique	01/19/2022	
		AR 2022-1178	EMD-032 Forms Transmit Slowly Via Mail Through Vaporstream	02/10/2022	
		AR 2022-5468	Partial Failure of EMD-032A Message Transmission	06/29/2022	
		AR 2022-6770	Prioritizing ERO Issues	08/24/2022	
		AR 2022-6771	Weaknesses in KI documentation and Distribution	08/24/2022	
		AR 2022-6867	NRC Red Phone Does Not Work	08/29/2022	
		AR 2023-0298	Command and Control During Beyond-Design-Basis Event	01/11/2023	
	Miscellaneous			Donald C. Cook Nuclear Plant Emergency Plan	47
				Donald C. Cook Nuclear Plant Units 1 and 2 Emergency Plan Evaluated Exercise Scenario	03/09/2023
		PMP-2080-EPP-100		Emergency Response	44
		PMP-2080-EPP-101		Emergency Classification	29
	Procedures	PMP-2080-EPP-108		Initial Dose Assessment	18
		PMP-2081-EPP-105		Core Damage Assessment	9
		RMT-2080-ENC-001		Activation and Operation of the ENC-JIC	2
		RMT-2080-EOF-		Activation and Operation of the EOF	38

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		001		
		RMT-2080-FRM-005	Accountability	1
		RMT-2080-FRM-006	Protective Action Recommendations	2
		RMT-2080-FRM-013	Instructions for Administration of KI	0
		RMT-2080-OSC-001	Activation and Operation of the OSC	25
		RMT-2080-TSC-001	Activation and Operation of TSC	28
71151	Miscellaneous		NRC Performance Indicator Data; Emergency Preparedness - ERO Drill Participation	01/01/2022 - 12/31/2022
			NRC Performance Indicator Data; Emergency Preparedness - Drill/Exercise Performance	01/01/2022 - 12/31/2022