



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 27, 2019

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 POWER PLANT, UNITS 1
AND 2—EMERGENCY PREPAREDNESS BIENNIAL EXERCISE
INSPECTION REPORT 05000315/2019501 AND 05000316/2019501

Dear Mr. Gebbie:

On August 29, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Donald C. Cook Nuclear Power Plant, Units 1 and 2, and discussed the results of this inspection with Mr. Shane Lies and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any findings or violations of more-than-minor significance.

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*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Robert J. Orlikowski, Chief
Operations Branch
Division of Reactor Safety

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

Enclosure:
As stated

cc: Distribution via LISTSERV®

Letter to Joel P. Gebbie from Robert J. Orlikowski dated September 27, 2019.

SUBJECT: DONALD C. COOK NUCLEAR POWER PLANT, UNITS 1
AND 2—EMERGENCY PREPAREDNESS BIENNIAL EXERCISE
INSPECTION REPORT 05000315/2019501 AND 05000316/2019501

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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: 05000315/2019501 and 05000316/2019501

Enterprise Identifier: I-2019-501-0018

Licensee: Indiana Michigan Power Company Nuclear Generation Group

Facility: Donald C. Cook Nuclear Power Plant, Units 1 and 2

Location: Bridgman, MI

Inspection Dates: August 26, 2019, to August 29, 2019

Inspectors: B. Bergeon, Operations Engineer
M. Garza, Emergency Preparedness Inspector
G. Hansen, Senior Emergency Preparedness Inspector
D. Krause, Resident Inspector

Approved By: Robert J. Orlikowski, 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 Power Plant, Units 1 and 2 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 27, 2019. The exercise scenario simulated an event at the Donald C. Cook Nuclear Power Plant that initiated with the declaration and notification of an Alert in response to the loss of AC power capability that resulted in the emergency 416 KV buses being powered by a single source. 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 July 25, 2019.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee Performance Indicators submittals listed below:

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

- (1) Third Quarter of 2018 - Second Quarter of 2019

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

- (1) Third Quarter of 2018 - Second Quarter of 2019

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

(1) Third Quarter of 2018 - Second Quarter of 2019

INSPECTION RESULTS

No findings or violations were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On August 29, 2019, the inspectors presented the Emergency Preparedness Biennial Exercise inspection results to Mr. Shane Lies, 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 2018-1774	KI Form Wording	
		AR 2018-7253	Radio Communications FMT & OSC Personnel	
		AR 2018-7277	DAP Notification Form Output	
		AR 2018-7286	Performance Issue: RCS Leak Isolation	
		AR 2018-7311	Recurring ERO Communication Deficiencies	
		AR 2018-8817	Failed Notification DEP	
		AR 2018-9502	Add to RMT-2080-EPP-500 for Call-in Drills	
		AR 2019-1200	ED Terminal at OSC not on Network	
		AR 2019-1746	ERO Drill Critique Process	
		AR 2019-5808	Process for Table Top Drills	
	Corrective Action Documents Resulting from Inspection	AR 2019-8261	Annual Siren Test Documentation	
	Miscellaneous		2017 NRC Graded Exercise Evaluation Report	06/23/2017
			2018 Off-Year Exercise Report	10/23/2018
			Emergency Preparedness Focused Area Drill and Exercise Reports	August 2017 - August 2019
			PowerPoint Presentation: Donald C. Cook 2019 Biennial Exercise Critique	08/29/2019
	Procedures	CEP	D. C. Cook Nuclear Plant Emergency Plan	42
		EPAM-2080-601	State of Michigan Notification Job Aid	3
		PMP-2080-EPP-100	Emergency Response	38
		PMP-2080-EPP-101	Emergency Classification	23
		PMP-2080-EPP-108	Initial Dose Assessment	15
		RMT-2080-EOF-001	Activation and Operation of the EOF	37
		RMT-2080-FRM-	Activation of ERONS	1

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		002		
		RMT-2080-FRM-005	Accountability	0
		RMT-2080-FRM-006	Protective Action Recommendations	1
		RMT-2080-OSC-001	Activation and Operation of the OSC	23
		RMT-2080-TSC-001	Activation and Operation of the TSC	27
71114.08	Miscellaneous		2019 D. C. Cook Evaluated Exercise Scenario Manual	06/26/19
71151	Miscellaneous		Alert Notification System (ANS) Reliability Performance Indicator Records	Third Quarter 2018 - Second Quarter 2019
			ERO Drill Participation Performance Indicator Records	Third Quarter 2018 - Second Quarter 2019
	Procedures		Drill and Exercise Participation (DEP) Performance Indicator Summary Forms	Third Quarter 2018 - Second Quarter 2019