



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

March 4, 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: ANNUAL ASSESSMENT LETTER FOR DONALD C. COOK NUCLEAR PLANT,
UNITS 1 AND 2 (REPORT 05000315/2020006 AND 05000316/2020006)**

Dear Mr. Gebbie:

The NRC has completed its end-of-cycle performance assessment of Donald C. Cook Nuclear Plant, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2020 through December 31, 2020. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety. The baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at Donald C. Cook Nuclear Plant, Units 1 and 2, during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2022. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, how best to perform on-site portions to minimize personnel health risks, and adjust inspection schedules if needed. This is done in accordance with guidance contained in the

February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions" (ML21027A274). For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

The NRC plans to perform Inspection Procedure 71003, "Post-Approval Site Inspection For License Renewal," at your facility. Additionally, during this period, the NRC will perform inspections per Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 630-829-9739 with any questions you have regarding this letter.

Sincerely,

/RA/

Néstor J. Félix Adorno, Chief
Branch 4
Division of Reactor Projects

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

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Joel Gebbie from Néstor Félix Adorno dated March 4, 2021.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 (REPORT 05000315/2020006 AND 05000316/2020006)

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IP 22 Inspection Activity Plan Report

D.C. Cook

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
1st Quarter Integrated Inspection						2
1, 2	01/01/2021	03/31/2021	IP 71111.01	000691	Adverse Weather Protection	
1, 2	01/01/2021	03/31/2021	IP 71111.04	001634	Equipment Alignment	
1, 2	01/01/2021	03/31/2021	IP 71111.05	001635	Fire Protection	
1, 2	01/01/2021	03/31/2021	IP 71111.06	000698	Flood Protection Measures	
1, 2	01/01/2021	03/31/2021	IP 71111.07A	000699	Heat Sink Performance	
1, 2	01/01/2021	03/31/2021	IP 71111.11Q	000705	Licensed Operator Requalification Program and Licensed Operator Performance	
1, 2	01/01/2021	03/31/2021	IP 71111.12	000706	Maintenance Effectiveness	
1, 2	01/01/2021	03/31/2021	IP 71111.13	000707	Maintenance Risk Assessments and Emergent Work Control	
1, 2	01/01/2021	03/31/2021	IP 71111.15	000708	Operability Determinations and Functionality Assessments	
1, 2	01/01/2021	03/31/2021	IP 71111.18	000710	Plant Modifications	
1, 2	01/01/2021	03/31/2021	IP 71111.19	000711	Post-Maintenance Testing	
1, 2	01/01/2021	03/31/2021	IP 71111.20	000712	Refueling and Other Outage Activities	
1, 2	01/01/2021	03/31/2021	IP 71111.22	000715	Surveillance Testing	
1, 2	01/01/2021	03/31/2021	IP 71114.06	000721	Drill Evaluation	
1, 2	01/01/2021	03/31/2021	IP 71151	000746	Performance Indicator Verification	
1, 2	01/01/2021	03/31/2021	IP 71152	000748	Problem Identification and Resolution	
1, 2	01/01/2021	03/31/2021	IP 71153	000749	Followup of Events and Notices of Enforcement Discretion	
Radiation Protection Baseline Inspection						1
1, 2	01/11/2021	01/16/2021	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
Security Baseline Inspection						1
1, 2	03/08/2021	03/12/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	07/19/2021	07/23/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	08/09/2021	08/13/2021	IP 71130.01	000733	Access Authorization	
1, 2	08/09/2021	08/13/2021	IP 71130.02	000734	Access Control	
1, 2	08/09/2021	08/13/2021	IP 71151	001338	Performance Indicator Verification	
1, 2	08/30/2021	09/03/2021	IP 71130.07	000739	Security Training	
1, 2	08/30/2021	09/03/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	08/30/2021	09/03/2021	IP 71130.14	000743	Review of Power Reactor Target Sets	
Inservice Inspection D.C. Cook Unit 2						1
2	04/04/2021	05/08/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

D.C. Cook

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
Radiation Protection Baseline Inspection						1
1, 2	04/26/2021	04/30/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/26/2021	04/30/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
Radiation Protection Baseline Inspection						1
1, 2	05/24/2021	05/28/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	05/24/2021	05/28/2021	IP 71151	000746	Performance Indicator Verification	
Cyber Security Inspection						4
1, 2	06/07/2021	06/25/2021	IP 71130.10P	000741	Cyber Security	
Radiation Protection Baseline Inspection						1
1, 2	07/19/2021	07/23/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	07/19/2021	07/23/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	07/19/2021	07/23/2021	IP 71151	000746	Performance Indicator Verification	
Biennial Problem Identification and Resolution Inspection						4
1, 2	07/19/2021	08/06/2021	IP 71152B	000747	Problem Identification and Resolution	
OPC Temporary Instruction 2515/194						1
1, 2	07/26/2021	07/30/2021	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
Emergency Preparedness Exercise Inspection / Performance Indicator Verification						4
1, 2	09/20/2021	09/24/2021	IP 71114.07	000722	Exercise Evaluation - Hostile Action (HA) Event	
1, 2	09/20/2021	09/24/2021	IP 71151	001397	Performance Indicator Verification	
Triennial MC&A Inspection						1
1, 2	01/01/2022	12/31/2022	IP 71130.11	000742	Material Control and Accounting (MC&A)	
Triennial Fire Protection						3
1, 2	01/10/2022	01/28/2022	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
DC Cook 2022 Biennial Licensed Operator Requalification Program Inspection						2
1, 2	03/13/2022	03/19/2022	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	

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IP 22 Inspection Activity Plan Report

D.C. Cook

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
Inservice Inspection D.C. Cook Unit 1						1
1	04/18/2022	05/06/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Radiation Protection Baseline						1
1, 2	04/18/2022	04/22/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/18/2022	04/22/2022	IP 71151	000746	Performance Indicator Verification	
Emergency Preparedness Baseline Inspection / Performance Indicator Verification						1
1, 2	05/02/2022	05/06/2022	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	05/02/2022	05/06/2022	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	05/02/2022	05/06/2022	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	05/02/2022	05/06/2022	IP 71151	001397	Performance Indicator Verification	
DC Cook July 2022 Initial License Exam						5
1, 2	06/12/2022	06/18/2022	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	07/17/2022	07/23/2022	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
1, 2	07/24/2022	07/30/2022	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
Security Baseline Inspection						1
1, 2	06/20/2022	06/24/2022	IP 71130.02	000734	Access Control	
1, 2	06/20/2022	06/24/2022	IP 71151	001338	Performance Indicator Verification	
1, 2	07/11/2022	07/15/2022	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	10/03/2022	12/31/2022	IP 71130.09	001656	Security Plan Changes	
Design Bases Assurance Inspection - Team						6
1, 2	06/27/2022	07/15/2022	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - DC						6
1, 2	07/25/2022	07/29/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	08/15/2022	08/19/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
Radiation Protection Baseline						1
1, 2	08/01/2022	08/05/2022	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	08/01/2022	08/05/2022	IP 71151	000746	Performance Indicator Verification	
Inservice Inspection D.C. Cook Unit 2						1
2	10/17/2022	11/04/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	

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D.C. Cook

01/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
Radiation Protection Baseline						1
1, 2	10/17/2022	10/21/2022	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
1, 2	10/17/2022	10/21/2022	IP 71151	000746	Performance Indicator Verification	