



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

March 2, 2018

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 POWER
PLANT, UNITS 1 AND 2 (REPORT 05000315/2017006; 05000316/2017006)**

Dear Mr. Gebbie:

The NRC has completed its end-of-cycle performance assessment of the Donald C. Cook Nuclear Power Plant, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017 through December 31, 2017. 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 NRC determined the performance at the Donald C. Cook Nuclear Power 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, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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.

This letter and its enclosure 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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Please contact Kenneth Riemer at 630-829-9628 with any questions you have regarding this letter.

Sincerely,

/RA/

Kenneth Riemer, Chief
Branch 2
Division of Reactor Projects

Docket Nos. 50-315; 50-316
License Nos. DPR-58; DPR-74

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Joel P. Gebbie from Kenneth Riemer dated March 2, 2018

SUBJECT: ANNUAL ASSESSMENT LETTER FOR DONALD C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2 (REPORT 05000315/2017006; 05000316/2017006)

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IP 22 Inspection Activity Plan Report

D.C. Cook

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
INSERVICE INSPECTION ON UNIT 2						1
2	03/05/2018	04/27/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
EP BASELINE INSPECTION / PI VERIFICATION						1
1, 2	03/12/2018	03/16/2018	IP 71151	001397	Performance Indicator Verification	
1, 2	05/21/2018	05/25/2018	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	05/21/2018	05/25/2018	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	05/21/2018	05/25/2018	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	05/21/2018	05/25/2018	IP 71151	001397	Performance Indicator Verification	
RADIATION PROTECTION BASELINE INSPECTION						2
1, 2	03/19/2018	03/23/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/19/2018	03/23/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/19/2018	03/23/2018	IP 71151	000746	Performance Indicator Verification	
1, 2	05/07/2018	05/11/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/07/2018	05/11/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
SECURITY BASELINE INSPECTION						1
1, 2	04/09/2018	04/27/2018	IP 81311	000831	Physical Security Requirements for Independent Spent Fuel Storage Installations	
1, 2	10/15/2018	10/19/2018	IP 71130.02	000734	Access Control	
1, 2	10/15/2018	10/19/2018	IP 71151	001338	Performance Indicator Verification	
ISFSI Security Inspection						2
1	04/23/2018	04/27/2018	IP 81311	001006	Physical Security Requirements for Independent Spent Fuel Storage Installations	
RADIATION PROTECTION BASELINE INSPECTION						2
1, 2	06/18/2018	06/22/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/18/2018	06/22/2018	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	06/18/2018	06/22/2018	IP 71151	000746	Performance Indicator Verification	
DBA TEAM INSPECTION						6
1, 2	06/25/2018	07/13/2018	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
INITIAL PREP JULY 2018						5
1, 2	06/25/2018	06/29/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	

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

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
ISFSI Cask Loading Inspection						2
1, 2	07/23/2018	07/27/2018	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
INITIAL EXAM JULY 2018						6
1	07/23/2018	08/03/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
SECURITY BASELINE INSPECTION						1
1, 2	08/13/2018	08/17/2018	IP 71130.01	000733	Access Authorization	
1, 2	08/13/2018	08/17/2018	IP 71130.14	000743	Review of Power Reactor Target Sets	
SECURITY BASELINE INSPECTION						1
1, 2	08/20/2018	08/24/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
RADIATION PROTECTION BASELINE INSPECTION						1
1, 2	09/17/2018	09/21/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
INSERVICE INSPECTION UNIT 1						1
1	03/06/2019	06/10/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RADIATION PROTECTION BASELINE INSPECTION						1
1, 2	03/18/2019	03/22/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
RADIATION PROTECTION BASELINE INSPECTION						1
1, 2	04/08/2019	04/12/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/08/2019	04/12/2019	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	04/08/2019	04/12/2019	IP 71151	000746	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						1
1, 2	05/20/2019	05/24/2019	IP 71130.02	000734	Access Control	
1, 2	05/20/2019	05/24/2019	IP 71130.06	000738	Protection of Safeguards Information	
EP EXERCISE INSPECTION / PI VERIFICATION						2
1, 2	06/03/2019	06/07/2019	IP 71114.01	000716	Exercise Evaluation	
1, 2	06/03/2019	06/07/2019	IP 71114.06	000721	Drill Evaluation	
1, 2	06/03/2019	06/07/2019	IP 71151	001397	Performance Indicator Verification	

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IP 22 Inspection Activity Plan Report

D.C. Cook

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
RADIATION PROTECTION BASELINE INSPECTION						1
1, 2	06/03/2019	06/07/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	06/03/2019	06/07/2019	IP 71151	000746	Performance Indicator Verification	
BIENNIAL PI&R INSPECTION						5
1, 2	07/15/2019	08/02/2019	IP 71152B	000747	Problem Identification and Resolution	
RADIATION PROTECTION BASELINE INSPECTION						1
1, 2	08/05/2019	08/09/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	08/05/2019	08/09/2019	IP 71151	000746	Performance Indicator Verification	
TRIENNIAL FIRE PROTECTION INSPECTION						3
1	08/26/2019	09/27/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
SECURITY BASELINE INSPECTION						1
1, 2	09/09/2019	09/13/2019	IP 71130.07	000739	Security Training	
1, 2	09/09/2019	09/13/2019	IP 71151	001338	Performance Indicator Verification	
FORCE-ON-FORCE PLANNING AND EXERCISES						8
1, 2	10/28/2019	11/01/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	11/18/2019	11/22/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	