



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

August 31, 2016

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

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR DONALD C. COOK NUCLEAR
POWER PLANT, UNITS 1 AND 2 (REPORT 05000315/2016005;
05000316/2016005)**

Dear Mr. Gebbie:

On August 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Donald C. Cook Nuclear Power Plant, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2015 through June 30, 2016. 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 determined that overall, Donald C. Cook Nuclear Power Plant, Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Donald C. Cook Nuclear Power Plant, Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, 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 June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

The NRC staff completed Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans" at Donald C. Cook Nuclear Power Plant, Units 1 and 2 on May 12, 2016, to confirm full implementation of orders

J. Gebbie

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Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The results of the inspection can be found in Inspection Report 05000315/2016007; 05000316/2016007.

From July 1, 2015, to June 30, 2016, the NRC issued three Severity Level IV traditional enforcement violations associated with impeding the regulatory process. Therefore, the NRC will conduct Inspection Procedure 92723, "Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period" to follow-up on these violations. This inspection will be scheduled during 2016.

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessment meetings and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

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 630-829-9628 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®

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Letter to Joel Gebbie from Kenneth Riemer dated August 31, 2016

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POWER PLANT, UNITS 1 AND 2 (REPORT 05000315/2016005;
05000316/2016005)

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D.C. Cook
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			ENG BI - TRIENNIAL FIRE PROTECTION INSPECTION		3
1, 2	08/01/2016	09/02/2016	IP 7111105T	Fire Protection [Triennial]	
			ENG LR - LICENSE RENEWAL U2 71003 INSPECTION		2
2	10/11/2016	10/14/2016	IP 71003	Post-Approval Site Inspection for License Renewal	
			ENG BI - INSERVICE INSPECTION ON UNIT 2		1
2	10/03/2016	11/11/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	10/17/2016	10/21/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/17/2016	10/21/2016	IP 71124.02	Occupational ALARA Planning and Controls	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	03/27/2017	03/31/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			BI MODS - TRIENNIAL MODIFICATIONS/50.59 INSPECTION		3
1, 2	03/27/2017	04/14/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			BI EP - EP EXERCISE INSPECTION / PI VERIFICATION		2
1, 2	05/22/2017	05/26/2017	IP 7111401	Exercise Evaluation	
1, 2	05/22/2017	05/26/2017	IP 7111406	Drill Evaluation	
1, 2	05/22/2017	05/26/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	05/22/2017	05/26/2017	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	06/12/2017	06/16/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	06/12/2017	06/16/2017	IP 71124.04	Occupational Dose Assessment	
1	06/12/2017	06/16/2017	IP 71151	Performance Indicator Verification	
			BI HS - TRIENNIAL HEAT SINK INSPECTION		2
1, 2	06/19/2017	06/23/2017	IP 7111107T	Heat Sink Performance	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	07/10/2017	07/14/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	07/10/2017	07/14/2017	IP 71151	Performance Indicator Verification	
			BI PI&R - BIENNIAL PI&R INSPECTION		4
1, 2	07/10/2017	07/28/2017	IP 71152B	Problem Identification and Resolution	
			ENG BI - INSERVICE INSPECTION UNIT 1		1
1	09/20/2017	10/29/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			ENG LR - LICENSE RENEWAL U2 71003 INSPECTION		4
2	10/03/2017	10/14/2017	IP 71003	Post-Approval Site Inspection for License Renewal	

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

D.C. Cook
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	10/16/2017	10/20/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/16/2017	10/20/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/16/2017	10/20/2017	IP 71151	Performance Indicator Verification	
			BI ENG - COMPONENT DESIGN BASES INSPECTION PILOT		8
1,2	03/05/2018	04/02/2018	IP 7111121	Component Design Bases Inspection	
			BI EP - EP BASELINE INSPECTION / PI VERIFICATION		1
1,2	03/12/2018	03/16/2018	IP 7111402	Alert and Notification System Testing	
1,2	03/12/2018	03/16/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	03/12/2018	03/16/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	03/12/2018	03/16/2018	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	03/26/2018	03/30/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	05/21/2018	05/25/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/21/2018	05/25/2018	IP 71124.02	Occupational ALARA Planning and Controls	
			ISFSI - ISFSI INSPECTION		1
1,2	06/01/2018	09/01/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	06/18/2018	06/22/2018	IP 71124.07	Radiological Environmental Monitoring Program	

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