



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2015

Mr. Larry Weber
Senior Vice President 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 05000315/2014001 AND
05000316/2014001)**

Dear Mr. Weber:

On February 11, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-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 January 1, 2014 through December 31, 2014. 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 both Donald C. Cook Nuclear Power Plant Units 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, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-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.

L. Weber

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In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management 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:
D.C. Cook Nuclear Power Station
Inspection/Activity Plan

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L. Weber

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D.C. Cook
Inspection / Activity Plan
 03/01/2015 - 06/30/2016

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI ISI - UNIT 2 ISI INSPECTION		1
2	03/25/2015	04/25/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	04/06/2015	04/10/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/06/2015	04/10/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	05/18/2015	05/22/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/18/2015	05/22/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	05/18/2015	05/22/2015	IP 71151	Performance Indicator Verification	
			ISFSI - ISFSI INSPECTION		2
1, 2	06/01/2015	06/30/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			LIC REN - U1 LICENSE RENEWAL 71003 PHASE 3		1
1	06/08/2015	06/12/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
			BI ENG - COMPONENT DESIGN BASES INSPECTION		7
1, 2	11/02/2015	12/04/2015	IP 7111121	Component Design Bases Inspection	
			BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION		1
1	10/26/2015	10/30/2015	IP 71151	Performance Indicator Verification	
			PI&R - BIENNIAL PI&R INSPECTION		4
1, 2	09/14/2015	10/02/2015	IP 71152B	Problem Identification and Resolution	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	10/05/2015	10/09/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/05/2015	10/09/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			ENG BI - TRIENNIAL FIRE PROTECTION INSPECTION		3
1, 2	03/14/2016	04/15/2016	IP 7111105T	Fire Protection [Triennial]	
			ENG BI - INSERVICE INSPECTION ON UNIT 1		1
1	03/22/2016	04/17/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			ENG LR - LICENSE RENEWAL U2 71003 INSPECTION		6
1, 2	04/01/2016	04/22/2016	IP 71003	Post-Approval Site Inspection for License Renewal	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	04/11/2016	04/15/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	04/11/2016	04/15/2016	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	06/20/2016	06/24/2016	IP 71124.07	Radiological Environmental Monitoring Program	

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