



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 2, 2014

Mr. Larry Weber  
Senior Vice President 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**

Dear Mr. Weber:

On August 5, 2014, 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, 2013 through June 30, 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 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.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. 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 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.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of 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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**D.C. Cook**  
**Inspection / Activity Plan**  
**09/01/2014 - 12/31/2015**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>BI ISI - INSERVICE INSPECTION - UNIT 1</b>		<b>4</b>
2	09/30/2014	10/24/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/06/2014	10/10/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/06/2014	10/10/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	11/03/2014	11/07/2014	IP 71124.07	Radiological Environmental Monitoring Program	
1	11/03/2014	11/07/2014	IP 71151-BI01		
1	11/03/2014	11/07/2014	IP 71151-OR01		
1	11/03/2014	11/07/2014	IP 71151-PR01		
			<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
1	01/26/2015	01/30/2015	IP 7111107T	Heat Sink Performance	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	02/02/2015	02/06/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>BI ISI - UNIT 2 ISI INSPECTION</b>		<b>1</b>
2	03/25/2015	04/25/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
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	
			<b>ISFSI - ISFSI INSPECTION</b>		<b>2</b>
1, 2	06/01/2015	06/30/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	07/13/2015	07/17/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	07/13/2015	07/17/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	07/13/2015	07/17/2015	IP 71151-BI01		
1	07/13/2015	07/17/2015	IP 71151-OR01		
1	07/13/2015	07/17/2015	IP 71151-PR01		
			<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
1	10/26/2015	10/30/2015	IP 71151	Performance Indicator Verification	
			<b>PI&amp;R - BIENNIAL PROBLEM ID AND RESOLUTION</b>		<b>4</b>
1, 2	09/14/2015	10/02/2015	IP 71152B	Problem Identification and Resolution	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/05/2015	10/09/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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

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			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/05/2015	10/09/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI ENG - COMPONENT DESIGN BASIS INSPECTION</b>		<b>6</b>
1, 2	11/02/2015	12/04/2015	IP 7111121	Component Design Bases Inspection	

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