



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2013

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 D.C. COOK NUCLEAR POWER PLANT,  
UNITS 1 AND 2, (REPORT 05000315/2012001 AND 05000316/2012001)

Dear Mr. Weber:

On February 13, 2013, the NRC completed its end-of-cycle performance review of D.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, 2012, through December 31, 2012. 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, D.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 D.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 December 31, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 12 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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We also plan on conducting temporary instructions (TIs) and special and infrequently performed Inspection Procedures (IPs) which include: TI 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground piping and Tanks" and IP 71003, "Post-Approval Site Inspection for License Renewal."

In accordance with 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 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 630-829-9619 with any questions you have regarding this letter.

Sincerely,

*/RA/*

John B. Giessner, Chief  
Branch 4  
Division of Reactor Projects

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

Enclosure: D.C. Cook Inspection/Activity Plan

cc w/encl: Distribution via ListServ

L. Weber

-2-

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DATE	02/21/13		02/21/12				

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Letter to L. Weber from J. Giessner dated March 4, 2013.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR D.C. COOK NUCLEAR POWER  
PLANT, UNITS 1 AND 2, (REPORT 05000315/2012001 AND  
05000316/2012001)

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**D.C. Cook**  
**Inspection / Activity Plan**  
**03/01/2013 - 12/31/2014**

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/04/2013 03/08/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/04/2013 03/08/2013	IP 71124.04	Occupational Dose Assessment	
		<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
1	06/03/2013 06/07/2013	IP 71151	Performance Indicator Verification	
		<b>RENEWAL - LICENSE RENEWAL INSPECTION-71003 PHASE 1</b>		<b>3</b>
1	03/25/2013 04/26/2013	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI ISI - INSERVICE INSPECTION - UNIT 1</b>		<b>1</b>
1	03/25/2013 04/28/2013	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/08/2013 04/12/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/08/2013 04/12/2013	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI FIRE - FIRE PROTECTION INSPECTION &amp; BAG TRIP</b>		<b>5</b>
1	05/27/2013 06/28/2013	IP 7111105T	Fire Protection [Triennial]	
		<b>TI 182 - BURIED PIPING TI 182</b>		<b>1</b>
1	07/08/2013 07/12/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTIO</b>		<b>1</b>
1	07/15/2013 07/19/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>5</b>
1, 2	08/26/2013 09/13/2013	IP 71152B	Problem Identification and Resolution	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	08/12/2013 08/16/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	08/12/2013 08/16/2013	IP 71124.07	Radiological Environmental Monitoring Program	
1	08/12/2013 08/16/2013	IP 71151-BI01	Reactor Coolant System Activity	
1	08/12/2013 08/16/2013	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	08/12/2013 08/16/2013	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI ISI - INSERVICE INSPECTION - UNIT 2</b>		<b>4</b>
2	10/07/2013 10/25/2013	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/07/2013 10/11/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/07/2013 10/11/2013	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	01/06/2014 01/10/2014	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.

**D.C. Cook**  
**Inspection / Activity Plan**  
**03/01/2013 - 12/31/2014**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
1, 2	02/10/2014	02/14/2014	IP 7111111B	Licensed Operator Requalification Program	
			<b>BI MODS - MODIFICATIONS/50.59 INSPECTION</b>		<b>3</b>
1, 2	03/03/2014	03/21/2014	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/10/2014	03/14/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>RENEWAL - LICENSE RENEWAL U1</b>		<b>6</b>
1	04/28/2014	05/16/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	05/05/2014	05/09/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
1	06/23/2014	06/27/2014	IP 7111402	Alert and Notification System Testing	
1	06/23/2014	06/27/2014	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	06/23/2014	06/27/2014	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	06/23/2014	06/27/2014	IP 71151	Performance Indicator Verification	
			<b>OL PREP - INITIAL EXAM - 08/2014</b>		<b>3</b>
1	06/30/2014	07/03/2014	W90305	OL - INITIAL EXAM - 2014 APR/DEC - COOK	
			<b>OL EXAM - INIT EXAM FOR 07/2014</b>		<b>3</b>
1	07/21/2014	08/01/2014	W90305	OL - INITIAL EXAM - 2014 APR/DEC - COOK	
			<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	Reactor Coolant System Activity	
1	11/03/2014	11/07/2014	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/03/2014	11/07/2014	IP 71151-PR01	RETS/ODCM Radiological Effluent	

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