



**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

-2-

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-

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

DOCUMENT NAME: G:\DRPIII\Branch TSS\ALL EOC\EOC CY 2013 (Issued 2013) Letters\DC Cook EOC 2012 Letter Combined.docx

Publicly Available Non-Publicly Available Sensitive Non-Sensitive

To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII	RIII			
NAME	SShah:ntp	JGiessner			
DATE	02/21/13	02/21/12			

OFFICIAL RECORD COPY

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)

DISTRIBUTION:

John Cassidy

RidsNrrDorLpl3-1 Resource

RidsNrrPMDCCook Resource

RidsNrrDirslrib Resource

Chuck Casto

Cynthia Pederson

Steven Orth

Allan Barker

Christine Lipa

Carole Ariano

Linda Linn

DRPIII

DRSIII

Tammy Tomczak

ROPassessment.Resource@nrc.gov

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			
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	
			BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION		2
1	06/03/2013	06/07/2013	IP 71151	Performance Indicator Verification	
			RENEWAL - LICENSE RENEWAL INSPECTION-71003 PHASE 1		3
1	03/25/2013	04/26/2013	IP 71003	Post-Approval Site Inspection for License Renewal	
			BI ISI - INSERVICE INSPECTION - UNIT 1		1
1	03/25/2013	04/28/2013	IP 7111108P	Inservice Inspection Activities - PWR	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	
			BI FIRE - FIRE PROTECTION INSPECTION & BAG TRIP		5
1	05/27/2013	06/28/2013	IP 7111105T	Fire Protection [Triennial]	
			TI 182 - BURIED PIPING TI 182		1
1	07/08/2013	07/12/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
1	07/15/2013	07/19/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			BI PI&R - BIENNIAL PI&R INSPECTION		5
1, 2	08/26/2013	09/13/2013	IP 71152B	Problem Identification and Resolution	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	
			BI ISI - INSERVICE INSPECTION - UNIT 2		4
2	10/07/2013	10/25/2013	IP 7111108P	Inservice Inspection Activities - PWR	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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			
			BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION		2
1, 2	02/10/2014	02/14/2014	IP 711111B	Licensed Operator Requalification Program	
			BI MODS - MODIFICATIONS/50.59 INSPECTION		3
1, 2	03/03/2014	03/21/2014	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	03/10/2014	03/14/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			RENEWAL - LICENSE RENEWAL U1		6
1	04/28/2014	05/16/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	05/05/2014	05/09/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION		2
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	
			OL PREP - INITIAL EXAM - 08/2014		3
1	06/30/2014	07/03/2014	W90305	OL - INITIAL EXAM - 2014 APR/DEC - COOK	
			OL EXAM - INIT EXAM FOR 07/2014		3
1	07/21/2014	08/01/2014	W90305	OL - INITIAL EXAM - 2014 APR/DEC - COOK	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	

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