



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 5, 2012

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 05000315/2011007
AND 05000316/2011007)**

Dear Mr. Weber:

On February 15, 2012, the NRC staff 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 for the period from January 1, 2011, through December 31, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

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 June 30, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 9 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.

L. Weber

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We also plan on conducting several special and infrequently performed Inspection Procedures (IPs) which include: IP 60854.1, "Preoperational Testing of Independent Spent Fuel Storage Installation (ISFSIs) at Operating Plants;" IP 60855.1, "Operation of an ISFSI at Operating Plants;" IP 60856.1, "Review of 10 CFR 72.212(b) Evaluations at Operating Plants;" and IP 92709, "Licensee Strike Contingency Plans."

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (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 630-829-9619 with any questions you may 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

D.C. Cook
Inspection / Activity Plan
01/01/2012 - 06/30/2013

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT		2
01/01/2012	05/31/2012	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
01/01/2012	05/31/2012	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants	
02/01/2012	06/30/2012	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
		TI-177 - TI-2515/177 - GAS VOIDING IN ECCS PIPING		2
01/23/2012	02/10/2012	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION		1
02/13/2012	02/17/2012	IP 7111402	Alert and Notification System Testing	
02/13/2012	02/17/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
02/13/2012	02/17/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
02/13/2012	02/17/2012	IP 71151	Performance Indicator Verification	
		STRIKE - STRIKE CONTINGENCY - RP/EM/MM		2
02/16/2012	03/16/2012	IP 92709	Licensee Strike Contingency Plans	
		BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION		3
02/27/2012	03/02/2012	IP 7111111B	Licensed Operator Requalification Program	
		BI ISI - INSERVICE INSPECTION - UNIT 2		1
03/19/2012	04/27/2012	IP 7111108P	Inservice Inspection Activities - PWR	
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
03/26/2012	03/30/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
03/26/2012	03/30/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		TI-182 - TI-2515/182 PHASE I - BURIED PIPING		1
05/07/2012	05/09/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
		ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT		1
06/01/2012	11/30/2012	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		OL PREP - INITIAL EXAM PREP - JULY 2012		4
06/25/2012	06/29/2012	W90252	OL - INITIAL EXAM - 2012 JULY - COOK	
		BI CDBI - COMPONENT DESIIGN BASIS INSPECT & TI-177		4
07/23/2012	08/24/2012	IP 7111121	Component Design Bases Inspection	
		OL EXAM - INITIAL EXAMS - JULY 2012		4
07/23/2012	08/03/2012	W90252	OL - INITIAL EXAM - 2012 JULY - COOK	
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
08/06/2012	08/10/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
08/06/2012	08/10/2012	IP 71124.02	Occupational ALARA Planning and Controls	

D.C. Cook
Inspection / Activity Plan
01/01/2012 - 06/30/2013

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
08/06/2012	08/10/2012	IP 71151-BI01	Reactor Coolant System Activity	
08/06/2012	08/10/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
08/06/2012	08/10/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
09/10/2012	09/14/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		BI HS - TRIENNIAL HEAT SINK INSPECTION		2
11/26/2012	11/30/2012	IP 7111107T	Heat Sink Performance	
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
12/10/2012	12/14/2012	IP 71124.05	Radiation Monitoring Instrumentation	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
02/04/2013	02/08/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
02/04/2013	02/08/2013	IP 71124.04	Occupational Dose Assessment	
		BI OLRQ - REQUALIFICATION PROGRAM INSPECTION		1
02/25/2013	03/01/2013	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
		BI ISI - INSERVICE INSPECTION - UNIT 1		1
03/27/2013	04/28/2013	IP 7111108P	Inservice Inspection Activities - PWR	
		RENEWAL - LICENSE RENEWAL INSPECTION-71003 PHASE 1		2
03/27/2013	04/28/2013	IP 71003	Post-Approval Site Inspection for License Renewal	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
04/08/2013	04/12/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
04/08/2013	04/12/2013	IP 71124.02	Occupational ALARA Planning and Controls	
		BI FIRE - FIRE PROTECTION INSPECTION & BAG TRIP		3
05/27/2013	06/28/2013	IP 7111105T	Fire Protection [Triennial]	
		BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION		2
06/03/2013	06/07/2013	IP 7111401	Exercise Evaluation	
06/03/2013	06/07/2013	IP 71151	Performance Indicator Verification	

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Letter to L. Weber from J. Giessner dated March 5, 2012.

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