



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2011

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 LETTER FOR D. C. COOK NUCLEAR POWER PLANT,
UNITS 1 AND 2; 05000315/2011-006; 05000316/2011-006**

Dear Mr. Weber:

On August 10, 2011, the NRC staff completed its mid-cycle performance review of D. C. Cook Nuclear Power Plant, Units 1 and 2. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2010, through June 30, 2011. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Related Information" will include the Security Cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at D .C. Cook Nuclear Power Plant, Units 1 and 2, was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2012. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management

Guidelines (SAMGs)" at your facility. Results of these inspections can be found here <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 630-829-9833 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Jamnes L. Cameron, Chief
Branch 6
Division of Reactor Projects

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

Enclosure: D. C. Cook Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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Letter to L. Weber from J. Cameron dated September 1, 2011.

SUBJECT: MID-CYCLE LETTER FOR D. C. COOK NUCLEAR POWER PLANT,
UNITS 1 AND 2; 05000315/2011-006; 05000316/2011-006

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D.C. Cook
Inspection / Activity Plan
09/01/2011 - 12/31/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		ISFSI	- ISFSI INSPECT. - SCHEDULE DEPENDENT	3
09/01/2011	12/31/2011	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
09/01/2011	12/31/2011	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
		BI ISI	- INSERVICE INSPECTION - UNIT 1	2
09/21/2011	10/30/2011	IP 7111108P	Inservice Inspection Activities - PWR	
		BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1
10/03/2011	10/07/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/03/2011	10/07/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		ISFSI	- ISFSI INSPECTION - SCHEDULE DEPENDENT	2
01/01/2012	05/31/2012	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
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	
06/01/2012	11/30/2012	IP 60855.1	Operation of an Independent Spent Fuel Storage 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	
		STRIKE	- STRIKE CONTINGENCY - RP/MAINT	2
01/16/2012	02/16/2012	IP 92709	Licensee Strike Contingency Plans	
		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	
		BI OLRQ	- BIENNIAL REQUAL PROGRAM INSPECTION	2
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 71124.02	Occupational ALARA Planning and Controls	
03/26/2012	03/30/2012	IP 71151-BI01	Reactor Coolant System Activity	
		OL PREP	- INITIAL EXAM PREP - JULY 2012	3
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	

D.C. Cook
Inspection / Activity Plan
09/01/2011 - 12/31/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		OL EXAM - INITIAL EXAMS - JULY 2012		3
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 71151-OR01	Occupational Exposure Control Effectiveness	
		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	
09/10/2012	09/14/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
11/05/2012	11/09/2012	IP 71124.05	Radiation Monitoring Instrumentation	
		BI HS - TRIENNIAL HEAT SINK INSPECTION		3
11/26/2012	11/30/2012	IP 7111107T	Heat Sink Performance	