



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2010

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 PERFORMANCE REVIEW AND INSPECTION PLAN –
D. C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2**

Dear Mr. Weber:

On August 4, 2010, 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, 2009, through June 30, 2010. 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, 2011. 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 9 months of the inspection plan are tentative and may be revised at the end-of-cycle review.

L. Weber

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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

D.C. Cook
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		ISFSI - ISFSI INSPECTION		2
06/01/2010	11/30/2010	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
		BI ENG - COMPONENT DESIGN BASES INSPECTION		6
08/16/2010	09/17/2010	IP 7111121	Component Design Bases Inspection	
		BI EP - EP ROUTINE INSPECTION / PI VERIFICATION		2
09/13/2010	09/17/2010	IP 7111402	Alert and Notification System Testing	
09/13/2010	09/17/2010	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
09/13/2010	09/17/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
09/13/2010	09/17/2010	IP 71151-EP01	Drill/Exercise Performance	
09/13/2010	09/17/2010	IP 71151-EP02	ERO Drill Participation	
09/13/2010	09/17/2010	IP 71151-EP03	Alert & Notification System	
		BI ENG - INSERVICE INSPECTION - UNIT 1		1
10/04/2010	10/22/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
10/04/2010	10/22/2010	IP 7111108P	Inservice Inspection Activities - PWR	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
10/11/2010	10/15/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/11/2010	10/15/2010	IP 71124.02	Occupational ALARA Planning and Controls	
10/11/2010	10/15/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		BI EP - EP EXERCISE INSPECTION / PI VERIFICATION		3
02/28/2011	03/04/2011	IP 7111401	Exercise Evaluation	
02/28/2011	03/04/2011	IP 71151-EP01	Drill/Exercise Performance	
02/28/2011	03/04/2011	IP 71151-EP02	ERO Drill Participation	
02/28/2011	03/04/2011	IP 71151-EP03	Alert & Notification System	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
02/28/2011	03/04/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
02/28/2011	03/04/2011	IP 71124.04	Occupational Dose Assessment	
02/28/2011	03/04/2011	IP 71151	Performance Indicator Verification	
		BI ENG - MODIFICATIONS / 50.59 INSPECTION		3
03/21/2011	04/08/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
04/25/2011	04/29/2011	IP 71124.07	Radiological Environmental Monitoring Program	
04/25/2011	04/29/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		BI PI&R - BIENNIAL PI&R INSPECTION		3
05/02/2011	05/20/2011	IP 71152B	Identification and Resolution of Problems	

D.C. Cook
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
ISFSI - ISFSI INSPECT. - SCHEDULE DEPENDENT				
06/01/2011	11/30/2011	IP 60856	Review of 10 CFR 72.212(b) Evaluations	2
BI RP - RADIATION PROTECTION BASELINE INSPECTION				
06/20/2011	06/24/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	1
06/20/2011	06/24/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
06/20/2011	06/24/2011	IP 71124.02	Occupational ALARA Planning and Controls	
06/20/2011	06/24/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
BI ENG - INSERVICE INSPECTION - UNIT 1				
09/21/2011	10/30/2011	IP 7111108P	Inservice Inspection Activities - PWR	1

L. Weber

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Letter to L. Weber from J. Cameron dated September 1, 2010.

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D. C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2

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