



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 4, 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: ANNUAL ASSESSMENT LETTER FOR D. C. COOK NUCLEAR POWER
PLANT, UNITS 1 AND 2 (REPORT 05000315/2011001; 05000316/2011001)

Dear Mr. Weber:

On February 17, 2011, the NRC completed its end-of-cycle performance review of D. C. Cook Nuclear 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, 2010 through December 31, 2010. 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 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 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. In addition to the ROP baseline, inspections are planned for Temporary Instruction (TI) 2515/179, "Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS," TI 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," and also Independent Spent Fuel Storage Installation (ISFSI) Inspections 60854.1, "Preoperational Testing of ISFSIs at Operating Plants," 60855.1, "Operation of an ISFSI at Operating Plants," and 60856.1, "Review of 10 CFR 72.212(b) Evaluations at Operating Plants."

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. 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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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 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).

Please contact me at 630-829-9833 with any questions you have regarding this letter.

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 Plant Inspection/Activity Plan

cc w/encl: Distribution via ListServ

D.C. Cook
Inspection / Activity Plan
03/01/2011 - 06/30/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		ISFSI - ISFSI DESIGN AND CONSTRUCTION		1
01/20/2011	04/01/2011	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
		ISFSI - ISFSI INSPECT. - SCHEDULE DEPENDENT		4
02/01/2011	05/31/2011	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
05/01/2011	12/31/2011	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
		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	Performance Indicator Verification	
		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		5
05/02/2011	05/20/2011	IP 71152B	Identification and Resolution of Problems	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
06/20/2011	06/24/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
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		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	
06/01/2012	11/30/2012	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		STRIKE - STRIKE CONTINGENCY - RP/MAINT		2
01/16/2012	02/16/2012	IP 92709	Licensee Strike Contingency Plans	

D.C. Cook
Inspection / Activity Plan
03/01/2011 - 06/30/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI ENG - TRIENNIAL HEAT SINK INSPECTION		2
01/30/2012	02/03/2012	IP 7111107T	Heat Sink Performance	
		BI EP - EP ROUTINE INSPECTION / PI VERIFICATION		2
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 OL - BIENNIAL REQUAL PROGRAM INSPECTION		2
02/20/2012	02/24/2012	IP 7111111B	Licensed Operator Requalification Program	
		BI ENG - INSERVICE INSPECTION - UNIT 2		1
03/20/2012	04/28/2012	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 71151	Performance Indicator Verification	
		BI RP - RADIATION PROTECTION BASELINE INSPECTIO		1
05/14/2012	05/18/2012	IP 71124.05	Radiation Monitoring Instrumentation	

L. Weber

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cc w/encl: Distribution via ListServ

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Letter to L. Weber from J. Cameron dated March 4, 2011.

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