

March 2, 2006

Mr. M. Nazar  
Senior Vice President and  
Chief Nuclear Officer  
Indiana Michigan Power Company  
Nuclear Generation Group  
One Cook Place  
Bridgman, MI 49106

SUBJECT: ANNUAL ASSESSMENT LETTER - D. C. COOK NUCLEAR PLANT,  
UNITS 1 AND 2 (REPORT 05000315/2006001; 05000316/2006001)

Dear Mr. Nazar:

On February 8, 2006, the NRC staff completed its performance review of the D. C. Cook Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2005. 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Overall, the D. C. Cook Nuclear Plant, Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter 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 baseline inspections at your facility.

While plant performance for the most recent quarter is within the Licensee Response column of the Action Matrix, there was a safety significant Performance Indicator affecting the first two quarters of the assessment cycle for Unit 2. Specifically, there was one White PI in the Scrams with Loss of Normal Heat Removal area of the Initiating Events cornerstone that returned to Green after the second quarter of calendar year 2005.

Additionally, on November 23, 2005, the staff issued two Severity Level III violations of 10 CFR 50.9 and one Severity Level III violation of 10 CFR 55.25 with a \$60,000 civil penalty in accordance with the NRC's Enforcement Policy. The violations were associated with providing incomplete and inaccurate information with regard to applications for new, renewed, or amended reactor operator licenses; providing incomplete and inaccurate information in an August 2, 2004, letter that described your corrective actions for a previous Severity Level III violation; and the failure to provide timely information with regard to a change in medical status of licensed reactor operators. The violations remain open pending further NRC review of your corrective actions.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through September 30, 2007. In addition to the program defined inspection activities, additional oversight activities will be conducted for the reactor vessel head replacement, scheduled for the Fall refueling outage in 2006. 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 mid-cycle review.

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 Christine Lipa at 630-829-9619 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Mark A. Satorius, Director  
Division of Reactor Projects

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

Enclosure: D. C. Cook Nuclear Plant Inspection/Activity Plan

See Attached Distribution

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Mark A. Satorius, Director  
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See Attached Distribution

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cc w/encl: J. Jensen, Site Vice President  
L. Weber, Plant Manager  
G. White, Michigan Public Service Commission  
L. Brandon, Michigan Department of Environmental Quality -  
Waste and Hazardous Materials Division  
Emergency Management Division  
MI Department of State Police  
D. Lochbaum, Union of Concerned Scientists  
Berrien County Board Chairman  
Berrien County Coordinator  
Berrien County Sheriff  
EMA Coordinator, Berrien County Emergency  
Management Agency  
Mayor of Benton Harbor  
City Manager of Benton Harbor  
Mayor of St. Joseph  
City Manager of St. Joseph  
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President, Village of Shoreham  
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HKN

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KGO

RML2

SRI Cook

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DRSIII

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JRK1

[ROPreports@nrc.gov](mailto:ROPreports@nrc.gov) (inspection reports, final SDP letters, any letter with an IR number)

**D.C. Cook**  
**Inspection / Activity Plan**  
**03/01/2006 - 09/30/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>71111.11 - LIC OPERATOR REQUAL PROGRAM EVALUATION</b>		<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		03/06/2006	03/10/2006	Baseline Inspections
	<b>ISI - D.C. COOK UNIT 2 ISI INSPECTION</b>		<b>2</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/27/2006	04/21/2006	Baseline Inspections
	<b>7112102 - ALARA (OUTAGE)</b>		<b>2</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		04/03/2006	04/07/2006	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		04/03/2006	04/07/2006	Baseline Inspections
	<b>IP 71114 - EP NON-EXERCISE BASELINE</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		04/17/2006	04/21/2006	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		04/17/2006	04/21/2006	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		04/17/2006	04/21/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		04/17/2006	04/21/2006	Baseline Inspections
	<b>MOD/5059 - MODIFICATION/50.59 INSPECTION</b>		<b>2</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		05/08/2006	05/26/2006	Baseline Inspections
1,2	IP 711117B	Permanent Plant Modifications		05/08/2006	05/26/2006	Baseline Inspections
	<b>PI&amp;R - PI&amp;R BIENNIAL</b>		<b>3</b>			
1,2	IP 71152B	Identification and Resolution of Problems		07/24/2006	08/18/2006	Baseline Inspections
	<b>MAINT - MAINTENANCE EFFECTIVENESS</b>		<b>1</b>			
1,2	IP 711112B	Maintenance Effectiveness		07/17/2006	07/21/2006	Baseline Inspections
	<b>ISI - D.C. COOK U1 ISI &amp; RPV HD FAB/MOD INSP</b>		<b>3</b>			
1	IP 71007	Reactor Vessel Head Replacement Inspection		09/04/2006	11/03/2006	Other Routine
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		09/04/2006	11/03/2006	Baseline Inspections
1	IP 711117B	Permanent Plant Modifications		09/11/2006	11/03/2006	Baseline Inspections
1	IP 7111108P	Inservice Inspection Activities - PWR		10/09/2006	11/03/2006	Baseline Inspections
	<b>7112101 - RAD ACCESS AND OUTAGE ALARA</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/25/2006	09/29/2006	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/25/2006	09/29/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/25/2006	09/29/2006	Baseline Inspections
	<b>7112202 - TRANSPORTATION &amp; RADWASTE</b>		<b>1</b>			
1,2	IP 7112202	Radioactive Material Processing and Transportation		10/30/2006	11/03/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/30/2006	11/03/2006	Baseline Inspections
	<b>71122.01 - RADIOLOGICAL EFFLUENTS</b>		<b>1</b>			
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		01/08/2007	01/12/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/08/2007	01/12/2007	Baseline Inspections

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**  
**03/01/2006 - 09/30/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>CDBI</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	<b>5</b>			
1,2	IP 7111121	Component Design Bases Inspection		01/22/2007	02/23/2007	Baseline Inspections
	<b>FY 2007</b>	<b>- D. C. COOK INIT PREP 02/2007</b>	<b>3</b>			
1	W90152	OL - INITIAL EXAM - D.C. COOK - FEB/MAR 2007		02/26/2007	03/02/2007	Not Applicable
	<b>FY 2007</b>	<b>- D. C. COOK INIT EXAM 03/2007</b>	<b>3</b>			
1	W90152	OL - INITIAL EXAM - D.C. COOK - FEB/MAR 2007		03/19/2007	03/30/2007	Not Applicable
	<b>71121.02</b>	<b>- POST OUTAGE ALARA</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/26/2007	03/30/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/26/2007	03/30/2007	Baseline Inspections
	<b>71122.03</b>	<b>- REMP &amp; RAD MTL CONTROL</b>	<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		06/11/2007	06/15/2007	Baseline Inspections
	<b>HEATSINK</b>	<b>- HEAT SINK INSPECTION</b>	<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		07/09/2007	07/13/2007	Baseline Inspections
	<b>71121.01</b>	<b>- RADIOLOGICAL ACCESS CONTROL</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/24/2007	09/28/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/24/2007	09/28/2007	Baseline Inspections