

March 2, 2005

Mr. Mano 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 POWER PLANT,  
UNITS 1 AND 2 (REPORT 05000315/200501; 05000316/200501)

Dear Mr. Nazar:

On February 8, 2005, the NRC staff completed its end-of-cycle plant performance assessment of D.C. Cook Nuclear Power Plant. The end-of-cycle review for D.C. Cook involved the participation of the reactor technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2004. 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, so that you will have an opportunity to prepare for these inspections, and to inform us of any planned inspections that may conflict with your plant activities.

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, your D.C. Cook Nuclear Power Plant was operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for Unit 1 for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix based on one White inspection finding, shared by both units, in the Radiation Safety cornerstone. Plant performance for Unit 2 for the most recent quarter was within the Regulatory Response column of the Action Matrix based on the one White inspection finding in the Radiation Safety cornerstone and one White performance indicator for Scrams With Loss of Normal Heat Removal in the Initiating Events cornerstone.

Plant performance for Unit 1 entered the Regulatory Response column of the Action Matrix based on one White inspection finding in the Radiation Safety cornerstone during the first quarter of 2004, which affected both units. A supplemental inspection to review the circumstances surrounding the White finding was conducted in accordance with Inspection Procedure (IP) 95001, "Inspection For One Or Two White Inputs In A Strategic Performance Area." The inspection determined that your staff conducted an adequate root cause evaluation and, as a result, no additional supplemental inspections are planned.

Plant performance for Unit 2 during the first quarter of 2004 was within the Degraded Cornerstone column of the Action Matrix, based on two White performance indicators for Unplanned Scrams Per 7000 Critical Hours and Scrams With Loss of Normal Heat Removal in the Initiating Events cornerstone. A White inspection finding in the Radiation Safety cornerstone was also identified in the first quarter of 2004, which affected both units. Plant performance for Unit 2 entered the Regulatory Response column of the Action Matrix in the second quarter of 2004 when the Unplanned Scrams Per 7000 Critical Hours performance indicator changed to Green. Supplemental Inspection Procedure IP 95002, "Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area," was conducted to review the White performance indicators in the Unplanned Scrams Per 7000 Critical Hours and Scrams With Loss of Normal Heat Removal areas. The inspection determined that your staff conducted an adequate root cause evaluation and, as a result, no additional supplemental inspections are planned.

Additionally, on September 29, 2004, the staff issued a Severity Level III Notice of Violation in accordance with the NRC's Enforcement Policy. The Severity Level III violation of 10 CFR 50.9 was identified during the biennial licensed operator re-qualification program inspection using Inspection Procedure 71111.11B (IR 315/316-2004-07). Follow-up on this issue will be reviewed during routine baseline problem identification and resolution inspections.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved 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 mid-cycle review meeting.

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).

M. Nazar

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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 Eric Duncan, Chief, Reactor Projects Branch 6 at (630) 829-9628 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

James L. Caldwell  
Regional Administrator

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

Enclosure: D.C. Cook Inspection/Activity Plan

cc w/encl: J. Jensen, Site Vice President  
M. Finissi, Plant Manager  
G. White, Michigan Public Service Commission  
Michigan Department of Environmental Quality  
Emergency Management Division  
MI Department of State Police  
D. Lochbaum, Union of Concerned Scientists

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Institute of Nuclear Power Operations (INPO)

**D.C. Cook**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>ISI - UNIT 1 ISI/TI-150 INSPECTION</b>		<b>2</b>			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-02		03/28/2005	04/15/2005	Safety Issues
1	IP 2515/160	Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		03/28/2005	04/15/2005	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		03/28/2005	04/15/2005	Baseline Inspections
	<b>71121.02 - OUTAGE ALARA</b>		<b>1</b>			
1,2	IP 7112102	ALARA Planning and Controls		04/04/2005	04/08/2005	Baseline Inspections
	<b>71122.03 - REMP &amp; RAD MTL CONTROL</b>		<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program		07/11/2005	07/15/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		07/11/2005	07/15/2005	Baseline Inspections
	<b>SSDPC - SAFETY SYSTEM DESIGN &amp; PERFORMANCE</b>		<b>5</b>			
1,2	IP 7111121	Safety System Design and Performance Capability		09/05/2005	09/23/2005	Baseline Inspections
	<b>HEATSKB - BIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		10/03/2005	10/07/2005	Baseline Inspections
	<b>71114 - EP EXERCISE &amp; EP PI INSP</b>		<b>2</b>			
1,2	IP 7111401	Exercise Evaluation		09/19/2005	09/23/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/19/2005	09/23/2005	Baseline Inspections
	<b>71121.01 - RADIOLOGICAL ACCESS CONTROL</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/03/2005	10/07/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/03/2005	10/07/2005	Baseline Inspections
	<b>FY 2006 - D. C. COOK INIT PREP 01/2006</b>		<b>3</b>			
1	W90130	OL - INITIAL EXAM - D.C. COOK - JAN/FEB 2006		01/09/2006	01/13/2006	Not Applicable
	<b>FIREPROT - FIRE PROTECTION INSPECTION TRIENNIAL</b>		<b>3</b>			
1,2	IP 7111105T	Fire Protection		01/23/2006	02/10/2006	Baseline Inspections
	<b>7112103 - RADIOLOGICAL INSTRUMENTATION</b>		<b>1</b>			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/30/2006	02/03/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/30/2006	02/03/2006	Baseline Inspections
	<b>FY 2006 - D. C. COOK INIT EXAM 02/2006</b>		<b>3</b>			
1	W90130	OL - INITIAL EXAM - D.C. COOK - JAN/FEB 2006		02/06/2006	02/17/2006	Not Applicable
	<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>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

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**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>7112202</b>	<b>- TRANSPORTATION AND RADWASTE PROCESSING</b>	<b>1</b>			
1,2	IP 7112202	Radioactive Material Processing and Transportation		05/01/2006	05/05/2006	Baseline Inspections
	<b>MOD/5059</b>	<b>- MODIFICATION/50.59 INSPECTION</b>	<b>2</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/12/2006	06/30/2006	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		06/12/2006	06/30/2006	Baseline Inspections
1,2	IP 7111123	Temporary Plant Modifications		06/12/2006	06/30/2006	Baseline Inspections
	<b>MAINT</b>	<b>- MAINTENANCE EFFECTIVENESS</b>	<b>1</b>			
1,2	IP 711112B	Maintenance Effectiveness		08/07/2006	08/11/2006	Baseline Inspections
	<b>7112101</b>	<b>- RADIOLOGICAL ACCESS CONTROL</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		08/07/2006	08/11/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		08/07/2006	08/11/2006	Baseline Inspections