Mr. Mano K. 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 05000315/2007-001; 05000316/2007-001)

Dear Mr. Nazar:

On February 14, 2007, 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, 2006. 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 as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" and marked as "Official Use Only - Security-Related Information" will include the physical protection review and resultant inspection plan.

Overall, D.C. Cook 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.

Additionally, on October 6, 2006, the staff issued a Severity Level III Notice of Violation in accordance with the NRC's Enforcement Policy. This was a violation of 10 CFR 50.54(q) and 10 CFR 50.47(b)(4) with a \$60,000 civil penalty. The licensee had made a change to their Emergency Plan EAL scheme that was determined to be a decrease in effectiveness without prior NRC approval.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2008. 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 scheduled within the last 9 months of the inspection plan are tentative and may be revised at the next mid-cycle review.

M. Nazar -2-

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), accessible from the NRC Web site at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (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) 829-9619 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Christine A. Lipa, Chief Branch 4 Division of Reactor Projects

Docket No. 50-315; 50-316 License No. DPR-58, DPR-74

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

DISTRIBUTION: See next page

M. Nazar -2-

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Docket No. 50-315; 50-316 License No. DPR-58, DPR-74

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

DISTRIBUTION: See next page

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M. Nazar -3-

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

State Liaison Officer, State of Michigan

Berrien County Board Chairman Berrien County Coordinator Berrien County Sheriff

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**INPO** 

M. Nazar -4-

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Page 1 of 2

02/27/2007 07:46:59

Report 22

## D.C. Cook **Inspection / Activity Plan**

03/01/2007 - 06/30/2008

Unit			No. of Staff	Planned Dates		Inspection	
Number	Inspection Activity	Title	on Site	Start	End	Туре	
	CDBI - COMP	ONENT DESIGN BASES INSPECTION	10				
1, 2	IP 7111121	Component Design Bases Inspection		01/29/2007	03/02/2007	Baseline Inspections	
	FY 2007 - D. C. 0	COOK INIT PREP 02/2007	3				
1	W90152	OL - INITIAL EXAM - D.C. COOK - FEB/MAR 2007		02/26/2007	03/02/2007	Not Applicable	
	FY 2007 - D. C. 0	COOK INIT EXAM 03/2007	3				
1	W90152	OL - INITIAL EXAM - D.C. COOK - FEB/MAR 2007		03/19/2007	03/30/2007	Not Applicable	
	HD REPL - HEAD	REPLACEMENT INSPECTION	2				
2	IP 71007	Reactor Vessel Head Replacement Inspection		04/23/2007	09/07/2007	Other Routine	
	71122.03 - REMP	& RAD MTL CONTROL	1				
1, 2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		04/30/2007	05/04/2007	Baseline Inspections	
	HEATSINK - HEAT	SINK INSPECTION	1				
1, 2	IP 7111107B	Heat Sink Performance		07/09/2007	07/13/2007	Baseline Inspections	
	EP BI - BASE	LINE EP EXERCISE INSP	1				
1, 2	IP 7111401	Exercise Evaluation		08/13/2007	08/17/2007	Baseline Inspections	
1, 2	IP 71151-EP01	Drill/Exercise Performance		08/13/2007	08/17/2007	Baseline Inspections	
1, 2	IP 71151-EP02	ERO Drill Participation		08/13/2007	08/17/2007	Baseline Inspections	
1, 2	IP 71151-EP03	Alert & Notification System		08/13/2007	08/17/2007	Baseline Inspections	
	71121.01 - RADIO	DLOGICAL ACCESS CONTROL	1				
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/24/2007	09/28/2007	Baseline Inspections	
1, 2	IP 7112102	ALARA Planning and Controls		09/24/2007	09/28/2007	Baseline Inspections	
1, 2	IP 71151	Performance Indicator Verification		09/24/2007	09/28/2007	Baseline Inspections	
	ISI - ISI INS	SPECTION	1				
2	IP 7111108P	Inservice Inspection Activities - PWR		09/24/2007	10/26/2007	Baseline Inspections	
	71122.01 - RADIO	DLOGICAL EFFLUENTS	1				
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		11/05/2007	11/09/2007	Baseline Inspections	
1, 2	IP 71151	Performance Indicator Verification		11/05/2007	11/09/2007	Baseline Inspections	
	7111111B - LICEN	ISED OPERATOR REQUAL INSPECTION	4				
1, 2	IP 7111111B	Licensed Operator Requalification Program		03/10/2008	03/14/2008	Baseline Inspections	
	7112101 - ACCE	SS CONTROL	2				
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/17/2008	03/21/2008	Baseline Inspections	
		SPECTION	1				
1	IP 7111108P	Inservice Inspection Activities - PWR		03/17/2008	04/11/2008	Baseline Inspections	
		OG AND PI INSP	1				
1, 2	IP 7111402	Alert and Notification System Testing		06/02/2008	06/06/2008	Baseline Inspections	
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		06/02/2008	06/06/2008	Baseline Inspections	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Page 2 of 2

02/27/2007 07:46:59

Report 22

## D.C. Cook Inspection / Activity Plan 03/01/2007 - 06/30/2008

Unit				No. of Staff	Planne	d Dates	Inspection
Number	Inspection Activity		Title	on Site	Start	End	Туре
	EP -	EP PRO	DG AND PI INSP	1			
1, 2	IP 7111405		Correction of Emergency Preparedness Weaknesses and Deficiencies		06/02/2008	06/06/2008	Baseline Inspections
1, 2	IP 71151		Performance Indicator Verification		06/02/2008	06/06/2008	Baseline Inspections
	71122.02 -	RADM	ATERIAL PROCESSING / TRANSPORTATION	1			
1, 2	IP 7112202		Radioactive Material Processing and Transportation		05/12/2008	05/16/2008	Baseline Inspections
	MOD/5059 -	MODIF	CATIONS/50.59 INSPECTIONS	1			
1, 2	IP 7111102		Evaluation of Changes, Tests, or Experiments		06/23/2008	07/11/2008	Baseline Inspections
1, 2	IP 7111117B		Permanent Plant Modifications		06/23/2008	07/11/2008	Baseline Inspections