

# UNITED STATES NUCLEAR REGULATORY COMMISSION

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

March 4, 2009

Mr. Joseph N. Jensen 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 (05000315/2009001; 05000316/2009001)

Dear Mr. Jensen:

On February 11, 2009, the NRC staff completed its performance review of D.C. Cook Nuclear Power Plant, Units 1 and 2, for the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. 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.

Overall, D.C. Cook Nuclear Power 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 at D.C. Cook Unit 1 and Unit 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 Pls indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at the facility. Baseline inspections will include samples in problem identification and resolution, and equipment alignment and maintenance effectiveness to focus on issues related to the September 20, 2008, Unit 1 main turbine high vibration event prior to restart activities.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2010. 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.

J. Jensen -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). ADAMS is 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 630-829-9833 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

DISTRIBUTION
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#### Letter to J. Jensen from J. Cameron dated March 4, 2009

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UNITS 1 AND 2 (05000315/2009001; 05000316/2009001)

cc w/encl: L Weber, Site Vice President

J. Gebbie, 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

T. Strong, Chief, State Liaison Officer, State of Michigan

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

Mayor of Bridgman

City Manager of Bridgman

Mayor of Buchanan

City Manager of Buchanan

President, Village of Stevensville President, Village of Berrien Springs President, Village of Shoreham

G. Mortensen, INPO

## D.C. Cook

## Inspection / Activity Plan

Title

No. of Staff

on Site

## 03/01/2009 - 06/30/2010

Planned Dates

End

Inspection Activity

Start

		inspection Activity				
		BI ENG - INSER	VICE INSPECTION & TI-172 REVISION 1	1		
03/23/2009	04/10/2009	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds			
03/23/2009	04/10/2009	IP 7111108P	Inservice Inspection Activities - PWR			
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1		
04/06/2009	04/10/2009	IP 7112101	Access Control to Radiologically Significant Areas			
04/06/2009	04/10/2009	IP 7112102	ALARA Planning and Controls			
	NSPECTION - PAD CONSTRUCTION	2				
04/01/2009	06/30/2009	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI			
04/01/2009	06/30/2009	IP 60856	Review of 10 CFR 72.212(b) Evaluations			
04/01/2009	06/30/2009	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants			
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1		
07/06/2009	07/10/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems			
07/06/2009	07/10/2009	IP 71151-BI01	Reactor Coolant System Activity			
07/06/2009	07/10/2009	IP 71151-PR01	RETS/ODCM Radiological Effluent			
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1		
07/13/2009	07/17/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program			
		BI EP - EP EX	ERCISE INSPECTION / PI VERIFICATION	4		
09/14/2009	09/18/2009	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review			
09/14/2009	09/18/2009	IP 7111401	Exercise Evaluation			
09/14/2009	09/18/2009	IP 71151-EP01	Drill/Exercise Performance			
09/14/2009	09/18/2009	IP 71151-EP02	ERO Drill Participation			
09/14/2009	09/18/2009	IP 71151-EP03	Alert & Notification System			
		BI ENG - TRIEN	NIAL FIRE PROT. INFO GATHERING TRIP	3		
10/05/2009	10/09/2009	IP 7111105T	Fire Protection [Triennial]			
		BI ENG - TRIEN	NIAL FIRE PROTECTION INSPECTION	3		
11/02/2009	11/20/2009	IP 7111105T	Fire Protection [Triennial]			
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1		
11/02/2009	11/06/2009	IP 7112101	Access Control to Radiologically Significant Areas			
11/02/2009	11/06/2009	IP 7112102	ALARA Planning and Controls			
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1		
01/25/2010	01/29/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment			
	BI ENG - TRIENNIAL HEAT SINK INSPECTION					
02/08/2010	02/12/2010	IP 7111107T	Heat Sink Performance			
		BI OL - LIC. O	PERATOR REQUAL. PROGRAM EVALUATION	2		
03/08/2010	03/12/2010	IP 7111111B	Licensed Operator Requalification Program			

#### D.C. Cook

### Inspection / Activity Plan

### 03/01/2009 - 06/30/2010

Planne Start	d Dates End	Inspection Activity	Title	No. of Staff on Site
		BI ENG - INSER	VICE INSPECTION & TI-172 REVISION 1	2
03/29/2010	04/16/2010	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
03/29/2010	04/16/2010	IP 7111108P	Inservice Inspection Activities - PWR	
		BI ENG - HEAD	DROP ANALYSES	1
05/03/2010	05/21/2010	IP 7111120	Refueling and Other Outage Activities	
		BI RP - RADIA	ATION PROTECTION BASELINE INSPECTION	1
05/17/2010	05/21/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
05/17/2010	05/21/2010	IP 71151-BI01	Reactor Coolant System Activity	
05/17/2010	05/21/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	

J. Jensen -2-

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