

UNITED STATES NUCLEAR REGULATORY COMMISSION

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

September 1, 2009

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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -

D. C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2

Dear Mr. Jensen:

On August 19, 2009, the NRC staff completed its performance review of D.C. Cook Nuclear Power Plant, Units 1 and 2. Our technical staff reviewed performance indicators (Pls) for the most recent quarter and inspection results for the period from July 1, 2008 through June 30, 2009. 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.

Plant performance for the most recent quarter at D.C. Cook Nuclear Power Plant, Units 1 and 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 your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2010. The inspection schedule includes a triennial CDBI in mid 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 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 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: See next page

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -

D. C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2

cc w/encl: L Weber, Site Vice President

J. Gebbie, Plant Manager

J. Lark, 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

J. Jensen -2-

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OFFICE	RIII	RIII				
NAME	GWright:dtp	JCameron				
DATE	08/27/09	08/27/09				

Letter to J. Jensen from J. Cameron dated September 1, 2009.

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -

D. C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2

DISTRIBUTION:

RidsNrrDorlLpl3-1

RidsNrrPMDCCook Resource

Susan Bagley

RidsNrrDirslpob Resource

Cynthia Pederson

Steven Orth

Jared Heck

Allan Barker

DRPIII

DRSIII

Patricia Buckley

Tammy Tomczak

ROPreports Resource

D.C. Cook

Inspection / Activity Plan

Title

No. of Staff

on Site

3

09/01/2009 - 12/31/2010

- EP EXERCISE INSPECTION / PI VERIFICATION

Planned Dates

End

Inspection Activity

BI EP

Start

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 RP - RADIA	ATION PROTECTION BASELINE INSPECTION	1
09/28/2009	10/02/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
09/28/2009	10/02/2009	IP 71151-BI01	Reactor Coolant System Activity	
09/28/2009	10/02/2009	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		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	
		ISFSI - ISFSI I	INSPECTION	2
02/01/2010	09/30/2010	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
02/01/2010	09/30/2010	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1
01/25/2010	01/29/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
		BI ENG - TRIEN	NIAL HEAT SINK INSPECTION	1
02/08/2010	02/12/2010	IP 7111107T	Heat Sink Performance	
		BI RP - RADIA	TION PROTECTION BASELINE INSPECTION	1
03/15/2010	03/19/2010	IP 7112102	ALARA Planning and Controls	
		BI OL - LIC. O	PERATOR REQUAL. PROGRAM EVALUATION	2
03/08/2010	03/12/2010	IP 7111111B	Licensed Operator Requalification Program	
		BI ENG - INSER	VICE INSPECTION & TI-172 REVISION 1	1
03/15/2010	03/26/2010	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
03/15/2010	03/26/2010	IP 7111108P	Inservice Inspection Activities - PWR	
		BI RP - RADIA	TION 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	

D.C. Cook

Inspection / Activity Plan

09/01/2009 - 12/31/2010

Planned Dates				
Start	End	Inspection Activity	Title	on Site
		OL EXAM - D. C. (COOK INIT EXAM 06/2010	3
06/21/2010	07/02/2010	W90217	OL - INITIAL EXAM - JUNE 2010 - COOK	
		BI RP - RADIA	ATION PROTECTION BASELINE INSPECTION	1
08/09/2010	08/13/2010	IP 7112202	Radioactive Material Processing and Transportation	
		BI ENG - COMP	ONENT DESIGN BASES INSPECTION	5
08/16/2010	09/17/2010	IP 7111121	Component Design Bases Inspection	
		BI EP - EP RC	OUTINE INSPECTION / PI VERIFICATION	2
09/13/2010	09/17/2010	IP 7111402	Alert and Notification System Testing	
09/13/2010	09/17/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
09/13/2010	09/17/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
09/13/2010	09/17/2010	IP 71151-EP01	Drill/Exercise Performance	
09/13/2010	09/17/2010	IP 71151-EP02	ERO Drill Participation	
09/13/2010	09/17/2010	IP 71151-EP03	Alert & Notification System	
		BI RP - RADIA	ATION PROTECTION BASELINE INSPECTION	1
09/27/2010	10/01/2010	IP 7112101	Access Control to Radiologically Significant Areas	
09/27/2010	10/01/2010	IP 7112102	ALARA Planning and Controls	
09/27/2010	10/01/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		BI ENG - ENGIN	IEERING INSERVICE INSPECTION	1
10/04/2010	10/22/2010	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
10/04/2010	10/22/2010	IP 7111108P	Inservice Inspection Activities - PWR	