

March 4, 2002

Mr. A. C. Bakken III  
Senior Vice President  
Nuclear Generation Group  
American Electric Power Company  
One Cook Place  
Bridgman MI 49106

SUBJECT: ANNUAL ASSESSMENT LETTER - D. C. COOK NUCLEAR POWER STATION  
(REPORT 50-315/02-01; 50-316/02-01)

Dear Mr. Bakken:

On January 31, 2002, the NRC staff completed its end-of-cycle plant performance assessment of the D. C. Cook Nuclear Power Station, Units 1 and 2. The end-of-cycle review for the D. C. Cook Nuclear Power Station involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from April 1 through December 31, 2001. 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 which may conflict with your plant activities.

As discussed in our previous annual assessment letter dated May 31, 2001, this inspection and assessment cycle consisted of three quarters (i.e., the second, third, and fourth calendar quarters of calendar year 2001) instead of the usual four quarters. This change was implemented in order to align the inspection and assessment cycle with the calendar year beginning on January 1, 2002.

Overall, the D. C. Cook Nuclear Power Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first two quarters of the assessment cycle, 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). However, the significance of one finding is still under review as part of the Significance Determination Process. The finding involves the failure of the Unit 2 Turbine Driven Auxiliary Feedwater Pump to start due to insufficient engagement of the trip throttle valve latching mechanism. Therefore, we plan to conduct only baseline inspections at your facility through March 31, 2003.

The enclosed inspection plan details the inspections scheduled through March 31, 2003. 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 last 6 months of the inspection plan is tentative and may be revised at the Mid-Cycle Review meeting.

In addition to the baseline inspection program, the NRC issued safeguards advisories recommending that nuclear power plant licensees go to the highest level of security immediately following the terrorist attacks on the World Trade Center and the Pentagon, and all promptly did so. With continued uncertainty about the possibility of additional terrorist activities, the Nation's nuclear power plants, including the D. C. Cook Nuclear Power Station, remain at a high level of security. On February 25, 2002, the NRC issued an Order to all nuclear power plant licensees, requiring them to take certain additional interim compensatory measures to address the generalized high-level threat environment. These additional compensatory requirements will provide the NRC with reasonable assurance that public health and safety and the common defense and security continue to be adequately protected in the current generalized high-level threat environment. These requirements will remain in effect pending notification from the Commission that a significant change in the threat environment has occurred, or until the Commission determines that other changes are needed following a more comprehensive re-evaluation of current safeguards and security programs. To date, we have monitored the actions of the D. C. Cook Nuclear Power Station in response to the terrorist attacks through a series of audits. With the issuance of the Order, we will evaluate the D. C. Cook Nuclear Power Station's compliance with these interim requirements.

In accordance with 10 CFR 2.790 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/NRC/ADAMS/index.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 630-829-9620 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Anton Vogel, 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

See Attached Distribution

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M. Rencheck, Vice President, Strategic Business Improvements  
R. Whale, 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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**D.C. Cook**  
**Inspection / Activity Plan**  
**03/04/2002 - 03/31/2003**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>71130</b>	<b>- SAFEGUARDS INSPECTION-AA/AC/PI/PC</b>	<b>1</b>			
1, 2	IP 7113001	Access Authorization Program (Behavior Observation Only)		03/11/2002	03/15/2002	Baseline Inspections
1, 2	IP 7113002	Access Control (Search of Personnel, Packages, and Vehicles: Identification and Authorizator		03/11/2002	03/15/2002	Baseline Inspections
1, 2	IP 7113004	Security Plan Changes		03/11/2002	03/15/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		03/11/2002	03/15/2002	Baseline Inspections
	<b>71111.11</b>	<b>- LIC OPERATOR REQUAL PROGRAM EVALUATION</b>	<b>2</b>			
1, 2	IP 7111111B	Licensed Operator Requalification		03/25/2002	03/29/2002	Baseline Inspections
	<b>IP 71122</b>	<b>- RAM PROC/SHIPPING INSPECTION</b>	<b>1</b>			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		04/08/2002	04/12/2002	Baseline Inspections
	<b>IP 71121</b>	<b>- OUTAGE RP ALARA INSPECTION</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		05/20/2002	05/24/2002	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		05/20/2002	05/24/2002	Baseline Inspections
	<b>ISI</b>	<b>- ISI UNIT 2</b>	<b>1</b>			
1	IP 7111108	Inservice Inspection Activities		05/20/2002	05/31/2002	Baseline Inspections
	<b>FPI</b>	<b>- TRIENNIAL FIRE PROTECTION</b>	<b>3</b>			
1, 2	IP 7111105T	Fire Protection		07/22/2002	08/09/2002	Baseline Inspections
	<b>IP 71121</b>	<b>- RP INSTRUMENT &amp; ACCESS CNTRL INSPECTION</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		07/22/2002	07/26/2002	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation		07/22/2002	07/26/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		07/22/2002	07/26/2002	Baseline Inspections
	<b>MOD50.59</b>	<b>- BIENNIAL PLANT MODS AND 50.59</b>	<b>4</b>			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		08/26/2002	08/30/2002	Baseline Inspections
1, 2	IP 711117B	Permanent Plant Modifications		08/26/2002	08/30/2002	Baseline Inspections
	<b>IP 71122</b>	<b>- LIQ/GASEOUS EFFLUENTS INSPECTION</b>	<b>1</b>			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		09/23/2002	09/27/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/23/2002	09/27/2002	Baseline Inspections
	<b>HTSINK B</b>	<b>- BIENNIAL HEAT SINK</b>	<b>1</b>			
1, 2	IP 7111107B	Heat Sink Performance		10/07/2002	10/11/2002	Baseline Inspections
	<b>FY 2003</b>	<b>- D. C. COOK INIT PREP 10/2002</b>	<b>2</b>			
1	W90053	OL - INITIAL EXAM - D. C. COOK - OCT/NOV/DEC 2002		10/07/2002	10/11/2002	Not Applicable
	<b>CONT A</b>	<b>- SAFEGUARDS INSPECTION-RESPONSE ADMN</b>	<b>1</b>			
1, 2	IP 7113003	Response to Contingency Events (Protective Strategy and Implementation of Protective Strategie		11/04/2002	11/08/2002	Baseline Inspections
	<b>FY 2003</b>	<b>- D. C. COOK INIT EXAM 11&amp;12/2002</b>	<b>3</b>			
1	W90053	OL - INITIAL EXAM - D. C. COOK - OCT/NOV/DEC 2002		11/18/2002	12/13/2002	Not Applicable

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**  
**03/04/2002 - 03/31/2003**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
<b>IP 71114 - EP BASELINE INSPECTION (NON-EXERCISE)</b>			<b>1</b>			
1, 2	IP 7111402	Alert and Notification System Testing		12/02/2002	12/06/2002	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		12/02/2002	12/06/2002	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		12/02/2002	12/06/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		12/02/2002	12/06/2002	Baseline Inspections
<b>IP 71121 - RP INSTRUMENT &amp; ACCESS CNTRL INSPECTION</b>			<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		12/02/2002	12/06/2002	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation		12/02/2002	12/06/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		12/02/2002	12/06/2002	Baseline Inspections
<b>MAIN B - BIENNIAL MAINTENANCE RULE</b>			<b>1</b>			
1, 2	IP 7111112B	Maintenance Rule Implementation		01/13/2003	01/17/2003	Baseline Inspections
<b>IP 71121 - RP ACCESS CONTROLS INSPECTION</b>			<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/03/2003	03/07/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		03/03/2003	03/07/2003	Baseline Inspections