

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).

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 |
|-------------|---------------------|--|----------------------|---------------------|-------------------|----------------------|
| | ISI | - UNIT 1 ISI/TI-150 INSPECTION | 2 | | | |
| 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 |
| | 71121.02 | - OUTAGE ALARA | 1 | | | |
| 1,2 | IP 7112102 | ALARA Planning and Controls | | 04/04/2005 | 04/08/2005 | Baseline Inspections |
| | 71122.03 | - REMP & RAD MTL CONTROL | 1 | | | |
| 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 |
| | SSDPC | - SAFETY SYSTEM DESIGN & PERFORMANCE | 5 | | | |
| 1,2 | IP 7111121 | Safety System Design and Performance Capability | | 09/05/2005 | 09/23/2005 | Baseline Inspections |
| | HEATSKB | - BIENNIAL HEAT SINK INSPECTION | 1 | | | |
| 1,2 | IP 7111107B | Heat Sink Performance | | 10/03/2005 | 10/07/2005 | Baseline Inspections |
| | 71114 | - EP EXERCISE & EP PI INSP | 2 | | | |
| 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 |
| | 71121.01 | - RADIOLOGICAL ACCESS CONTROL | 1 | | | |
| 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 |
| | FY 2006 | - D. C. COOK INIT PREP 01/2006 | 3 | | | |
| 1 | W90130 | OL - INITIAL EXAM - D.C. COOK - JAN/FEB 2006 | | 01/09/2006 | 01/13/2006 | Not Applicable |
| | FIREPROT | - FIRE PROTECTION INSPECTION TRIENNIAL | 3 | | | |
| 1,2 | IP 7111105T | Fire Protection | | 01/23/2006 | 02/10/2006 | Baseline Inspections |
| | 7112103 | - RADIOLOGICAL INSTRUMENTATION | 1 | | | |
| 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 |
| | FY 2006 | - D. C. COOK INIT EXAM 02/2006 | 3 | | | |
| 1 | W90130 | OL - INITIAL EXAM - D.C. COOK - JAN/FEB 2006 | | 02/06/2006 | 02/17/2006 | Not Applicable |
| | ISI | - D.C. COOK UNIT 2 ISI INSPECTION | 2 | | | |
| 1 | IP 7111108P | Inservice Inspection Activities - PWR | | 03/27/2006 | 04/21/2006 | Baseline Inspections |
| | IP 71114 | - EP NON-EXERCISE BASELINE | 1 | | | |
| 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 Start | Planned Dates End | Inspection Type |
|-------------|---------------------|--|----------------------|---------------------|-------------------|----------------------|
| | 7112202 | - TRANSPORTATION AND RADWASTE PROCESSING | 1 | | | |
| 1,2 | IP 7112202 | Radioactive Material Processing and Transportation | | 05/01/2006 | 05/05/2006 | Baseline Inspections |
| | MOD/5059 | - MODIFICATION/50.59 INSPECTION | 2 | | | |
| 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 |
| | MAINT | - MAINTENANCE EFFECTIVENESS | 1 | | | |
| 1,2 | IP 711112B | Maintenance Effectiveness | | 08/07/2006 | 08/11/2006 | Baseline Inspections |
| | 7112101 | - RADIOLOGICAL ACCESS CONTROL | 1 | | | |
| 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 |