



**INDIANA  
MICHIGAN  
POWER**

*A unit of American Electric Power*

**Indiana Michigan Power**  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
AEP.com

May 13, 2005

AEP:NRC:2691-54

Docket Nos. 50-315  
50-316

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Stop O-P1-17  
Washington, DC 20555-0001

**Donald C. Cook Nuclear Plant Units 1 and 2  
MONTHLY OPERATING REPORT**

In accordance with the requirements of Donald C. Cook Nuclear Plant Unit 1 and Unit 2 Technical Specification 6.9.1.8, the attached Monthly Operating Report for April 2005 is submitted.

There are no new commitments associated with this submittal.

Should you have any questions, please contact Mr. Michael K. Scarpello, Regulatory Affairs Supervisor, at (269) 466-2649.

Sincerely,

Joseph N. Jensen  
Site Vice President

JEN/jen

Attachment

IE 24

c: R. Aben – Department of Labor and Economic Growth  
ANI Nuclear Engineering Department  
L. Brandon – MDEQ - WHMD/HWRPS  
D. P. Fadel  
M. J. Finissi  
G. T. Gaffney – Canton  
R. A. F. Harris  
INPO Records Center  
J. N. Jensen  
J. T. King - MPSC  
B. Lewis – McGraw-Hill Companies  
D. H. Malin  
K. L. Matheny  
M. K. Nazar  
NRC Project Manager – NRR  
NRC Region III  
NRC Resident Inspector  
D. W. Paul – Columbus  
W. H. Schalk  
J. A. Zwolinski

**N.R.C. OPERATING DATA REPORT**

DOCKET NO. 50-315  
 DATE 5/3/2005  
 COMPLETED BY R. Harris  
 TELEPHONE 269-465-5901

**OPERATING STATUS**

- 1. Unit Name D. C. Cook Unit 1
- 2. Reporting Period Apr-05
- 3. Licensed Thermal Power (MWt) 3304
- 4. Name Plate Rating (Gross MWe) 1152
- 5. Design Electrical Rating (Net MWe) 1020
- 6. Maximum Dependable Capacity(GROSS MWe) 1056
- 7. Maximum Dependable Capacity (Net MWe) 1000
- 8. If Changes Occur in Capacity Ratings (Items no. 3 through 7) Since Last Report Give Reasons

Notes:

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9. Power Level To Which Restricted. If Any (Net MWe) \_\_\_\_\_

10. Reasons For Restrictions. \_\_\_\_\_

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	This Mo.	Yr. to Date	Cumm.
11. Hours in Reporting Period	719.0	2879.0	265871.0
12. No. of Hrs. Reactor Was Critical	120.6	2136.8	184638.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	96.4	2112.6	181881.1
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	199190.5	6807388.7	546479446.6
17. Gross Elect. Energy Gen. (MWH)	60530.0	2216030.0	177392753.0
18. Net Elect. Energy Gen. (MWH)	57236.7	2142001.7	170818763.4
19. Unit Service Factor	13.4	73.4	68.9
20. Unit Availability Factor	13.4	73.4	68.9
21. Unit Capacity Factor (MDC Net)	8.0	74.4	65.6
22. Unit Capacity Factor (DER Net)	7.8	72.9	64.3
23. Unit Forced Outage Rate	0.0	0.0	18.2
24. Shutdowns Scheduled over Next Six Months (Type,Date,and Duration):	_____		

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25. If Shut Down At End of Report Period, Est'd Date of Startup: \_\_\_\_\_

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26. Units in Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

**AVERAGE DAILY POWER LEVEL (MWe-Net)**

DOCKET NO.	50-315
UNIT	ONE
DATE	03-May-05
COMPLETED BY	R. Harris
TELEPHONE	269-465-5901

MONTH      Apr-05

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
4/1/2005	0	4/17/2005	0
4/2/2005	0	4/18/2005	0
4/3/2005	0	4/19/2005	0
4/4/2005	0	4/20/2005	0
4/5/2005	0	4/21/2005	0
4/6/2005	0	4/22/2005	0
4/7/2005	0	4/23/2005	0
4/8/2005	0	4/24/2005	0
4/9/2005	0	4/25/2005	0
4/10/2005	0	4/26/2005	34
4/11/2005	0	4/27/2005	136
4/12/2005	0	4/28/2005	421
4/13/2005	0	4/29/2005	790
4/14/2005	0	4/30/2005	1004
4/15/2005	0		
4/16/2005	0		

DOCKET NO. 50 - 315  
 UNIT NAME D.C. Cook Unit 1  
 DATE May 3, 2005  
 COMPLETED BY J. Newmiller  
 TELEPHONE 269-465-5901  
 PAGE 1 of 1

**UNIT SHUTDOWNS AND POWER REDUCTIONS – April 2005**

NO.	DATE	TYPE <sup>1</sup>	DURATION HOURS	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT NO.	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
351	050326	S	622.6	C	1	N/A	N/A	N/A	Scheduled refueling outage
352	050426	F	0	A	3	2005-001	JD	DET	Reactor trip caused by an intermediate range (N35) high flux reactor trip signal. The turbine was not synchronized to the grid at the time of the trip, thus the duration is included in shutdown number 351

**1 TYPE:**  
 F: Forced  
 S: Scheduled

**2 REASON:**  
 A: Equipment Failure (Explain)  
 B: Maintenance or Test  
 C: Refueling  
 D: Regulatory Restriction  
 E: Operator Training and License Examination  
 F: Administrative  
 G: Operational Error (Explain)  
 H: Other (Explain)

**3 METHOD:**  
 1: Manual  
 2: Manual Scram  
 3: Automatic Scram  
 4: Other (Explain)

**4 SYSTEM:**  
 Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)

**5 COMPONENT:**  
 Exhibit I: Same Source

**N.R.C. OPERATING DATA REPORT**

DOCKET NO. 50-316  
 DATE 5/3/2005  
 COMPLETED BY R. Harris  
 TELEPHONE 269-465-5901

**OPERATING STATUS**

- 1. Unit Name D. C. Cook Unit 2
- 2. Reporting Period Apr-05
- 3. Licensed Thermal Power (MWt) 3468
- 4. Name Plate Rating (Gross MWe) 1133
- 5. Design Electrical Rating (Net MWe) 1090
- 6. Maximum Dependable Capacity(GROSS MWe) 1100
- 7. Maximum Dependable Capacity (Net MWe) 1060
- 8. If Changes Occur in Capacity Ratings (Items no. 3 through 7) Since Last Report Give Reasons

Notes:
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- 9. Power Level To Which Restricted: If Any (Net MWe)
- 10. Reasons For Restrictions.

	This Mo.	Yr. to Date	Cumm.
11. Hours in Reporting Period	719.0	2879.0	240017.0
12. No. of Hrs. Reactor Was Critical	719.0	2854.0	158603.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	719.0	2844.4	154606.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2494058.0	9809599.7	488691937.4
17. Gross Elect. Energy Gen. (MWH)	831020.0	3271930.0	158587498.0
18. Net Elect. Energy Gen. (MWH)	805506.0	3171109.0	152974523.6
19. Unit Service Factor	100.0	98.8	65.0
20. Unit Availability Factor	100.0	98.8	65.0
21. Unit Capacity Factor (MDC Net)	105.7	103.9	61.2
22. Unit Capacity Factor (DER Net)	102.8	101.1	59.5
23. Unit Forced Outage Rate	0.0	0.0	22.3
24. Shutdowns Scheduled over Next Six Months (Type,Date,and Duration):			

25. If Shut Down At End of Report Period, Est'd Date of Startup:

26. Units in Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY	Forecast	Achieved
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

**AVERAGE DAILY POWER LEVEL (MWe-Net)**

DOCKET NO. 50-316  
UNIT TWO  
DATE 3-May-05  
COMPLETED BY R. Harris  
TELEPHONE 269-465-5901

MONTH Apr-05

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
4/1/2005	1121	4/17/2005	1120
4/2/2005	1144	4/18/2005	1143
4/3/2005	1155	4/19/2005	1132
4/4/2005	1120	4/20/2005	1071
4/5/2005	1121	4/21/2005	1112
4/6/2005	1124	4/22/2005	1110
4/7/2005	1080	4/23/2005	1116
4/8/2005	1168	4/24/2005	1126
4/9/2005	1113	4/25/2005	1117
4/10/2005	1134	4/26/2005	1113
4/11/2005	1117	4/27/2005	1119
4/12/2005	1135	4/28/2005	1114
4/13/2005	1095	4/29/2005	1118
4/14/2005	1122	4/30/2005	1114
4/15/2005	1121		
4/16/2005	1117		

DOCKET NO. 50 - 316  
 UNIT NAME D.C. Cook Unit 2  
 DATE May 3, 2005  
 COMPLETED BY J. Newmiller  
 TELEPHONE 269-465-5901  
 PAGE 1 of 1

**UNIT SHUTDOWNS AND POWER REDUCTIONS – April 2005**

NO.	DATE	TYPE <sup>1</sup>	DURATION HOURS	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT NO.	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
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None.

- |  |  |   |  |  |
|--|--|---|--|--|
| <p><b>1 TYPE:</b><br/>         F: Forced<br/>         S: Scheduled</p> | <p><b>2 REASON:</b><br/>         A: Equipment Failure (Explain)<br/>         B: Maintenance or Test<br/>         C: Refueling<br/>         D: Regulatory Restriction<br/>         E: Operator Training and<br/>         License Examination<br/>         F: Administrative<br/>         G: Operational Error (Explain)<br/>         H: Other (Explain)</p> | <p><b>3 METHOD:</b><br/>         1: Manual<br/>         2: Manual Scram<br/>         3: Automatic Scram<br/>         4: Other (Explain)</p> | <p><b>4 SYSTEM:</b><br/>         Exhibit G - Instructions<br/>         for preparation of data<br/>         entry sheets for Licensee<br/>         Event Report (LER) File<br/>         (NUREG 0161)</p> | <p><b>5 COMPONENT:</b><br/>         Exhibit I: Same Source</p> |
|--|--|---|--|--|