

Indiana Michigan  
Power Company  
500 Circle Drive  
Buchanan, MI 49107 1395



January 12, 2005

AEP:NRC:2691-50

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

Pursuant to 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 December 2004 is submitted.

There are no new commitments associated with this submittal.

Should you have any questions, please contact Mr. Toby K. Woods, Compliance Supervisor, at (269) 466-2798.

Sincerely,

A handwritten signature in black ink, appearing to read 'JEN', with a long horizontal line extending to the right.

Joseph N. Jensen  
Site Vice President

JEN/jen

Attachment

JEN24

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 1/3/2005  
 COMPLETED BY R. Harris  
 TELEPHONE 269-465-5901

**OPERATING STATUS**

- |  |                   |        |
|--|-------------------|--------|
| 1. Unit Name   | D. C. Cook Unit 1 | Notes: |
| 2. Reporting Period  | Dec-04            |        |
| 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 |                   |        |

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

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

	This Mo.	Yr. to Date	Cummm.
11. Hours in Reporting Period	744.0	8784.0	262992.0
12. No. of Hrs. Reactor Was Critical	744.0	8599.9	182501.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	744.0	8588.9	179768.5
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	2459161.9	28303530.4	539672058.0
17. Gross Elect. Energy Gen. (MWH)	799780.0	9134920.0	175176723.0
18. Net Elect. Energy Gen. (MWH)	773529.0	8831477.8	168676761.7
19. Unit Service Factor	100.0	97.8	68.8
20. Unit Availability Factor	100.0	97.8	68.8
21. Unit Capacity Factor (MDC Net)	104.0	100.5	65.5
22. Unit Capacity Factor (DER Net)	101.9	98.6	64.3
23. Unit Forced Outage Rate	0.0	0.0	18.3

24. Shutdowns Scheduled over Next Six Months (Type,Date,and Duration):

Refueling outage currently scheduled for Spring 2005 with a planned duration of approximately 35 days.

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

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-Jan-05  
COMPLETED BY R. Harris  
TELEPHONE 269-465-5901

MONTH Dec-04

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
12/1/2004	1039	12/17/2004	1038
12/2/2004	1041	12/18/2004	1041
12/3/2004	1036	12/19/2004	1041
12/4/2004	1037	12/20/2004	1042
12/5/2004	1055	12/21/2004	1039
12/6/2004	1021	12/22/2004	1043
12/7/2004	1036	12/23/2004	1038
12/8/2004	1037	12/24/2004	1040
12/9/2004	1037	12/25/2004	1039
12/10/2004	1040	12/26/2004	1038
12/11/2004	1038	12/27/2004	1039
12/12/2004	1040	12/28/2004	1044
12/13/2004	1046	12/29/2004	1037
12/14/2004	1034	12/30/2004	1048
12/15/2004	1050	12/31/2004	1043
12/16/2004	1032		

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

**UNIT SHUTDOWNS AND POWER REDUCTIONS – December 2004**

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
-----	------	-------------------	-------------------	---------------------	---	---------------------------------	-----------------------------	--------------------------------	--

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> |
|--|--|---|--|--|

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

DOCKET NO. 50-316  
DATE 1/3/2005  
COMPLETED BY R. Harris  
TELEPHONE 269-465-5901

**OPERATING STATUS**

- 1. Unit Name D. C. Cook Unit 2
- 2. Reporting Period Dec-04
- 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



- 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	744.0	8784.0	237138.0
12. No. of Hrs. Reactor Was Critical	744.0	7465.9	155749.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	744.0	7408.1	151762.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2574027.3	25206478.2	478882337.7
17. Gross Elect. Energy Gen. (MWH)	862120.0	8201538.0	155315568.0
18. Net Elect. Energy Gen. (MWH)	836030.0	7938507.9	149803414.6
19. Unit Service Factor	100.0	84.3	64.6
20. Unit Availability Factor	100.0	84.3	64.6
21. Unit Capacity Factor (MDC Net)	106.0	85.3	60.7
22. Unit Capacity Factor (DER Net)	103.1	82.9	59.0
23. Unit Forced Outage Rate	0.0	3.8	22.6
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):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

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

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

MONTH Dec-04

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
12/1/2004	1119	12/17/2004	1123
12/2/2004	1123	12/18/2004	1122
12/3/2004	1140	12/19/2004	1128
12/4/2004	1104	12/20/2004	1137
12/5/2004	1120	12/21/2004	1117
12/6/2004	1131	12/22/2004	1121
12/7/2004	1113	12/23/2004	1128
12/8/2004	1129	12/24/2004	1128
12/9/2004	1118	12/25/2004	1120
12/10/2004	1121	12/26/2004	1127
12/11/2004	1119	12/27/2004	1123
12/12/2004	1136	12/28/2004	1123
12/13/2004	1124	12/29/2004	1121
12/14/2004	1120	12/30/2004	1137
12/15/2004	1120	12/31/2004	1115
12/16/2004	1127		

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

**UNIT SHUTDOWNS AND POWER REDUCTIONS – December 2004**

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> |
|--|--|---|--|--|