



**Indiana Michigan
Power Company**
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106
aep.com

January 13, 2006

AEP:NRC:2691-62

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 5.6.4, the attached Monthly Operating Report for December 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,

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

Joseph N. Jensen
Site Vice President

JEN/jen

Attachment

IE24

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

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315

DATE 1/5/2006

COMPLETED BY R. Harris

TELEPHONE 269-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 1

2. Reporting Period Dec-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:

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	8760.0	271752.0
12. No. of Hrs. Reactor Was Critical	744.0	8000.4	190501.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	744.0	7942.1	187710.6
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	2455442.6	25990756.6	565662814.6
17. Gross Elect. Energy Gen. (MWH)	800850.0	8336729.0	183513452.0
18. Net Elect. Energy Gen. (MWH)	774374.0	8055846.7	176732608.4
19. Unit Service Factor	100.0	90.7	69.5
20. Unit Availability Factor	100.0	90.7	69.5
21. Unit Capacity Factor (MDC Net)	104.1	92.0	66.4
22. Unit Capacity Factor (DER Net)	102.0	90.2	65.1
23. Unit Forced Outage Rate	0.0	0.3	17.7
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. 50-315
UNIT ONE
DATE 05-Jan-06
COMPLETED BY R. Harris
TELEPHONE 269-465-5901

MONTH Dec-05

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
12/1/2005	1035	12/17/2005	1042
12/2/2005	1042	12/18/2005	1044
12/3/2005	1042	12/19/2005	1037
12/4/2005	1041	12/20/2005	1037
12/5/2005	1037	12/21/2005	1035
12/6/2005	1043	12/22/2005	1041
12/7/2005	1037	12/23/2005	1082
12/8/2005	1044	12/24/2005	1009
12/9/2005	1039	12/25/2005	1034
12/10/2005	1041	12/26/2005	1048
12/11/2005	1038	12/27/2005	1039
12/12/2005	1060	12/28/2005	1042
12/13/2005	1026	12/29/2005	1036
12/14/2005	1035	12/30/2005	1042
12/15/2005	1045	12/31/2005	1055
12/16/2005	1037		

DOCKET NO. 50 - 315
 UNIT NAME Donald C. Cook Nuclear Plant Unit 1
 DATE January 5, 2006
 COMPLETED BY J. Newmiller
 TELEPHONE 269-465-5901
 PAGE 3 of 6

UNIT SHUTDOWNS AND POWER REDUCTIONS – December 2005

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

<u>1 TYPE:</u> F: Forced S: Scheduled	<u>2 REASON:</u> 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)	<u>3 METHOD:</u> 1: Manual 2: Manual Scram 3: Automatic Scram 4: Other (Explain)	<u>4 SYSTEM:</u> Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)	<u>5 COMPONENT:</u> Exhibit I: Same Source
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N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316

DATE 1/5/2006

COMPLETED BY R. Harris

TELEPHONE 269-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2

2. Reporting Period Dec-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

Notes:

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	8760.0	245898.0
12. No. of Hrs. Reactor Was Critical	744.0	8644.6	164393.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	744.0	8604.1	160366.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2577551.2	29685272.7	508567610.5
17. Gross Elect. Energy Gen. (MWH)	855930.0	9720540.0	165036108.0
18. Net Elect. Energy Gen. (MWH)	829514.0	9415536.0	159218950.6
19. Unit Service Factor	100.0	98.2	65.8
20. Unit Availability Factor	100.0	98.2	65.8
21. Unit Capacity Factor (MDC Net)	105.2	101.4	62.2
22. Unit Capacity Factor (DER Net)	102.3	98.6	60.5
23. Unit Forced Outage Rate	0.0	1.0	21.7

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

Scheduled Refueling Outage - March 2006

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
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Forecast

Achieved

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316
UNIT TWO
DATE 5-Jan-06
COMPLETED BY R. Harris
TELEPHONE 269-465-5901

MONTH Dec-05

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
12/1/2005	1120	12/17/2005	1127
12/2/2005	1113	12/18/2005	1148
12/3/2005	1116	12/19/2005	1071
12/4/2005	1109	12/20/2005	1120
12/5/2005	1117	12/21/2005	1106
12/6/2005	1118	12/22/2005	1117
12/7/2005	1116	12/23/2005	1115
12/8/2005	1112	12/24/2005	1121
12/9/2005	1111	12/25/2005	1115
12/10/2005	1117	12/26/2005	1119
12/11/2005	1118	12/27/2005	1110
12/12/2005	1125	12/28/2005	1111
12/13/2005	1118	12/29/2005	1115
12/14/2005	1106	12/30/2005	1112
12/15/2005	1107	12/31/2005	1123
12/16/2005	1112		

DOCKET NO.	50 - 316
UNIT NAME	Donald C. Cook Nuclear Plant Unit 2
DATE	January 5, 2006
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	6 of 6

UNIT SHUTDOWNS AND POWER REDUCTIONS – December 2005

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

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
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