

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



December 13, 2002

AEP:NRC:2691-25

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  
November 2002 is submitted.

Sincerely,

*Joel P. Miller For Scot Greenlee*

Scot A. Greenlee  
Director, Nuclear Technical Services

BWO/jen

Attachments

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*JE24*

c: ANI Nuclear Engineering Department  
A. C. Bakken, III  
L. Brandon - Department of Health  
G. T. Gaffney – Canton  
S. A. Greenlee  
S. Hamming – Department of Labor  
RAF Harris  
INPO Records Center  
B. Lewis – McGraw-Hill Companies  
D. H. Malin  
B. A. McIntyre  
NRC Project Manager – NRR  
NRC Region III  
NRC Resident Inspector  
D. W. Paul – Columbus  
J. E. Pollock  
W. H. Schalk

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

DOCKET NO. 50-315  
 DATE 12/10/02  
 COMPLETED BY RAF Harris  
 TELEPHONE 269-465-5901

**OPERATING STATUS**

- 1. Unit Name D. C. Cook Unit 1
- 2. Reporting Period Nov-02
- 3. Licensed Thermal Power (MWt) 3250
- 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. \_\_\_\_\_
- 
- 

	This Mo.	Yr. to Date	Cumm.
11. Hours in Reporting Period	720.0	8016.0	244704.0
12. No. of Hrs. Reactor Was Critical	720.0	7083.3	166604.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	720.0	7039.5	163944.9
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	2304291.6	22419735.0	487925042.0
17. Gross Elect. Energy Gen. (MWH)	751750.0	7241800.0	158474620.0
18. Net Elect. Energy Gen. (MWH)	726636.0	6999120.6	152533414.5
19. Unit Service Factor	100.0	87.8	67.5
20. Unit Availability Factor	100.0	87.8	67.5
21. Unit Capacity Factor (MDC Net)	100.9	87.3	63.8
22. Unit Capacity Factor (DER Net)	98.9	85.6	62.5
23. Unit Forced Outage Rate	0.0	1.4	19.2
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 02-Dec-02  
COMPLETED BY RAF Harris  
TELEPHONE 269-465-5901

MONTH Nov-02

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
11/1/02	1031	11/17/02	1021
11/2/02	1031	11/18/02	1030
11/3/02	1033	11/19/02	1037
11/4/02	1032	11/20/02	1027
11/5/02	1030	11/21/02	1032
11/6/02	1032	11/22/02	1033
11/7/02	1027	11/23/02	1031
11/8/02	1031	11/24/02	1026
11/9/02	1034	11/25/02	1028
11/10/02	1036	11/26/02	1031
11/11/02	466	11/27/02	1029
11/12/02	934	11/28/02	1032
11/13/02	1030	11/29/02	1033
11/14/02	1038	11/30/02	1033
11/15/02	1027		
11/16/02	1041		

DOCKET NO. 50 - 315  
 UNIT NAME D.C. Cook Unit 1  
 DATE December 3, 2002  
 COMPLETED BY B. O'Rourke  
 TELEPHONE 269-465-5901  
 PAGE 1 of 1

**UNIT SHUTDOWNS AND POWER REDUCTIONS – November 2002**

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
344	021110	S	0	B	4	n/a	AB	P	Unit 1 power reduced to 30% to allow containment entry to add oil to the #14 Reactor Coolant Pump.

**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 12/2/02

COMPLETED BY RAF Harris

TELEPHONE 269-465-5901

**OPERATING STATUS**

- |  |                   |        |
|--|-------------------|--------|
| 1. Unit Name   | D. C. Cook Unit 2 | Notes: |
| 2. Reporting Period  | Nov-02            |        |
| 3. Licensed Thermal Power (MWt)  | 3411              |        |
| 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	720.0	8016.0	218850.0
12. No. of Hrs. Reactor Was Critical	720.0	6719.1	140824.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	720.0	6594.6	136996.5
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2454561.1	21860422.3	428687771.6
17. Gross Elect. Energy Gen. (MWH)	816920.0	7100040.0	138926550.0
18. Net Elect. Energy Gen. (MWH)	791251.0	6867170.4	133932224.3
19. Unit Service Factor	100.0	82.3	63.3
20. Unit Availability Factor	100.0	82.3	63.3
21. Unit Capacity Factor (MDC Net)	103.7	80.8	58.9
22. Unit Capacity Factor (DER Net)	100.8	78.6	57.3
23. Unit Forced Outage Rate	0.0	6.5	23.9

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

Refueling Outage scheduled for April 2003

25. If Shut Down At End of Report Period, Est'ed 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 2-Dec-02  
COMPLETED BY RAF Harris  
TELEPHONE 269-465-5901

MONTH Nov-02

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
11/1/02	1090	11/17/02	1098
11/2/02	1106	11/18/02	1095
11/3/02	1096	11/19/02	1098
11/4/02	1090	11/20/02	1100
11/5/02	1096	11/21/02	1104
11/6/02	1093	11/22/02	1099
11/7/02	1095	11/23/02	1107
11/8/02	1098	11/24/02	1100
11/9/02	1101	11/25/02	1099
11/10/02	1097	11/26/02	1097
11/11/02	1098	11/27/02	1103
11/12/02	1093	11/28/02	1109
11/13/02	1100	11/29/02	1103
11/14/02	1098	11/30/02	1110
11/15/02	1098		
11/16/02	1098		

DOCKET NO. 50 - 316  
 UNIT NAME D.C. Cook Unit 2  
 DATE December 3, 2002  
 COMPLETED BY B. O'Rourke  
 TELEPHONE 269-465-5901  
 PAGE 1 of 1

**UNIT SHUTDOWNS AND POWER REDUCTIONS – November 2002**

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

**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