

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



September 15, 2003

AEP:NRC:2691-34

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 August 2003 is submitted.

Additionally, the following Unit Shutdowns and Power Reductions summaries are being resubmitted due to errors in the calculation of the duration hours: Unit 1 and Unit 2 – February 2003; Unit 1 – May 2003; and Unit 2 – June 2003. These summaries incorrectly reported reactor shutdown hours instead of generator shutdown hours for those periods.

There are no new commitments associated with this submittal.

Should you have any questions, please contact Mr. Brian A. McIntyre, Manager of Regulatory Affairs, at (269) 697-5806.

Sincerely,

A handwritten signature in black ink, appearing to read 'John A. Zwolinski'.

John A. Zwolinski  
Director, Design Engineering and Regulatory Affairs

JEN/jen

Attachment

IE24

c: R. Aben – Department of Consumers and Industry Services  
ANI Nuclear Engineering Department  
L. Brandon - Department of Health  
M. J. Finissi  
G. T. Gaffney – Canton  
J. B. Giessner  
INPO Records Center  
B. Lewis – McGraw-Hill Companies  
D. H. Malin  
K. L. Matheny  
B. A. McIntyre  
T. C. Pham  
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 9/5/2003

COMPLETED BY R. Harris

TELEPHONE 269-465-5901

**OPERATING STATUS**

1. Unit Name D. C. Cook Unit 1

2. Reporting Period Aug-03

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

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	5831.0	251279.0
12. No. of Hrs. Reactor Was Critical	744.0	4553.9	171902.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	744.0	4518.5	169207.4
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	2456177.7	14805919.8	505074994.4
17. Gross Elect. Energy Gen. (MWH)	776950.0	4765133.0	164007563.0
18. Net Elect. Energy Gen. (MWH)	750504.0	4605747.7	157880944.2
19. Unit Service Factor	100.0	77.5	67.8
20. Unit Availability Factor	100.0	77.5	67.8
21. Unit Capacity Factor (MDC Net)	100.9	79.0	64.3
22. Unit Capacity Factor (DER Net)	98.9	77.4	63.0
23. Unit Forced Outage Rate	0.0	22.5	19.3

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

Refueling outage currently scheduled for October 2003 with a planned duration of 33 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	05-Sep-03
COMPLETED BY	R. Harris
TELEPHONE	269-465-5901

MONTH      Aug-03

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
8/1/2003	1010	8/17/2003	1003
8/2/2003	1005	8/18/2003	1010
8/3/2003	1007	8/19/2003	1008
8/4/2003	1003	8/20/2003	1004
8/5/2003	1013	8/21/2003	1002
8/6/2003	1009	8/22/2003	1002
8/7/2003	1019	8/23/2003	1010
8/8/2003	1014	8/24/2003	1010
8/9/2003	1018	8/25/2003	1017
8/10/2003	1014	8/26/2003	995
8/11/2003	1009	8/27/2003	1015
8/12/2003	1016	8/28/2003	989
8/13/2003	1010	8/29/2003	1001
8/14/2003	1007	8/30/2003	1019
8/15/2003	1005	8/31/2003	1025
8/16/2003	1004		

DOCKET NO.	50 - 315
UNIT NAME	D.C. Cook Unit 1
DATE	September 5, 2003
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	1 of 1

### UNIT SHUTDOWNS AND POWER REDUCTIONS – August 2003

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

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

DOCKET NO. 50-316

DATE 9/5/2003

COMPLETED BY R. Harris

TELEPHONE 269-465-5901

**OPERATING STATUS**

1. Unit Name D. C. Cook Unit 2

2. Reporting Period Aug-03

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	5831.0	225425.0
12. No. of Hrs. Reactor Was Critical	368.1	3820.7	145388.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	354.9	3745.2	141485.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	1195294.7	12544766.0	443768463.2
17. Gross Elect. Energy Gen. (MWH)	375660.0	4092510.0	143866210.0
18. Net Elect. Energy Gen. (MWH)	363190.1	3963260.8	138716000.1
19. Unit Service Factor	47.7	64.2	63.4
20. Unit Availability Factor	47.7	64.2	63.4
21. Unit Capacity Factor (MDC Net)	46.1	64.1	59.2
22. Unit Capacity Factor (DER Net)	44.8	62.4	57.6
23. Unit Forced Outage Rate	52.3	20.4	23.7
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):

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

Forecast

Achieved

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

DOCKET NO. 50-316  
UNIT TWO  
DATE 5-Sep-03  
COMPLETED BY R. Harris  
TELEPHONE 269-465-5901

MONTH Aug-03

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
8/1/2003	1016	8/17/2003	0
8/2/2003	1070	8/18/2003	0
8/3/2003	1072	8/19/2003	0
8/4/2003	1055	8/20/2003	0
8/5/2003	1070	8/21/2003	0
8/6/2003	1072	8/22/2003	0
8/7/2003	1077	8/23/2003	0
8/8/2003	1086	8/24/2003	0
8/9/2003	1073	8/25/2003	0
8/10/2003	1071	8/26/2003	0
8/11/2003	1068	8/27/2003	0
8/12/2003	1070	8/28/2003	0
8/13/2003	189	8/29/2003	145
8/14/2003	0	8/30/2003	907
8/15/2003	0	8/31/2003	1091
8/16/2003	0		

DOCKET NO.	50 - 316
UNIT NAME	D.C. Cook Unit 2
DATE	September 5, 2003
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	1 of 1

### UNIT SHUTDOWNS AND POWER REDUCTIONS – August 2003

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
214	030813	F	389.1	A	1	N/A	N/A	N/A	Unit 2 was manually shut down due to a steam leak found on feedwater check valve 2-FW-118-2.

#### 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



DOCKET NO.	50 - 315
UNIT NAME	D.C. Cook Unit 1
DATE	September 9, 2003
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	1 of 1

### UNIT SHUTDOWNS AND POWER REDUCTIONS – February 2003

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
347	030115	F	98.6	A	3	315/2003-001	EL	XFMR	The unit was shutdown due to a fault and subsequent fire in the Unit 1 main transformer. The cause of the fault is under investigation. The main transformer has been replaced. Actions to prevent recurrence will be identified once the cause of the transformer fault is known.

<b>1 TYPE:</b> F: Forced S: Scheduled	<b>2 REASON:</b> 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)	<b>3 METHOD:</b> 1: Manual 2: Manual Scram 3: Automatic Scram 4: Other (Explain)	<b>4 SYSTEM:</b> Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)	<b>5 COMPONENT:</b> Exhibit I: Same Source
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DOCKET NO.	50 - 315
UNIT NAME	D.C. Cook Unit 1
DATE	September 8, 2003
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	1 of 1

### UNIT SHUTDOWNS AND POWER REDUCTIONS – May 2003

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
348	030424	F	661.6	H	2	315/2003-003	n/a	n/a	A large influx of alewives caused a high DP on the traveling screens. The unit was manually tripped due to degraded circulating water conditions.

<b>1 TYPE:</b> F: Forced S: Scheduled	<b>2 REASON:</b> 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)	<b>3 METHOD:</b> 1: Manual 2: Manual Scram 3: Automatic Scram 4: Other (Explain)	<b>4 SYSTEM:</b> Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)	<b>5 COMPONENT:</b> Exhibit I: Same Source
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DOCKET NO.	50 - 316
UNIT NAME	D.C. Cook Unit 2
DATE	September 8, 2003
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	1 of 1

### UNIT SHUTDOWNS AND POWER REDUCTIONS – February 2003

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
210	030205	F	213.2	A	3	316/2003-002	SJ	JX	Unit 2 turbine/reactor trip from 100% due to a dual failure of the 24 VDC power supplies in control group 3. The cause of the power supply failure is under investigation. The power supplies have been replaced and the unit was returned to service. Actions to prevent recurrence will be identified once the cause of the failure is known.
211	030214	F	8.0	A	4	n/a	n/a	n/a	The Unit 2 turbine was manually tripped due to a high-high level in the moisture separator drain Tank (MSDT). The MSDT alternate level control valve was repaired and the generator was synchronized to the grid on February 15, 2003 at 0302 hours (the reactor remained online while the generator was offline). The cause of the valve failure is under investigation.

<b>1 TYPE:</b> F: Forced S: Scheduled	<b>2 REASON:</b> 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)	<b>3 METHOD:</b> 1: Manual 2: Manual Scram 3: Automatic Scram 4: Other (Explain)	<b>4 SYSTEM:</b> Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)	<b>5 COMPONENT:</b> Exhibit I: Same Source
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DOCKET NO.	50 - 316
UNIT NAME	D.C. Cook Unit 2
DATE	September 8, 2003
COMPLETED BY	J. Newmiller
TELEPHONE	269-465-5901
PAGE	1 of 1

### UNIT SHUTDOWNS AND POWER REDUCTIONS – June 2003

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
213	030505	S	477.3	C	4	n/a	n/a	n/a	Scheduled refueling outage activities commenced while already shut down due to the fish intrusion event .

#### 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