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 BLIND,A.A. Indiana Michigan Power Co.  
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Jul 1991 for DC Cook Nuclear  
 Plant.W/910808 ltr.

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Indiana Michigan  
Power Company  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
616 465 5901



August 8, 1991

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant  
Unit 2 Technical Specification 6.9.1.10, the attached Monthly  
Operating Report for the month of July 1991 is submitted.

Respectfully,

A.A. Blind  
Plant Manager

Attachment

c: NRC Region III  
D.R. Hahn  
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S. Hamming  
J.G. Keppler  
INPO Records Center  
ANI Nuclear Engineering Department  
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# N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
DATE 1-AUG-91  
COMPLETED BY WT GILLET  
TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 2  
2. Reporting Period JULY 1991 notes  
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. If Any: See asterics (\*) below.

	This Mo.	Yr. to Date	Cumm.
11. Hours in Reporting Period	744.0	5087.0	119039.0
12. No. of Hrs. Reactor Was Critical	744.0	5034.7	80169.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	744.0	5029.4	78615.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2435150	16673495	242840548
17. Gross Elect. Energy Gen. (MWH)	734030	5364550	79151390
18. Net Elect. Energy Gen. (MWH)	706427	5178500	76237467
19. Unit Service Factor	100.0	98.9	67.4
20. Unit Availability Factor	100.0	98.9	67.4
21. Unit Capacity Factor (MDC Net)	89.6	96.0	61.7
22. Unit Capacity Factor (DER Net)	86.3	92.5	60.0
23. Unit Forced Outage Rate	0.0	1.1	12.9
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration): None			

25. If Shut Down At End of Report Period, Estimated Date of Startup:

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

Forecast Achieved

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

\* Item No. 5: Design Electrical Rating (DER) NET MWe has been changed effective July 1, 1991. This reduction is the result of the steam condenser tube replacements with stainless steel tubes, which cause a higher turbine exhaust pressure.

\* Item No. 7: Maximum dependable capacity (MDC) NET MWe, effective July 1, 1991, will be 1060 during May through October and 1090 during November through April.

These NET ratings and capabilities reflect historical data on generating capability due to changes in lake water temperature.

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316  
UNIT TWO  
DATE 01-AUG-91  
COMPLETED BY WT GILLET  
TELEPHONE 616-465-5901

MONTH JULY 1991

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	979	17	995
2	935	18	975
3	971	19	976
4	1015	20	971
5	966	21	964
6	664	22	932
7	642	23	927
8	954	24	934
9	963	25	932
10	961	26	968
11	990	27	961
12	994	28	965
13	990	29	977
14	997	30	993
15	980	31	986
16	980		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: July 1991

DOCKET NO: 50-316  
UNIT NAME: D.C. COOK UNIT 2  
DATE: August 8, 1991  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901

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
216	910706	S	0	B	N/A	N/A	HF	HTEXCH	Unit power was reduced to 55% starting 1409 hours on 910706 for cleaning of the main feedpump turbine condenser water boxes. Unit power was then increased to 75% and held at 75% for cleaning of the main condenser water boxes. Unit power was restored to 97% at 0100 hours on 910708.

<sup>1</sup>  
F: Forced  
S: Scheduled

<sup>2</sup>  
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)

<sup>3</sup>  
Method:  
1: Manual  
2: Manual Scram  
3: Automatic Scram  
4: Other (Explain)

<sup>4</sup>  
Exhibit G - Instructions  
for preparation of data  
entry sheets for Licensee  
Event Report (LER) File  
(NUREG 0161)

<sup>5</sup>  
Exhibit I: Same Source

DOCKET NO: 50-316  
UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: August 8, 1991  
PAGE: 1 of 1

MONTHLY OPERATING ACTIVITIES - July 1991

HIGHLIGHTS

The unit entered the reporting period at 100% RTP. Minor power adjustments were made beginning 910705 in order to maintain total heat discharged to Lake Michigan within NPDES permit limits. A unit power reduction commenced beginning 1409 hours on 910706 to allow cleaning of the main feedpump condenser water boxes and main condenser water boxes. The cleaning was completed and unit power was restored to 97% RTP at 0100 hours on 910708. Unit power levels ranged between 97% and 99% RTP from 910705 through the end of the reporting period. The unit exited the reporting period at 98.5% RTP.

Gross electrical generation for the month of July was 734030 MWH.

DETAILS

07/06/91	1409	Commenced unit power reduction to 55% RTP for main feedwater pump condenser water box cleaning.
	1710	The unit is at 55% RTP.
07/07/91	0700	Commenced unit power increase to 75% RTP.
	1100	The unit is at 75% RTP for main condenser water box cleaning.
07/08/91	0030	Commenced unit power increase to 97% RTP.
	0100	The unit is at 97% RTP.

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PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - July 1991

2-M-1 The West Component Cooling Water Heat Exchanger service water inlet shutoff valve, WMO-736, was leaking by. A new valve was installed.



