OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 12/31/81
COMPLETED BY A. Might
TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook Plant 2
2. Reporting Period: December, 1981
3. Licensed Thermal Power (MWt): 3391
4. Nameplate Rating (Gross MWe): 1133
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1118
7. Maximum Dependable Capacity (Net MWe): 1082
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	8,760	35,064
12. Number Of Hours Reactor Was Critical	744	6,279.9	24,025
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	6,181.4	23,221
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,517,865	20,441,187	74,060,821
17. Gross Electrical Energy Generated (MWH)	824,510	6,615,970	23,707,800
18. Net Electrical Energy Generated (MWH)	796,211	6,384,976	22,844,141
19. Unit Service Factor	100	70.6	71.3
20. Unit Availability Factor	100	70.6	71.3
21. Unit Capacity Factor (Using MDC Net)	98.9	67.4	66.6
22. Unit Capacity Factor (Using DER Net)	97.3	66.3	65.9
23. Unit Forced Outage Rate	0	10.6	14.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

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		

***Corrected Copy - 1-21-82

(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 12/31/81
COMPLETED BY A. Might
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14. Hours Generator On-Line	744	6,181.4	23,221
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,517,865	20,441,187	74,060,821
17. Gross Electrical Energy Generated (MWH)	824,510	7,440,480	23,707,800
18. Net Electrical Energy Generated (MWH)	796,211	7,181,187	22,844,141
19. Unit Service Factor	100	70.6	71.3
20. Unit Availability Factor	100	70.6	71.3
21. Unit Capacity Factor (Using MDC Net)	98.9	75.8	66.6
22. Unit Capacity Factor (Using DER Net)	97.3	74.5	65.9
23. Unit Forced Outage Rate	0	10.6	14.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

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		

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-316

UNIT 2

DATE 12/31/81

COMPLETED BY A. Might

TELEPHONE 616-465-5901

MONTH December, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1073	17	1063
2	1075	18	1075
3	1073	19	1076
4	1070	20	1076
5	1069	21	1074
6	1051	22	1070
7	1072	23	1070
8	1073	24	1071
9	1072	25	1071
10	1072	26	1064
11	1065	27	1069
12	1070	28	1071
13	1071	29	1072
14	1073	30	1063
15	1072	31	1071
16	1069		

INSTRUCTIONS

On this format list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December, 1981

DOCKET NO. 50-316
UNIT NAME D.C.Cook - Unit 2
DATE 1-14-82
COMPLETED BY B.A. Svensson
TELEPHONE (616) 465-5901
PAGE 1 of 1

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
None									There were no unit shutdowns or significant power reductions during the month. The unit operated at a capacity factor of 98.9% (Using MDC Net).

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & 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
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I - Same Source

(9/77)

Docket No.: 50-316
Unit Name: D. C. Cook Unit #2
Completed By: C. E. Murphy
Telephone: (616) 465-5901
Date: January 8, 1982

MONTHLY OPERATING ACTIVITIES - DECEMBER, 1981

Highlights:

The Unit entered this reporting period operating at 100% power and has operated through the entire period, except for those short periods of time as detailed in the Summary.

Total electrical generation for this month was 824,510 mwh.

Summary:

12-02-81 - The East and West Centrifugal Charging Pumps were inoperable, one at a time, for a 2 hour period each, for the purpose of changing oil.

12-04-81 - Reactor Power was reduced to 98% for a 2.5 hour period while the Main Turbine Valves were tested.

12-06-81 - Reactor Power was reduced to 90% for a 5.5 hour period due to the Axial Power Distribution Monitoring System (APDMS) being inoperable.

12-10-81 - The Auxiliary Building Fire Detection System was inoperable for a 27 hour period. A Fire Watch was established during this period.

12-11-81 - Reactor Power was reduced to 99% for a 3 hour period to test the Main Turbine Valves.

DOCKET NO.	50 - 316
UNIT NAME	D. C. Cook - Unit No. 2
DATE	1-14-82
COMPLETED BY	B. A. Svensson
TELEPHONE	(616) 465-5901
PAGE	1 of 2

MAJOR SAFETY-RELATED MAINTENANCE

DECEMBER, 1981

M-1 No. 4 steam generator power operated relief valve, MRV-243, had a body-to-bonnet leak. Replaced the piston ring and gaskets. Had valve tested.

M-2 Pressurizer heater molded case circuit breakers on motor control center PHA-2 would not function properly. Replaced and tested two circuit breakers.

C&I-1 WFA-902, nonessential service water flow for reactor coolant pump No. 2 motor air cooler failed to the high end of scale. The circuit board of the transmitter had failed. The transmitter was repaired and the transmitter calibration was performed. Upon returning the transmitter to service, the flow mismatch alarm cleared and normal indication returned.

C&I-2 Radiation monitoring channel R-11, containment atmosphere particulate, was periodically producing high alarms. The alarm would actuate, however, the drawer alarm would not seal in. The cause of the problem was traced to the bistable board. The board was replaced and the alarm dial calibration was performed.

C&I-3 The main power breaker for the flux mapping system tripped and could not be reset. The circuit breaker was restored to service by utilizing the opposite side of the breaker for switching.

C&I-4 The float control valve on the Unit 2 CD diesel generator jacket water surge tank would not function on a high level indication. The float was found filled with water due to several holes. The float was repaired and the assembly was installed. Normal operation of the control valve was verified.

C&I-5 QRV-251, charging flow control valve failed open. Upon investigation, it was discovered that the bridge amplifier in the Foxboro control module had failed. The bridge amplifier was replaced with a new one and calibrated for proper operation of the valve.

C&I-6 IFC-325, residual heat removal system west pump mini-flow control, would not operate correctly. The transmitter was recalibrated, filled and vented.

C&I-7 Low level alarms for accumulators No. 1 and No. 2 were received with normal control room indication. The instrument loops for ILA-110, ILA-111, ILA-120 and ILA-121 were tested and found to be within specifications. The auxiliary relays for the low alarms functioned intermittently. The relays were replaced with spares and correct operation was verified.

DOCKET NO.	50 - 316
UNIT NAME	D. C. Cook - Unit No. 2
DATE	1-14-82
COMPLETED BY	B. A. Svensson
TELEPHONE	(616) 465-5901
PAGE	2 of 2

MAJOR SAFETY-RELATED MAINTENANCE

DECEMBER, 1981

C&I-8 Reactor coolant pump No. 3 oil cooler discharge temperature indication was below the other pumps. The voltage to current converter calibration was tested and determined to be out of specification. The instrument was recalibrated and returned to normal service.

(13)

American Electric Power System
INDIANA & MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

January 14, 1982

Director, Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant Unit 2 Technical Specification 6.9.1.6, the attached Monthly Operating Report for the Month of December, 1981 is submitted.

Sincerely,

W. G. Smith, Jr.
Plant Manager

WGS:ab

Attachments

cc: R. S. Hunter
J. E. Dolan
R. W. Jurgensen
NRC Region III
E. R. Swanson
W. Lavallee (NSAC)
R. C. Callen
S. J. Mierzwa
R. F. Kroeger
H. L. Sobel
J. D. Huebner
J. M. Hennigan
A. F. Kozlowski
R. F. Hering
J. F. Stietzel
PNSRC File

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