

OPERATING DATA REPORT

DOCKET NO. 50-316
 DATE 12-3-81
 COMPLETED BY A. Might
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook Plant 2
2. Reporting Period: November 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	720	8,016	34,320
12. Number Of Hours Reactor Was Critical	720	5,535.9	23,281
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	720	5,437.4	22,477
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,435,848	17,923,322	71,542,956
17. Gross Electrical Energy Generated (MWH)	798,310	5,791,460	22,883,290
18. Net Electrical Energy Generated (MWE)	770,905	5,588,765	22,047,930
19. Unit Service Factor	100	67.8	70.6
20. Unit Availability Factor	100	67.8	70.6
21. Unit Capacity Factor (Using MDC Net)	99	64.4	65.8
22. Unit Capacity Factor (Using DER Net)	97.3	63.4	65.1
23. Unit Forced Outage Rate	0	11.8	14.6

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: _____

25. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-316

UNIT Unit #2

DATE 12-3-81

COMPLETED BY A. Night

TELEPHONE 616-465-5901

MONTH NOVEMBER 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1082</u>	17	<u>1071</u>
2	<u>1083</u>	18	<u>1069</u>
3	<u>1080</u>	19	<u>1072</u>
4	<u>1078</u>	20	<u>1075</u>
5	<u>1078</u>	21	<u>1070</u>
6	<u>1073</u>	22	<u>1072</u>
7	<u>1077</u>	23	<u>1072</u>
8	<u>1070</u>	24	<u>1070</u>
9	<u>1079</u>	25	<u>1068</u>
10	<u>1073</u>	26	<u>1067</u>
11	<u>1077</u>	27	<u>1024</u>
12	<u>1070</u>	28	<u>1058</u>
13	<u>1069</u>	29	<u>1064</u>
14	<u>1066</u>	30	<u>1071</u>
15	<u>1071</u>	31	<u>----</u>
16	<u>1072</u>		

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

DOCKET NO. 50-316
 UNIT NAME D.C. Cook-Unit 2
 DATE 12-11-81
 COMPLETED BY B. A. Svensson
 TELEPHONE 616/465-5901

REPORT MONTH November, 1981

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 with a Capacity Factor of 99.0% (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

Docket No.: 50-316
Unit Name: D. C. Cook Unit #2
Completed By: C. E. Murphy
Telephone: (616) 465-5901
Date: December 10, 1981
Page: 1 of

MONTHLY OPERATING ACTIVITIES - NOVEMBER, 1981

Highlights:

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

Total electrical generation for this month was 798,310 mwh.

SUMMARY:

11-03-81 "AB" Emergency Diesel was out of service for a 8 hour period for C & I technicians to inspect the control circuitry.

11-04-81 "AB" Emergency Diesel was again out of service for a 9 hour period while the technicians continued with the control circuitry check-out.

Containment isolation valve DCR-340 (#4 Steam Generator Blowdown Valve) was inoperable for 18 hours and again for 2.5 hours on November 5. A faulty solenoid was replaced and the valve operated satisfactorily.

The Containment Area Fire Detection Thermistor strings were inoperable for a 3 hour period due to a failure of the 12 volt power supply.

11-07-81 Reactor Power was reduced to 96% for periods of
11-13-81 3.5 hours to perform Turbine Valve Testing.

11-12-81 The East RHR Pump was inoperable for a 1.5 hour period for lubrication.

11-20-81 Reactor Power was reduced to 97% for a period of 2.5 hours to perform Turbine Valve Testing.

R-11 and R-12 (Containment Air Particulate and Radio Gas Detectors) were inoperable for a period of 12.5 hours due to a change being made to the 50 lb. Control Air Supply Header.

QCR-300 (Letdown Isolation Valve) was inoperable for a period of 2.5 hours when the 85 lb. air supply was accidentally cut. (Valve failed shut)

- 11-23-81 The East RHR Pump was inoperable for a 10.5 hour period due to high discharge flow on an ISI Test.
- 11-24-81 MRV-222 (No. 2 Steam Generator Stop Valve Dump Valve) was out of service for 4 hours due to repair leaks. This was again removed from service for 15 minutes the same day for restroking.
- 11-27-81 Reactor Power was reduced to 96% for a period of 4.5 hours due to high differential on the traveling screens.
- Reactor Power was reduced to 85% for a period of 7.25 hours again due to the lake conditions creating traveling screen problems. Turbine Valve Testing was performed during this period.
- 11-28-81 MRV-242 (No. 4 Steam Generator Stop Valve Dump Valve) was out of service for 4 hours to repair leaks.

DOCKET NO.	<u>50-316</u>
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DATE	<u>12-14-81</u>
COMPLETED BY	<u>B. A. Svensson</u>
TELEPHONE	<u>(616) 465-5901</u>
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MAJOR SAFETY-RELATED MAINTENANCE

NOVEMBER, 1981

- M-1 DCR-340, #4 S/G blowdown containment isolation valve, would not close in the allowable time. Replaced valve stem and gaskets. Repacked valve and had it tested.
- M-2 #4 steam generator stop valve dump valve, MRV-242, was leaking by. Replaced the seat ring, stem and disc. Reassembled with new gaskets and the valve was stroked and tested.
- M-3 #2 steam generator stop valve dump valve, MRV-222, was leaking by. Replaced the valve internals and reassembled with new gaskets. The valve was stroked and tested.
- C&I-1 IFI-310 the East residual heat removal system low range flow, indicated 400 gpm during a zero flow condition. The bellows were refilled and the transmitter was returned to normal service. Correct indication of the transmitter was verified.
- C&I-2 QTI-040 Reactor Coolant Pump No. 4, No. 1 seal leak off temperature indication, was indicating low. The resistance to current converter required calibration. The associated alarm module TB-167, No. 1 seal outlet temperature high was also recalibrated.
- C&I-3 The Flux Mapping System "F" detector drive would not function as required. The channels comparator board was replaced and a function test to demonstrate operability was performed.
- C&I-4 One of the Containment Fire Detection System 12 volt power supplies was found failed. A spare power supply was installed and normal operation was verified.
- C&I-5 MFC-131 Steam Generator No. 3 main steam flow protection channel 1, failed to the low end of scale. The associated bistables were placed in the trip mode. The problem was investigated and found to be in the sensing lines to the transmitter. The sensing lines were blown down and the indication returned to the correct value. The associated bistables were returned to normal.
- C&I-6 The annunciator and status light for turbine valve closed, was received with the valve open. The cause was traced to the switch on Stop Valve D. The proximity limit switch on Stop Valve D was replaced with a spare. The failure of the switch was attributed to vibration.

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MAJOR SAFETY-RELATED MAINTENANCE

NOVEMBER, 1981

C&I-7

DCR-340 Containment Isolation Valve for Steam Generator #4 blowdown, open indication would remain illuminated with the valve in the closed position. The operation of DCR-340 was tested and found to be slow in response. The valve was re-worked and the actuation solenoid was replaced due to air leakage. The limit switches were adjusted to provide correct indication and proper stroke time was verified.

C&I-8

During the performance of 2 THP-4030 STP.114 Pressurizer Pressure Protection Set IV, bistable PB-456E was found to have drifted high. The bistables setpoint was monitored and was found to have drifted again. Investigation into the problem identified a loose termination as the cause of the problem. The termination was tightened and the bistable maintained the correct setpoint.