

OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 4-2-81  
 COMPLETED BY W. T. Gillett  
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook 2  
 2. Reporting Period: March 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	2,160	28,464
12. Number Of Hours Reactor Was Critical	312.1	1,728.1	19,470.2
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	312.1	1,728.1	18,767.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,053,877	*5,833,391	*59,453,025
17. Gross Electrical Energy Generated (MWH)	343,400	1,897,710	18,989,540
18. Net Electrical Energy Generated (MWH)	331,911	1,833,871	18,293,036
19. Unit Service Factor	41.9	80.0	72.3
20. Unit Availability Factor	41.9	80.0	72.3
21. Unit Capacity Factor (Using MDC Net)	41.2	78.5	67.4
22. Unit Capacity Factor (Using DER Net)	40.6	77.2	66.8
23. Unit Forced Outage Rate	0	0	14.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Refueling Outage started 3-14-81 will end 5-8-81

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	_____	_____

\* + 2,457 MWT error in Feb. Report

(4/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-316

UNIT 2

DATE 4-2-81

COMPLETED BY W. T. Gillett

TELEPHONE 616-465-5901

MONTH March 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1060</u>	17	<u>---</u>
2	<u>1069</u>	18	<u>---</u>
3	<u>1069</u>	19	<u>---</u>
4	<u>1069</u>	20	<u>---</u>
5	<u>1069</u>	21	<u>---</u>
6	<u>1063</u>	22	<u>---</u>
7	<u>1061</u>	23	<u>---</u>
8	<u>1068</u>	24	<u>---</u>
9	<u>1070</u>	25	<u>---</u>
10	<u>1067</u>	26	<u>---</u>
11	<u>1067</u>	27	<u>---</u>
12	<u>1067</u>	28	<u>---</u>
13	<u>1031</u>	29	<u>---</u>
14	<u>----</u>	30	<u>---</u>
15	<u>----</u>	31	<u>---</u>
16	<u>----</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

REPORT MONTH March, 1981

DOCKET NO. 50-316  
 UNIT NAME D.C. Cook - Unit 2  
 DATE 4-9-81  
 COMPLETED BY B.A. Svensson  
 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 #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
93	810314	S	431.9	B&C	1	N.A.	ZZ	ZZZZZZ	The unit was removed from service at 0006 hours on 800314 for scheduled Cycle II - III refueling outage. The estimated outage time is 55 days.

<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 & 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: C. E. Murphy  
Telephone: (616) 465-5901  
Date: April 10, 1981  
Page: 1 of 1

MONTHLY OPERATING EXPERIENCES -- MARCH, 1981

HIGHLIGHTS:

The Unit operated at 100% power until 2200 on March 13, 1981 when power reduction was started to go to Cold Shutdown for Refueling, Maintenance, and Modifications. The Unit had been on line for 88 days, 21 hours and 35 minutes.

The Unit Outage is scheduled for a duration of 55 days.

Total electrical generation for the month was 343,400 mwh.

SUMMARY

- 03/01/81 The East ESW Pump was inoperable for a 0.5 hour period due to a Strainer Gate not being aligned to the same strainer basket. This occurred during the Automatic Cleaning Sequence.
- 03/04/81 The High Demand Fire Pump was inoperable for a 7.5 hour period for lubrication.
- 03/11/81 Radiation Monitor (Air Ejectors) was inoperable for a 7.5 hour period for Calibration.
- 03/13/81 At 2200, the Unit was released for shutdown.
- 03/14/81 At 0510, the Unit entered Mode 4 (Hot Shutdown).
- 03/15/81 At 1240, the Unit entered Mode 5 (Cold Shutdown). At 2227, the "CD" Diesel became inoperable due to a broken line on the starting Air Check Valve on the rear bank #4 cylinder. This diesel returned to operable at 1245 on 04/07/81 after extensive repairs by the Maintenance Department.
- 03/25/81 At 0100, the Unit entered Mode 6 (Refueling).
- 03/31/81 At 1643, a Safety Injection Actuation occurred on this Unit. The cause of the Actuation was determined to be caused by a Surveillance Test which was being performed on the Pressurizer Pressure Channels. AB Diesel started satisfactorily and there was no injection to the R.C. System due to Clearance on the pumps. The Test procedure has been corrected to prevent future reoccurrences.

DOCKET NO.	50 - 316
UNIT NAME	<u>D. C. Cook - Unit No. 2</u>
DATE	4-10-81
COMPLETED BY	B. A. Svensson
TELEPHONE	(616) 465-5901
PAGE	<u>1 of 2</u>

MAJOR SAFETY-RELATED MAINTENANCE

MARCH, 1981

- M-1 The south safety injection pump discharge drain valve, SI-109S, was found leaking by during inspection. The 3/4" valve had a cracked seat. The valve was removed and a new valve was welded in. All NDE requirements were met.
- M-2 The suction valve for the north safety injection pump, SI-103N, had a body to bonnet leak. Replaced the bonnet gasket.
- M-3 Steam generator power operated relief valve, MRV-243, had a body to bonnet leak. Replaced the bonnet and cage gaskets. Had the valve tested.
- M-4 Suction valve for CD diesel auxiliary jacket water pump, DG-150C, had a damaged stem. The valve was replaced.
- M-5 Non-essential service water containment isolation valves; WCR-909, WCR-929, WCR-931, WCR-948, WCR-951, WCR-952 and WCR-958 failed to pass the type C leak rate test. Cleaned the valve internals, lapped the seat and replaced gaskets. Valves retested satisfactorily.
- M-6 A crack was discovered in a 2 inch safety valve inlet line on the outlet of the west RHR heat exchanger. The crack was in a socket welded connection. The line was removed and a new nipple and flange for the safety valve were welded in. All necessary NDE was performed and the welds were hydrostatic tested.
- M-7 Component cooling water containment isolation check valves, CCW-243-25 and CCW-244-25, failed to pass the type C leak rate test. Replaced the valve seats and had valves retested.
- M-8 Refueling cavity drain line containment isolation valve, SF-159, failed to pass the type C leak rate test. Replaced the valve diaphragm and had the valve retested.
- M-9 Component cooling water containment isolation valves, CCM-431 and 432, failed to pass the type C leak rate test. Disassembled the valves, cleaned the internals and lapped the seat. Reassembled the valves and had them retested.
- M-10 Non-essential service water containment isolation valve, NSW-419-1, failed to pass the type C leak rate test. Disassembled valve, cleaned the internals, reassembled, and had it retested.

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MAJOR SAFETY-RELATED MAINTENANCE

MARCH, 1981

- M-11 The root valve for No. 4 main steam line pressure instrument, MPP-241, had seized in the open position. Replaced the valve bonnet.
- M-12 Non-essential service water containment isolation check valves failed to pass the type C leak rate test. Disassembled and cleaned valve internals, lapped seats, reassembled with new gaskets and had valves retested.
- M-13 Non-essential service water containment isolation check valve, NSW-415-1, failed to pass the type C leak rate test. Disassembled and cleaned valve internals. Replaced the disc, reassembled with new gaskets and had the valve retested.
- C&I-1 Control Rod Position Indication for Rods H6 and C7 indicated greater than demand. The voltages associated with the two RPI channels were measured and verified the rods' position. The signal conditioning modules were adjusted to provide proper indication.
- C&I-2 The two east essential service water pump strainer gates had aligned to different baskets while the pump was not in service. Agastat time relay, 62X SEST, did not operate with a time delay which resulted in the strainer switching over only part of the time. The time delay relay was replaced. The 24-hour timer was jumpered to simulate a changeover and verify correct operation.
- C&I-3 The auxiliary feedwater flow retention for motor operated auxiliary feedwater regulating valve, FMO-242, did not function. Flow switch, FFS-245, was tested and found to be out of calibration. FFS-245 was recalibrated and returned to service. A functional test was performed and verified correct operation.