AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-316
UNIT 2
DATE 9-5-79
COMPLETED BY W.T. Gillett
TELEPHONE 616-465-5901

MONTH August 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1044	17	1043
2	1042	18	1047
3	1021	19	1043
4	1028	20	1044
5	1029	21	1044
6	1028	22	1044
7	1017	23	1034
8	1012	24	1040
9	1023	25	1038
10	1028	26	1034
11	1057	27	1028
12	1067	28	1033
13	1040	29	1040
14	1047	30	1039
15	1050	31	1037
16	1046		

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.

(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 9-5-79
COMPLETED BY W.T.Gillett
TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook 2
2. Reporting Period: August 1979
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	5,831	14,591
12. Number Of Hours Reactor Was Critical	744	4,695.3	9,926.0
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	4,626.0	9,353.6
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,513,690	15,330,201	28,435,308
17. Gross Electrical Energy Generated (MWH)	799,950	4,957,240	8,942,770
18. Net Electrical Energy Generated (MWH)	771,924	4,784,989	8,598,988
19. Unit Service Factor	100	79.3	78.4
20. Unit Availability Factor	100	79.3	78.4
21. Unit Capacity Factor (Using MDC Net)	95.9	75.8	71.3
22. Unit Capacity Factor (Using DER Net)	94.3	74.6	70.1
23. Unit Forced Outage Rate	0	20.6	15.3

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)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August, 1979

DOCKET NO. 50-316
UNIT NAME D. C. Cook - Unit 2
DATE 9-14-79
COMPLETED BY B. A. Svensson
TELEPHONE (616) 465-5901

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
									There were no unit shutdowns or power reductions. The unit operated at essentially 100% reactor power for the eh ire month.

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: R. S. Lease
Telephone: (616) 465-5901
Date: September 6, 1979

MONTHLY OPERATING EXPERIENCES -- AUGUST, 1979

Highlights

The Unit operated at 100% power the entire month except as noted in the summary.

Total electrical generation for the month was 799,950 Mwh.

Summary

08/03/79 -- Loop 1 Overtemperature and Overpressure ΔT Protection was placed in the "trip" mode due to a low flow alarm on Loop #1 RTD Bypass. Trouble was located in the alarm rather than low flow. The alarm was repaired and the instrumentation was removed from the "trip" mode. Total time in trip mode was 7 hours.

The North half of "B" Condenser was out of service for a 9.5 hour period for checking of tube leaks. No leaks were located.

08/05/79 -- Control Rods became inoperable in the "Automatic" mode due to an urgent failure alarm. The rods were still capable of being driven manually. Repairs were made and the automatic feature became operable 8/6/79.

08/06/79 -- The South half of "C" Condenser was out of service for a 3.5 hour period for checking of tube leaks. No leaks were located.

08/07/79 -- The South half of "C" Condenser was out of service for an 8.5 hour period for checking of tube leaks. No leaks were located.

The North half of "C" Condenser was out of service for a 1.5 hour period for checking of tube leaks. No leaks were located.

The #1 seal leakoff flow to Reactor Coolant Pump #23 has been fluctuating since the last unit start-up. This flow varied from a low of 1 gpm to as high as

08/07/79 -- (Cont'd) 5.5 gpm. The flow went to full scale on the recording chart (6 gpm). The flowmeter was bypassed reducing indicated flow to 3 gpm. Since then the indicated flow has varied from a high of 3.4 gpm to a low of 2.7 gpm with an estimated 3 gpm through the bypass. This leakoff flow is being carefully observed.

08/08/79 -- The South half of "B" Condenser was out of service for a 1 hour period for a leak test.

The North half of "B" Condenser was out of service for a 1 hour period for a leak test.

The South half of "A" Condenser was out of service for a 9 hour period for checking of tube leaks. No leaks were located.

08/13/79 -- The North half of "B" Condenser was out of service for a 7 hour period to plug leaking tubes.

The North half of "A" Condenser was out of service for 6 hours to plug leaking tubes.

08/20/79 -- The low level alarm #23 RCP motor upper oil reservoir annunciated. The oil level in the sight glass of this reservoir is being monitored by closed circuit television and the bearing temperatures are being trended on the computer.

08/23/79 -- The North half of "A" Condenser was out of service for a 5.75 hour period for plugging of tube leaks.

08/24/79 -- Generator loading suddenly dropped and recovered approximately 250 Mw while testing Turbine valves. The "C" Main Stop and Control Valve was being tested. The test sequence is for the control valve to close first and then the stop valve. As the control valve started to close, the stop valve immediately closed causing the load spike. The test circuit for this set of valves was thoroughly checked but no problem was found. A subsequent test of these valves on 8/25/79 was normal.

08/27/79 -- The North half of "A" Condenser was out of service for a 5.5 hour period for plugging of tube leaks.

08/28/79 -- The North half of "C" Condenser was out of service for a 6.5 hour period for checking of tube leaks. No leaks were located.

DOCKET NO. 50-316
UNIT NAME D. C. Cook - Unit No. 2
DATE 9-14-79
COMPLETED BY B. A. Svensson
TELEPHONE (616) 465-5901

MAJOR SAFETY-RELATED MAINTENANCE

AUGUST, 1979

M-1 2E essential service water pump discharge strainer misaligned. Backwash valve retainer nut tightened and staked. Operation is satisfactory.

M-2 No. 1 steam generator blowdown containment isolation valve, DCR-310 closed for no apparent reason. A hole was discovered in the diaphragm of the valve operator. Replaced the diaphragm and had valve retested.

C&I-1 QRV-422, primary water to the boric acid blender, failed closed. A capacitor in the controller failed and was replaced with a spare capacitor. The controller calibration was performed and operationally tested.

C&I-2 The loop #1 RTD Bypass Return Flow Low Alarm was received in the control room. The associated bistables were placed into the trip mode during the investigation of the problem. A ground condition was identified in the pull box located near the indicating alarm switch NFA-210. The ground was cleared and the bistables returned to normal.

C&I-3 The Fire Protection actuation alarm on 2 HV-AES-1 was received in the control room. Water was found in the manual actuation switch box. The switch box was dried and a small drain hole in the bottom of the box was added to prevent future water accumulations. The source of the water could not be determined.

C&I-4 The limit switch on the main turbine control valve A was indicating arcing of the contacts. The burned contacts were replaced and the switch operation verified.

C&I-5 Main Turbine Stop Valve A would not operate during weekly surveillance testing. After repairing a broken wire in the limit switch the valve was tested satisfactorily.

C&I-6 Pressure channels 1 and 2 of loop 2 steam generators differed by 30 psi. Pressure channels 1 and 4 of loop 4 steam generator differed by 30 psi. In both cases, the 28 psi differential notification limit was exceeded. Outputs of all loop 2 transmitters were checked and were found to be within 15 psi. Indicators were then calibrated. Outputs of all loop 4 transmitters were checked and were found to be within 7 psi. Channel 1 indicator and current repeater were calibrated.