OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 9-2-81
COMPLETED BY M.A. Might
TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook 2
2. Reporting Period: August 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): 1082
7. Maximum Dependable Capacity (Net MWe):

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

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	32,135
12. Number Of Hours Reactor Was Critical	711.1	3,992.6	21,737.7
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	704.7	3,899.8	20,939.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,338,703	12,771,976	66,391,610
17. Gross Electrical Energy Generated (MWH)	738,550	4,126,220	21,218,050
18. Net Electrical Energy Generated (MWH)	712,145	3,981,402	20,440,567
19. Unit Service Factor	94.7	66.9	70.6
20. Unit Availability Factor	94.7	66.9	70.6
21. Unit Capacity Factor (Using MDC Net)	88.5	63.1	65.7
22. Unit Capacity Factor (Using DER Net)	87.0	62.1	65.0
23. Unit Forced Outage Rate	5.3	2.1	13.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Maintenance shutdown scheduled for October, 1981 for two weeks.

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 9-2-81

COMPLETED BY Ann Might

TELEPHONE 616-465-5901

MONTH August 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1033	17	1043
2	1033	18	1048
3	1032	19	1058
4	1033	20	1055
5	1035	21	1038
6	1039	22	1037
7	204	23	1079
8	4	24	993
9	829	25	1031
10	1026	26	1032
11	1028	27	1030
12	1027	28	1021
13	1027	29	1019
14	987	30	1028
15	755	31	1027
16	1037		

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 August, 1981

DOCKET NO. 50-316
UNIT NAME D.C.Cook - Unit 2
DATE 9-14-81
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
100	810807	F	39.3	A	1	81-041/03L-0	CB	VALVEX	Removed unit from service due to RCS unidentified leak rate exceeding the Technical Specification allowed leak rate of 1 gpm (1.49 gpm). Leak was found to be a packing leak on Loop 1 RTD By-pass Valve No. RC-108L1. Valve was repacked and leak rate was below 1 gpm. Unit was returned to service on 810808 and 100% power reached on 810809.
101	810814	F	0	H	4	81-039/01T-0	EB	SUPORT	Power reduced from 100% power to 60% due to an engineering review indicating that the safety-related 4KV power busses had not been adequately supported for their seismic class. 60% power was reached at 0245 hours on 810815. At 0947 the seismic supports were temporarily repaired and power increase to 100% started. 100% power was reached at 1937 on 810815.

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: D. R. Campbell
Telephone: (616) 465-5901
Date: September 14, 1981
Page: 1 of 1

MONTHLY OPERATING ACTIVITIES - AUGUST, 1981

Highlights:

The Unit entered this reporting period at 100% reactor power.

On August 7, 1981 the Unit was shutdown to repair a packing leak on a RTD manifold isolation valve, when the RCS leak rate was calculated to be 1.49 GPM, tripped turbine generator at 0556 hour.

The Unit was reparalleled at 2113, August 7, 1981 and brought back to 100% reactor power by 1430 hours, August 9, 1981.

Power was reduced on August 14, 1981 to 60% reactor power, when it was determined that the emergency bus breaker cabinets were not seismically adequate. Repairs were made and the Unit brought back to 100% power by 1937 hours, August 15, 1981.

The Unit was at essentially 100% power for the remainder of the reporting period.

Generation:

738,550 MWH.

DOCKET NO. 50 - 316
UNIT NAME D. C. Cook - Unit No. 2
DATE 9-14-81
COMPLETED BY B. A. Svensson
TELEPHONE (616) 465-5901
PAGE 1 of 2

MAJOR SAFETY-RELATED MAINTENANCE

AUGUST, 1981

M-1 Reactor coolant loop No. 1 RTD bypass loop valve, RC-108L1 had a packing leak. Repacked the valve with grafoil packing.

M-2 The interlocks for the inner door of the 612' elevation airlock did not work. Reinstalled interlock helper spring and tested.

M-3 The north safety injection pump mechanical seal heat exchanger was leaking. Replaced the line from the heat exchanger to the seal and all of the fittings.

M-4 The tapered pins on 2AB and 2CD diesel fuel rack assembly at the bell crank shaft were worn and bent. Replaced the tapered pins and retested the engines.

M-5 No. 3 boric acid transfer pump was leaking. Replaced the mechanical seal, gasket and frame adapter. Reset impeller clearance and had pump tested.

C&I-1 All control rods and shut-down rods with the exception of Banks C&D would not move in or out. When the rod control alarm reset pushbutton was depressed, the "Urgent Failure Alarm" was received. It was then noticed that Group 1 and Group 2 rods of control bank D were out of step by one step. Manual stepping of the master cycler brought control bank D rods back into synchronism. The rods were tested and surveillance test was performed to verify correct rod movement.

C&I-2 Containment Air Particulate Monitor R-11, filter paper no-motion alarm was received every half hour for several minutes duration. The filter paper slow-motion drive motor had seized, disrupting proper movement. Replacement of the motor corrected the problem.

C&I-3 Source Range Nuclear Instrumentation Channel, N-31 was giving erroneous readings. Investigation disclosed that triaxial cable connectors on the NI electronics drawer in the control room were faulty. One cable sends high voltage to the N-31 detector preamplifier, and the other cable returns a signal to the electronics drawer. The two connectors were cleaned and N-31 readings returned to normal.

C&I-4 With all power range nuclear instrumentation channels in agreement within ½%, the channel deviation light on the NI drawer was intermittently flashing. Annunciator 10, channel deviation was not received. Comparators for Channels N41, N42, N43 and N44 were found to be in calibration specifications. Relay NC 46BX on the annunciator was defective and was replaced. The system was verified to be functioning correctly by decreasing N41 power by 2% and noting that the deviation alarm was received.

DOCKET NO. 50 - 316
UNIT NAME D. C. Cook - Unit No. 2
DATE 9-14-81
COMPLETED BY B. A. Svensson
TELEPHONE (616) 465-5901
PAGE 2 of 2

MAJOR SAFETY-RELATED MAINTENANCE

AUGUST, 1981

C&I-5 Radiation Monitor R-15 for the steam jet ejector failed due to a defective test/calibrate circuit board. A replacement board was installed and the electronics drawer was calibrated to restore R-15 to operability.

C&I-6 Control Bank Rod D4, rod position indication displayed 215 steps with the digital demand counter at 202. The RPI channels primary and secondary voltages were measured and recorded. The CRDM ventilation discharge temperature was displayed by the P150 as 179.5^{o}F. The signal conditioning module was calibrated to provide the correct output.