

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-315

UNIT 1

DATE W.T. Gillett

COMPLETED BY 616-465-5901

TELEPHONE _____

MONTH January 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>498</u>
2	<u>792</u>
3	<u>939</u>
4	<u>931</u>
5	<u>936</u>
6	<u>922</u>
7	<u>927</u>
8	<u>966</u>
9	<u>987</u>
10	<u>1001</u>
11	<u>1043</u>
12	<u>1025</u>
13	<u>1040</u>
14	<u>1037</u>
15	<u>1040</u>
16	<u>1041</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1040</u>
18	<u>1041</u>
19	<u>1040</u>
20	<u>1041</u>
21	<u>1042</u>
22	<u>1041</u>
23	<u>1039</u>
24	<u>1041</u>
25	<u>1040</u>
26	<u>1040</u>
27	<u>1025</u>
28	<u>1041</u>
29	<u>1034</u>
30	<u>1040</u>
31	<u>1041</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.

(9/77)

790 2220 046

OPERATING DATA REPORT

DOCKET NO. 50-315
 DATE 2-2-79
 COMPLETED BY W.T. Gillett
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook 1
2. Reporting Period: January 1979
3. Licensed Thermal Power (MWt): 3250
4. Nameplate Rating (Gross MWe): 1089
5. Design Electrical Rating (Net MWe): 1054
6. Maximum Dependable Capacity (Gross MWe): 1080
7. Maximum Dependable Capacity (Net MWe): 1044
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	<u>744</u>	<u>744</u>	<u>35,808.0</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>744</u>	<u>27,955.7</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>463</u>
14. Hours Generator On-Line	<u>744</u>	<u>744</u>	<u>27,157.3</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>321</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,299,406</u>	<u>2,299,406</u>	<u>73,637,197</u>
17. Gross Electrical Energy Generated (MWH)	<u>764,100</u>	<u>764,100</u>	<u>24,053,760</u>
18. Net Electrical Energy Generated (MWH)	<u>736,996</u>	<u>736,996</u>	<u>23,074,173</u>
19. Unit Service Factor	<u>100</u>	<u>100</u>	<u>78.8</u>
20. Unit Availability Factor	<u>100</u>	<u>100</u>	<u>78.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>94.9</u>	<u>94.9</u>	<u>69.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>94.0</u>	<u>94.0</u>	<u>65.1</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>6.0</u>
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	_____	_____

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1979

DOCKET NO. 50-315
 UNIT NAME D.C. Cook-Unit 1
 DATE 2-12-79
 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
									The Unit entered the reporting period operating at 50% power. Reactor power was increased to 90% 790102 and held at this power level due to one circulating water pump being out of service. Reactor power was at 100% 790112. The Unit operated for the remainder of the month with no significant power reductions.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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 1: 50-315
Unit Name: D. C. Cook Unit #1
Completed By: R. S. Lease
Telephone: (616) 465-5901
Date: February 8, 1979

OPERATING EXPERIENCE -- JANUARY, 1979

Highlights

This Unit entered the reporting period operating at 50% Power. Loading was being held at 50% Power (525 MWe) due to high inventory of waste gas in the plant. Weather instrumentation was frozen at this time not allowing any release of waste gas. Loading was increased to 90% January 2, 1979 and held and maintained between this and 100% power the rest of the reporting period.

Summary

- 01/02/79 -- Waste Gas Inventory was rearranged and the weather instrumentation freed up allowing the release of two gas decay tanks. The Unit was loaded to 90% power (980 MWe) by 2020 hours. Loading was held at this point due to approaching maximum temperature rise across the Condenser while only having two Circulating Water Pumps.
- 01/06/79 -- The Turbine Driven Auxiliary Feedwater Pump was inoperable for a 16 hour period to replace the Governor. A water leak had developed in the Governor oil cooler.
- 01/08/79 -- Unit loading was increased to 95% power (1030 MWe) by 1016 hours.
- 01/10/79 -- #2 Steam Generator Stop Valve Trip Valve MRV-221 was inoperable for a 3 hour period to replace leaking gaskets.
- 01/11/79 -- #3 Steam Generator Stop Valve Trip Valve MRV-232 was inoperable for a 3 hour period to replace leaking gaskets.
- 01/12/79 -- Discharge Valve of the #12 Circulating Water Pump WMO-12 was repaired and the valve opened allowing use of this pump. Power was increased to 100% (1080 MWe) by 1826 hours.
- #4 Steam Generator Stop Valve Trip Valve MRV-242 was inoperable for a 2.75 hour period to replace leaking gaskets.

Docket No. 50-315
Unit Name: D. C. Cook Unit #1
Completed By: R. S. Lease
Telephone: (616) 465-5901
Date: February 8, 1979
Page: (2)

01/12/79 -- #2 Steam Generator Stop Valve Trip Valve MRV-221 was
(cont) inoperable for a 1 hour period to adjust a limit
switch and repair an air leak.

Loading was reduced to 95% power (1030 MWe) for a
6 hour period for a Moderator Coefficient Test and
then returned to 100% power.

01/17/79 -- The West RHR Train was inoperable for a 6 hour period
to repack Valve RH-128W.

01/18/79 -- Radiation Monitor R-11 was inoperable for a 5 hour
period for repairs to the paper drive.

01/22/79 -- The West Component Cooling Water Pump had difficulty
meeting the requirements for minimum discharge pressure. The suction strainer was checked and found to
contain resin beads and some pieces of rubber. The
strainer was removed and the pump retested satisfactorily.

01/26/79 -- Power was reduced to 85% (890 MWe) for testing of
Turbine valves. Time span from unloading back to
100% power was two hours.

The "AB" Emergency Diesel Generator was inoperable
for a 7.75 hour period for changing of lubricating
oil in the Governor and the Turbo Charger.

Replacement of the North Condensate Booster Pump
motor was started and was completed January 28, 1979.

01/29/79 -- The North half of "A" Condenser was out of service
for 10.5 hours for location and plugging of leaking
tubes.

Annual inspection and overhaul of the plant air
compressor was started and this job was completed
Thursday, February 1, 1979.

01/30/79 -- The East Centrifugal Charging Pump was inoperable
for a 21.5 hour period for replacement of a mechanical seal and cleaning of the lube oil filter.

All motor operated Auxiliary Feedwater Valves were removed from
service, one at a time, for inspection of electrical connections
and checking of tightness of terminals.

One of the Pressurizer Safety Valves is leaking through at the
rate of 2 GPM. The water in the Pressurizer Relief Tank is
being kept cool by the feed and bleed method. This is adding
to evaporator requirements.

DOCKET NO.	50 - 315
UNIT NAME	D. C. Cook - Unit No. 1
DATE	2-12-79
COMPLETED BY	B. A. Svensson
TELEPHONE	(616) 465-5901

MAJOR SAFETY-RELATED MAINTENANCE

JANUARY, 1979

- M-1 CVCS holdup tank three-way valve, QRV-303, was stuck. Disassembled valve and found the cage galled. Replaced cage, reassembled valve and verified operability.
- M-2 The oil in Unit 1 turbine driven aux. feed pump turbine governor appeared to have water in it. The governor was replaced and the turbine rechecked satisfactorily.
- M-3 MRV-221, #2 steam generator stop valve dump valve was leaking by. The valve was disassembled, seat checked, and new gaskets installed. Timed retest was satisfactory.
- M-4 MRV-232, #3 steam generator stop valve dump valve was leaking by. Valve gaskets were replaced. Timed retest was satisfactory.
- M-5 Inlet pipe to normal blowdown flash tank was leaking. Replaced section of pipe downstream of inlet orifice. Radiography and hydrostatic testing was successfully completed.
- M-6 No. 4 steam generator stop valve dump valve, MRV-242 was leaking by. Disassembled valve, cleaned internals, replaced seat and gaskets. Timed retest was satisfactory.
- C&I-1 The scan sequencer of the axial power distribution monitoring system failed. The sequencer 1 printed circuit board was repaired. An operational test was performed and verified the systems operability.
- C&I-2 The rod position indication for control rod F-6 was out of specifications. The position signal for rod F-6 was measured and recorded as 2.885 vdc. The secondary coil voltage was verified and the calibration of the signal conditioning module was performed.
- C&I-3 The axial power distribution monitoring system failed to perform the eight hour scan. The time sequencer digital display also failed. The timer sequencer printed circuit board required replacement.
- C&I-4 The panel rod position indication for control rod F-6 was out of specifications. The LVDT secondary coil voltage was measured and verified correct. The signal conditioning modules output signal was recorded as 2.885 vdc. The modules calibration was performed and the output voltage measured 3.425 vdc corresponding to a position of 228 steps.

