

# OPERATING DATA REPORT

DOCKET NO. 50-315  
 DATE 11-2-83  
 COMPLETED BY Ann Micht  
 TELEPHONE (616) 465-5901

## OPERATING STATUS

1. Unit Name: Donald C. Cook 1
2. Reporting Period: October 1983
3. Licensed Thermal Power (MWt): 3250
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1030
6. Maximum Dependable Capacity (Gross MWe): 1056
7. Maximum Dependable Capacity (Net MWe): 1020
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	745	7296	77,424
12. Number Of Hours Reactor Was Critical	268	4887.3	56,768.9
13. Reactor Reserve Shutdown Hours	0	0	463
14. Hours Generator On-Line	186.3	4797.1	55,510.0
15. Unit Reserve Shutdown Hours	0	0	321
16. Gross Thermal Energy Generated (MWH)	323,110	14,565,227	161,867,787
17. Gross Electrical Energy Generated (MWH)	100,463	4,769,670	53,205,720
18. Net Electrical Energy Generated (MWE)	93,933	4,595,917	51,189,418
19. Unit Service Factor	25.0	65.7	73.6
20. Unit Availability Factor	25.0	65.7	73.6
21. Unit Capacity Factor (Using MDC Net)	12.4	60.7	66.6
22. Unit Capacity Factor (Using DER Net)	12.2	60.1	63.7
23. Unit Forced Outage Rate	0	1.1	7.9

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
 Maintenance outage scheduled for 11/23/83 to repair reactor coolant pump #4.

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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

8312150052 83103  
 PDR ADDOCK 05000315  
 R PDR

(4/77)

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-315

UNIT 1

DATE 11-1-83

COMPLETED BY Ann Might

TELEPHONE (616) 465-5901

MONTH October, 1983

DAY AVERAGE DAILY POWER LEVEL  
(MWE-Net)

1	—
2	—
3	—
4	—
5	—
6	—
7	—
8	—
9	—
10	—
11	—
12	—
13	—
14	—
15	—
16	—

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	—
18	—
19	—
20	—
21	—
22	—
23	—
24	176
25	336
26	445
27	450
28	440
29	622
30	658
31	787

## 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 OCTOBER, 1983

DOCKET NO. 50-315  
 UNIT NAME D.C. Cook - Unit 1  
 DATE 11-14-83  
 COMPLETED BY B.A. Svensson  
 TELEPHONE 616/465-5901  
 PAGE 1 of 1

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
204	830716	S	558.7	B&C	1	N.A.	ZZ	ZZZZZZ	The Unit was removed from service at 0010 hours on 830716 for scheduled Cycle 7-8 refueling and maintenance outage. Initial criticality for Cycle 8 occurred on 831020 and the low power physics testing was completed on 831022. The Unit was returned to service on 831024 and was at 90% power level at the end of the month. The total length of the outage was 2406.5 hours.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<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

(9/77)

Docket No.: 50-315  
Unit Name: D. C. Cook Unit 1  
Completed By: G. J. Peak  
Telephone: (616) 465-5901  
Date: 11/8/83  
Page: 1 of 2

MONTHLY OPERATING ACTIVITIES - OCTOBER 1983

Highlights:

The Unit entered the reporting period with the Reactor Coolant System in the process of being filled and vented as the seventh refueling outage came to an end. Initial criticality of the eighth core occurred and Low Power Physics testing was completed. Currently the Unit is in the process of increasing to the 95% power level as part of the Power Ascension Program.

Summary:

- 10/1/83 The High Demand Fire Pump was inoperable from 0520 hours on 10/1 until 2233 hours on 10/6 to repair the Suction Strainer.
- 10/2/83 The West Centrifugal Charging Pump was inoperable from 1025 hours on 10/2 until 1442 hours on 10/4 due to a Mechanical Seal leak.
- The Containment Hydrogen Monitoring System was inoperable from 2100 hours on 10/2 until 1142 hours on 10/16 to repair a component cooling water piping error that was made during its installation.
- 10/4/83 The Auto Gas Analyzer was inoperable for a 8.5 hour period for repairs.
- 10/4/83 The AB Diesel Generator was inoperable for a 7 hour period to work on a Safety Valve on the Cooling Water System.
- 10/7/83 VRS-1101 - Upper Containment Area Monitor failed and was inoperable from 0415 hours on 10/7 until 1140 hours on 10/13.
- 10/10/83 The Fire Detection in the Rad Waste Drumming Room has been inoperable since 1715 hours on 10/10.
- 10/11/83 The CD Diesel was inoperable from 2245 hours on 10/11 until 2015 hours on 10/12 because one of the output breakers would not close.
- 10/14/83 VRS-1101 - Upper Containment Area Monitor was inoperable for a 13.5 hour period due to a standing high alarm on the monitor.
- Entered Mode 4 at 1430 hours.
- 10/15/83 Entered Mode 3 at 1625 hours.



Docket No.: 50-315  
Unit Name: D. C. Cook Unit 1  
Completed By: G. J. Peak  
Telephone: (616) 465-5901  
Date: 11/8/83  
Page: 2 of 2

10/20/83 Entered Mode 2 at 1930 hours and the Reactor went critical at 2103 hours.

10/22/83 Low Power Physics testing was completed at 1032 hours.

10/23/83 Entered Mode 1 at 1201 hours, however problems with the turbine speed control occurred and the Unit went back into Mode 2 at 1950 hours.

10/24/83 Entered Mode 1 again at 0459 hours and paralleled the Unit to the System at 0641 hours. The Reactor was at 30% power at 1027 hours and held there due to secondary side chemical requirements.

10/25/83 Reactor at 48% RTP at 1700 hours.

10/29/83 Reactor at 68% RTP at 0954 hours.

10/31/83 Reactor at 90% RTP at 1713 hours.

The Control Room Cable Vault Halon System remains inoperable as of 1400 hours on 4/5/83. The backup CO<sub>2</sub> System for the Control Room Cable Vault remains operable.

The Control Room Fire Detection System remains inoperable as of 1435 hours on 8/4/83. Hourly fire patrols are being conducted behind the Control Room Panels.

DOCKET NO.	50 - 315
UNIT NAME	D. C. Cook - Unit No. 1
DATE	11-14-83
COMPLETED BY	B. A. Svensson
TELEPHONE	(616) 465-5901
PAGE	1 of 2

MAJOR SAFETY-RELATED MAINTENANCE

OCTOBER, 1983

- M-1 During operation, a containment area radiation monitor alarmed when pressurizer spray control valves NRV-163 and 164 were cycled, indicating a possible packing leak. Inspection revealed no problems on NRV-164. The trim assembly for NRV-163 was replaced and the valve was repacked. The valve was functionally tested.
- M-2 The west centrifugal charging pump inboard mechanical seal was leaking. Rebuilt the seal and had the pump tested.
- M-3 Performed periodic inspection of seals for #4 reactor coolant pump. Replaced #1 ring, runner and sleeve, #2 ring and #3 ring.
- M-4 The east centrifugal charging pump was disassembled to inspect the casing cladding. Rebuilt the mechanical seal and re-assembled pump. Had the pump tested.
- M-5 A ground indication was traced to a pressurizer backup heater circuit. Found a cable with damaged insulation. Repaired insulation and the ground cleared.
- M-6 During surveillance inspection of 1AB emergency diesel, the #4 main bearing was found wiped. Replaced the engine base, crankshaft, main caps and all main and rod bearings. The engine was tested.
- M-7 The wedge for motor-operated valve, IMO-110, safety injection isolation valve, was replaced and the valve was tested.
- M-8 Performed inspection of #2 reactor coolant pump seals. Replaced #1 seal shaft sleeve and #3 seal runner.
- M-9 Number 4 steam generator stop valve, MRV-240, had a broken linear bearing in the crosshead. Replaced the linear bearing and tested the valve.
- M-10 The ESW isolation valve to the suction of the turbine driven auxiliary feed pump, WMO-753, was leaking by. Replaced the valve and had the new valve tested.
- M-11 The refueling water storage tank outlet isolation valve, IMO-910, would not close. Investigation revealed that a nut had fallen from the mechanical position indicator and landed near the stem resulting in jamming of the valve. Replaced the stem nut locknut and the operator motor. Had the valve tested.

DOCKET NO.	<u>50 - 315</u>
UNIT NAME	<u>D. C. Cook - Unit No. 1</u>
DATE	<u>11-14-83</u>
COMPLETED BY	<u>B. A. Svensson</u>
TELEPHONE	<u>(616) 465-5901</u>
PAGE	<u>2 of 2</u>

MAJOR SAFETY-RELATED MAINTENANCE

OCTOBER, 1983

M-12

The volume control tank diverter valve, QRV-303, would not cycle completely. Disassembled the valve and four L-shaped bolts inside the valve. Also, found one bolt in check valve CS-396. Removed the bolts. Replaced the plug, cage and o-rings in QRV-303. Reassembled both valves and had QRV-303 tested. The bolts were determined to be adapter plate fasteners from the reactor coolant filter.



**INDIANA & MICHIGAN ELECTRIC COMPANY**

DONALD C. COOK NUCLEAR PLANT  
P.O. Box 458, Bridgman, Michigan 49106  
(616) 465-5901

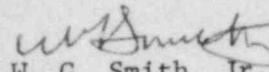
November 14, 1983

Director, Office Of Management Information  
and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant Unit 1  
Technical Specification 6.9.1.6, the attached Monthly Operating  
Report for the Month of October, 1983 is submitted.

Sincerely,

  
W. G. Smith, Jr.  
Plant Manager

WGS:ab

Attachments

cc: J. E. Dolan  
M. P. Alexich  
R. W. Jurgensen  
NRC Region III  
E. R. Swanson  
R. O. Bruggee (NSAC)  
R. C. Callen  
S. J. Mierzwa  
R. F. Kroeger  
B. H. Bennett  
J. D. Huebner  
J. H. Hennigan  
A. F. Kozlowski  
R. F. Hering  
J. F. Stietzel  
PNSRC File  
INPO Records Center

IE24  
1/1