

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 1/3/86  
 COMPLETED BY CLIMER  
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2 -----  
 2. Reporting Period DEC 85 notes !  
 3. Licensed Thermal Power (Mwt) 3411 !  
 4. Name Plate Rating (Gross MWe) 1133 !  
 5. Design Electrical Rating (Net MWe) 1100 !  
 6. Maximum Dependable Capacity (GROSS MWe) 1100 !  
 7. Maximum Dependable Capacity (Net MWe) 1060 -----  
 8. If Changes Occur in Capacity Ratings (Items no. 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 Mo.	Yr. to Date	Cumm.
11. Hours in Reporting Period	744.0	8760.0	70128.0
12. No. of Hrs. Reactor Was Critical	744.0	5948.8	49028.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	744.0	5855.0	47853.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2019347	18192549	151270610
17. Gross Elect. Energy Gen. (MWH)	651340	5901160	49686590
18. Net Elect. Energy Gen. (MWH)	625333	5683634	47901368
19. Unit Service Factor	100.0	66.8	70.7
20. Unit Availability Factor	100.0	66.8	70.7
21. Unit Capacity Factor (MDC Net)	79.3	61.2	66.9
22. Unit Capacity Factor (DER Net)	76.4	59.0	65.4
23. Unit Forced Outage Rate	0.0	32.7	15.8

24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):  
 REFUELING OUTAGE SCHEDULED TO START 3/1/86. EXPECTED DURATION 90 DAYS

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

8604010317 851231  
 PDR ADOCK 05000316  
 R PDR

JE24  
 11

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316  
UNIT TWO  
DATE 1/3/86  
COMPLETED BY CLIMER  
TELEPHONE 616-465-5901

MONTH DEC 85

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	852	17	856
2	854	18	851
3	854	19	859
4	853	20	848
5	853	21	853
6	852	22	858
7	670	23	721
8	813	24	783
9	857	25	855
10	855	26	858
11	855	27	858
12	851	28	854
13	848	29	858
14	852	30	857
15	854	31	858
16	857		

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

REPORT MONTH December, 1985

DOCKET NO. 50-316  
 UNIT NAME D.C. Cook - Unit 2  
 DATE 1-7-86  
 COMPLETED BY B.A. Svensson  
 TELEPHONE 616/465-5901  
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No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	License Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
167	851207	F	0	B	4	N.A.	HH	HTEXCH	Reactor power was reduced to 52% to remove the main feed pumps from service, one at a time, to check the main feed pump turbine condensers for tube leaks. One leaking tube was plugged in the east main feed pump turbine condenser. Reactor power was returned to 80% on 851208.
168	851223	F	0	B	4	N.A.	HF	HTEXCH	Reactor power was reduced to 56% to remove the main feed pumps from service, one at a time, to clean the feed pump turbine condenser water boxes. Reactor power was returned to 80% on 851224.

<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 (LERY) File (NUREG-0161)

<sup>5</sup> Exhibit I - Same Source

Docket No.: 50-316  
Unit Name: D.C. Cook Unit 2  
Completed By: D. A. Bruck  
Telephone: (616) 465-5901  
Date: January 6, 1986  
Page: 1 of 2

MONTHLY OPERATING ACTIVITIES - DECEMBER, 1985

HIGHLIGHTS:

The reporting period began with the reactor at 80.5% rated thermal power.

On 12-07-85, reactor power was reduced to 52% to remove the main feed pumps from service for condenser tube leak checks. Reactor power was returned to 80.5% on 12-08-85.

On 12-23-85, reactor power was reduced to 56% to remove the main feed pumps from service for condenser cleaning. Reactor power was returned to 80.5% on 12-24-85.

Engineered Safety Features actuations occurred as follows:

- 12-05-85, Containment isolation due to high radiation alarm.
- 12-11-85, Containment isolation due to high radiation alarm.

The reporting period ended with the reactor at 81% of rated thermal power.

Gross electrical generation for the month of December was 651,340 MWH.

SUMMARY:

12-05-85 At 2109, an Engineered Safety Features actuation, containment isolation, occurred due to a high alarm on containment radiation monitor VRS-2201.

12-07-85 At 0945, a reactor power decrease began to remove the East Main Feed Pump from service to check for condenser tube leaks. Reactor power reached 52% at 1215.

12-08-85 At 0025, a reactor power increase began.

At 0439, the reactor power increase was stopped at 79% for chemistry.

At, 0642, reactor power was increased to 80.5%.

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12-11-85 At 0942, an Engineered Safety Features actuation, containment isolation, occurred due to a high alarm on containment radiation monitor VRS-2201.

12-23-85 At 1000, a reactor power decrease began to remove the main feed pump condensers from service for cleaning. Reactor power reached 56% at 1825, and the East Main Feed Pump was removed from service.

At 2114, the East Main Feed Pump was returned to service.

At 2219 the West Feed Pump was removed from service.

12-24-85 At 0056, the West Main Feed Pump was returned to service.

At 0121, a reactor power increase was begun.

At 1000, the reactor power increase was stopped at 79% for chemistry.

At 1105, reactor power reached 80.5%.

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UNIT NAME	<u>D. C. Cook - Unit No. 2</u>
DATE	<u>1-7-86</u>
COMPLETED BY	<u>B. A. Svensson</u>
TELEPHONE	<u>(616) 465-5901</u>
PAGE	<u>1 of 1</u>

MAJOR SAFETY-RELATED MAINTENANCE

DECEMBER, 1985

C&I-1

VCR-10, glycol containment isolation valve does not close when given a "closed" signal. Found ASCO solenoid valve not working properly. Rebuilt ASCO valve and verified proper operation of the valve.



**INDIANA & MICHIGAN ELECTRIC COMPANY**

Donald C. Cook Nuclear Plant  
P.O. Box 458, Bridgman, Michigan 49106

January 7, 1986

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 2  
Technical Specification 0.9.1.6, the attached Monthly Operating Report  
for the Month of December, 1985 is submitted.

Sincerely,

*W. G. Smith, Jr.*  
W. G. Smith, Jr.  
Plant Manager

WGS:ab

Attachments

cc: J. E. Dolan  
M. P. Alexich  
R. W. Jurgensen  
NRC Region III  
B. L. Jorgensen  
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