OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 6/4/84
COMPLETED BY W. T. Gillett
TELEPHONE 616/465-5901

OPERATING STATUS

1. Unit Name: Donald C. Cook 2
2. Reporting Period: May, 1984
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): 1100
7. Maximum Dependable Capacity (Net MWe): 1060
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	3,647	56,231
12. Number Of Hours Reactor Was Critical	--	1,636.8	39,422
13. Reactor Reserve Shutdown Hours	--	0	0
14. Hours Generator On-Line	--	1,628.0	38,428.1
15. Unit Reserve Shutdown Hours	--	0	0
16. Gross Thermal Energy Generated (MWH)	--	5,405,184	123,878,152
17. Gross Electrical Energy Generated (MWH)	--	1,793,180	40,019,790
18. Net Electrical Energy Generated (MWH)	--	1,731,606	38,584,977
19. Unit Service Factor	--	44.6	71.3
20. Unit Availability Factor	--	44.6	71.3
21. Unit Capacity Factor (Using MDC Net)	--	44.5	68.2
22. Unit Capacity Factor (Using DER Net)	--	43.2	66.9
23. Unit Forced Outage Rate	--	1.9	13.4

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Current Refueling Outage

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		

IE24 (9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-316

UNIT 2

DATE 6/1/84

COMPLETED BY W. T. Gillett

TELEPHONE 616/465-5901

MONTH May, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	--	17	--
2	--	18	--
3	--	19	--
4	--	20	--
5	--	21	--
6	--	22	--
7	--	23	--
8	--	24	--
9	--	25	--
10	--	26	--
11	--	27	--
12	--	28	--
13	--	29	--
14	--	30	--
15	--	31	--
16	--		

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 May, 1984

DOCKET NO. 50-316
UNIT NAME D. C. Cook-Unit 2
DATE 5-11-84
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
147	840310	S	744	B&C	1	N.A.	ZZ	ZZZZZZ	The Unit was removed from service on 840310 for scheduled on 840310 for scheduled Cycle IV-V refueling/ maintenance outage. Refueling activities have been completed and preparations for the containment integrated leak rate test are presently in progress. Estimated return to service date is 840628.

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: G. J. Peak
Telephone: (616) 465-5901
Date: 6/11/84
Page: 1 of 1

MONTHLY OPERATING ACTIVITIES - MAY 1984

Highlights:

The Unit entered the reporting period with the core completely unloaded and all fuel in the spent fuel pit. The fuel was moved back into the vessel and the vessel head and associated equipment was subsequently reinstalled. Diesel Generator AB failed this reporting period as it tripped on overspeed. This was the fourth failure of a Unit 2 Diesel in the last 100 valid tests and in accordance with Technical Specification 4.8.1.1.2a the testing frequency of both Unit 2 Diesels is now three days. As the reporting period came to an end, the Unit was in Mode 5 with the Reactor Coolant System at the half loop elevation.

Summary:

5/3/84 The movement of fuel from the spent fuel pit to the vessel began at 1239 hours.

5/7/84 The fuel shuffle was complete at 1123 hours.

5/8/84 An inadvertant safety injection occurred at 1536 hours during a surveillance test.

5/9/84 The reactor head was set on the vessel flange at 1622 hours, and the reactor coolant system was drained to half loop at 2147 hours.

5/13/84 Mode 5 was entered at 1102 hours.

5/14/84 An Unusual Event was declared at 0446 hours due to both Diesel Generators being inoperable. CD Diesel Generator was declared operable at 0833 hours and the Unusual Event was terminated at 0840 hours.

The Control Room Cable Vault Halon System remains inoperable as of 1707 hours on 4/14/83. The backup CO_2 System remains operable.

DOCKET NO.	50 - 316
UNIT NAME	D. C. Cook -Unit No. 2
DATE	6-11-84
COMPLETED BY	B. A. Svensson
TELEPHONE	(616) 465-5901
PAGE	1 of 2

MAJOR SAFETY-RELATED MAINTENANCE

MAY, 1984

M-1 QRV-161, 75 GPM letdown orifice isolation was leaking air around the actuator. The actuator diaphragm was replaced. The valve was tested and returned to service.

M-2 QRV-160, 45 GPM letdown orifice isolation was leaking air around the actuator. The actuator diaphragm was replaced. The valve was tested and returned to service.

M-3 The West Centrifugal Charging Pump developed inboard and outboard mechanical seal leakage. Both inboard and outboard shaft sleeve O-rings were replaced. The pump was tested and returned to service.

M-4 The West Centrifugal Charging Pump was inspected for cladding damage. Two very minor indications were found which did not require repair. The pump was reassembled, tested and returned to service.

M-5 Valve N-159, Nitrogen to Pressurizer Relief Tank was leaking by excessively. The valve was disassembled, seat lapped and reassembled with a new plug, spring and gasket.

M-6 Inspection of the East Centrifugal Charging Pump casting revealed cracks in the cladding. The cracks were ground-out and filled with weld. The pump was then reassembled using new seals and a new outboard bearing. Functional testing was performed and the pump was returned to service.

M-7 CCW-243-72 was leaking by excessively. The valve was disassembled and cleaned. Seating surfaces were checked with Dyken Hi-Spot Blue and were found to have a proper contact pattern. The valve was then reassembled and returned to service.

M-8 Inspection of 2-WMO-734 East CCW Heat Exchanger Outlet valve revealed a cracked seat. The valve was removed and a new Pratt valve installed.

M-9 IMO-314, 2 East Residual Heat Removal Pump discharge crosstie would not close. The bevel gear which enables manual operation was replaced and the starter coil was tightened. Functional testing was performed satisfactorily and the valve was returned to service.

M-10 Check valve #CS-321 was observed to be leaking through excessively. A new disc and gasket were installed.

C&I-1 Leak at seal table #C-8. Tightened connector to stop the leak.

C&I-2 N-32 is erratic and reading high. Remade cable connectors, replaced detector, replaced spacers and readjusted for STP. STP indicated operability.

C&I-3 East RHR Hx outlet regulator valve IRV-310 would not operate. The positioner was repaired by replacing the pilot stem and valve seat and the valve was checked for operation.

C&I-4 Critical control room power inverter failed when a capacitor in the "C-1" group shorted. All eight capacitors in the "C-1" group were replaced. A blown 100 amp fuse was changed, the inverter's frequency was adjusted to 60 hz and the inverter was returned to service.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL, 1984
6/11/84

DOCKET NO. 50-316
UNIT NAME D.C. Cook - Unit 2
DATE 5-7-84
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
147	840310	S	719	B&C	1	N.A.	ZZ	ZZZZZZ	The Unit was removed from service on 840310 for scheduled Cycle IV - V refueling/maintenance outage. Refueling activities are presently in progress. Estimated return to service date is 840620.

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)

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5
Exhibit I - Same Source

(9/77)

American Electric Power System
INDIANA & MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

June 11, 1984

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 6.9.1.6, the attached Monthly Operating Report for the Month of May, 1984 is submitted.

We have also attached a revised copy of the Unit Shutdowns and Power Reductions Report for the months of April, 1984 which has been corrected to show 719 hours in the "Duration" column.

Sincerely,

W. G. Smith, Jr.
Plant Manager

WGS:cg

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
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PNSRC File
INPO Records Center
ANI Nuclear Engineering Department

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1/1