

# CATEGORY 1

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FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316  
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RECIP. NAME: RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for May 1996 for DC Cook Nuclear  
Plant Unit 2.W/960603 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

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American Electric Power  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
616 465 5901

50-316



June 3, 1996

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant Unit 2 Technical Specification 6.9.1.10, the attached Monthly Operating Report for the month of May 1996 is submitted.

Respectfully,

*J.R. Sampson*

J.R. Sampson  
Plant Manager

Attachment

c: NRC Region III  
D.R. Hahn  
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INPO Records Center  
ANI Nuclear Engineering Department  
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# N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 03/Jun/96  
 COMPLETED BY D G Turner  
 TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 2  
 2. Reporting Period May 1996 notes  
 3. Licensed Thermal Power (MWt) 3411  
 4. Name Plate Rating (Gross MWe) 1133  
 5. Design Electrical Rating (Net MWe) 1090  
 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	3648.0	161424.0
12. No. of Hrs. Reactor Was Critical	579.6	2551.6	110875.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	533.9	2505.9	107311.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	1556210	8134351	329768815
17. Gross Elect. Energy Gen. (MWH)	499410	2655610	106861970
18. Net Elect. Energy Gen. (MWH)	480777	2565411	102925374
19. Unit Service Factor	71.8	68.7	67.5
20. Unit Availability Factor	71.8	68.7	67.5
21. Unit Capacity Factor (MDC Net)	61.0	66.3	60.9
22. Unit Capacity Factor (DER Net)	59.3	64.5	59.4
23. Unit Forced Outage Rate	1.9	0.4	14.8
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):	None		

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		

# AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316  
UNIT TWO  
DATE 03/Jun/96  
COMPLETED BY D G Turner  
TELEPHONE 616-465-5901

MONTH May 1996

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
96/05/01	0	96/05/17	1090
96/05/02	0	96/05/18	1021
96/05/03	0	96/05/19	1091
96/05/04	0	96/05/20	1080
96/05/05	0	96/05/21	1080
96/05/06	0	96/05/22	1079
96/05/07	0	96/05/23	1077
96/05/08	0	96/05/24	1078
96/05/09	142	96/05/25	1087
96/05/10	124	96/05/26	1087
96/05/11	290	96/05/27	1091
96/05/12	414	96/05/28	1089
96/05/13	473	96/05/29	1090
96/05/14	507	96/05/30	1090
96/05/15	824	96/05/31	1084
96/05/16	1043		

DOCKET NO: 50-316  
UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: M.E. Russo  
TELEPHONE: 616-465-5901  
DATE: June 3, 1996  
PAGE: Page 1 of 2

MONTHLY OPERATING ACTIVITIES - MAY 1996

HIGHLIGHTS\*

The unit entered this reporting period in Mode 5 at 0% RTP for the Cycle 10 to 11 refueling/maintenance outage. The Reactor was taken critical May 7 at 0701 for the first time in fuel cycle 11.

A Reactor trip occurred May 8 at 1044 during Main Turbine overspeed testing. The automatic scram from 7% RTP resulted when the anticipated trip of the Main Turbine was coincident with one channel of Main Turbine impulse pressure indicating greater than 10%. The Main Turbine Generator was paralleled to the grid May 9 at 0732.

The Main Turbine Generator was removed from the grid May 10 at 1532 to facilitate Main Transformer phase one oil leak repairs. Following the minor leak repair the Main Turbine Generator was paralleled to the grid May 11 at 0207.

The unit exited this reporting period in Mode 1 at 100% RTP.

There were no challenges to the pressurizer safety valves or power operated relief valves.

Gross electrical generation for the month of May was 499410 MWH.

DETAILS\*

05-03-96	1330	Entered Reactor Mode 4.
05-04-96	0824	Entered Reactor Mode 3.
05-07-96	0041	Commenced Reactor start-up.
	0420	Entered Reactor Mode 2.
	0701	Reactor critical.
05-08-96	0420	Entered Reactor Mode 1.
	0705	Main Turbine reset.
	1000	Commenced Main Turbine overspeed testing.
	1044	Reactor trip.

DOCKET NO: 50-316  
UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: M.E. Russo  
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PAGE: Page 2 of 2

MONTHLY OPERATING ACTIVITIES - MAY 1996

DETAILS\* (cont'd)

05-08-96	2325	Commenced Reactor start-up.
05-09-96	0009	Reactor critical.
	0142	Entered Reactor Mode 1.
	0255	Main Turbine reset.
	0732	Main Turbine Generator paralleled to the grid.
	1030	Reactor power at 30% RTP.
05-10-96	1050	Terminated power escalation to facilitate Main Transformer phase one oil leak repairs.
	1111	Commenced power reduction to less than 10% RTP.
	1532	Removed Main Turbine Generator from the grid.
05-11-96	0207	Main Turbine Generator paralleled to the grid.
	0306	Reactor power at 22% RTP.
	1945	Reactor power at 48% RTP.
05-13-96	0930	Reactor power at 57% RTP.
05-15-96	1645	Reactor power at 90% RTP.
05-16-96	1625	Reactor power at 100% RTP.

\* All time entries above are Eastern Standard Time (EST).



## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: MAY 1996

DOCKET NO: 50-316  
 UNIT NAME: D.C. COOK UNIT 2  
 DATE: June 3, 1996  
 COMPLETED BY: M.E. Russo  
 TELEPHONE: 616-465-5901  
 PAGE: 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 NO.	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
250	032396	S	199.5	B,C	2	96-005	N/A	N/A	The Unit was removed from service 032396 at 0357 EST for cycle 10 to 11 refueling/maintenance outage. Prior to grid parallel, an automatic Reactor trip occurred 050896 at 1044 EST during Main Turbine overspeed testing. The anticipated trip of the Main Turbine was coincident with an unanticipated channel of Main Turbine impulse pressure indicating >10%. All outage activities were completed and the Main Generator was paralleled to the grid 050996 at 0732 EST. Total length of the refueling outage was 1131.6 hrs.
251	051096	F	10.6	B	N/A	N/A	N/A	N/A	The Turbine Generator was removed from service 051096 at 1532 EST to facilitate an oil leak repair on phase one of the Main Transformer. The Turbine Generator was paralleled to the grid 051196 at 0207 EST.

1	2	3	4	5
F: Forced S: Scheduled	Reason: A: Equipment Failure (Explain) B: Maintenance or Test C: Refueling D: Regulatory Restriction E: Operator Training and License Examination F: Administrative G: Operational Error (Explain) H: Other (Explain)	Method: 1: Manual 2: Manual Scram 3: Automatic Scram 4: Other (Explain)	Exhibit G - Instructions for preparation of data entry sheets for Licensee Event Report (LER) File (NUREG 0161)	Exhibit I: Same Source

