

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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

SUBJECT: Monthly operating rept for Apr 1989 for DC Cook Nuclear  
 Plant Unit 2.W/890504 ltr.

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Indiana Michigan  
Power Company  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
616 465 5901



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

May 4, 1989

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 April 1989 is submitted.

Sincerely,

W. G. Smith, Jr.  
Plant Manager

WGS/jd

cc: B. A. Svensson  
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# N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 1-MAY-89  
 COMPLETED BY H. Giles  
 TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 2 -----  
 2. Reporting Period APR 89 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	719.0	2879.0	99311.0
12. No. of Hrs. Reactor Was Critical	719.0	1114.4	64709.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	719.0	1064.7	63274.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2288800	3064060	192630437
17. Gross Elect. Energy Gen. (MWH)	752650	998530	62894750
18. Net Elect. Energy Gen. (MWH)	725838	959650	60544315
19. Unit Service Factor	100.0	37.0	65.2
20. Unit Availability Factor	100.0	37.0	65.2
21. Unit Capacity Factor (MDC Net)	95.2	31.4	58.9
22. Unit Capacity Factor (DER Net)	91.8	30.3	57.4
23. Unit Forced Outage Rate	0.0	0.3	14.3
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):			

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 1-MAY-89  
COMPLETED BY H. Giles  
TELEPHONE 616-465-5901

MONTH APR 89

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	894	17	1091
2	1083	18	1095
3	1092	19	1083
4	1093	20	1065
5	1091	21	532
6	1093	22	971
7	1065	23	1097
8	563	24	1101
9	998	25	1106
10	1085	26	1093
11	1084	27	1100
12	1082	28	1100
13	1066	29	1099
14	542	30	1099
15	717		
16	1099		

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL

DOCKET NO. 50-316  
 UNIT NAME D.C. Cook Unit 2  
 DATE May 4, 1989  
 COMPLETED BY T. R. Stephens  
 TELEPHONE (616) 495-5906

Page 1 of 2

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
191	890401	S	0	H	4	N/A	ZZ	ZZZZZZ	A power reduction from 100% reactor thermal power (RTP) to 65% RTP was commenced on 3/31/89 in preparation for condenser inspection.. Reactor power reached 65% RTP at 1320 hours on 4/1/89. During the inspection a total of one tube was replugged and 50 tubes rerolled in the condensers. The same day at 1345 a power increase was commenced with 100% RTP being reached at 2200 hours the same day.
192	890408	S	0	H	4	N/A	ZZ	ZZZZZZ	A power reduction from 100% RTP to 55% RTP was commenced on 4/8/89 in preparation to remove and check the main feedpump condensers for tube leaks. At 0416 hours on 4/9/89 reactor power was at 55% RTP. During the inspection there were no tubes found to be leaking but a diaphragm was replaced along with some bolts on the manways. A power ascension was commenced on the same day at 2110 hours. Reactor power reached 100% RTP on 4/10/89 at 1115 hours after a chemistry hold at 80% RTP.

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)

# UNIT SHUTDOWNS AND POWER RESTRICTIONS

REPORT MONTH: APRIL

DOCKET NO. 50-316  
 UNIT NAME D.C. Cook Unit 2  
 DATE May 4, 1989  
 COMPLETED BY T.R. Stephens  
 TELEPHONE (616) 465-5901  
 Page 2 of 2

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
193	890414	S	0	H	4	N/A	ZZ	ZZZZZZ	On 4/14/89 at 2200 hours a power reduction from 100% RTP to 55% was commenced to remove and check the main feedpumps condensers for tube leaks. Reactor Thermal power reached 55% RTP at 0340 hours on 4/15/89. During the inspection one tube was replugged on the "W" main feedpump condenser and two tubes were plugged on the "E" main feedpump condenser. A power ascension was commenced on 4/16/89 to 100% RTP with the reactor reaching 100% RTP at 2205 hours the same day.
194	890421	S	0	H	4	N/A	ZZ	ZZZZZZ	On 4/21/89 at 2205 hours a power reduction to 55% RTP was commenced to remove the main feedpump condensers for tube leak checks. On 4/22/89 at 0350 hours reactor power reached 56% RTP. A power ascension to 100% RTP was commenced on 4/23/89 at 0120 hours after replacing two plugs in the "E" feedpump condenser and one plug in the "W" feedpump condenser. The unit reaching 100% RTP at 1115 hours the same day.

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: T. R. Stephens  
TELEPHONE: (616) 465-5901  
DATE: May 4, 1989  
PAGE: 1 of 2

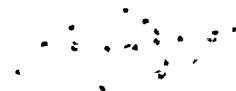
### MONTHLY OPERATING ACTIVITIES - APRIL 1989

#### HIGHLIGHTS

The unit entered the reporting period at 94% rated thermal power (RTP). A power reduction to 65% RTP was underway to remove a condenser half for inspection for possible tube leaks. During the inspection the total of 1 tube was replugged and 50 tubes rolled in the condenser. Following the inspection the unit was taken to 100% RTP which was achieved later the same day 4-1-89. On 4-8-89 a power reduction to 55% RTP to remove the main feedpumps to check their condensers for possible tube leaks. During the inspection there were no tubes found to be leaking, but a diaphragm was replaced along with some bolts on the manway. Following the inspections the unit was returned to 100% RTP. On 4-14-89 power was again reduced to allow the removal of the main feed pump to check their condensers for possible tube leaks. During the inspection 1 tube was replugged on the "W" main feedpump condenser and 2 tubes were plugged on the "E" main feedpump condenser. Following the inspection power was returned to 100% RTP. On 4-21-89 power was reduced to 56% RTP to again check the main feedpump condensers. The inspection resulted in 1 tube being re-plugged on the "W" MFP and 2 tubes on the "E" MFP. A power ascension was begun to return the unit to 100% RTP. Full power was achieved on 4-23-89 and remained there for the balance of the reporting period.

#### DETAILS

4-1-89	0005	Reactor power at 90% RTP.
	1015	Starting power reduction to 65% RTP to change out a main feedpump tube oil filter.
	1320	Reactor power at 65% RTP.
	1345	Starting power ascension to 100% RTP.
	2200	Reactor power at 100% RTP.
4-5-89	1440	Discovered leak in the north east main turbine oil tank oil cooler. Possible oil leak to Non-Essential Service Water.
	1725	Notified NRC via ENS that coast guard notified of oil spill.
4-8-89	2100	Commenced power reduction to 55% in preparation of removing main feed pumps to check feed pump condensers for debris, and tube leaks.



4-9-89	0416	Reactor power at 55% RTP.
	2110	Started power ascension to 100% RTP.
4-10-89	0215	Reactor power at 80% RTP and holding for chemistry.
	0640	Commencing power ascension to 100% RTP.
	1115	Reactor power at 100% RTP.
4-14-89	2200	Started power decrease to 55% RTP in preparation of removing main feedpumps from service and perform main condenser leak checks.
4-15-89	0340	Reactor power at 55% RTP.
4-16-89	1215	Started power ascension to 100% RTP.
	2205	Reactor power at 100% RTP.
4-21-89	2205	Began reducing RTP to 55% to remove main feed pump condensers for leak check and debris.
4-22-89	0350	Stopped reactor power at 56% RTP.
4-23-89	0120	Started reactor power increase back to 100% RTP.
	1115	Reactor power at 100% RTP.



DOCKET NO. 50-316  
UNIT NAME D.C. Cook-Unit No. 2  
DATE May 4, 1989  
COMPLETED BY T. R. Stephens  
TELEPHONE (616) 465-5901  
PAGE 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE

APRIL 1989

There were no significant safety related maintenance problems reported during the month of April.

