

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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 AUTH. NAME    AUTHOR AFFILIATION  
 GILLET, W.T.    Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 BLIND, A.A.    Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIP. NAME    RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for June 1990 for Donald C Cook  
 Nuclear Power Plant, Unit 2.W/900705 ltr.

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 TITLE: Monthly Operating Report (per Tech Specs)

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



July 5, 1990

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 June 1990 is submitted.

Respectfully,

A.A. Blind  
Plant Manager

Attachment

c: B.A. Svensson  
NRC Region III  
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EPRI - Nuclear Safety Analysis Center  
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INPO Records Center  
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S.H. Steinhart  
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J.C. Krieger  
E.C. Schimmel  
J.G. Keppler

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## N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316  
 DATE 02-Jul-90  
 COMPLETED BY WT GILLETT  
 TELEPHONE 616-465-5901

## OPERATING STATUS

1. Unit Name D. C. Cook Unit 2  
 2. Reporting Period JUNE 90  
 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 \_\_\_\_\_

notes

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	720.0	4343.0	109535.0
12. No. of Hrs. Reactor Was Critical	630.3	3788.5	73964.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	623.6	3770.2	72499.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	1767222	12062932	222940822
17. Gross Elect. Energy Gen. (MWH)	547550	3940250	72736360
18. Net Elect. Energy Gen. (MWH)	525116	3802660	70048318
19. Unit Service Factor	86.6	86.8	67.7
20. Unit Availability Factor	86.6	86.8	67.7
21. Unit Capacity Factor (MDC Net)	68.8	82.6	61.7
22. Unit Capacity Factor (DER Net)	66.3	79.6	60.0
23. Unit Forced Outage Rate	10.7	10.1	13.6
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):			

25. If Shut Down At End of Report Period, Estimated Date of Startup:  
September 12, 1990

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 02-Jul-90  
 COMPLETED BY WT GILLET  
 TELEPHONE 616-465-5901

MONTH JUNE 90

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	902	17	924
2	897	18	925
3	896	19	930
4	891	20	928
5	889	21	914
6	884	22	916
7	882	23	917
8	888	24	829
9	886	25	745
10	881	26	726
11	489	27	744
12	0	28	744
13	0	29	661
14	54	30	4
15	609	31	0
16	925		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: June 1990

DOCKET NO: 50-316  
UNIT NAME: D.C. COOK UNIT 2  
DATE: July 5, 1990  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901

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
208	900611	F	74.8	A	3	90-004-00	IA	CRDRVE	The unit tripped from 86% power at 1417 hours on 900611 due to a power range neutron flux high negative rate signal. Although the cause of the trip is not conclusively known, it is believed that a drop of two or more rods caused the reactor to trip on a high negative rate signal. After extensive checks of the rod control system failed to uncover evidence of failure, all control rods were exercised using a special procedure. All control rods performed normally during the special procedure. The unit was returned to service at 1704 hours on 900614.
209	900630	S	21.6	C	1	N/A	ZZ	ZZZZZZ	The unit was removed from service at 0225 hours on 900630 for the cycle 7-8 refueling outage. In addition to refueling, surveillance testing, maintenance and design change installation will be performed. The estimated return to service date is 900912.

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

DOCKET NO: 50-316  
UNIT NAME: D.C. Cook Unit 2  
COMPLETED BY: E.C. Schimmel  
TELEPHONE: (616) 465-5901  
DATE: July 5, 1990  
PAGE: 1 of 1

MONTHLY OPERATING ACTIVITIES - June 1990

HIGHLIGHTS

The unit entered the reporting period at 85.5% Rated Thermal Power. On June 11, 1990, at 1417 hours, the unit tripped due to a power range neutron flux high negative rate signal. The unit was restarted and paralleled to the grid at 1704 hours on June 14, 1990. Reactor power was increased to 90% RTP at 2000 hours on June 15, 1990.

A power decrease to 75% Rated Thermal Power was initiated starting 2200 hours on June 26, 1990, for cycle extension to the beginning of the refueling outage.

A unit shutdown commenced at 1808 hours on June 29, 1990, for the Cycle 7-8 refueling outage. The unit was removed from service at 0225 hours on June 30, 1990. A cooldown was commenced with the reactor coolant system reaching Mode 4, Hot Shutdown, at 1226 hours on June 30, 1990.

Gross electrical generation for the month of June was 547550 MWH.

DETAILS

06/11/90	1417	Reactor trip due to high negative rate.
06/14/90	0928	Commenced reactor start up.
	1027	Reactor is critical.
	1704	Paralleled the generator to the grid and commenced unit power increase to 90% RTP.
06/15/90	2000	Unit is at 90% RTP.
06/23/90	2300	Unit is at 90% RTP.
06/25/90	0542	Unit is at 75% RTP.
06/29/90	1808	Commenced unit power reduction to 0% RTP.
06/30/90	0225	Tripped the main turbine generator.
	0231	Unit is in Mode 3.
	0310	Opened the reactor trip breakers.
	1226	The unit is in Mode. 4

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PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - June 1990

2-M-1 Replaced the discharge head on the diesel driven fire pump.