

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

(mo)



INDIANA
MICHIGAN
POWER

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

April 4, 1990

Gentlemen:

Pursuant to the requirements of Donald C. Cook Nuclear Plant
Unit 1 Technical Specification 6.9.1.10, the attached Monthly
Operating Report for the month of March 1990 is submitted.

Respectfully,

A handwritten signature in cursive script, appearing to read 'A.A. Blind'.

A.A. Blind
Plant Manager

c: B.A. Svensson
NRC Region III
D.R. Hahn
EPRI - Nuclear Safety Analysis Center
R.C. Callen
S.L. Hall
INPO Records Center
ANI Nuclear Engineering Department
D.H. Williams, Jr.
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J.J. Markowsky
D.A. Timberlake
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T.O. Argenta
S.H. Steinhart
B.L. Jorgensen
W.T. Gillett
E.A. Smarrella
J. Krieger
E.C. Schimmel

9005180102

N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315
 DATE 09-Apr-90
 COMPLETED BY WT Gillett
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 1 -----
 2. Reporting Period MARCH 90 notes
 3. Licensed Thermal Power (MWt) 3250
 4. Name Plate Rating (Gross MWe) 1152
 5. Design Electrical Rating (Net MWe) 1030
 6. Maximum Dependable Capacity (GROSS MWe) 1056
 7. Maximum Dependable Capacity (Net MWe) 1020 -----
 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	8040.0	130776.0
12. No. of Hrs. Reactor Was Critical	681.2	5387.7	95659.4
13. Reactor Reserve Shutdown, Hours	0.0	0.0	463.0
14. Hours Generator on Line	676.3	5282.4	93901.3
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	2110415	15069073	272275488
17. Gross Elect. Energy Gen. (MWH)	685220	4805200	88723400
18. Net Elect. Energy Gen. (MWH)	660245	4612837	85311626
19. Unit Service Factor	90.9	65.7	72.9
20. Unit Availability Factor	90.9	65.7	72.9
21. Unit Capacity Factor (MDC Net)	87.0	56.2	64.9
22. Unit Capacity Factor (DER Net)	86.2	55.7	63.0
23. Unit Forced Outage Rate	0.0	1.8	7.6
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):			
Refueling outage to begin October 12, 1990, for an estimated duration of 85 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

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-315
UNIT ONE
DATE 04-Apr-90
COMPLETED BY WT Gillett
TELEPHONE 616-465-5901

MONTH MARCH 90

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1024	17	3
2	1004	18	0
3	601	19	16
4	1012	20	478
5	1022	21	998
6	1022	22	1022
7	1025	23	1022
8	1023	24	1021
9	1024	25	1021
10	1024	26	1023
11	1023	27	1019
12	1023	28	1020
13	1019	29	1019
14	1021	30	1019
15	1022	31	1017
16	925		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: March 1990

DOCKET NO: 50-315
UNIT NAME: D.C. COOK UNIT 1
DATE: April 4, 1990
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901

NO.	DATE	TYPE ¹	DURATION HOURS	REASON ²	METHOD OF SHUTTING DOWN REACTOR ³	LICENSEE EVENT REPORT NO.	SYSTEM CODE ⁴	COMPONENT CODE ⁵	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
282	3/3/90	S	0	B	4	N/A	HF	HTEXCH	Unit power was reduced to 88% starting 1958 hours on 900302 for main turbine valve testing. Unit power was reduced to 55% starting 2358 on 900302 for cleaning of the east and west main feedpump turbine condensers. Unit power was restored to 100% at 0253 hours on 900304.
283	3/16/90	S	67.7	B	1	N/A	ZZ	ZZZZZZ	The unit was shut down 900317 for an ice condenser surveillance outage. The unit returned to service 900319 with 100% RTP achieved 900321.

¹
F: Forced
S: Scheduled

²
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)

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

DOCKET NO: 50-315
UNIT NAME: D.C. Cook Unit 1
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: April 4, 1990
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - March 1990

HIGHLIGHTS

The unit entered the reporting period at 100% Rated Thermal Power. A power reduction was required from 1958 hours March 2, 1990, to 0253 hours March 4, 1990, to allow testing of the main turbine control valves and cleaning of the east and west main feedpump turbine condensers. The unit exited the reporting period at 100% Rated Thermal Power.

On March 16, 1990, a reactor shutdown was commenced and the Unit was removed from service at 0050 hours on March 17, 1990, for a scheduled Ice Condenser Surveillance Outage and functional testing (replacement) of a Technical Specification related snubber. The Reactor Coolant System (RCS) was maintained in Mode 3 (Hot Standby) but the RCS temperature and pressure were reduced to 360 degrees and 850 psig respectively to facilitate the snubber replacement. A unit start-up was commenced on March 19, 1990, with the reactor critical at 1644 hours and the generator paralleled to the grid at 2030 hours on March 19, 1990. The unit was returned to 100% rated thermal power at 0447 hours on March 21, 1990. The unit exited the reporting period at 100% Rated Thermal Power.

Gross electrical generation for the month of March was 685220 MWH.

DETAILS

03/02/90	1958	Commenced unit power reduction to 88% RTP.
	2200	Unit is at 88% RTP to allow testing of the main turbine control valves.
	2358	Commenced unit power reduction to 55% RTP.
03/03/90	0339	Unit is at 55% RTP to allow cleaning of the east and west main feedpump turbine condensers.
	1440	Commenced unit power increase to 100% RTP.
03/04/90	0253	Unit is at 100% RTP.
03/16/90	1848	Commenced unit power reduction to begin the ice condenser surveillance outage.

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COMPLETED BY: E.C. Schimmel
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DATE: April 4, 1990
PAGE: 2 of 2

MONTHLY OPERATING ACTIVITIES - March 1990

DETAILS Con't

03/17/90	0050	Tripped the main turbine generator.
	0131	Unit entered Mode 3.
03/19/90	1605	Commenced reactor start-up. Unit entered Mode 2.
	1644	Unit One reactor is critical.
	1764	Unit entered Mode 1.
	2030	Main generator paralleled to the grid.
03/20/90	0413	Reactor power held at 48% for quadrant power tilt ratio.
	1425	Commenced unit power increase to 100% RTP.
03/21/90	0447	Unit is at 100% RTP.

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COMPLETED BY: E.C. Schimmel
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PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - MARCH 1990

There were no major safety-related maintenance items during the month of March.