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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Apr 1991 for DC Cook Unit 1.W/
 910507 ltr.

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



INDIANA
MICHIGAN
POWER

May 7, 1991

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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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 April 1991 is submitted.

Respectfully,

A.A. Blind
Plant Manager

Attachment

c: NRC Region III
D.R. Hahn
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J.G. Keppler
INPO Records Center
ANI Nuclear Engineering Department
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E.C. Schimmel

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N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-315
 DATE 01-May-91
 COMPLETED BY WT GILLETT
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 1
 2. Reporting Period APR.91
 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 _____

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	719.0	2879.0	143135.0
12. No. of Hrs. Reactor Was Critical	459.6	2094.0	105481.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	463.0
14. Hours Generator on Line	457.5	1992.3	103621.1
15. Unit Reserve Shutdown Hours	0.0	0.0	321.0
16. Gross Therm. Energy Gen. (MWH)	1444357	6163756	301593404
17. Gross Elect. Energy Gen. (MWH)	467650	1994450	98125680
18. Net Elect. Energy Gen. (MWH)	450761	1921655	94355128
19. Unit Service Factor	63.6	69.2	73.4
20. Unit Availability Factor	63.6	69.2	73.4
21. Unit Capacity Factor (MDC Net)	61.5	65.4	65.6
22. Unit Capacity Factor (DER Net)	60.9	64.8	63.7
23. Unit Forced Outage Rate	0.0	0.0	7.0
24. Shutdowns Scheduled over Next Six Months (Type, Date, and Duration):			

25. If Shut Down At End of Report Period, Estimated Date of Startup:
The unit was returned to service on 910505 at 2121hours EDT.

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 01-May-91
COMPLETED BY WT GILLETT
TELEPHONE 616-465-5901

MONTH APR. 91

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1023	17	1016
2	1017	18	1022
3	1023	19	936
4	1026	20	13
5	1000	21	0
6	806	22	0
7	848	23	0
8	996	24	0
9	1028	25	0
10	1013	26	0
11	1016	27	0
12	1018	28	0
13	1018	29	0
14	1004	30	
15	962		
16	998		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: April 1991

DOCKET NO: 50-315
 UNIT NAME: D.C. COOK UNIT 1
 DATE: May 3, 1991
 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
292	910406	S	0	B	N/A	N/A	ZZ	ZZZZZZ	Unit power was reduced to 70% RTP starting 1055 hours on 910406 to allow for testing of main turbine control valves, moisture separator reheaters, and to collect data on the main transformer. The unit was returned to 100% RTP on 910407 at 1723 hours EDT.
293	910419	S	261.5	M	1	N/A	ZZ	ZZZZZZ	The unit was removed from service at 0230 hours on 910420 for main transformer inspection. The inspection indicated arcing had occurred among several bolts and nuts installed during a 1985 transformer repair. The bolt orientation was corrected to avoid the potential for arcing. The unit was in Mode 5 at the end of the reporting period. (The unit was returned to service on 910505).

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: May 7, 1991
PAGE: 1 of 1

MONTHLY OPERATING ACTIVITIES - April 1991

HIGHLIGHTS

The unit entered the reporting period at 100% RTP. Unit power was decreased to 70% RTP starting 2000 hours on 910405 to allow for testing of control valves, moisture separator reheaters, and to collect data on the main transformer. Unit power was restored to 100% RTP at 1723 hours on 910407. A unit shutdown to Mode 5 commenced at 1915 hours on 910419 to inspect the unit main transformer. The unit exited the reporting period in Mode 5.

Gross electrical generation for the month of April was 467650 MWH.

DETAILS

04/05/91	2000	Commenced unit power reduction to 89% RTP.
	2143	The unit is at 89% RTP.
04/06/91	0210	Commenced unit power increase to 95.5% RTP.
	0455	The unit is at 95.5% RTP.
	1055	Commenced unit power reduction to 70% RTP.
	1334	The unit is at 70% RTP.
04/07/91	0730	Commenced unit power increase to 100% RTP.
	1723	The unit is at 100% RTP.
04/19/91	1915	Commenced unit power decrease to shutdown.
04/20/91	0230	Opened main generator output breakers.
	0322	Tripped the main turbine upon completion of turbine vibration data taking.
	0339	The unit is in Mode 3.
	1558	The unit is in Mode 4.
	2335	The unit is in Mode 5.

DOCKET NO: 50-315
UNIT NAME: D.C. Cook Unit 1
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: May 7, 1991
PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - April 1991

1-M-1 The east centrifugal charging pump lube oil discharge pressure was unacceptably low. The problem was determined to be a defective shaft-driven lube oil pump. The lube oil pump was replaced after which a centrifugal charging pump surveillance test was successfully completed.