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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Feb 1991 for DC Cook Unit 2.W/
 910305 ltr.

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



March 5, 1991

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 February 1991 is submitted.

Respectfully,

A.A. Blind
Plant Manager

Attachment

c: NRC Region III
D.R. Hahn
EPRI - Nuclear Safety Analysis Center
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S.L. Hall
J.G. Keppler
INPO Records Center
ANI Nuclear Engineering Department
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D.F. Krause
E.C. Schimmel

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N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316
 DATE 01-Mar-91
 COMPLETED BY JD JANISSE
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2
 2. Reporting Period FEB.91
 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	672.0	1416.0	115368.0
12. No. of Hrs. Reactor Was Critical	672.0	1416.0	76550.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	672.0	1416.0	75001.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2110364	4643404	230810457
17. Gross Elect. Energy Gen. (MWH)	693600	1533620	75320460
18. Net Elect. Energy Gen. (MWH)	668517	1481084	82540051
19. Unit Service Factor	100.0	100.0	66.4
20. Unit Availability Factor	100.0	100.0	66.4
21. Unit Capacity Factor (MDC Net)	93.9	98.7	60.5
22. Unit Capacity Factor (DER Net)	90.4	95.1	58.9
23. Unit Forced Outage Rate	0.0	0.0	13.4
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 01-Mar-91
COMPLETED BY JD JANISSE
TELEPHONE 616-465-5901

MONTH FEB.91

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1086	17	594
2	1092	18	596
3	1094	19	606
4	1096	20	609
5	1093	21	683
6	1092	22	1013
7	1092	23	1063
8	1092	24	1087
9	1092	25	1084
10	1093	26	1092
11	1090	27	1086
12	1092	28	1086
13	1091		
14	1093		
15	1089		
16	878		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1991

DOCKET NO: 50-316
UNIT NAME: D.C. COOK UNIT 2
DATE: March 5, 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
212	910216	F	0	B	4	N/A	HF	HTEXCH	Unit power was reduced to 59% starting 1200 hours on 910216 to permit cleaning of the east and west main feed pump turbine condensers. The time period the unit was at the reduced power level was extended due to problems experienced with the east main feedpump turbine speed control during the power reduction. unit power was restored to 100% at 0144 hours on 910222.
213	910222	F	0	B	4	N/A	CJ	VALVEX	A forced power reduction to 70% starting at 0750 hours on 912222 occurred due to Xenon buildup while the primary water makeup supply for RCS dilution was isolated to perform forced maintenance repairs on primary water valve PW-269. Reactor power was restored to 100% at 0639 hours on 910223.

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: March 5, 1991
PAGE: 1 of 1

MONTHLY OPERATING ACTIVITIES - February 1991

HIGHLIGHTS

The unit entered the reporting period at 100% Rated Thermal Power. Unit power was reduced to 59% RTP on 910216 to allow for east and west main feedpump turbine condenser cleaning. The time period the unit was at the reduced power level was extended due to problems experienced with the east main feedpump turbine speed control during the power reduction. Unit power was restored to 100% RTP on 910221.

A forced power reduction to 70% RTP occurred on 910222. The power reduction was caused by the negative reactivity effect of Xenon buildup following the power increase to 100% RTP on 910221. The primary water system makeup to the RCS had to be isolated to perform maintenance on a failed primary water system valve which removed the ability to dilute the reactor coolant. Repairs were completed and power increased to 100% RTP starting 2025 hours on 910222. The unit reached 100% RTP at 0639 hours on 910223. The unit exited the reporting period at 100% RTP.

Gross electrical generation for the month of February was 693600 MWH.

DETAILS

02/16/91	1200	Commenced unit power decrease to 59% RTP for east and west main feedpump turbine condenser cleaning.
	1650	The unit is at 59% RTP.
02/21/91	1440	Commenced unit power increase to 100% RTP.
02/22/91	0144	The unit is at 100% RTP.
02/22/91	0750	The boration flowpath LCO is entered. Reactor power drifts down to 70% RTP due to Xenon buildup while all dilution flowpaths are isolated for repair of the boration flowpath leak.
	2025	The unit is at 70% RTP. Commenced unit power increase to 100% RTP.
02/23/91	0639	The unit is at 100% RTP.

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PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - February 1991

2-M-1 The AB train emergency diesel generator fuel oil transfer pump, QT-106-AB2 was unable to meet its required flow. The defective pump was replaced with a new pump.

