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RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Nov 1991 for DC Cook Unit 2.W/ 911205 ltr.

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

INDIANA MICHIGAN POWER

December 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 November 1991 is submitted.

Respectfully,

A. Alan Blind

A.A. Blind
Plant Manager

Attachment

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N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316
DATE 02-Dec-91
COMPLETED BY WT GILLETT
TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2
2. Reporting Period NOV.91
3. Licensed Thermal Power (MWt) 3411
4. Name Plate Rating (Gross MWe) 1133
5. Design Electrical Rating (Net MWe) 1090
6. Maximum Dependable Capacity (GROSS MWe) 1100
7. Maximum Dependable Capacity (Net MWe) 1090

notes

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	720.0	8016.0	121968.0
12. No. of Hrs. Reactor Was Critical	607.4	7309.2	82444.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	590.4	7270.2	80856.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	1912720	24053298	250220351
17. Gross Elect. Energy Gen. (MWH)	611250	7684420	81471260
18. Net Elect. Energy Gen. (MWH)	589533	7415525	78474492
19. Unit Service Factor	82.0	90.7	67.6
20. Unit Availability Factor	82.0	90.7	67.6
21. Unit Capacity Factor (MDC Net)	75.1	84.9	61.9
22. Unit Capacity Factor (DER Net)	75.1	84.3	60.2
23. Unit Forced Outage Rate	18.0	9.3	13.2

24. Shutdowns Scheduled over Next Six Months (Type,Date,and Duration):
Refueling outage to begin 920209 for an estimated duration of 90 days.

25. If Shut Down At End of Report Period, Estimated Date of Startup: _____

26. Units in Test Status (Prior to Commercial Operation):

	Forcast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316
UNIT TWO
DATE 02-Dec-91
COMPLETED BY WT GILLETT
TELEPHONE 616-465-5901

MONTH NOV.91

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1057	17	0
2	1058	18	0
3	1056	19	0
4	1055	20	19
5	1051	21	466
6	1056	22	602
7	1050	23	771
8	1044	24	1072
9	1040	25	1069
10	1051	26	1068
11	1055	27	1073
12	1053	28	1071
13	1052	29	1060
14	1058	30	1067
15	491		
16	0		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: November 1991

DOCKET NO: 50-316
UNIT NAME: D.C. COOK UNIT 2
DATE: December 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
220	911115	F	129.6	A	3	91-009	HB	INSTRU	A reactor/turbine trip occurred at 1113 hours on 911115 when a turbine control fluid pressure sensing line was breached to install a test pressure transducer for monitoring purposes. The pressure indicator isolation valve leaked through allowing control fluid to escape causing the turbine control valves to go fully closed. The resulting rapid increase in steam generator pressure caused the steam generator water levels to shrink. The reactor tripped on lo-lo steam generator levels causing the turbine trip. The turbine control system and other equipment problems were repaired during the outage and the unit was returned to service at 2050 hours on 911120. Reactor power reached 100% RTP on 911123.

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: 50-316
UNIT NAME: D.C. Cook Unit 2
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: December 5, 1991
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - November 1991

HIGHLIGHTS

The unit entered the reporting period at 100% RTP. A reactor/turbine trip occurred at 1113 hours on 911115 when a turbine control fluid pressure indicator sensing line was breached to install a test pressure transducer for monitoring purposes. The pressure indicator isolation valve leaked through allowing control fluid to escape causing the turbine control valves to go fully closed. The resulting rapid increase in steam generator pressure caused the steam generator water levels to shrink. The reactor tripped on lo-lo steam generator levels causing the turbine trip. The turbine control system and other equipment problems were repaired during the outage and the unit was returned to service at 2050 hours on 911120. Reactor power reached 100% on 911123. The unit exited the reporting period at 100% RTP.

There were no challenges to the pressurizer safety valves or power operated relief valves.

Gross electrical generation for the month of November was 611250 MWH.

DETAILS

11/15/91	1113	Reactor/turbine trip caused by lo-lo steam generator water levels.
11/20/91	0222	Commenced reactor startup.
	0347	The reactor is critical.
	1732	The reactor is in Mode 1.
	2050	The main generator is paralleled to the system power grid. Commencing unit power increase to 29% RTP.
	2335	Holding unit power at 29% for chemistry hold.
	2351	Commenced unit power increase to 48%.
11/21/91	0421	Holding unit power at 48% RTP to perform quadrant power tilt ratio verification.
	0730	Commenced unit power increase to 58% RTP.
	1007	Holding unit power at 58% RTP due to feedwater heater 6B flow imbalance.

DOCKET NO: 50-316
UNIT NAME: D.C. Cook Unit 2
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: December 5, 1991
PAGE: 2 of 2

MONTHLY OPERATING ACTIVITIES - NOVEMBER 1991

11/22/91	0324	Commenced unit power increase to 64% RTP.
	0440	Holding power at 64% RTP due to condensate flow limit through a single set of feedwater heaters.
11/23/91	0810	Commenced unit power increase to 80% RTP.
	1130	Holding power at 80% RTP for main turbine control valve testing.
	1705	Commenced unit power increase to 100% RTP.
	2329	The unit is at 100% RTP.

DOCKET NO: 50-316
UNIT NAME: D.C. Cook Unit 2
COMPLETED BY: E.C. Schimmel
TELEPHONE: (616) 465-5901
DATE: December 6, 1991
PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - November 1991

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