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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Oct 1991 for DC Cook Nuclear Plant, Unit 2.W/911106 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



November 6, 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 October 1991 is submitted.

Respectfully,



A.A. Blind
Plant Manager

Attachment

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N.R.C. OPERATING DATA REPORT

DOCKET NO. 50-316
 DATE 04-Nov-91
 COMPLETED BY WT GILLETT
 TELEPHONE 616-465-5901

OPERATING STATUS

1. Unit Name D. C. Cook Unit 2
 2. Reporting Period OCT.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) 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	745.0	7296.0	121248.0
12. No. of Hrs. Reactor Was Critical	745.0	6701.8	81836.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator on Line	745.0	6679.8	80265.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Therm. Energy Gen. (MWH)	2519131	22140578	248307631
17. Gross Elect. Energy Gen. (MWH)	800860	7073170	80860010
18. Net Elect. Energy Gen. (MWH)	773344	6825992	77884959
19. Unit Service Factor	100.0	91.6	67.5
20. Unit Availability Factor	100.0	91.6	67.5
21. Unit Capacity Factor (MDC Net)	97.9	88.3	61.8
22. Unit Capacity Factor (DER Net)	94.4	85.2	60.1
23. Unit Forced Outage Rate	0.0	8.4	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):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY POWER LEVEL (MWe-Net)

DOCKET NO. 50-316
UNIT TWO
DATE 04-Nov-91
COMPLETED BY WT GILLETT
TELEPHONE 616-465-5901

MONTH OCT.91

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1018	17	1052
2	1026	18	1044
3	1025	19	1056
4	1018	20	1048
5	1027	21	1046
6	1037	22	1053
7	1039	23	1058
8	917	24	1057
9	1032	25	1052
10	1034	26	1047
11	1032	27	1047
12	1047	28	1048
13	1051	29	1050
14	1044	30	1056
15	1053	31	1063
16	1048		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1991

DOCKET NO: 50-316
 UNIT NAME: D.C. COOK UNIT 2
 DATE: November 6, 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
219	911008	F	N/A	A	N/A	N/A	SF	INSTRU	A unit shutdown commenced at 1530 hours on 911008. Problems were encountered during Safety Injection Phase A logic testing of the Solid State Protection System (SSPS) which required the reactor trip bypass breaker A to be closed for greater than the two hours allowed by Technical Specification 3.3.1.1. An unusual event was declared due to initiation of a shutdown required by Technical Specification 3.3.2.1. The power reduction was halted at 1627 hours on 911008 (66% RTP) after it had been verified that the problem was related to the SSPS test circuitry only. Unit power was restored to 100% RTP at 0720 hours on 911009.

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: November 6, 1991
PAGE: 1 of 2

MONTHLY OPERATING ACTIVITIES - October 1991

HIGHLIGHTS

The unit entered the reporting period at 99% RTP. Unit power was decreased to 94% RTP starting 2032 hours on 911004 for main turbine control valve testing. Unit power was restored to 99% RTP at 0330 hours on 911005. A unit shutdown commenced at 1530 hours on 911008. Problems were encountered during safety injection phase A logic testing of the solid state protection system (SSPS) which required a reactor bypass trip breaker to be closed for greater than the two hours allowed by technical specification 3.3.1.1. An unusual event was declared due to the initiation of a plant shutdown required by technical specification 3.3.2.1. The power reduction was halted at 1627 hours on 911008 (66% RTP) after it had been verified that the problem was related to the SSPS test circuitry only. Unit power was restored to 100% RTP at 0720 hours on 911009. 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 October was 800860 MWH.

DETAILS

10/04/91	2032	Commenced unit power reduction to 94% RTP for main turbine control valve testing.
	2140	The unit is at 94% RTP.
10/05/91	0135	Commenced unit power increase to 99% RTP.
	0330	Unit power is at 99% RTP.
10/08/91	1047	Closed reactor trip bypass breaker A for surveillance testing the train A solid state protection system (SSPS).
	1247	Reactor trip bypass breaker A has been closed for greater than two hours due to problems with the safety injection phase A logic in the SSPS system discovered during surveillance testing.
10/08/91	1530	Commenced unit shutdown due to reactor trip bypass breaker A being closed for greater than two hours. Declared an unusual event due to initiating an ESF technical specification 3.3.2.1 required plant shutdown.

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PAGE: 2 of 2

MONTHLY OPERATING ACTIVITIES - October 1991

1627 Terminated unit power decrease at 66% RTP
after verifying the malfunction to be in the
SSPS test circuitry only.

1734 Opened reactor trip breaker A. exited the
unusual event.

1910 Commenced unit power increase to 100% RTP.

10/09/91 0720 The unit is at 100% RTP.

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PAGE: 1 of 1

MAJOR SAFETY-RELATED MAINTENANCE - October 1991

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



1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30

31 32