

50-315

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FILE NUMBER
MONTHLY REPORT

TO:
N. R. C.

FROM:
Indiana & Michigan Power Company
Bridgman, Michigan
D. V. Shaller

DATE OF DOCUMENT
1/6/78

DATE RECEIVED
1/10/78

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DESCRIPTION

LTR TRANS THE FOLLOWING:

(1-P)

PLANT NAME: Cook
RJL 1/10/78

ENCLOSURE

MONTHLY REPORT FOR December 1977
PLANT & COMPONENT OPERABILITY & AVAILABILITY.
THIS REPORT TO BE USE IN PREPARING GRAY BOOK
BY PLANS & OPERATIONS.

(3-P)

1 CY ENCL Rec'd *

FOR ACTION/INFORMATION

MPC W/2 CYS FOR ACTION

INTERNAL DISTRIBUTION

REG FILES

NRC-PDR

BRANCH CHIEF (L) Davis

LIC ASST. Diggs

EXTERNAL DISTRIBUTION

LPDR: ST. Joseph, Mich.

TIC:

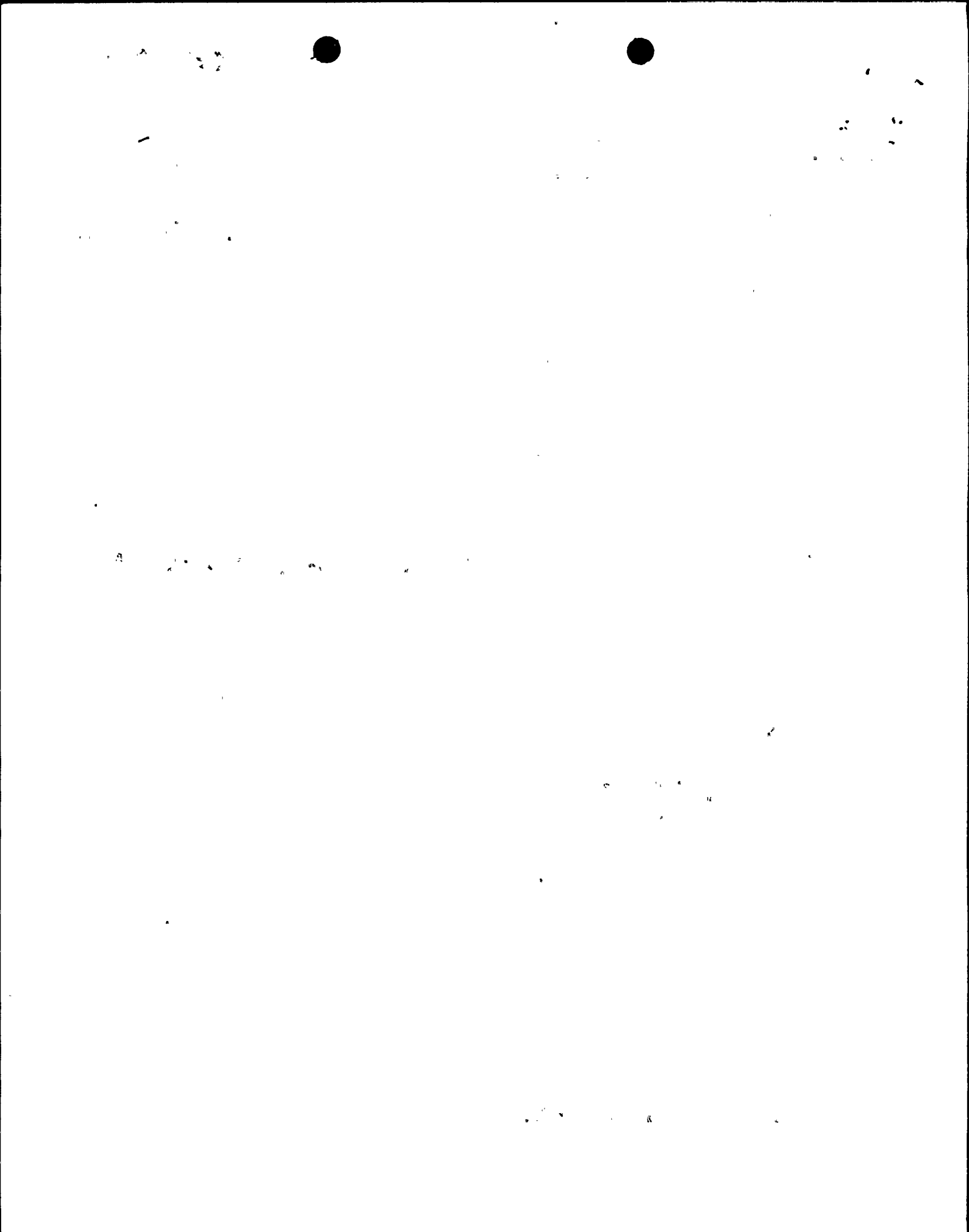
NSIC

CONTROL NUMBER

780100129

MR

60



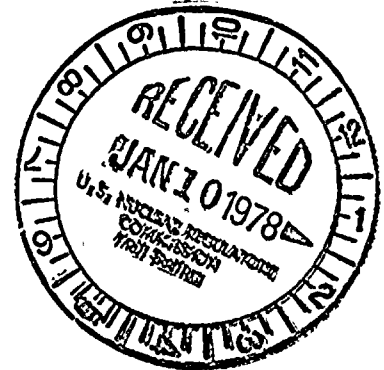
REGULATORY DOCKET FILE COPY



INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106

January 6, 1978



Director, Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Pursuant to the requirements of the United States Nuclear Regulatory Commission Guide 1.16, Revision 4, the attached monthly reports for the month of December, 1977 are submitted.

Sincerely,

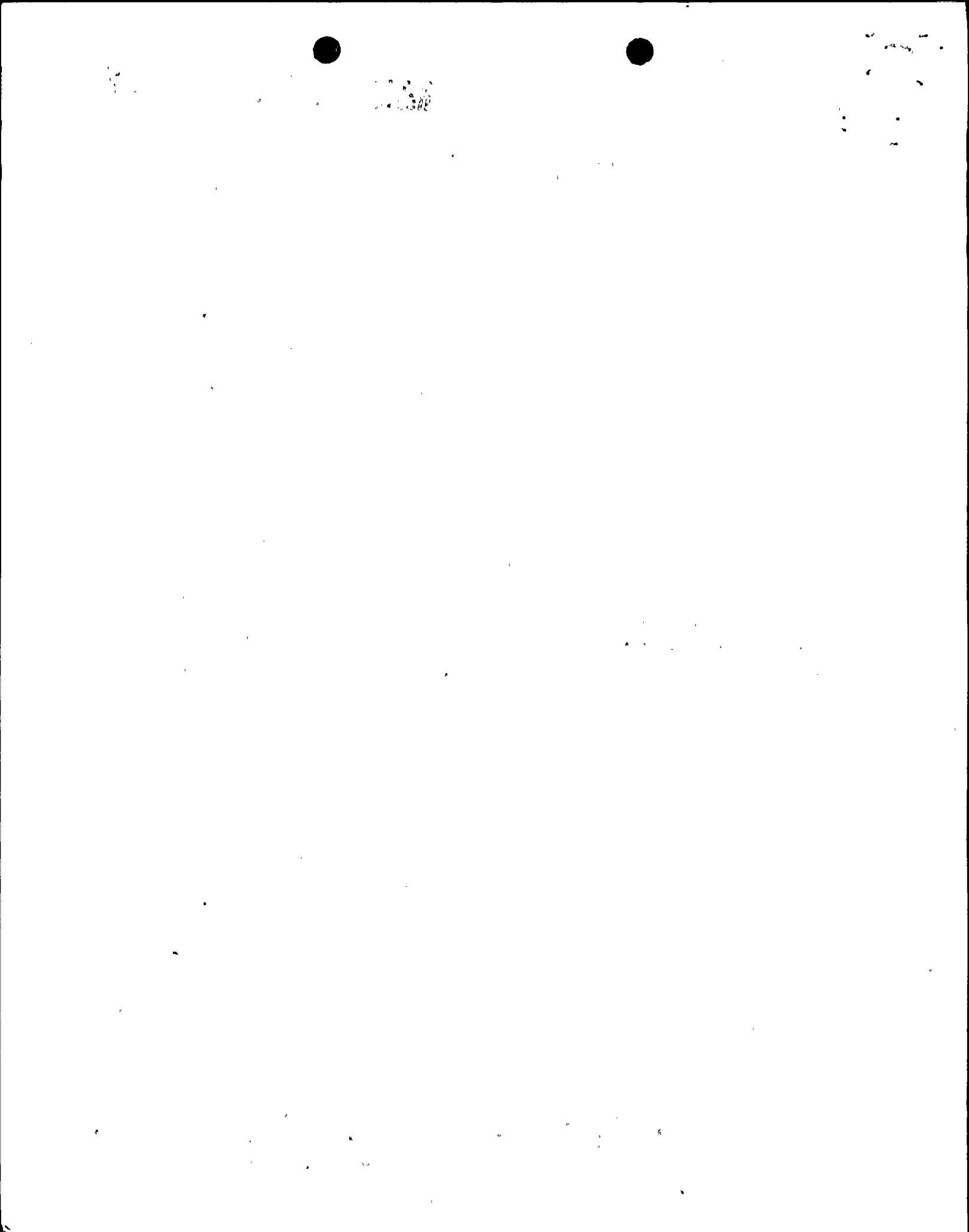
D. V. Shaller
Plant Manager

DVS:pk

Attachments

cc: R. W. Jurgensen
NRC Region III
K. R. Baker
R. C. Callen
R. Walsh
S. J. Mierzwa
J. E. Dolan
R. J. Vollen
G. E. Lien
K. W. Brown
J. M. Hennigan
P. W. Stekete
A. F. Kozlowski
J. F. Stietzel
PNSRC File

780100129



**APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO. 50-315

UNIT #1

DATE 1-3-78

COMPLETED BY W. T. Gillett

TELEPHONE 616-465-5901

MONTH December

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	0
4	674
5	1034
6	1044
7	1042
8	1043
9	1040
10	1005
11	804
12	1040
13	1043
14	696
15	750
16	1043

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1047
18	1042
19	1040
20	1047
21	1045
22	1047
23	1010
24	947
25	1041
26	1050
27	1046
28	1042
29	854
30	1021
31	1041

INSTRUCTIONS

On this form, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

These figures will be used to plot a graph for each reporting month. Note that when maximum dependable capacity is used for the net electrical rating of the unit, there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases, the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

11
12
13
14
15

APPENDIX C
OPERATING DATA REPORT

DOCKET NO. 50-315
UNIT #1
DATE 1-3-78
COMPLETED BY W. T. Gillett
TELEPHONE 616-465-5901

OPERATING STATUS

1. REPORTING PERIOD: 0001 77-12-01 GROSS HOURS IN REPORTING PERIOD: 2400 77-12-31
 2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 3250 MAX. DEPEND. CAPACITY (MWe-Net): 1044
 DESIGN ELECTRICAL RATING (MWe-Net): 1054
 3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): _____
 4. REASONS FOR RESTRICTION (IF ANY): _____

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	<u>679.6</u>	<u>6,854.4</u>	<u>20,622.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>463.0</u>
7. HOURS GENERATOR ON LINE	<u>674.4</u>	<u>6,662.8</u>	<u>19,969.8</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,068,940</u>	<u>*15,478,323</u>	<u>*51,556,193</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>686,950</u>	<u>5,019,520</u>	<u>16,765,090</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>662,018</u>	<u>4,785,779</u>	<u>16,050,214</u>
12. REACTOR SERVICE FACTOR	<u>91.3</u>	<u>78.1</u>	<u>81.9</u>
13. REACTOR AVAILABILITY FACTOR	<u>91.3</u>	<u>78.1</u>	<u>81.9</u>
14. UNIT SERVICE FACTOR	<u>90.6</u>	<u>76.1</u>	<u>80.2</u>
15. UNIT AVAILABILITY FACTOR	<u>90.6</u>	<u>76.1</u>	<u>80.2</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>85.2</u>	<u>52.3</u>	<u>68.4</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>84.4</u>	<u>51.8</u>	<u>62.9</u>
18. UNIT FORCED OUTAGE RATE	<u>9.4</u>	<u>8.7</u>	<u>6.9</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

*Includes a-25,820 BTU to correct an error made in September 1977 report.

APPENDIX D
UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-315

UNIT NAME D.C. Cook Plant
Unit 1

DATE 1-6-78

COMPLETED BY B. A. Svensson

TELEPHONE (616) 465-5901

REPORT MONTH DECEMBER, 1977

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
112	771201	F	69.6	O	1	Outage continued from November, 1977. Reason for outage was to replace unqualified electrical connectors on safety related circuits inside the containment. Unit returned to service 771203. Increasing power to 100%.
113	771210	S	0	B	4	Reduced reactor power to 65% for NIS Incore, Excore calibration surveillance test. Increased power to 100% 771211.
114	771214	F	0	A	4	Reduced reactor power to 45% due to problems with condensate booster pumps. Further reduced power to 30% due to condenser tube leakage. Increased power to 100% 771215.
115	771223	S	0	B	4	Reduced reactor power to 74% for moderator temperature coefficient surveillance test. Increased power to 100% 771224.
116	771228	S	0	A	4	Reduced reactor power to 74% to permit control valve testing due to EHC system low oil pressure problem. Power increase delayed due to failure of diaphragm valve on CVCS holdup tanks. Increased power to 100% 771230.

SUMMARY: Unit operated at 100% power except for above noted outages.

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PROCESSING UNIT

1978 JAN 10 AM 9 35