



A CMS Energy Company

Palisades Nuclear Plant  
27780 Blue Star Memorial Highway  
Covert, MI 49043

March 9, 2000

US Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

**DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT**  
LICENSEE REPORT OF MONTHLY OPERATING DATA

Enclosed is a copy of the Monthly Operating Data and Summary of Operating Experience for the Palisades Nuclear Plant for the month of February, 2000.

Also enclosed is a corrected copy of the Monthly Operating Data for the Palisades Nuclear Plant for the month of December, 1999. Note that the cumulative totals as reported in the January and February reports **do** include all corrections as would be needed from revising the December report.

If you have any questions or concerns, please contact me at (616) 764-3179.

Sincerely,

R. S. Hawn  
Reactor Engineering Supervisor

CC: JMMilan, Palisades  
GABaustian, Palisades  
Senior Resident Inspector, Palisades  
LBrandon, MI Dept. of Env. Qual, Div of Rad Health Services, Lansing, MI  
BWJorgensen, Michigan Dept of Labor, Lansing, MI  
RDWhale, Michigan Public Service Commission  
Records Center, INPO, Atlanta, GA  
SMMcIntyre, P26-204  
Region III Administrator, USNRC  
Pal. Eng. Records Center, 950\*22\*35\*10/L  
Cycle 15 Reports (SFP 00\*05)

IE24

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-255  
 UNIT Palisades  
 DATE 03/03/00  
 COMPLETED BY SFPierce  
 TELEPHONE (616)764-2239

MONTH FEBRUARY 2000

DAY	AVERAGE DAILY POWER LEVEL (MWe Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe Net)
1.	<u>777</u>	17.	<u>0</u>
2.	<u>778</u>	18.	<u>0</u>
3.	<u>779</u>	19.	<u>0</u>
4.	<u>528</u>	20.	<u>0</u>
5.	<u>0</u>	21.	<u>0</u>
6.	<u>0</u>	22.	<u>0</u>
7.	<u>0</u>	23.	<u>0</u>
8.	<u>0</u>	24.	<u>0</u>
9.	<u>0</u>	25.	<u>0</u>
10.	<u>0</u>	26.	<u>0</u>
11.	<u>0</u>	27.	<u>0</u>
12.	<u>0</u>	28.	<u>0</u>
13.	<u>0</u>	29.	<u>181</u>
14.	<u>0</u>	30.	<u>N/A</u>
15.	<u>0</u>	31.	<u>N/A</u>
16.	<u>0</u>		

INSTRUCTIONS:

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

## SUMMARY OF OPERATING EXPERIENCE FOR FEBRUARY 2000

The Plant began the month of February at essentially full power following the end of the refueling outage. The plant was at 99.9% power on February 1. The Plant was removed from service during the period beginning February 4 @ 2158 hrs for administrative control of Sodium in the Steam Generators and to replace a primary coolant pump seal. While the plant was off line, a balance adjustment was made to the turbine generator. The plant was heated to operating pressure and temperature on February 15, but control rod drive mechanism (CRDM) seal leakage prompted a return to cold shutdown. Eight CRDM seals were rebuilt, and the plant was returned to power early on February 29, ending the month at approximately 48.5% power.

OPERATING DATA REPORT

DOCKET NO: 50-255  
 DATE: 3-8-00  
 COMPLETED BY: SFPierce  
 TELEPHONE (616) 764-2239  
 NOTES:

OPERATING STATUS:

- |  |               |
|--|---------------|
| 1. UNIT NAME                               | Palisades     |
| 2. REPORTING PERIOD:                       | 000201-000229 |
| 3. LICENSED THERMAL POWER (Mwt)            | 2530          |
| 4. NAMEPLATE RATING (GROSS Mwe)            | 811.7         |
| 5. DESIGN ELECTRICAL RATING (NET Mwe)      | 805           |
| 6. MAXIMUM DEPENDABLE CAPACITY (GROSS Mwe) | 770 **        |
| 7. MAXIMUM DEPENDABLE CAPACITY (NET Mwe)   | 730 **        |
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEM NUMBERS 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 Month	Yr-to-Date	Cumulative
11. HOURS IN REPORTING PERIOD	696.0	1440.0	247191.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	131.1	875.1	151185.6
13. REACTOR RESERVE SHUTDOWN HOURS	-----	-----	-----
14. HOURS GENERATOR ON-LINE	116.2	860.2	145857.3
15. UNIT RESERVE SHUTDOWN HOURS	-----	-----	-----
16. GROSS THERMAL ENERGY GENERATED (MWH)	248362	1817879	326783069
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	77330	575379	103812901
18. NET ELECTRICAL ENERGY GENERATED (MWH)	73040	543483	98133644
19. UNIT SERVICE FACTOR	16.7%	59.7%	59.0%
20. UNIT AVAILABILITY FACTOR	16.7%	59.7%	59.0%
21. UNIT CAPACITY FACTOR (USING MDC NET)	14.4%	51.7%	57.6% *
22. UNIT CAPACITY FACTOR (USING DER NET)	13.0%	46.9%	49.3%
23. UNIT FORCED OUTAGE RATE	83.3%	40.3%	25.5%
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH):			

25. IF SHUTDOWN 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	_____	_____

\*\* Based on condenser backpressure

\* Weighted Average (635 MWe used as MDC Net prior to October 1985)

OPERATING DATA REPORT

DOCKET NO: 50-255  
 DATE: 1-4-00  
 COMPLETED BY: SMHandlovits  
 TELEPHONE (616) 764-3262

Revision 1

OPERATING STATUS:

NOTES:

- |  |               |
|--|---------------|
| 1. UNIT NAME                               | Palisades     |
| 2. REPORTING PERIOD:                       | 000201-000229 |
| 3. LICENSED THERMAL POWER (Mwt)            | 2530          |
| 4. NAMEPLATE RATING (GROSS Mwe)            | 811.7         |
| 5. DESIGN ELECTRICAL RATING (NET Mwe)      | 805           |
| 6. MAXIMUM DEPENDABLE CAPACITY (GROSS Mwe) | 770 **        |
| 7. MAXIMUM DEPENDABLE CAPACITY (NET Mwe)   | 730 **        |
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEM NUMBERS 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 Month	Yr-to-Date	Cumulative
11. HOURS IN REPORTING PERIOD	744.0	8760.0	245751.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	513.0	7026.9	150310.5
13. REACTOR RESERVE SHUTDOWN HOURS	-----	-----	-----
14. HOURS GENERATOR ON-LINE	425.4	6911.4	144997.1
15. UNIT RESERVE SHUTDOWN HOURS	-----	-----	-----
16. GROSS THERMAL ENERGY GENERATED (MWH)	477245.2	16746387.2	324965190.3
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	134741	5395936	103237522
18. NET ELECTRICAL ENERGY GENERATED (MWH)	120600	512836361	97590161
19. UNIT SERVICE FACTOR	57.2%	78.9%	59.0%
20. UNIT AVAILABILITY FACTOR	57.2%	78.9%	59.0%
21. UNIT CAPACITY FACTOR (USING MDC NET)	22.2%	80.2%	57.6% *
22. UNIT CAPACITY FACTOR (USING DER NET)	20.1%	72.7%	49.3%
23. UNIT FORCED OUTAGE RATE	11.8%	6.5%	25.4%
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH):			

25. IF SHUTDOWN 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	_____	_____

\*\* Based on condenser backpressure

\* Weighted Average (635 MWe used as MDC Net prior to October 1985)

REPORT MONTH FEBRUARY 2000

DOCKET NO 50-255  
 UNIT Palisades  
 DATE 03/03/00  
 COMPLETED BY SFPierce  
 TELEPHONE 616-764-2239

UNIT SHUTDOWNS AND POWER REDUCTIONS

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
1	2/4/2000	F	581	F	1				Chemistry control- Due to High Sodium Levels in Steam Generators

- |                                 |   |   |   |                               |
|---------------------------------|---|---|---|-------------------------------|
| 1.<br>F: Forced<br>S: Scheduled | 2.<br>Reason:<br>A-Equipment Failure (Explain)<br>B-Maintenance or Test<br>C-Refueling<br>D-Regulatory Restriction<br>E-Operator Training & License Examination<br>F-Administrative<br>G-Operational Error (Explain)<br>H-Other (Explain) | 3.<br>Method:<br>1-Manual<br>2-Manual Scram<br>3-Automatic Scram<br>4-Other (Explain) | 4.<br>Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161) | 5.<br>Exhibit I - Same Source |
|---------------------------------|---|---|---|-------------------------------|