



**Consumers  
Power  
Company**

Palisades Nuclear Plant: Route 2, Box 154, Covert, Michigan 49043

December 1, 1976

USNuclear Regulatory Commission  
Mail and Records Section  
Washington, D.C., 20555



Re: LICENSE REPORT OF MONTHLY OPERATING DATA  
DPR-20, Docket No. 50-255

Gentlemen:

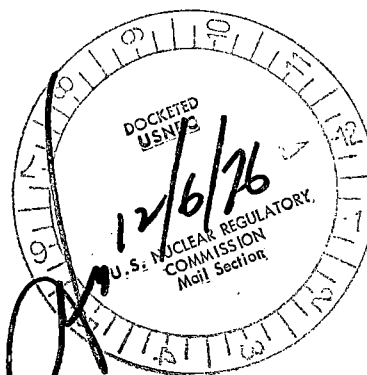
Enclosed is a copy of the Monthly Operating Data for the Palisades Nuclear Plant for the month of November 1976.

Also enclosed is a revised copy of Appendix A for the month of October 1976 reflecting .1 hour erroneously reported for the Hours Critical, and a correction in the Gross Thermal Energy Generated.

*W E Adams*

William E. Adams  
General Engineer

cc: JGKeppler, NRC  
RBDeWitt  
RBSewell  
DEVanFarowe, Div. of Radiological Health,  
Lansing, Mich.  
Document Control



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# APPENDIX D

UNIT Palisades  
 DATE Dec. 1, 1976  
~~616-764-8913~~  
 COMPLETED BY DIBollnow  
 DOCKET NO. 50-255

## OPERATING STATUS

1. REPORTING PERIOD: 761001 THROUGH 761031  
 HOURS IN REPORTING PERIOD: 745
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 2200 MAX. DEPENDABLE CAPACITY (MWe-NET) 684
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY): \_\_\_\_\_

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL . . . . .	<u>584.8</u>	<u>3,880.4</u>	<u>19,967.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	_____	_____	_____
7. HOURS GENERATOR ON LINE . . . . .	<u>577.4</u>	<u>3,601.4</u>	<u>18,575.2</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	_____	_____	_____
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,208,304</u>	<u>7,051,032</u>	<u>30,070,992</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>382,340</u>	<u>2,199,790</u>	<u>9,346,440</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>359,455</u>	<u>2,056,455</u>	<u>8,738,101</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>78.5%</u>	<u>53.0%</u>	<u>47.1%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>77.5%</u>	<u>49.2%</u>	<u>43.8%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>70.5%</u>	<u>41.1%</u>	<u>33.2%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>22.5%</u>	<u>14.1%</u>	<u>49.5%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):	_____		

17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: \_\_\_\_\_
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	_____
COMMERCIAL OPERATION	_____	_____

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

# APPENDIX D

UNIT Palisades  
 DATE Dec. 1, 1976  
616-764-8913  
 COMPLETED BY DIBollnow  
 DOCKET NO. 50-255

## OPERATING STATUS

1. REPORTING PERIOD: 761101 THROUGH 761130  
 HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 2200 MAX. DEPENDABLE CAPACITY (MWe-NET) 684
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY): \_\_\_\_\_

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL. . . . .	<u>574.1</u>	<u>4,454.5</u>	<u>20,541.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .			
7. HOURS GENERATOR ON LINE . . . . .	<u>537.2</u>	<u>4,138.6</u>	<u>19,112.4</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .			
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,080,384</u>	<u>8,131,416</u>	<u>31,151,376</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>347,280</u>	<u>2,547,070</u>	<u>9,693,720</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>326,235</u>	<u>2,382,690</u>	<u>9,064,336</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>79.7%</u>	<u>55.4%</u>	<u>47.7%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>74.6%</u>	<u>51.5%</u>	<u>44.3%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>66.3%</u>	<u>43.3%</u>	<u>33.8%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>25.4%</u>	<u>15.7%</u>	<u>49.1%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):			

17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: \_\_\_\_\_
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	_____
COMMERCIAL OPERATION	_____	_____

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS}} \times 100$

DOCKET NO. 50-255UNIT PalisadesDATE 12-1-76COMPLETED BY DIBollnow

## AVERAGE DAILY UNIT POWER LEVEL

MONTH November 1976DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	667
2	660
3	662
4	663
5	656
6	653
7	659
8	657
9	650
10	658
11	646
12	29
13	0
14	0
15	0
16	0

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	31
18	313
19	596
20	661
21	660
22	656
23	660
24	604
25	0
26	0
27	232
28	620
29	651
30	650
31	

## DAILY UNIT POWER LEVEL FORM 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 by using maximum dependable capacity 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.

APPENDIX E  
UNIT SHUTDOWNS

DOCKET NO. 50-255  
UNIT NAME Palisades  
DATE December 1, 1976  
COMPLETED BY DIBollnow

REPORT MONTH November 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
15	761112	F	128.6	A	3	Control Rod Drive repairs
16	761124	F	21.9	A	3	Generator Voltage Regulator repairs
17	761125	F	32.3	A	3	Generator Voltage Regulator Repairs
						<div> <div> (1) REASON A-EQUIPMENT FAILURE (EXPLAIN) B- MAINT. OR TEST C- REFUELING D-REGULATORY RESTRICTION E-OPERATOR TRAINING AND   LICENSE EXAMINATION F-ADMINISTRATIVE G-OPERATIONAL ERROR   (EXPLAIN) H-OTHER (EXPLAIN) </div> <div> (2) METHOD 1-MANUAL 2-MANUAL   SCRAM 3-AUTOMATIC   SCRAM </div> </div>

SUMMARY: The Plant operated at a nominal 99% rated power for most of the month. The forced shutdowns were due to CRD Seal Leakage and Generator Voltage regulator malfunctions.

116-E-1