

**NSP**

**NORTHERN STATES POWER COMPANY**

MINNEAPOLIS, MINNESOTA 55401

PDR

July 11, 1978

Director, Office of Management  
Information & Program Control  
c/o Distribution Services Branch, DDC, ADM  
U S Nuclear Regulatory Commission  
Washington, DC 20555

Dear Sir:

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

Monthly Operating Report  
June 1978

Attached are two copies of the Monthly Operating Report for June, 1978 for the Monticello Nuclear Generating Plant.

Yours very truly,

*L.O. Mayer*

L O Mayer, PE  
Manager of Nuclear Support Services

LOM/ak

cc: Director, IE-III, USNRC (1)  
Director, IE, USNRC (c/o DSB) (10)  
MPCA  
Attn: J W Ferman

REGULATORY DOCKET FILE COPY

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NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 50-263

UNIT Monticello

COMPLETED BY A. L. Myrabo

DATE July 6, 1978

Month June

6/1/78 Power Operation.

6/2/78 Reactor scram. Mode switch inadvertently placed in shutdown after loss of motor control center due to trip of breaker at 55% power.

6/3/78 Scheduled outage to repair top works of relief valve and  
to feedwater heater leaks. NOTE: Reactor was in a shutdown  
6/5/78 condition prior to the start of this outage.

6/5/78 Reactor scram. During startup, oscillating mechanical pressure regulator caused a reactor feedwater pump trip on reactor high water level. Restart of RFP resulted in an IRM high flux scram.

6/6/78  
to Power Operation.  
6/8/78

6/18/78 Reactor scram. After power reduction to 55% for load following, oscillating mechanical pressure regulator caused an APRM high flux scram.

6/9/78  
to Power operation.  
6/13/78

6/14/78 Power reduced to 65% to repair condensate feedwater pump.  
to  
6/20/78

6/21/78  
to Power operation.  
6/30/78

NOTE: The Unit load - followed on 12 days during this period.

# OPERATING DATA REPORT

DOCKET NO. 50-263  
 DATE 7- 6-78  
 COMPLETED BY A. L. Myrabo  
 TELEPHONE 612/295-5151

## OPERATING STATUS

- Notes
1. Unit Name : \_\_\_\_\_ Monticello
  2. Reporting period: \_\_\_\_\_ JUNE
  3. Licensed Thermal Power (Mwt): \_\_\_\_\_ 1670
  4. Nameplate Rating (Gross MWe): \_\_\_\_\_ 569
  5. Design Electrical Rating (Net MWe): \_\_\_\_\_ 545.4
  6. Maximum Dependable Capacity (Gross MWe): \_\_\_\_\_ 564
  7. Maximum Dependable Capacity (Net MWe): \_\_\_\_\_ 536
  8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: \_\_\_\_\_ N/A
  9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_ N/A
  10. Reasons For Restrictions, If Any: \_\_\_\_\_ N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	_____ 720	_____ 4343	_____ 61368
12. Number Of Hours Reactor Was Critical	_____ 646.5	_____ 4196.1	_____ 49364.5
13. Reactor Reserve Shutdown Hours	_____ 0.0	_____ 0.0	_____ 940.7
14. Hours Generator On-Line	_____ 630.9	_____ 4150.7	_____ 47928.1
15. Unit Reserve Shutdown Hours	_____ 0.0	_____ 0.0	_____ 0.0
16. Gross Thermal Energy Generated (MWH)	_____ 858055	_____ 6516521	_____ 80171095
17. Gross Electrical Energy Generated (MWH)	_____ 286880	_____ 2219320	_____ 24592010
18. Net Electrical Energy Generated (MWH)	_____ 273100	_____ 2133766	_____ 23510140
19. Unit Service Factor	_____ 87.6%	_____ 95.6%	_____ 78.1%
20. Unit Availability Factor	_____ 87.6%	_____ 95.6%	_____ 78.1%
21. Unit Capacity Factor (Using MDC Net)	_____ 70.8%	_____ 91.7%	_____ 71.5%
22. Unit Capacity Factor (Using DER Net)	_____ 69.5%	_____ 90.1%	_____ 70.2%
23. Unit Forced Outage Rate	_____ 5.9%	_____ 1.2%	_____ 7.4%
24. Shutdowns Scheduled Over Next 12 Months (Type, Date, and Duration of Each)			
Refueling Outage, October 16, 1978, 40 days			

25. If Shut Down At End Of Report Period, Estimated Date Of Startup: \_\_\_\_\_ N/A
26. Units In Test Status(Prior to Commercial Operation): N/A Forecast Achieved

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-263\_\_\_\_\_  
UNIT Monticello\_\_\_\_\_  
DATE 7- 6-78\_\_\_\_\_  
COMPLETED BY A. L. Myrabo  
TELEPHONE 612/295-5151

MONTH \_\_\_\_\_JUNE\_\_\_\_\_

DAY AVERAGE DAILY POWER LEVEL

(MWe-Net)

1	_____530_____
2	_____35_____
3	_____ -4 _____
4	_____ -4 _____
5	_____124_____
6	_____405_____
7	_____495_____
8	_____142_____
9	_____424_____
10	_____533_____
11	_____447_____
12	_____542_____
13	_____460_____
14	_____296_____
15	_____309_____
16	_____327_____

DAY AVERAGE DAILY POWER LEVEL

(MWe-Net)

17	_____337_____
18	_____326_____
19	_____321_____
20	_____335_____
21	_____408_____
22	_____518_____
23	_____533_____
24	_____413_____
25	_____447_____
26	_____539_____
27	_____535_____
28	_____537_____
29	_____534_____
30	_____537_____
31	_____

## 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.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June

DOCKET NO. 50-263  
 UNIT NAME Monticello  
 DATE 7-6-78  
 COMPLETED BY A. L. Myrabo  
 TELEPHONE 612/295-5151

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
4*	6-2-78	F	19.5	G	2	N/A	ZZ	ZZZZZZZ	Mode switch inadvertently placed in shutdown.
5	6-2-78	S	49.7	B	4	N/A	CC	VALVEX	Outage taken to repair 'D' relief valve top works and feedwater heater leaks.  NOTE: Reactor was in shutdown mode prior to the start of this outage.
6	6-5-78	F	10.0	H	3	N/A	CC	INSTRU-C	Oscillating mechanical pressure regulator caused reactor feedwater pump trip. Restart of pump resulted in IRM high flux scram.

<sup>1</sup> F - Forced  
 S - Scheduled

<sup>2</sup> Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup> Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Other (Explain)

<sup>4</sup> Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NU REG-0161)

<sup>5</sup> Exhibit I - Same Source

\* Reflects correction to yearly sequence number.

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REPORT MONTH June

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7	6-8-78	F	10.0	H	3	N/A	CC	INSTRU-C	Oscillating mechanical pressure regulator caused high flux APRM scram at 55% power.
8	6-14-78	F	0	B	4	N/A	CH	PUMPXX-B	Condensate feedwater pump high vibration. Power reduction to 65% to repair.
9	6-24-78	S	0		4	N/A	ZZ	ZZZZZZZZ	Pre-conditioning after rod adjustment.

<sup>1</sup>  
 F - Forced  
 S - Scheduled

<sup>2</sup>  
 Reason:  
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 C-Refueling  
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 Method:  
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<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) FD-1 (NU REG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source