



Northern States Power Company

Prairie Island Nuclear Generating Plant

1717 Wakonade Dr. East  
Welch, Minnesota 55089

January 5, 2000

Technical Specifications 6.7.A.3

US Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
Docket Nos. 50-282 License Nos. DPR-42  
50-306 DPR-60

**Monthly Operating Report  
December, 1999**

Attached is the Monthly Operating Report for December, 1999 for the Prairie Island Nuclear Generating Plant.

Joel P. Sorensen  
Site General Manager  
Prairie Island Nuclear Generating Plant

c: Regional Administrator-III, NRC  
NRR Project Manager, NRC  
NRC Resident Inspector  
State of Minnesota – Steve Minn

Attachment

DOCKET NO. 50-282  
UNIT PRAIRIE ISLAND NO. 1  
DATE 1/4/2000  
COMPLETED BY DALE DUGSTAD  
PHONE 651-388-1121-4376

**NARRATIVE SUMMARY OF OPERATING EXPERIENCE**

**MONTH: DECEMBER 1999**

During the month of December, Unit 1 was base loaded. There were no shutdowns and only three power reductions.

On the 12th the Unit's power was reduced to perform turbine valve testing and to clean the condenser tubes. The duration for this reduction was approximately 19.6 hours.

On the 14th the Unit's power was reduced to remove 11 Heater Drain Tank Pump from service to allow the pump to be repaired. After the pump was secured the Unit returned to full power operation but with only one heater drain tank pump in operation. Therefore the Unit's production was slightly reduced during this time.

On the 17th the Unit's power was reduced to return 11 Heater Drain Tank Pump to service. With two heater drain tank pumps in operation the Unit's production returned to normal. The duration for this reduction was approximately 92.1 hours.

There are no other items to report.

DOCKET NO. 50-282  
 UNIT PRAIRIE ISLAND NO. 1  
 DATE 1/4/2000  
 COMPLETED BY DALE DUGSTAD  
 PHONE 651-388-1121-4376

OPERATING DATA REPORT

OPERATING STATUS

- 1. UNIT NAME: PRAIRIE ISLAND NO. 1
- 2. REPORTING PERIOD: DECEMBER 1999
- 3. LICENSED THERMAL POWER (MWT): 1650
- 4. NAMEPLATE RATING (GROSS MWE): 593
- 5. DESIGN ELECTRICAL RATING (NET MWE): 536
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 554
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 522
- 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 - 7) SINCE LAST REPORT, GIVE REASON:  
 NONE
- 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): NONE
- 10. REASONS FOR RESTRICTIONS, IF ANY: NONE

	<u>THIS MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. HOURS IN REPORTING PERIOD	744	8760	228288
12. NUMBER OF HOURS REACTOR CRITICAL	744.0	7701.3	196488.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	5571.1
14. HOURS GENERATOR ON-LINE	744.0	7644.5	194583.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1206752	12474538	309704893
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	419550	4295620	102565590
18. NET ELECTRICAL ENERGY GENERATED (MWH)	399450	4068779	96512261
19. UNIT SERVICE FACTOR	100.0	87.3	85.2
20. UNIT AVAILABILITY FACTOR	100.0	87.3	85.2
21. UNIT CAPACITY FACTOR ( MDC NET)	102.9	89.0	83.5
22. UNIT CAPACITY FACTOR ( DER NET)	100.2	86.7	79.7
23. UNIT FORCED OUTAGE RATE	0.0	2.0	4.6
24. FORCED OUTAGE HOURS	0.0	156.6	9483.8

DOCKET NO. 50-282  
 UNIT PRAIRIE ISLAND NO. 1  
 DATE 1/4/2000  
 COMPLETED BY DALE DUGSTAD  
 PHONE 651-388-1121-4376

UNIT SHUTDOWNS AND POWER REDUCTIONS

MONTH: DECEMBER 1999

DATE	UNIT	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT
12/11/1999	1	S	0	B	5	N/A	N/A	N/A
	<b>NOTES:</b> Condenser Tube cleaning & Turbine valve testing.							
12/12/1999	1	S	0	B	5	N/A	N/A	N/A
	<b>NOTES:</b> Remove 11 Heater Drain Tank pump for repairs.							
12/17/1999	1	S	0	B	5	N/A	N/A	N/A
	<b>NOTES:</b> Return 11 Heater Drain Tank pump to service.							

<u>TYPE</u>	<u>REASON</u>	<u>METHOD</u>	<u>SYSTEM CODE</u>
F-FORCED	A-EQUIPMENT FAILURE	1-MANUAL	DRAFT IEEE STD 800-1984(P805-D5)
S-SCHEDULED	B-MAINTENANCE OR TEST	2-MANUAL TRIP	
	C-REFUELING	3-AUTO TRIP	
	D-REGULATORY RESTRICTION	4-CONTINUED	
	E-OPERATOR TRAINING AND LICENSE EXAMINATION	5-REDUCED LOAD	<u>COMPONENT CODE</u>
	F-ADMINISTRATIVE	9-OTHER	IEEE STD 803A-1983
	G-OPERATIONAL ERROR		
	H-OTHER		

DOCKET NO. 50-306  
UNIT PRAIRIE ISLAND NO. 2  
DATE 1/4/2000  
COMPLETED BY DALE DUGSTAD  
PHONE 651-388-1121-4376

**NARRATIVE SUMMARY OF OPERATING EXPERIENCE**

**MONTH: DECEMBER 1999**

During the month of December, Unit 2 was base loaded. There were no shutdowns and only one power reduction.

On the 4th the Unit's power was reduced to perform turbine valve testing and to clean the condenser tubes. The duration for this reduction was approximately 19.0 hours.

There are no other items to report.

DOCKET NO. 50-306  
UNIT PRAIRIE ISLAND NO. 2  
DATE 1/4/2000  
COMPLETED BY DALE DUGSTAD  
PHONE 651-388-1121-4376

OPERATING DATA REPORT

OPERATING STATUS

- 1. UNIT NAME: PRAIRIE ISLAND NO. 2
- 2. REPORTING PERIOD: DECEMBER 1999
- 3. LICENSED THERMAL POWER (MWT): 1650
- 4. NAMEPLATE RATING (GROSS MWE): 593
- 5. DESIGN ELECTRICAL RATING (NET MWE): 536
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 554
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 522
- 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 - 7) SINCE LAST REPORT, GIVE REASON:  
NONE
- 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE): NONE
- 10. REASONS FOR RESTRICTIONS, IF ANY: NONE

	<u>THIS MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. HOURS IN REPORTING PERIOD	744	8760	219406
12. NUMBER OF HOURS REACTOR CRITICAL	744.0	8725.8	194047.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1516.1
14. HOURS GENERATOR ON-LINE	744.0	8690.9	192475.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1208511	14136225	307287306
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	420600	4849010	100884940
18. NET ELECTRICAL ENERGY GENERATED (MWH)	401093	4597443	95383772
19. UNIT SERVICE FACTOR	100.0	99.2	87.7
20. UNIT AVAILABILITY FACTOR	100.0	99.2	87.7
21. UNIT CAPACITY FACTOR ( MDC NET)	103.3	100.5	86.4
22. UNIT CAPACITY FACTOR ( DER NET)	100.6	97.9	82.0
23. UNIT FORCED OUTAGE RATE	0.0	0.0	2.9
24. FORCED OUTAGE HOURS	0.0	0.0	5662.8

DOCKET NO. 50-306  
 UNIT PRAIRIE ISLAND NO. 2  
 DATE 1/4/2000  
 COMPLETED BY DALE DUGSTAD  
 PHONE 651-388-1121-4376

UNIT SHUTDOWNS AND POWER REDUCTIONS

MONTH: DECEMBER 1999

DATE	UNIT	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT
12/4/1999	2	S	0	B	5	N/A	N/A	N/A

NOTES: Condenser Tube cleaning & Turbine valve testing.

<u>TYPE</u>	<u>REASON</u>	<u>METHOD</u>	<u>SYSTEM CODE</u>
F-FORCED	A-EQUIPMENT FAILURE	1-MANUAL	DRAFT IEEE STD
S-SCHEDULED	B-MAINTENANCE OR TEST	2-MANUAL TRIP	800-1984(P805-D5)
	C-REFUELING	3-AUTO TRIP	
	D-REGULATORY RESTRICTION	4-CONTINUED	
	E-OPERATOR TRAINING AND LICENSE EXAMINATION	5-REDUCED LOAD	<u>COMPONENT CODE</u>
	F-ADMINISTRATIVE	9-OTHER	IEEE STD 803A-1983
	G-OPERATIONAL ERROR		
	H-OTHER		