



Northern States Power Company

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May 8, 1997

Prairie Island Technical Specifications  
Section 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  
April 1997

1/1  
1024

Attached is the Monthly Operating Report for April 1997 for the Prairie Island Nuclear Generating Plant.

*Don Schulte for*

Joel P Sorensen  
Plant Manager  
Prairie Island Nuclear Generating Plant

c: Regional Administrator-III, NRC  
NRR Project Manager, NRC  
NRC Resident Inspector  
State of Minnesota - Kris Sanda

Attachment



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PDR ADOCK 05000282  
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DOCKET NO. 50-282  
UNIT PRAIRIE ISLAND NO. 1  
DATE 05/08/97  
COMPLETED BY DALE DUGSTAD  
TELEPHONE 612-388-1121-4376

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

MONTH: APRIL 1997

Daylight Savings time began on the 6th.

Unit 1 was base loaded. A power reduction started on April 13 at 0504 for a Turbine Valve test. The test was completed at 0815 and the unit returned to full power operation by 1256 of the same day.

The cooling towers (pumps only) were started on the 1st. The cooling tower fans were started around the 18th.

On April 25th at 2205 the unit started down for a maintenance outage to perform AFWP Runout Protection design change and condenser tube cleaning. The turbine was taken off line at 0352 and the reactor was manually tripped (by procedures) at 0424 on 4/26/97. On April 27 at 1239 the reactor was taken critical. The turbine went on line at 1614 of the 27th and the unit returned to full power at 0500 on April 28th.

CURRENT CONTINUOUS OPERATING RUN OF 3 DAYS

DOCKET NO. 50-282

UNIT PRAIRIE ISLAND NO. 1

DATE 5/6/97

COMPLETED BY DALE DUGSTAD

TELEPHONE 612-388-1121-4376

AVERAGE DAILY POWER LEVELUNIT 1MONTH: APRIL 1997

<u>DATE:</u>	<u>AVERAGE DAILY POWER LEVEL</u>
4/1/97	520
4/2/97	520
4/3/97	520
4/4/97	520
4/5/97	523
4/6/97	522
4/7/97	524
4/8/97	529
4/9/97	522
4/10/97	533
4/11/97	528
4/12/97	528
4/13/97	432
4/14/97	528
4/15/97	529
4/16/97	527
4/17/97	524
4/18/97	510
4/19/97	514
4/20/97	521
4/21/97	509
4/22/97	516
4/23/97	515
4/24/97	515
4/25/97	505
4/26/97	-4
4/27/97	23
4/28/97	482
4/29/97	509
4/30/97	515

DOCKET NO. 50-282  
 UNIT PRAIRIE ISLAND NO. 1  
 DATE 5/6/97  
 COMPLETED BY DALE  
 DUGSTAD

OPERATING DATA REPORTOPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 1
2. REPORTING PERIOD: APRIL 1997
3. LICENSED THERMAL POWER (MWT): 1650
4. NAMEPLATE RATING (GROSS MWE): 593
5. DESIGN ELECTRICAL RATING (NET MWE): 530
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 545
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 513
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	719	2879	204887
12. NUMBER OF HOURS REACTOR CRITICAL	686.8	2846.8	176587.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.00	5571.1
14. HOURS GENERATOR ON-LINE	682.6	2842.6	174864.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	1102118	4651347	277704860
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	367320	1564040	91644650
18. NET ELECTRICAL ENERGY GENERATED (MWH)	346480	1484377	86199657
19. UNIT SERVICE FACTOR	94.9	98.7	85.3
20. UNIT AVAILABILITY FACTOR	94.9	98.7	85.3
21. UNIT CAPACITY FACTOR ( MDC NET)	93.9	100.5	83.4
22. UNIT CAPACITY FACTOR ( DER NET)	90.9	97.3	79.4
23. UNIT FORCED OUTAGE RATE	0	0	4.5
24. FORCED OUTAGE HOURS	0.0	0.0	8187.1

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

Refueling outage scheduled for October 15, 1997, approx. 50 days.

26. IF CURRENTLY SHUTDOWN, ESTIMATED STARTUP DATE:

N/A

# NRC MONTHLY REPORT

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DOCKET NO. 50-282  
UNIT PRAIRIE ISLAND NO. 1  
DATE 5/6/97  
COMPLETED BY DALE DUGSTAD  
TELEPHONE 612-388-1121-4376

## UNIT SHUTDOWNS AND POWER REDUCTIONS

MONTH: APRIL 1997

DATE	UNIT	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT
4/13/97	1	S	0	B	5	N/A	N/A	N/A
NOTES: Turbine valve testing								
4/25/97	1	S	36.4	B	2	N/A	N/A	N/A
NOTES: AFW Pmp modification & Cond Tube Cleaning								

TYPE	REASON	METHOD	SYSTEM CODE
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		

DOCKET NO. 50-306  
UNIT PRAIRIE ISLAND NO. 2  
DATE 5/6/97  
COMPLETED BY DALE DUGSTAD  
TELEPHONE 612-388-1121-4376

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

MONTH: APRIL 1997

Daylight Savings time began on the 6th.

During the first five days of April, Unit 2 was limited to less than 40% power due to the Aux Feedwater ATWS issue. Unit 2 was released from the HOLD point of 35% power on Saturday April 5th @ 2235 after receiving a Westinghouse evaluation on loss of FW ATWS. Next the unit ramped up in power, completing the required physics testing for cycle 18 refueling outage. It reached 100% power on the 8th @ 0800.

The Cooling Towers ( pumps only) were started on the 1st. The cooling tower fans were started around the 18th.

DOCKET NO. 50-306  
UNIT PRAIRIE ISLAND NO. 2

DATE 5/6/97  
COMPLETED BY DALE DUGSTAD  
TELEPHONE 612-388-1121-4376

AVERAGE DAILY POWER LEVELUNIT 2MONTH: APRIL 1997

<u>DATE:</u>	<u>AVERAGE DAILY POWER LEVEL</u>
4/1/97	151
4/2/97	151
4/3/97	152
4/4/97	152
4/5/97	160
4/6/97	269
4/7/97	459
4/8/97	534
4/9/97	533
4/10/97	534
4/11/97	533
4/12/97	533
4/13/97	535
4/14/97	532
4/15/97	533
4/16/97	532
4/17/97	531
4/18/97	522
4/19/97	522
4/20/97	529
4/21/97	512
4/22/97	523
4/23/97	521
4/24/97	519
4/25/97	520
4/26/97	524
4/27/97	525
4/28/97	519
4/29/97	511
4/30/97	518

DOCKET NO. 50-306  
 UNIT PRAIRIE ISLAND NO. 2  
 DATE 5/6/97  
 COMPLETED BY DALE DUGSTAD  
 TELEPHONE 612-388-1121-4376

### OPERATING DATA REPORT

#### OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 2
2. REPORTING PERIOD: APRIL 1997
3. LICENSED THERMAL POWER (MWT): 1650
4. NAMEPLATE RATING (GROSS MWE): 593
5. DESIGN ELECTRICAL RATING (NET MWE): 530
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 544
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 512
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): Less than 40% reactor power for five days.
10. REASONS FOR RESTRICTIONS, IF ANY: Due to AFW with loss of FW ATWS issue.

	<u>THIS MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. HOURS IN REPORTING PERIOD	719	2879	196005
12. NUMBER OF HOURS REACTOR CRITICAL	719.0	1383.2	172876.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.00	1516.1
14. HOURS GENERATOR ON-LINE	719.0	1341.8	171386.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	1034733	1959768	272881877
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	346140	654700	89289990
18. NET ELECTRICAL ENERGY GENERATED (MWH)	325918	608909	84419683
19. UNIT SERVICE FACTOR	100	46.6	87.4
20. UNIT AVAILABILITY FACTOR	100	46.6	87.4
21. UNIT CAPACITY FACTOR ( MDC NET)	88.5	41.3	85.8
22. UNIT CAPACITY FACTOR ( DER NET)	85.5	39.9	81.3
23. UNIT FORCED OUTAGE RATE	0	30.1	2.7
24. FORCED OUTAGE HOURS	0.0	577.2	4691.1
25. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH): N/A			
26. IF CURRENTLY SHUTDOWN, ESTIMATED STARTUP DATE: N/A			



# NRQ MONTHLY REPORT

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DOCKET NO. 50-306  
UNIT PRAIRIE ISLAND NO. 2  
DATE 5/6/97  
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TELEPHONE 612-388-1121-4376

## UNIT SHUTDOWNS AND POWER REDUCTIONS

MONTH: APRIL 1997

DATE	UNIT	TYPE	HOURS	REASON	METHOD	LER NUMBER	SYSTEM	COMPONENT
4/1/97	2	F	0	D	4	1-97-003		
NOTES: AFW ATWS issue limited unit to less than 40% pwr for the first 5 days.								
4/5/97	2	S	0	C	4	N/A	N/A	N/A
NOTES: Ramp up to full power operation from cycle 18 refueling outage.								

TYPE	REASON	METHOD	SYSTEM CODE
F-FORCED	A-EQUIPMENT FAILURE	1-MANUAL	DRAFT IEEE STD
S-SCHEDULED	B-MAINTENANCE OR TEST	2-MANUAL TRIP	800-1984(F805-D5)
	C-REFUELING	3-AUTO TRIP	
	D-REGULATORY RESTRICTION	4-CONTINUED	
	E-OPERATOR TRAINING AND LICENSE EXAMINATION	5-REDUCED LOAD	COMPONENT CODE
	F-ADMINISTRATIVE	9-OTHER	IEEE STD 803A-1983
	G-OPERATIONAL ERROR		
	H-OTHER		