

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 50-282
UNIT PRAIRIE ISLAND NO. 1
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121

MONTH: DECEMBER 1986

THE UNIT WAS BASE-LOADED THIS MONTH. ON THE 4TH POWER WAS REDUCED TO 99.5% TO ASSURE THAT IT WOULD NOT EXCEED THE LICENSE THERMAL LIMIT.

AT 1553 OF THE 12TH THE UNIT WAS TRIPPED WHILE TRYING TO FIND A PROBLEM WITH THE TURBINE CONTROL SYSTEM. THIS ENDED A CONTINUOUS RUN OF 245 DAYS. THE PROBLEMS WERE CORRECTED AND THE UNIT RETURNED TO SERVICE ON THE 13TH AT 1004.

ON THE 27TH AT 0947 AN NUC WAS DECLARED DUE TO BOTH DIESEL COOLING WATER PUMPS BEING OUT OF SERVICE. ACTION WAS TAKEN TO BRING THE UNIT TO A HOT SHUTDOWN CONDITION. TWENTY MINUTES LATER NUMBER 12 COOLING WATER PUMP WAS REPAIRED THUS ENDING THE NUC. THE UNIT THEN RETURNED TO NORMAL OPERATION. THERE WERE NO OTHER ITEMS TO REPORT.

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PDR ADOCK 05000282
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AVERAGE_DAILY_UNIT_POWER_LEVEL

DOCKET NO. 50-282
UNIT PRAIRIE ISLAND NO. 1
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121

MONTH: DECEMBER 1986

DAY	AVERAGE_DAILY_POWER_LEVEL (MWE-NET)
1	524
2	529
3	527
4	524
5	526
6	524
7	494
8	525
9	521
10	526
11	523
12	342
13	249
14	525
15	525
16	525
17	527
18	528
19	526
20	528
21	524
22	527
23	525
24	525
25	528
26	526
27	525
28	526
29	527
30	525
31	526

AVERAGE LOADS ABOVE 503 MWE-NET ARE DUE
TO COOLER CONDENSER CIRCULATING WATER

OPERATING DATA REPORT

DOCKET NO. 50-282
UNIT PRAIRIE ISLAND NO. 1
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121

OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 1
2. REPORTING PERIOD: DECEMBER 1986
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): 534
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 503
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 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

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	8760	114336
12. NUMBER OF HOURS REACTOR WAS CRITICAL	729.7	7898.1	95255.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	5571.1
14. HOURS GENERATOR ON-LINE	725.8	7871.3	93873.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1182969	12238355	147606968
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	399250	4060720	48261990
18. NET ELECTRICAL ENERGY GENERATED (MWH)	379216	3819563	45247397
19. UNIT SERVICE FACTOR	97.6	89.9	82.1
20. UNIT AVAILABILITY FACTOR	97.6	89.9	82.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	101.3	86.7	78.7
22. UNIT CAPACITY FACTOR (USING DER NET)	96.2	82.3	74.7
23. UNIT FORCED OUTAGE RATE	2.4	0.3	7.0
24. FORCED OUTAGE HOURS	18.2	24.3	7112.3
25. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH):			

REVEILING OUTAGE ON APRIL 8, 1987

26. IF CURRENTLY SHUTDOWN ESTIMATED STARTUP DATE: N/A

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO 50-282_
 UNIT NAME BEAIBIE ISLAND NO.1
 DATE JANUARY 5, 1987---
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121

MONTH: DECEMBER 1986-----

DATE YY/MM/DD	TYPE	HOURS 000.0	REASON	METHOD	LOG NUMBER	SYSTEM	COMPONENT
86/12/07	S	0.0	B	5	N/A	N/A	N/A
TURBINE VALVES TESTING.							
86/12/12	F	18.2	B	3	86-010	TA	N/A
TRIP CAUSED BY A GROUND SHORT OF THE EH SYSTEM.							
86/12/27	F	0.0	A	5	86-011	BI	N/A
NUE DUE TO LOSS OF BOTH DIESEL COOLING WATER PUMPS.							

TYPE	REASON	METHOD	SYSTEM CODE
F-FORCED	A-EQUIPMENT FAILURE	1-MANUAL	DRAFT IEEE STD
S-SCHED	B-MAINTENANCE OR TEST	2-MANUAL TRIP	805-1984(P805-D5)
	C-REFUELING	3-AUTO TRIP	
	D-REGULATORY RESTRICTION	4-CONTINUED	
	E-OPERATOR TRAINING & LICENSE EXAMINATION	5-REDUCED LOAD	COMPONENT CODE
	F-ADMINISTRATIVE	9-OTHER	IEEE STD 803A-1983
	G-OPERATOR ERROR		
	H-OTHER		

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 50-306
UNIT PRAIRIE ISLAND NO. 2
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121

MONTH: DECEMBER 1986

THE UNIT WAS BASE LOADED THIS MONTH.
DURING THE FIRST FEW DAYS POWER WAS REDUCED TO 97% DUE TO FQ LIMIT.

ON THE 4TH POWER WAS REDUCED TO 99.5% TO ASSURE THAT IT WOULD NOT EXCEED THE LICENSE THERMAL LIMIT.

ON THE 27TH AT 0947 AN NUC WAS DECLARED DUE TO BOTH DIESEL COOLING WATER PUMPS BEING OUT OF SERVICE. ACTION WAS TAKEN TO BRING THE UNIT TO A HOT SHUTDOWN CONDITION. TWENTY MINUTES LATER NUMBER 12 COOLING WATER PUMP WAS REPAIRED THUS ENDING THE NUC. THE UNIT THEN RETURNED TO NORMAL OPERATION.

ON THE 31ST AT 0259 POWER WAS REDUCED TO 75% TO ALLOW WORK ON THE REHEATER STOP VALVE. THE WORK WAS COMPLETED AND THE UNIT RETURNED TO 99.5% POWER AT 1143 OF THE SAME DAY. THERE WERE NO OTHER ITEMS TO REPORT.

AVERAGE_DAILY_UNIT_POWER_LEVEL

DOCKET NO. 50-306
UNIT PRAIRIE ISLAND NO. 2
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121

MONTH: DECEMBER 1986

DAY AVERAGE_DAILY_POWER_LEVEL (MWE-NET)

1	509
2	526
3	526
4	523
5	526
6	528
7	529
8	528
9	524
10	530
11	526
12	528
13	526
14	527
15	527
16	526
17	527
18	528
19	528
20	527
21	528
22	528
23	528
24	529
25	485
26	512
27	522
28	528
29	526
30	526
31	483

AVERAGE LOADS ABOVE 500 MWE-NET ARE DUE
TO COOLER CONDENSER CIRCULATING WATER

OPERATING DATA REPORT

DOCKET NO. 50-306
UNIT PRAIRIE ISLAND NO. 2
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121

OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 2
2. REPORTING PERIOD: DECEMBER 1986
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): 531
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 500
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 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

	THIS MONTH	YB-TQ-DAYE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	8760	105454
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	7972.1	91475.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1516.1
14. HOURS GENERATOR ON-LINE	744.0	7932.3	90434.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1202646	12326965	141999356
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	408450	4091000	45817080
18. NET ELECTRICAL ENERGY GENERATED (MWH)	389145	3860117	43349404
19. UNIT SERVICE FACTOR	100.0	90.6	85.8
20. UNIT AVAILABILITY FACTOR	100.0	90.6	85.8
21. UNIT CAPACITY FACTOR (USING MDC NET)	104.6	88.1	82.1
22. UNIT CAPACITY FACTOR (USING DER NET)	98.7	83.1	77.6
23. UNIT FORCED OUTAGE RATE	0.0	0.5	3.5
24. FORCED OUTAGE HOURS	0.0	43.5	3253.1
25. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH):	N/A		

26. IF CURRENTLY SHUTDOWN ESTIMATED STARTUP DATE: N/A

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO 50-306
UNIT NAME PEABIE ISLAND NO. 2
DATE JANUARY 5, 1987
COMPLETED BY DALE DUGSTAD
TELEPHONE 412-388-1121

MONTH: DECEMBER 1986

DATE YY/MM/DD	TYPE	HOURS 000.0	REASON	METHOD	LOG NUMBER	SYSTEM	COMPONENT
86/12/25	S	0.0	B	5	N/A	N/A	N/A
TURBINE VALVES TESTING.							
86/12/26	S	0.0	F	5	N/A	N/A	N/A
LOAD FOLLOW PER SYSTEM DISPATCH.							
86/12/27	F	0.0	A	5	86-011	BI	N/A
NUE DUE TO LOSS OF BOTH DIESEL COOLING WATER PUMPS.							
86/12/31	S	0.0	B	5	N/A	N/A	N/A
NEED TO REPAIR REHEATER STOP VALVE.							

TYPE	REASON	METHOD	SYSTEM CODE
F-FORCED	A-EQUIPMENT FAILURE	1-MANUAL	DRAFT IEEE STD
S-SCHED	B-MAINTENANCE OR TEST	2-MANUAL TRIP	805-1984(P805-D5)
	C-REFUELING	3-AUTO TRIP	
	D-REGULATORY RESTRICTION	4-CONTINUED	
	E-OPERATOR TRAINING & LICENSE EXAMINATION	5-REDUCED LOAD	COMPONENT CODE
	F-ADMINISTRATIVE	9-OTHER	IEEE STD 803A-1983
	G-OPERATOR ERROR		
	H-OTHER		



Northern States Power Company

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January 7, 1987

Prairie Island Technical Specification
Section 6.7.A.3

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

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket No. 50-282 License No. DPR-42
50-306 DPR-60

Monthly Operating Report
December, 1986

Attached is the Monthly Operating Report for December, 1986
for the Prairie Island Nuclear Generating Plant.

David Musolf
Manager of Nuclear Support Services

DMM/EFE/dab

c: Director Office of Resource Management
Regional Administrator-III, NRC
NRR Project Manager, NRC
NRC Resident Inspector
MPCA
Attn: J W Ferman

Attachment

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