



Northern States Power Company

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Minneapolis, Minnesota 55401-1927
Telephone (612) 330-5500

February 5, 1991

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 No. 50-282 License No. DPR-42
50-306 DPR-60

Monthly Operating Report
January, 1991

Attached is the Monthly Operating Report for January, 1991 for the Prairie
Island Generating Plant.

Thomas M Parker
Manager
Nuclear Support Service

TMP/jlk

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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OPERATING DATA REPORT

DOCKET NO. 50-282
 UNIT PRAIRIE ISLAND NO. 1
 DATE FEBRUARY 4, 1991
 COMPLETED BY DALE DUESTAD
 TELEPHONE 612-388-1121-4376

OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 1
2. REPORTING PERIOD: JANUARY 1991
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): 532
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	744	150144
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	127703.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	5571.1
14. HOURS GENERATOR ON-LINE	744.0	744.0	126156.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1224303	1224303	198886457
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	412780	412780	65275690
18. NET ELECTRICAL ENERGY GENERATED (MWH)	392901	392901	61275912
19. UNIT SERVICE FACTOR	100.0	100.0	84.0
20. UNIT AVAILABILITY FACTOR	100.0	100.0	84.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	105.0	105.0	81.1
22. UNIT CAPACITY FACTOR (USING DER NET)	99.6	99.6	77.0
23. UNIT FORCED OUTAGE RATE	0.0	0.0	5.6
24. FORCED OUTAGE HOURS	0.0	0.0	7540.3
25. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH):			

REFUELING AND MAINTENANCE OUTAGE SCHEDULED ON JUNE 5, FOR 26 DAYS

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-306
 UNIT PRAIRIE ISLAND NO. 2
 DATE FEBRUARY 4, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

MONTH JANUARY 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	526
2	526
3	526
4	525
5	527
6	526
7	524
8	526
9	529
10	524
11	525
12	529
13	526
14	530
15	521
16	529
17	528
18	527
19	528
20	526
21	526
22	527
23	527
24	526
25	528
26	527
27	527
28	527
29	529
30	524
31	526

AVERAGE LOADS ABOVE 530 MWE-NET ARE DUE
 TO COOLER CONDENSER CIRCULATING WATER

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO 50-396
 UNIT NAME FRAIBIE ISLAND NO. 2
 DATE FEBRUARY 9, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

MONTH: JANUARY 1991

DATE YY/MM/DD	TYPE	HOURS 000.0	REASON	METHOD	LES NUMBER	SYSTEM	COMPONENT
91/01/01	NONE						

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-OPERATIONAL ERROR		
	H-OTHER		

DAY	GROSS GENERATION		MONTH OF STATION USE		JANUARY AVERAGE		1991 GENERATOR DIFF		TOTAL STATION USE	
	U1	U2	U1	U2	U1	U2	U1	U2	USE	DAY
1	1330	1325	641	625	527	526	1330	1325	1266	1
2	1323	1324	642	624	525	526	7	1	1266	2
3	1333	1326	640	633	529	526	10	2	1273	3
4	1330	1321	639	614	528	525	3	5	1253	4
5	1334	1327	639	623	529	527	4	6	1262	5
6	1331	1324	639	622	528	526	3	3	1261	6
7	1331	1321	641	625	520	524	0	3	1266	7
8	1332	1325	643	625	528	526	1	4	1269	8
9	1342	1333	643	624	532	529	10	8	1267	9
10	1320	1320	645	624	523	524	22	13	1269	10
11	1326	1321	641	620	526	525	6	1	1261	11
12	1336	1331	644	626	530	529	10	10	1270	12
13	1333	1325	640	622	529	526	3	6	1262	13
14	1339	1335	646	627	531	530	1	10	1273	14
15	1320	1313	634	617	524	521	19	22	1251	15
16	1338	1332	646	626	531	529	18	17	1272	16
17	1334	1329	644	623	529	528	4	3	1267	17
18	1331	1317	642	624	528	527	3	2	1266	18
19	1335	1330	643	624	529	528	4	3	1267	19
20	1330	1325	642	624	527	526	5	5	1266	20
21	1332	1325	643	626	528	526	2	0	1269	21
22	1332	1326	638	623	528	527	0	1	1261	22
23	1332	1328	640	622	528	527	0	2	1262	23
24	1330	1324	638	623	528	526	2	4	1261	24
25	1334	1330	643	623	529	528	4	6	1266	25
26	1333	1327	643	624	529	527	1	3	1267	26
27	1330	1327	635	618	528	527	3	0	1253	27
28	1332	1327	635	621	529	527	2	0	1256	28
29	1337	1331	652	624	530	529	5	4	1276	29
30	1323	1319	624	619	526	524	12	12	1243	30
31	1333	1327	638	623	528	527	8	8	1261	31
41278		41105	19863	19318	TOTALS				39181	

1GT	1MT	10B	1R	CT1	2M	2G	2RY	2RX
129751	29609	6781	77879	7259	108445	52391	4962	9407
88473	9219	2472	72848	7068	89927	11286	4421	2407
41278	19690	307	931	194	18518	41105	341	0
X	X	X	X	X	X	X	X	X
10000	1000	1000	1000	1000	1000	10000	1000	000
STATION USE		PLANNED	MAINT	FORCED	# OF CONTINUOUS			
		OUTAGE	OUTAGE	OUTAGE	OPERATING DAYS			
		HOURS	HOURS	HOURS				
UNIT 1	19863	000.0	00.0	0.0	070			
UNIT 2	19318	000.0	00.0	0.0	032			
TOTAL	39181							

UNIT 1 BURMUP IS 1175 MWD/MTU X 43.415 MTU = 51012.620 MWD X 24 HOURS/DAY
= 1224303 MWHR

UNIT 2 BURMUP IS 1179 MWD/MTU X 43.315 MTU = 51068.386 MWD X 24 HOURS/DAY
= 1225641 MWHR

HEAT RATE UNIT 1 UNIT 2 COPY TO DON BAXA
10120.22 10173.92

Corrected station use #'s
1430 2-4-91

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 59-282
 UNIT PRAIRIE ISLAND NO. 1
 DATE FEBRUARY 4, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-389-1121-4376

Corrected day
 31 ~~2~~

MONTH: JANUARY 1991

DAY AVERAGE DAILY POWER LEVEL (MWE-NET)

1	527
2	525
3	529
4	528
5	529
6	528
7	528
8	528
9	532
10	523
11	526
12	530
13	529
14	531
15	524
16	531
17	529
18	528
19	529
20	527
21	528
22	528
23	528
24	528
25	529
26	529
27	528
28	529
29	530
30	526
31	529

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

OPERATING DATA REPORT

DOCKET NO. 59-282
 UNIT PRAIRIE ISLAND NO. 1
 DATE FEBRUARY 4, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

Corrected line # 18

OPERATING STATUS

X

1. UNIT NAME: PRAIRIE ISLAND NO. 1
2. REPORTING PERIOD: JANUARY 1991
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	744	150144
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	127703.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	5571.1
14. HOURS GENERATOR ON-LINE	744.0	744.0	126156.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1224303	1224303	198886457
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	412780	412780	65275690
18. NET ELECTRICAL ENERGY GENERATED (MWH)	392917	392917	6127728
19. UNIT SERVICE FACTOR	100.0	100.0	84.0
20. UNIT AVAILABILITY FACTOR	100.0	100.0	84.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	105.0	105.0	81.1
22. UNIT CAPACITY FACTOR (USING DER NET)	99.6	99.6	77.0
23. UNIT FORCED OUTAGE RATE	0.0	0.0	5.6
24. FORCE MAINTENANCE HOURS	0.0	0.0	7540.3
25. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH):			

REFUELING AND MAINTENANCE OUTAGE STARTING ON JUNE 5, FOR 26 DAYS

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-306
 UNIT PRAIRIE ISLAND NO. 2
 DATE FEBRUARY 4, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

MONTH: JANUARY 1991

Corrected day 31

X

DAY AVERAGE DAILY POWER LEVEL (MWE-NET)

1	526
2	526
3	526
4	525
5	527
6	526
7	524
8	526
9	529
10	524
11	525
12	529
13	526
14	530
15	521
16	529
17	528
18	527
19	528
20	526
21	526
22	527
23	527
24	526
25	528
26	527
27	527
28	527
29	529
30	524
31	527

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 FEBRUARY 4, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

Corrected line # 18

OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 2
2. REPORTING PERIOD: JANUARY 1991
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	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	744	141262
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	124431.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1516.1
14. HOURS GENERATOR ON-LINE	744.0	744.0	123115.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1225641	1225641	194692639
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	411050	411050	63190460
18. NET ELECTRICAL ENERGY GENERATED (MWH)	391732	391732	59753223
19. UNIT SERVICE FACTOR	100.0	100.0	87.2
20. UNIT AVAILABILITY FACTOR	100.0	100.0	87.2
21. UNIT CAPACITY FACTOR (USING MDC NET)	105.3	105.3	84.6
22. UNIT CAPACITY FACTOR (USING DER NET)	99.3	99.3	79.8
23. UNIT FORCED OUTAGE RATE	0.0	0.0	3.1
24. FORCED OUTAGE HOURS	0.0	0.0	3964.0
25. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH):			

N/A

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