



Northern States Power Company

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April 10, 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
March, 1991

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

Thomas M Parker
Manager
Nuclear Support Service

TMP/jik

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

Attachment

9104160225 910331
PDR ADOCK 03006282
R PDR

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 50-282
UNIT PRAIRIE ISLAND NO.1
DATE APRIL 2, 1991
COMPLETED BY DALE DUGSTAD
TELEPHONE 612-388-1121-4376

MONTH: MARCH -----1221---

THE UNIT WAS BASE LOADED THIS MONTH, THERE WERE NO SHUTDOWNS.

DURING THE WEEK OF THE SEVENTEENTH IT WAS OBSERVED THAT THE MWE OUTPUT OF THE UNIT WAS SLOWLY DECREASING. CONDENSER TUBE PLUGGING WAS SUSPECTED. ON THE TWENTY-SECOND AT 2100 A POWER REDUCTION WAS STARTED TO ALLOW INSPECTION OF THE CONDENSER OUTER PASS WATER BOX. IT WAS DISCOVERED THAT THE PROBLEM WAS DUE TO AIR ENTRAPMENT AT THE TOP OF THE WATER BOX. REPAIRS WERE MADE TO THE WATER BOX AIR EJECTOR SYSTEM. THE UNIT STARTED TO RAMP UP AT 1532 OF THE TWENTY-FOURTH AND REACHED FULL POWER OPERATION AT 2225. THERE WERE NO OTHER REDUCTIONS.

CURRENT CONTINUOUS OPERATING RUN OF 129 DAYS.

AVERAGE_DAILY_UNIT_POWER_LEVEL

DOCKET NO. 50-282
 UNIT PRAIRIE ISLAND NO. 1
 DATE APRIL 2, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

MONTH: MARCH -----1991---

DAY	AVERAGE_DAILY_POWER_LEVEL (MWE-NET)
1	528
2	529
3	527
4	528
5	529
6	528
7	528
8	528
9	529
10	527
11	527
12	528
13	527
14	529
15	529
16	527
17	528
18	526
19	528
20	524
21	522
22	514
23	191
24	249
25	528
26	524
27	521
28	526
29	526
30	524
31	523

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 APRIL 2, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 1
2. REPORTING PERIOD: MARCH 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	YB-TQ-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	2160	151560
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2160.0	129119.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	5571.1
14. HOURS GENERATOR ON-LINE	744.0	2160.0	127572.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1182625	3509322	201171476
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	397030	1181450	66044360
18. NET ELECTRICAL ENERGY GENERATED (MWH)	377131	1123802	62006813
19. UNIT SERVICE FACTOR	100.0	100.0	84.2
20. UNIT AVAILABILITY FACTOR	100.0	100.0	84.2
21. UNIT CAPACITY FACTOR (USING MDC NET)	100.0	103.4	81.3
22. UNIT CAPACITY FACTOR (USING DER NET)	95.6	98.2	77.2
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):			

--- REEUELING AND MAINTENANCE OUTAGE STARTING ON JUNE 5 FOR 24 DAYS ---

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

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO 50-282
 UNIT NAME ESBARIE ISLAND NO. 1
 DATE APRIL 2, 1991
 COMPLETED BY DALE DUGSIAD
 TELEPHONE 612-388-1121-4376

MONTH: MARCH 1991

DATE YY/MM/DD	TYPE	HOURS 000.0	REASON	METHOD	LOG NUMBER	SYSTEM	COMPONENT
91/03/22	F	0.0	A	5	N/A	SH	EJR

AIR ENTRAPMENT IN CONDENSER WATER BOX DUE TO WATER BOX AIR EJECTOR PROBLEM.

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(P00J-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		

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

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

MONTH: MARCH ----- 1991

THE UNIT WAS BASE LOADED THIS MONTH, THERE WERE NO SHUTDOWNS.

ON THE FIRST AT 2318 REACTOR POWER WAS REDUCED TO 97% POWER SO THAT THE UNIT WOULD NOT EXCEED CORE PEAKING FACTORS (FP) AS REQUIRED BY TECHNICAL SPECIFICATIONS. THIS DERATE CONTINUED FOR THE ENTIRE MONTH.

ON THE TENTH AT 0600 POWER WAS REDUCED TO 92% TO ALLOW REPAIRS TO 25A FEEDWATER HEATER. A STEAM LEAK OF THE RELIEF VALVE FLANGE HAD DEVELOPED. REPAIRS WERE COMPLETED BY 1214 OF THE TWELFTH AND THE UNIT RETURNED TO 97% POWER OPERATION BY 1300.

THERE WERE NO OTHER REDUCTIONS.

COOLING TOWERS NUMBERS 122, 123 AND 124 WERE PLACED INTO OPERATION DURING THE LAST WEEK OF THIS MONTH. TOWER 121 WILL BE STARTED WHEN REPAIRS ARE COMPLETED.

CURRENT CONTINUOUS OPERATING RUN OF 060 DAYS.

AVERAGE_DAILY_UNIT_POWER_LEVEL

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

MONTH: MARCH -----1991---

DAY	AVERAGE_DAILY_POWER_LEVEL (MWE-NET)
1	525
2	511
3	510
4	511
5	510
6	511
7	511
8	511
9	512
10	492
11	500
12	506
13	510
14	511
15	511
16	511
17	510
18	511
19	510
20	509
21	508
22	509
23	508
24	508
25	509
26	512
27	502
28	509
29	507
30	508
31	506

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 APRIL 2, 1991
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4376

OPERATING STATUS

1. UNIT NAME: PRAIRIE ISLAND NO. 2
2. REPORTING PERIOD: MARCH 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	2160	142678
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2160.0	125847.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1516.1
14. HOURS GENERATOR ON-LINE	744.0	2160.0	124531.5
15. UNIT RESERVE SHUTDOWN HRS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1188217	3515792	196982790
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	398210	1178970	63958380
18. NET ELECTRICAL ENERGY GENERATED (MWH)	378723	1122661	60484152
19. UNIT SERVICE FACTOR	100.0	100.0	87.3
20. UNIT AVAILABILITY FACTOR	100.0	100.0	87.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	101.8	104.0	84.8
22. UNIT CAPACITY FACTOR (USING DER NET)	96.0	98.1	80.0
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

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

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO 50-306
 UNIT NAME BEAIRIE ISLAND NO. 2
 DATE APRIL 2 1981
 COMPLETED BY DALE DUGSTAD
 TELEPHONE 612-388-1121-4326

MONTH: MARCH 1981

DATE YY/MM/DD	TYPE	HOURS 000.0	REASON	1	2	3	NUMBER	SYSTEM	COMPONENT
91/03/01	F	0.0	F	5			N/A	N/A	N/A
CORE PEAKING FACTORS (FQ). REDUCTION OF 3% LASTED ALL MONTH.									
91/03/10	S	0.0	A	5			N/A	SJ	HX
25A FEEDWATER HEATER RELIEF VALVE FLANGE STEAM LEAK.									

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		