

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 50-282

UNIT Prairie Island No. 1

DATE 791101

COMPLETED BY A. A. Hunstad

TELEPHONE 612-388-4767

MONTH OCTOBER 1979

On October 2nd a tube break occurred in No. 11 Steam Generator. The resultant leakage caused a reactor trip at 1424 hours on low pressurizer pressure and safety injection initiation five seconds later. All safety systems functioned as designed, and the reactor was shutdown and cooled down and the steam generator isolated expeditiously following existing operating procedures. It was found that a foreign object (a spring) had caused mechanical wear of the failed tube and one or two more tubes. Six tubes were plugged, a pressure test conducted and the steam generator was returned to service. The unit was returned to service at 0645 on October 23rd.

1329 122

7911140 180

DAILY UNIT POWER OUTPUT

DOCKET NO. 50-282
UNIT Prairie Island No. 1
DATE 791101
COMPLETED BY A. A. Hunstad
TELEPHONE 612-388-4767

MONTH OCTOBER 1979

<u>DAY</u>	<u>AVERAGE LOAD MWe-Net</u>	<u>DAY</u>	<u>AVERAGE LOAD MWe-Net</u>
1	<u>402</u>	17	<u>-3</u>
2	<u>277</u>	18	<u>-3</u>
3	<u>-11</u>	19	<u>-15</u>
4	<u>-5</u>	20	<u>-19</u>
5	<u>-5</u>	21	<u>-20</u>
6	<u>-4</u>	22	<u>-19</u>
7	<u>-4</u>	23	<u>143</u>
8	<u>-4</u>	24	<u>269</u>
9	<u>-4</u>	25	<u>419</u>
10	<u>-3</u>	26	<u>481</u>
11	<u>-3</u>	27	<u>479</u>
12	<u>-3</u>	28	<u>479</u>
13	<u>-3</u>	29	<u>476</u>
14	<u>-3</u>	30	<u>476</u>
15	<u>-3</u>	31	<u>474</u>
16	<u>-3</u>		

Average loads above 503 MWe-Net are due to cooler condenser circulating water.

1329 123

OPERATING DATA REPORT

DOCKET NO 50-282
 DATE 791101
 COMPLETED BY A. A. Hunstad
 TELEPHONE 612-388-4767

OPERATING STATUS

1. Unit Name: Prairie Island No. 1
2. Reporting Period: October 1979
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): 501
7. Maximum Dependable Capacity (Net MWe): 470
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report:
Give Reason: _____
9. Power Level To Which Restricted, If Any (Net MWe): _____
10. Reasons for Restrictions, if Any: _____

Notes

ICP 119, Rev. 11

	This Month	Yr-To-Date	Cumulative
11. Hours In Reporting Period	<u>745</u>	<u>7296</u>	<u>51504</u>
12. Number Of Hours Reactor Was Critical	<u>252.2</u>	<u>5308.0</u>	<u>39997.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>824.1</u>	<u>5279.2</u>
14. Hours Generator On Line	<u>248.7</u>	<u>5216.1</u>	<u>38933.3</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>372109</u>	<u>8094243</u>	<u>60374825</u>
17. Gross Electrical Energy Generated (MWH)	<u>113390</u>	<u>2590980</u>	<u>19621870</u>
18. Net Electrical Energy Generated (MWH)	<u>102195</u>	<u>2416833</u>	<u>18345265</u>
19. Unit Service Factor	<u>33.4</u>	<u>71.5</u>	<u>75.6</u>
20. Unit Availability Factor	<u>33.4</u>	<u>71.5</u>	<u>75.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>29.2</u>	<u>70.5</u>	<u>70.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>25.9</u>	<u>62.5</u>	<u>67.2</u>
23. Unit Forced Outage Rate	<u>66.6</u>	<u>19.4</u>	<u>13.5</u>
24. Shutdowns Scheduled Over Next 12 Months (Type, Date and Duration of Each): <u>Refueling, Summer 1980, 5 weeks</u>			
25. If Shut Down at End Of Report Period, Estimated Date of Startup: _____			

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER 1979

DOCKET NO. 50-282
 UNIT NAME Prairie Island No. 1
 DATE 791101
 COMPLETED BY A. A. Hunstad
 TELEPHONE 512-333-4767

Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
791002	F	496.3	A	3	79-27	HJ	HTEXCH	Shutdown due to rupture of one tube in No. 11 Steam Generator.

¹ F: Forced
 S: Scheduled

² Reason
 A-Equipment Failure(Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³ Method:
 1-Manual
 2-Manual Trip
 3-Automatic Trip
 4-Other (Explain)

⁴ Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0151)

⁵ Exhibit I - Same Source

PINCP 120, Rev. 4

1329 125

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

DOCKET NO. 50-306

UNIT Prairie Island No. 2

DATE 791101

COMPLETED BY A. A. Hunstad

TELEPHONE 612-388-4767

MONTH OCTOBER 1979

The unit was in Load Follow operation this month; no shutdowns.

1329 126

PINCP 553 Rev 0

DAILY UNIT POWER OUTPUT

DOCKET NO. 50-306
UNIT Prairie Island No. 2
DATE 791101
COMPLETED BY A. A. Hunstad
TELEPHONE 612-388-4767

MONTH OCTOBER 1979

<u>DAY</u>	<u>AVERAGE LOAD MWe-Net</u>	<u>DAY</u>	<u>AVERAGE LOAD MWe-Net</u>
1	<u>497</u>	17	<u>514</u>
2	<u>418</u>	18	<u>511</u>
3	<u>509</u>	19	<u>509</u>
4	<u>514</u>	20	<u>503</u>
5	<u>514</u>	21	<u>508</u>
6	<u>516</u>	22	<u>510</u>
7	<u>517</u>	23	<u>515</u>
8	<u>511</u>	24	<u>509</u>
9	<u>518</u>	25	<u>506</u>
10	<u>508</u>	26	<u>505</u>
11	<u>509</u>	27	<u>499</u>
12	<u>518</u>	28	<u>474</u>
13	<u>518</u>	29	<u>496</u>
14	<u>471</u>	30	<u>500</u>
15	<u>515</u>	31	<u>497</u>
16	<u>514</u>		

Average loads above 500 MWe-Net are due to cooler condenser circulating water.

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OPERATING DATA REPORT

DOCKET NO 50-306
 DATE 791101
 COMPLETED BY A. A. Hunstad
 TELEPHONE 612-388-4767

OPERATING STATUS

1. Unit Name: Prairie Island No. 2
2. Reporting Period: October 1979
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: _____
9. Power Level To Which Restricted If Any (Net MWe): _____
10. Reasons for Restrictions, if Any: _____

Notes

GP 119, Rev. 11

	This Month	Yr-To-Date	Cumulative
11. Hours In Reporting Period	<u>745</u>	<u>7296</u>	<u>42622</u>
12. Number Of Hours Reactor Was Critical	<u>745.0</u>	<u>7242.2</u>	<u>37685.8</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>6.5</u>	<u>1385.2</u>
14. Hours Generator On Line	<u>745.0</u>	<u>7229.8</u>	<u>36965.4</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (BWH)	<u>1121050</u>	<u>11326804</u>	<u>57346089</u>
17. Gross Electrical Energy Generated (MWH)	<u>400100</u>	<u>3717820</u>	<u>18305560</u>
18. Net Electrical Energy Generated (MWH)	<u>375449</u>	<u>3489459</u>	<u>17135047</u>
19. Unit Service Factor	<u>100.0</u>	<u>99.1</u>	<u>86.7</u>
20. Unit Availability Factor	<u>100.0</u>	<u>99.1</u>	<u>86.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.8</u>	<u>95.7</u>	<u>80.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>95.1</u>	<u>90.2</u>	<u>75.9</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.3</u>	<u>5.0</u>
24. Shutdowns Scheduled Over Next 12 Months (Type, Date and Duration of Each): <u>Refueling, January 1980, 5 weeks</u>			
25. If Shut Down at End Of Report Period, Estimated Date of Startup: _____			

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER 1979

DOCKET NO. 50-306
 UNIT NAME Prairie Island No. 2
 DATE 791101
 COMPLETED BY A. A. Hunstad
 TELEPHONE 512-333-4767

PINGP 120, Rev. 4

Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting ³ Down Reactor	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence

¹ F: Forced
S: Scheduled

² Reason
 A-Equipment Failure(Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³ Method:
 1-Manual
 2-Manual Trip
 3-Automatic Trip
 4-Other (Explain)

⁴ Exhibit G-In-
 structions for
 Preparation of
 Data Entry Sheets
 for Licensee Event
 Report (LER) File
 (NUREG-0161)

⁵ Exhibit 1 - Same Source

1329 129

CORRECTED
OPERATING DATA REPORT

DOCKET NO 50-306
DATE 791001
COMPLETED BY A. A. Hunstad
TELEPHONE 612-388-4767

OPERATING STATUS

Notes

CP 119, Rev. 11

1. Unit Name: Prairie Island No. 2
2. Reporting Period: September 1979
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: _____
9. Power Level To Which Restricted, If Any (Net MWe): _____
10. Reasons for Restrictions, If Any: _____

	This Month	Yr-To-Date	Cumulative
11. Hours In Reporting Period	720	6551	41877
12. Number Of Hours Reactor Was Critical	720.0	6497.2	36940.8
13. Reactor Reserve Shutdown Hours	0.0	6.5	1385.2
14. Hours Generator On Line	720.0	6484.8	36220.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1154994	10205754	56225039
17. Gross Electrical Energy Generated (MWH)	369820	3317720	17905460
18. Net Electrical Energy Generated (MWH)	347023	3114010	16759598
19. Unit Service Factor	100.0	99.0	86.5
20. Unit Availability Factor	100.0	99.0	86.5
21. Unit Capacity Factor (Using MDC Net)	96.4	95.1	80.0
22. Unit Capacity Factor (Using DER Net)	90.9	89.7	75.5
23. Unit Forced Outage Rate	0.0	0.3	5.1

24. Shutdowns Scheduled Over Next 12 Months (Type, Date and Duration of Each):
Refueling, January 1980, 5 weeks
25. If Shut Down at End Of Report Period, Estimated Date of Startup: _____