

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 02/01/83
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

JANUARY 83

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	-5.	17	-5.
2	-5.	18	-5.
3	-5.	19	-6.
4	-6.	20	-6.
5	-5.	21	-5.
6	-5.	22	-5.
7	-5.	23	-6.
8	-5.	24	-5.
9	-5.	25	-6.
10	-5.	26	-6.
11	-5.	27	-6.
12	-5.	28	-5.
13	-5.	29	-5.
14	-5.	30	-5.
15	-6.	31	-5.
16	-6.		

OPERATING DATA REPORT

DOCKET NO. 050-0325
 DATE 02/01/83
 COMPLETED BY FRANCES HARRISON
 TELEPHONE 919-457-9521

OPERATING STATUS

	I	NOTES	I
1. UNIT NAME: BRUNSWICK UNIT 1	I		I
2. REPORTING PERIOD: JANUARY 83	I		I
3. LICENSED THERMAL POWER (MWT): 2436	I		I
4. NAMEPLATE RATING (GROSS MWE): 867.0	I		I
5. DESIGN ELECTRICAL RATING (NET MWE): 821.0	I		I
6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0	I		I
7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0	I		I

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS:			

9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): NONE
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	744.0	51505.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	0.0	33888.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	0.0	0.0	31970.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	0.0	63896014.3
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	21062188.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	-3996.0	-3996.0	20221123.0
19. UNIT SERVICE FACTOR	0.0	0.0	62.1
20. UNIT AVAILABILITY FACTOR	0.0	0.0	62.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	-0.7	-0.7	49.7
22. UNIT CAPACITY FACTOR (USING DER NET)	-0.7	-0.7	47.8
23. UNIT FORCED OUTAGE RATE	0.0	0.0	24.1
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 5/13/83
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

INITIAL CRITICALITY -----
 INITIAL ELECTRICITY -----
 COMMERCIAL OPERATION -----

APPENDIX

DOCKET NO.: 050-325
UNIT: Brunswick No. 1
DATE: February 1983
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 1

Brunswick Unit No. 1 was shut down the entire month of January for a refueling/maintenance outage.

There are 948 *BWR and 160 PWR spent fuel bundles in the Brunswick No. 1 fuel pool.

*472 bundles have been moved to spent fuel during refueling; of these, 160 will remain in the pool when the core is reloaded.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January 1983

DOCKET NO. 050-03
 UNIT NAME Brunswick I
 DATE February 1983
 COMPLETED BY Frances Harrison
 TELEPHONE (919) 457-9521

No.	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
83-116	8212 11	S	744	C	4	NA	RC	FUELXX	REFUELING OUTAGE

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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 Scram.
 3-Automatic Scram.
 4-Continuations
 5-Load Reductions
 6-Other

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

⁵
 Exhibit I - Same Source

APPENDIX

DOCKET NO.: 050-0324
UNIT: Brunswick No. 2
DATE: February 1983
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at 96.0% availability factor for the month of January with a 75.5% capacity factor. There were six power reductions and one off-line outage this month.

There are 424 BWR and 144 PWR spent fuel bundles in the Brunswick No. 2 fuel pool.

The corrected copy of the forced outage rate for December is attached.

OPERATING DATA REPORT

DOCKET NO. 050-0324
 DATE 01/11/83
 COMPLETED BY FRANCES HARRISON
 TELEPHONE 919-457-9521

OPERATING STATUS

- | | | | |
|---|---|-------|---|
| 1. UNIT NAME: BRUNSWICK UNIT 2 | I | NOTES | I |
| 2. REPORTING PERIOD: DECEMBER 82 | I | | I |
| 3. LICENSED THERMAL POWER (MWT): 2436 | I | | I |
| 4. NAMEPLATE RATING (GROSS MWE): 867.0 | I | | I |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 821.0 | I | | I |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0 | I | | I |
| 7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0 | | | |
| 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS: | | | |
| | | | |
| 9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): NONE | | | |
| 10. REASONS FOR RESTRICTION IF ANY: | | | |

	THIS MONTH	YR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	8760.0	62785.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	633.4	3609.2	38776.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	596.2	3381.5	36150.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1274129.0	6299441.2	66296978.8
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	433131.0	2022755.0	22016692.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	418113.0	1902524.0	21091926.0
19. UNIT SERVICE FACTOR	80.1	38.6	57.6
20. UNIT AVAILABILITY FACTOR	80.1	38.6	57.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	71.1	27.5	42.5
22. UNIT CAPACITY FACTOR (USING DER NET)	68.5	26.5	40.9
23. UNIT FORCED OUTAGE RATE	6.4	15.5	16.9
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 0/ 0/ 0
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0324
UNIT BRUNSWICK UNIT 2
DATE 02/01/83
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

JANUARY 83

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	778.	17	635.
2	778.	18	629.
3	70.	19	633.
4	107.	20	637.
5	457.	21	633.
6	603.	22	628.
7	479.	23	616.
8	590.	24	627.
9	591.	25	636.
10	591.	26	634.
11	650.	27	608.
12	733.	28	566.
13	793.	29	558.
14	784.	30	583.
15	640.	31	587.
16	636.		

OPERATING DATA REPORT

DOCKET NO. 050-0324
 DATE 02/01/83
 COMPLETED BY FRANCES HARRISON
 TELEPHONE 919-457-9521

OPERATING STATUS

- | | | | |
|---|---|-------|---|
| 1. UNIT NAME: BRUNSWICK UNIT 2 | I | NOTES | I |
| 2. REPORTING PERIOD: JANUARY 83 | I | | I |
| 3. LICENSED THERMAL POWER (MWT): 2436 | I | | I |
| 4. NAMEPLATE RATING (GROSS MWE): 867.0 | I | | I |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 821.0 | I | | I |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0 | I | | I |
| 7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0 | | | |
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): NONE
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.0	744.0	63529.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	721.3	721.3	39497.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	713.9	713.9	36864.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1352779.7	1352779.7	67649758.5
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	458144.0	458144.0	22474836.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	443687.0	443687.0	21535613.0
19. UNIT SERVICE FACTOR	96.0	96.0	58.0
20. UNIT AVAILABILITY FACTOR	96.0	96.0	58.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	75.5	75.5	42.9
22. UNIT CAPACITY FACTOR (USING DER NET)	72.6	72.6	41.3
23. UNIT FORCED OUTAGE RATE	4.0	4.0	16.7
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

DUAL OUTAGE 3/28/83 THREE - FOUR WEEKS

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 0/ 0/ 0
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Jan. 1983

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE Feb. 1983
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-9521

No.	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
83-002	830103	F	30.1	A	3	NA	XX	INSTRU	<p>Rx Scram - Running PT-2.1.22 in conjunction with blown fuse on Channel "A" AC - MSIV Logic.</p> <p>PT-2.1.22 is being revised to verify that solenoids are energized after each section that results in 1/2 Group I Isolation (MSIV closure) before the next step of the periodic tests.</p>

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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 Scram.
 3-Automatic Scram.
 4-Continuations
 5-Load Reductions
 6-Other

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

⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE Feb. 1983
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-9521

REPORT MONTH Jan. 1983

No.	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
83-004	830105	F	.00	B	5	NA	CH	PUMPXX	Removed 2A rx feed pump from service. Repaired relays A71B-K1B and C72-K6C.

¹
 F: Forced
 S: Scheduled

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

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 Method:
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Jan. 1983

DOCKET NO. 050-0324
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 DATE Feb. 1983
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 TELEPHONE 919-457-9521

No.	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
83-006	830107	F	.0	2	5	NA	HC	HTEXCH	Reduced power for waterbox work. Plugged one tube.

¹
 F: Forced
 S: Scheduled

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

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 Method:
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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE Feb. 1983
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-9521

REPORT MONTH Jan. 1983

No.	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
83-007	830111	F	.0	B	5	NA	ZZ	VALVEX	Reduced power to repair valve 2-MD-V5.

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:
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 2-Manual Scram.
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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE Feb. 1983
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-9521

REPORT MONTH Jan. 1983

No.	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
83-008	830115	F	0	B	5	NA	CH	PUMPXX	Reduced power due to 2B recirculation pump problems. 2B rx recirculation pump seals being rebuilt.

¹
 F: Forced
 S: Scheduled

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

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Jan. 1983

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE Feb. 1983
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-9521

No.	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
83-010	830123	F	• 0	B	5	NA	CH	PUMPXX	2A rx recirculation pump tripped due to 2-B21-NO45-C out of calibration. Recalibrated 2-B21-NO45-C.

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)

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 Method:
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Jan. 1983

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE Feb. 1983
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-9521

No.	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
83-013	830124	F	•0	B	5	NA	XXXXXX	ZZZZZZ	Reduced power from 80% to 75.5% to clear rod block to perform CRD stall flow PT.

¹
 F: Forced
 S: Scheduled

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

³
 Method:
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