

OPERATING DATA REPORT

DOCKET NO. 050-0325
 DATE 04/01/81
 COMPLETED BY EULIS WILLIS
 TELEPHONE 919-457-9521

OPERATING STATUS

- | | | | | |
|-----|--|---|-------|---|
| 1. | UNIT NAME: BRUNSWICK UNIT 1 | I | NOTES | I |
| 2. | REPORTING PERIOD: MARCH 81 | 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	2160.0	35401.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	693.9	1913.1	25715.2
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	693.9	1850.8	24232.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1349616.1	3520162.4	49504184.3
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	434690.0	1151275.0	16476869.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	419843.0	1109608.0	15057042.0
19. UNIT SERVICE FACTOR	93.3	85.7	68.5
20. UNIT AVAILABILITY FACTOR	93.3	85.7	68.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	71.4	65.02	56.7
22. UNIT CAPACITY FACTOR (USING DER NET)	68.7	62.6	54.6
23. UNIT FORCED OUTAGE RATE	6.7	8.2	17.1
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

Maintenance, 81/04/17, 1344 Hours

- | | | |
|-----|--|------------------------|
| 25. | IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: | 4/9/81 |
| 26. | UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): | FORECAST ACHIEVED |
| | INITIAL CRITICALITY | ----- |
| | INITIAL ELECTRICITY | ----- |
| | COMMERICAL OPERATION | ----- |

8104270 387

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 04/01/81
COMPLETED BY EULIS WILLIS
TELEPHONE 919-457-9521

MARCH 81

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	683.	17	395.
2	692.	18	594.
3	703.	19	546.
4	704.	20	546.
5	521.	21	405.
6	365.	22	564.
7	580.	23	685.
8	507.	24	641.
9	653.	25	579.
10	593.	26	700.
11	682.	27	710.
12	671.	28	689.
13	663.	29	643.
14	673.	30	-13.
15	674.	31	-13.
16	460.		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325

UNIT NAME Brunswick No. 1

DATE April 1981

COMPLETED BY Frances Harrison

TELEPHONE 457-9521

REPORT MONTH March 1981

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
009	81 0305	F	28.3	A	1	NA		GENERA	<p>While reducing recirculating pump speed to remove MG set for brush replacement, failure of the brush rigger occurred causing damage to brush rigger holder.</p> <p>The MG set collector rings was machined. MG set brush rigger and holder was repaired and reinstalled.</p>

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 Scram.
3-Automatic Scram.
4-Other (Explain)

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. 050-0325
 UNIT NAME Brunswick No. 1
 DATE April 1981
 COMPLETED BY Frances Harrison
 TELEPHONE 457-9521

REPORT MONTH March 1981

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
010	81 0307	F	21.2	A	1	NA	HC	HTEXCH	1A north waterbox had bad tube leak. Replug tubes that were leaking.

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
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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325
 UNIT NAME Brunswick No. 1
 DATE April 1981
 COMPLETED BY Frances Harrison
 TELEPHONE 457-9521

REPORT MONTH March 1981

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
011	81 0309	F	3.9	A	I	NA	CB	GENERA	Several short brushes were noted during brush inspection. MG set IB was removed from service and the short brushes replaced.

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-Other (Explain)

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

REPORT MONTH March 1981

DOCKET NO. 050-0325
 UNIT NAME Brunswick No. 1
 DATE April 1981
 COMPLETED BY Frances Harrison
 TELEPHONE 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
012	81 0316	F	10.5	A	1	NA	HC	HTEXCH	1A south waterbox had tube leaks. Replugged tubes that were leaking.

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

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 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325
 UNIT NAME Brunswick No. 1
 DATE April 1981
 COMPLETED BY Frances Harrison
 TELEPHONE 457-9521

REPORT MONTH March 1981

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
013	81 0317	F	5.7	A	1	NA	CA	INSTRU	<p>The actuation screw for 1-B21-PS-N021D was out of adjustment causing the pressure switch to be out of calibration.</p> <p>Switch actuation linkage was adjusted to provide normal operating band and switch was calibrated, declared operable, and returned to service.</p>

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 S: Scheduled

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 Reason:
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 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:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
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 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325
 UNIT NAME Brunswick
 DATE April 1981
 COMPLETED BY F. Harrison
 TELEPHONE 457-9521

REPORT MONTH MARCH 1981

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
014	81Q320	F	30.8	A	1	N/A	HC	HTEXCH	Tubes leaking in A-South condenser waterbox. Helium leak checked and plugged in tubes in A-South waterbox.

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 Scram.
 3-Automatic Scram.
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 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325
 UNIT NAME Brunswick No. 1
 DATE April 1981
 COMPLETED BY Frances Harrison
 TELEPHONE 457-9521

REPORT MONTH March 1981

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
015	810329	F	50.1	A	3	NA	CB	GENERA	Reactor scrambled because of a burnt coil in the reactor recirculation pump MG set. The outage will be detailed in a report submitted the month the unit returns to service.

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-Other (Explain)

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: 050-325
UNIT: Brunswick No. 1
DATE: April 1981
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 1

Brunswick Unit No. 1 operated at a 93.3% availability factor for the month of March with a 71.4% capacity factor. There were six power reductions this month, and one "off-line" outage, both are detailed in Appendix D, the unit shutdowns and power reductions log.

There are 476 BWR and 160 PWR spent fuel bundles in the Brunswick Unit No. 1 fuel pool.

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 850-8324
UNIT BRUNSWICK UNIT 2
DATE 04/08/81
COMPLETED BY EULIS WILLIS
TELEPHONE 919-457-9521

MARCH 81

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	421.	17	-8.
2	605.	18	-7.
3	685.	19	-7.
4	692.	20	-8.
5	15.	21	-7.
6	-14.	22	-8.
7	-13.	23	-6.
8	-13.	24	-5.
9	-12.	25	-5.
10	-7.	26	-5.
11	-9.	27	-6.
12	-10.	28	-6.
13	-10.	29	-6.
14	-6.	30	-6.
15	-7.	31	-6.
16	-9.		

POOR ORIGINAL

OPERATING DATA REPORT

DOCKET NO. 050-0324
 DATE 04/08/81
 COMPLETED BY EULIS WILLIS
 TELEPHONE 919-457-9521

OPERATING STATUS

- | | | | |
|---|---|-------|---|
| 1. UNIT NAME: BRUNSWICK UNIT 2 | I | NOTES | I |
| 2. REPORTING PERIOD: MARCH 81 | 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	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.0	2160.0	47425.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	101.9	1257.4	30279.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	101.9	1176.7	28140.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	178109.2	1944271.0	51555651.8
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	60459.0	670824.0	17235270.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	53081.0	640099.0	16545508.0
19. UNIT SERVICE FACTOR	13.7	54.5	59.3
20. UNIT AVAILABILITY FACTOR	13.7	54.5	59.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	9.0	37.5	44.2
22. UNIT CAPACITY FACTOR (USING DER NET)	8.7	36.1	42.5
23. UNIT FORCED OUTAGE RATE	86.3	40.3	14.9
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: 4/9/81
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1981

DOCKET NO. 050-0324
 UNIT NAME Brunswick No. 2
 DATE April 1981
 COMPLETED BY Frances Harrison
 TELEPHONE 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
010	810905	F	642.1	A	2	NA	SH	SUPPORT	<p>The unit was separated from the grid for a snubber outage.</p> <p>The outage will be detailed in a report submitted for the month the unit returns to service.</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-Other (Explain)

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⁵
 Exhibit I - Same Source

APPENDIX

DOCKET NO: 050-324
UNIT: Brunswick No. 2
DATE: April 1981
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at a 13.7% availability factor for the month of March with a 9.1% capacity factor. There was one "off-line" outage, it is detailed in Appendix D, the unit shutdowns and power reductions log.

There are 264 BWR and 144 PWR spent fuel bundles in the Brunswick No. 2 fuel pool.