

APPENDIX

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

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 1

Brunswick Unit.No. 1 operated at 32.5% availability factor for the month of December with a 20.1% capacity factor. The unit separated from the grid December 11, 1982, for a refueling/maintenance outage.

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

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 01/04/83
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

DECEMBER 82

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	523.	17	-6.
2	516.	18	-6.
3	501.	19	-6.
4	515.	20	-5.
5	511.	21	-5.
6	508.	22	-5.
7	507.	23	-5.
8	506.	24	-5.
9	503.	25	-5.
10	459.	26	-5.
11	-8.	27	-5.
12	-9.	28	-6.
13	-8.	29	-6.
14	-6.	30	-6.
15	-5.	31	-6.
16	-5.		

OPERATING DATA REPORT

DOCKET NO. 050-0325
 DATE 01/04/83
 COMPLETED BY FRANCES HARRISON
 TELEPHONE 919-457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	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	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	8760.0	50761.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	241.6	5623.2	33888.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	241.6	5430.3	31970.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	376734.3	9478209.7	63896014.3
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	126519.0	3060980.0	21062188.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	118192.0	2921622.0	20225119.0
19. UNIT SERVICE FACTOR	32.5	62.0	63.0
20. UNIT AVAILABILITY FACTOR	32.5	62.0	63.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	20.1	42.2	50.4
22. UNIT CAPACITY FACTOR (USING DER NET)	19.3	40.6	48.5
23. UNIT FORCED OUTAGE RATE	0.0	33.0	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: 4/30/83
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

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

APPENDIX

DOCKET NO.: 050-324
UNIT: Brunswick No. 2
DATE: January 1983
COMPLETED BY: Francis Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at 80.1% availability factor for the month of December with a 71.1% capacity factor. There were two 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 November is attached.

DOCKET NO. 050-0324
 DATE 12/21/82
 COMPLETED BY FRANCES HARRISO
 TELEPHONE 919-457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2	I	NOTES	I
2. REPORTING PERIOD: NOVEMBER 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 DEFENDABLE CAPACITY (GROSS MWE): 815.0	I		I
7. MAX DEFENDABLE 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	720.0	9016.0	62041.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	2975.8	9142.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	0.0	2785.3	35554.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	5025312.2	65022849.8
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	1589624.0	21583561.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	-7387.0	1484411.0	20673813.0
19. UNIT SERVICE FACTOR	0.0	34.7	57.3
20. UNIT AVAILABILITY FACTOR	0.0	34.7	57.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	-1.3	23.4	42.2
22. UNIT CAPACITY FACTOR (USING DER NET)	-1.2	22.6	40.6
23. UNIT FORCED OUTAGE RATE	0.0	17.3	17.1
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: 12/ 2/82
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHEIVED

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0324
UNIT BRUNSWICK UNIT 2
DATE 01/07/83
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

DECEMBER 82

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	-9.	17	795.
2	-9.	18	781.
3	-9.	19	792.
4	-11.	20	796.
5	156.	21	795.
6	364.	22	393.
7	570.	23	-16.
8	652.	24	328.
9	682.	25	630.
10	578.	26	729.
11	737.	27	658.
12	798.	28	724.
13	784.	29	792.
14	774.	30	790.
15	792.	31	776.
16	799.		

OPERATING DATA REPORT

DOCKET NO. 050-0324
DATE 01/07/83
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	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	8760.0	62735.0
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	595.8	3381.1	36150.4
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	19.8	17.7	17.1
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: 01/07/83
UNIT IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1982DOCKET NO. 050-0324UNIT NAME Brunswick 2DATE January 1983COMPLETED BY Frances HarrisonTELEPHONE (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
82-067	821209	S	10.1	B	5	NA	---	---	Reduced power for control rod adjustment and rod improvement shuffle. Performed a control rod improvement to obtain a hotter rod pattern which would result in the unit operating at a higher stable power level.

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

REPORT MONTH December 1982

DOCKET NO. 050-0324
 UNIT NAME Brunswick 2
 DATE January 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
82-068	821222	F	47.8	A	3	NA	EB	GENERA	<p>Reactor scram - Power unbalance scram.</p> <p>Determined cause of scram to be technician error. Restarted unit.</p> <p>(1) Require relay crew technicians working at BSEP to use BSEP procedures.</p> <p>(2) Require relay calibration be done shutdown.</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 C - 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 December 1982

BUCKET NO. 050-0324

UNIT NAME Brunswick 2

DATE January 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
82-071	821227	S	5.8	B	5	NA	---	---	Reduced power for rod improvement.

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-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