

APPENDIX

DOCKET NO.: 050-325
UNIT: Brunswick No. 1
DATE: March 1984
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT 1

Brunswick Unit 1 operated at a 76.32% availability factor for the month of March with a 72.23% capacity factor. There were two off-line outages and two power reductions. Details are in Appendix D, The Unit Shutdown and Power Reduction Log.

There are 656 BWR and 160 PWR spent fuel bundles in the Brunswick No. 1 fuel pool.

8404110021 840331
PDR ADDCK 05000324
R PDR

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 04/06/84
COMPLETED BY FRANCES HARRISON
TELEPHONE (919)457-9521

MARCH 1984

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	795	17	776
2	742	18	785
3	-8	19	783
4	-8	20	785
5	-6	21	784
6	-6	22	785
7	-7	23	784
8	-8	24	734
9	-10	25	777
10	176	26	783
11	614	27	785
12	716	28	785
13	759	29	785
14	770	30	785
15	785	31	685
16	785		

OPERATING DATA REPORT

DOCKET NO. 050-0325
 DATE 04/06/84
 COMPLETED BY FRANCES HARRISON
 TELEPHONE (919)457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	I	NOTES	I
2. REPORTING PERIOD: MARCH 84	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):
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.00	2184.00	61705.00
12. NUMBER OF HOURS REACTOR CRITICAL	585.22	1948.08	38346.06
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	567.83	1903.83	35992.36
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1319848.19	4492362.07	72919656.64
17. GROSS ELEC. ENERGY GEN. (MWH)	437255.00	1503436.00	24050487.00
18. NET ELEC. ENERGY GENERATED (MWH)	424522.00	1462944.00	23076784.00
19. UNIT SERVICE FACTOR	76.32	87.17	58.33
20. UNIT AVAILABILITY FACTOR	76.32	87.17	58.33
21. UNIT CAP. FACTOR (USING MDC NET)	72.23	84.79	47.34
22. UNIT CAP. FACTOR (USING DER NET)	69.50	81.59	45.55
23. UNIT FORCED OUTAGE RATE	.15	5.22	22.34
24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP:
 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 1984DOCKET NO. 050-0325UNIT NAME Brunswick IDATE April 1984COMPLETED 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
84-017	840303	S	175.19	B	1	NA	CB	PUMPXX	Outage-1B Rx Recirc Pump Seal Replacement. Two stage mechanical seal on the 1B reactor recirc pump was replaced with a new assembly.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1984

DOCKET NO. 050-0325
UNIT NAME Brunswick I
DATE April 1984
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
84-019	840311	S	00	B	5	NA	--	-----	Reduced power 60% for rod improvement

¹
F: Forced
S: Scheduled

(9/77)

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
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Entry Sheets for Licensee
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0161)
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Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1984

DOCKET NO. 050-0325
UNIT NAME Brunswick I
DATE April 1984
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
84-021	840324	S	00	B	5	NA	ZZ	ZZZZZZ	Reduced power for routine valve testing and SPE work.

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
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6-Other

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Exhibit G - Instructions
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⁵
Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1984

DOCKET NO. 050-0325
 UNIT NAME Brunswick I
 DATE April 1984
 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
84-025	830331	F	In Progress	H	3	NA	ZZ	Valvexx	Rx Scram-loss of instrument air to radwaste which resulted in CFD effluent valves to go shut and the bypass failure to open.

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 B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0324
UNIT BRUNSWICK UNIT 2
DATE 04/06/84
COMPLETED BY FRANCES HARRISON
TELEPHONE (919)457-9521

MARCH 1984

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	734	17	-9
2	732	18	-8
3	735	19	-10
4	747	20	-10
5	743	21	-9
6	739	22	-9
7	741	23	-8
8	736	24	-7
9	734	25	-7
10	733	26	-7
11	687	27	-6
12	6	28	-6
13	-8	29	-6
14	-8	30	-6
15	-8	31	-6
16	-9		

OPERATING DATA REPORT

DOCKET NO. 050-0324
 DATE 04/06/84
 COMPLETED BY FRANCES HARRISON
 TELEPHONE (919)457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2	I	NOTES	I
2. REPORTING PERIOD: MARCH 84	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):
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.00	2184.00	73729.00
12. NUMBER OF HOURS REACTOR CRITICAL	265.93	1604.33	46331.75
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	265.93	1566.99	43352.46
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	610831.87	3355120.34	81931841.36
17. GROSS ELEC. ENERGY GEN. (MWH)	200061.00	1110430.00	27220128.00
18. NET ELEC. ENERGY GENERATED (MWH)	190052.00	1071207.00	26099025.00
19. UNIT SERVICE FACTOR	35.74	71.75	58.80
20. UNIT AVAILABILITY FACTOR	35.74	71.75	58.80
21. UNIT CAP. FACTOR (USING MDC NET)	32.33	62.09	44.81
22. UNIT CAP. FACTOR (USING DER NET)	31.11	59.74	43.12
23. UNIT FORCED OUTAGE RATE	.00	2.22	15.54

24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

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

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

APPENDIX

DOCKET NO.: 050-324
UNIT: Brunswick No. 2
DATE: March 1984
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY BRUNSWICK UNIT 2

Brunswick Unit 2 operated at a 35.74% availability factor for the month of March with a 32.33% capacity factor. There was one planned off-line outage. Details are in Appendix D, The Unit Shutdowns and Power Reduction Log. The unit operated at reduced power due to first stage drain tank east MSR manway gasket leak.

There are 656 BWR and 160 PWR spent fuel bundles in the Brunswick No. 1 fuel pool.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1984

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE April 1984
 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
84-020	840313	S	In Progress	C	1	NA	RC	FUELXX	Refueling/Maintenance Outage

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



Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429

April 2, 1984

FILE: B09-13510C
SERIAL: BSEP/84-0936

Mr. R. C. DeYoung, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2
LICENSE NOS. DPR-71 AND DPR-62
DOCKET NOS. 50-325 AND 50-324
MONTHLY OPERATING REPORT

Dear Mr. DeYoung:

In accordance with Technical Specification 6.9.1.6 for the Brunswick Steam Electric Plant, Units 1 and 2, Carolina Power & Light Company herewith submits the report of operating statistics and shutdown experience for the month of March 1984.

Very truly yours,

C. R. Dietz, General Manager
Brunswick Steam Electric Plant

FH/mcg/LETJA

Enclosures

cc: Ms. J. C. Baker
Mr. S. W. McDowell
Mr. J. P. O'Reilly
Mr. S. L. Rosen

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