

DOCKET NO.: 050-0325  
UNIT: Brunswick 1  
DATE: June 1988  
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY  
BRUNSWICK UNIT 1

Brunswick Unit 1 had a 86.89% capacity factor and a 91.34% availability factor for the month of May 1988. There were three power reductions and one off-line outage.

There are 1016 BWR and 160 PWR spent fuel bundles in the Brunswick Unit 1 fuel pool.

NOTE: In May, Unit 1 shutdown event number 88003 was reported as a load reduction. It should have been reported as a manual shutdown.

IE24

CP&L CO  
 RUN DATE 06/02/88  
 RUN TIME 13:56:52

PLANT PERFORMANCE DATA SYSTEM  
 OPERATING DATA REPORT  
 BRUNSWICK UNIT 1

PAGE 1  
 RPD36-000

DOCKET NO. 050-0325  
 COMPLETED BY FRANCES HARRISON  
 TELEPHONE (919)457-2756

OPERATING STATUS

- |   | NOTES |
|---|-------|
| 1. UNIT NAME: BRUNSWICK UNIT 1  |       |
| 2. REPORTING PERIOD: MAY 88   |       |
| 3. LICENSED THERMAL POWER (MWT): 2436   |       |
| 4. NAMEPLATE RATING (GROSS MWE): 867.0  |       |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 821.0  |       |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0   |       |
| 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):  
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.00	3647.00	98231.00
12. NUMBER OF HOURS REACTOR CRITICAL	697.82	2947.67	63891.53
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	679.55	2860.10	60727.73
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1597826.97	6706516.52	128685952.28
17. GROSS ELEC. ENERGY GEN. (MWH)	527490.00	221910.00	42321460.00
18. NET ELEC. ENERGY GENERATED (MWH)	510725.00	2141738.00	40686700.00
19. UNIT SERVICE FACTOR	91.34	78.42	61.82
20. UNIT AVAILABILITY FACTOR	91.34	78.42	61.82
21. UNIT CAP. FACTOR (USING MDC NET)	86.89	74.34	52.43
22. UNIT CAP. FACTOR (USING DER NET)	83.61	71.53	50.45
23. UNIT FORCED OUTAGE RATE	.00	.00	16.43
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): FORECAST ACHIEVED

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

CP&L CO  
RUN DATE 06/02/88  
RUN TIME 13:56:50

PLANT PERFORMANCE DATA SYSTEM  
APPENDIX B - AVERAGE DAILY POWER LEVEL  
BRUNSWICK UNIT 1

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DOCKET NO. 050-0325  
COMPLETED BY FRANCES HARRISON  
TELEPHONE (919)457-2756

MAY 1988

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	783	17	774
2	782	18	772
3	781	19	770
4	773	20	737
5	778	21	5
6	778	22	-14
7	778	23	18
8	719	24	624
9	779	25	749
10	777	26	769
11	777	27	771
12	777	28	771
13	775	29	648
14	759	30	752
15	776	31	770
16	774		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88031	880508	S	.00	B	5	N/A			Reduce power for control rod pattern change.

1  
 F - Forced  
 S - Sched

2  
 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

F - Admin  
 G - Oper error  
 H - Other

3  
 1 - Manual  
 2 - Manual scram  
 3 - Auto scram  
 4 - Continuations  
 5 - Load Reductions  
 6 - Other

4  
 Exhibit G  
 Instructions for Preparation  
 of Data Entry Sheet Licensee  
 Event Report (LER) File  
 (NUREG-0161)  
 5  
 Exhibit 1 - Same Source

UNIT SHUT-DOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88038	880520	S	70.08	A	1	N/A			Shutdown to replace MCC bolts.

1 F - Forced  
 S - Sched

2 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

3 F - Admin  
 G - Oper error  
 H - Other

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

5 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88035	880525	S	.00	B	5	N/A			Reduce power for control rod pattern change.

1  
 F - Forced  
 S - Sched

2  
 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

3  
 F - Admin  
 G - Oper error  
 H - Other

4  
 1 - Manual  
 2 - Manual scram  
 3 - Auto scram  
 4 - Continuations  
 5 - Load Reductions  
 6 - Other

5  
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 Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

5  
 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88037	880529	S	.00	B	5	N/A			Reduce power for control rod pattern change.

- 1 F - Forced  
 S - Sched
- 2 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination
- 3 F - Admin  
 G - Oper error  
 H - Other
- 4 Exhibit G  
 Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)
- 5 Exhibit 1 - Same Source

CP&L CO  
 RUN DATE 06/02/88  
 RUN TIME 13:56:52

PLANT PERFORMANCE DATA SYSTEM  
 OPERATING DATA REPORT  
 BRUNSWICK UNIT 2

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DOCKET NO. 050-0324  
 COMPLETED BY FRANCES HARRISON  
 TELEPHONE (919)457-2756

OPERATING STATUS

- |   | NOTES |
|---|-------|
| 1. UNIT NAME: BRUNSWICK UNIT 2                |       |
| 2. REPORTING PERIOD: MAY 88                   |       |
| 3. LICENSED THERMAL POWER (MWT): 2436         |       |
| 4. NAMEPLATE RATING (GROSS MWE): 867.0        |       |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 821.0  |       |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0 |       |
| 7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0   |       |
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITF 'S 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	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.00	3647.00	110255.00
12. NUMBER OF HOURS REACTOR CRITICAL	542.23	771.38	67895.88
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	450.03	519.25	63765.43
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	924666.62	991789.14	130277576.23
17. GROSS ELEC. ENERGY GEN. (MWH)	304330.00	326380.00	42068051.00
18. NET ELEC. ENERGY GENERATED (MWH)	290265.00	289711.00	40282298.00
19. UNIT SERVICE FACTOR	60.49	14.24	57.83
20. UNIT AVAILABILITY FACTOR	60.49	14.24	57.83
21. UNIT CAP. FACTOR (USING MDC NET)	49.38	10.06	46.25
22. UNIT CAP. FACTOR (USING DER NET)	47.52	9.68	44.50
23. UNIT FORCED OUTAGE RATE	39.51	36.92	14.03
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): FORECAST ACHIEVED
- |                      |       |       |
|----------------------|-------|-------|
| INITIAL CRITICALITY  | ----- | ----- |
| INITIAL ELECTRICITY  | ----- | ----- |
| COMMERCIAL OPERATION | ----- | ----- |



CP&L CO  
RUN DATE 06/02/88  
RUN TIME 13:56:50

PLANT PERFORMANCE DATA SYSTEM  
APPENDIX B - AVERAGE DAILY POWER LEVEL  
BRUNSWICK UNIT 2

PAGE 2  
RPD39-000

DOCKET NO. 050-C324  
COMPLETED BY FRANCES HARRISON  
TELEPHONE (919)457-2756

MAY 1988			
DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	282	17	51
2	553	18	639
3	-10	19	767
4	-14	20	698
5	446	21	410
6	705	22	512
7	185	23	769
8	-14	24	773
9	-13	25	776
10	-13	26	779
11	-12	27	777
12	-12	28	781
13	-12	29	772
14	-12	30	781
15	-13	31	779
16	-13		

DOCKET NO.: 050-0324  
UNIT: Brunswick 2  
DATE: June 1988  
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY  
BRUNSWICK UNIT 2

Unit 2 had a 49.38% capacity factor and a 60.49% availability factor for May 1988. There were two off-line outages and three power reductions.

There are 940 BWR and 144 PWR spent fuel bundles in the Brunswick Unit 2 fuel pool.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88006	880502	F	50.13	A	1	N/A			Unit shutdown for drywell leak repairs. While reducing power, an automatic turbine trip was incurred.

1  
 F - Forced  
 S - Sched

2  
 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

F - Admin  
 G - Oper error  
 H - Other

3  
 1 - Manual  
 2 - Manual scram  
 3 - Auto scram  
 4 - Continuations  
 5 - Load Reductions  
 6 - Other

4  
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 Event Report (LER) File  
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 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88009	880507	S	.00	B	5	N/A			Reduce power for control rod pattern change.

1  
 F - Forced  
 S - Sched

2  
 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

F - Admin  
 G - Oper error  
 H - Other

3  
 1 - Manual  
 2 - Manual scram  
 3 - Auto scram  
 4 - Continuations  
 5 - Load Reductions  
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4  
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5  
 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88010	880507	F	250.15	A	1	N/A			While performing routine valve testing, No. 3 bypass valve stuck open. Unit was shut down to repair No. 3 bypass valve. During shutdown, MCC bolts were replaced.

1  
 F - Forced  
 S - Sched

2  
 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

F - Admin  
 G - Oper error  
 H - Other

3  
 1 - Manual  
 2 - Manual scram  
 3 - Auto scram  
 4 - Continuations  
 5 - Load Reductions  
 6 - Other

4  
 Exhibit G  
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 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 DATE June 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88011	880520	F	.00	A	5	N/A			Reduce power to repair waterbox tube leaks.

1  
 F - Forced  
 S - Sched

2  
 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination

F - Admin  
 G - Oper error  
 H - Other

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 1 - Manual  
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5  
 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 COMPLETED BY Frances Harrison  
 DATE June 1988  
 TELEPHONE 919-457-2756

REPORT MONTH May 1988

No.	Date	Type	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88013	880523	S	.00	B	5	N/A			Reduce power for control rod pattern change.

- 1 F - Forced  
 S - Sched
- 2 A - Equip failure  
 B - Maint or test  
 C - Refueling  
 D - Regulatory restriction  
 E - Operator Training & License Examination
- 3 F - Admin  
 G - Oper error  
 H - Other
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- 5 Exhibit 1 - Same Source



**Carolina Power & Light Company**

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

June 3, 1988

FILE: B09-13510C  
SERIAL: BSEP/88-0594

U.S. Nuclear Regulatory Commission  
Washington, DC 20555  
Attn: Document Control Desk

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

Dear Mr. Scroggins:

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 May 1988.

Very truly yours,

*F. A. Bistling for*

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

MW/srg  
MSC/85-0014

Enclosures

cc: Mr. M. R. Beebe  
Mr. T. C. Bell  
Dr. J. N. Grace  
Ms. F. E. Harrison  
Mr. M. D. Hill  
Mr. P. W. Howe  
Mr. L. S. Mull  
Mr. R. G. Oehl  
Mr. W. H. Ruland  
Mr. R. M. Scroggins  
Ms. H. M. Shaver  
Ms. D. J. Vicks  
INPO

IE24  
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