

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH July 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
88059	880713	F	199.73	A	1	1-88-017			Unit shut down due to failure of HPCI valve 1-E41-F001.

1
 F - forced
 S - Sched

2
 A - Equip failure
 B - Maint or test
 C - Refueling
 D - Regulatory restrictions
 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 C
 Instructions for Preparation of Data Entry Sheet Licensee Event Report (IER) File (NUREG-0161)

5
 Exhibit 1 - Same Source

8809190364 880731
 PDR ADOCK 05000325
 PDC

111
 1E-94

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

OPERATING STATUS

- | 1. UNIT NAME: BRUNSWICK UNIT 1 | NOTES |
|---|-------|
| 2. REPORTING PERIOD: JULY 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	5111.00	99695.00
12. NUMBER OF HOURS REACTOR CRITICAL	566.85	4234.52	65178.41
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	544.27	4124.37	61992.00
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1165286.91	9553666.55	31533102.31
17. GROSS ELEC. ENERGY GEN. (MWH)	371000.00	3129640.00	43239190.00
18. NET ELEC. ENERGY GENERATED (MWH)	355311.00	3026417.00	41571388.00
19. UNIT SERVICE FACTOR	73.15	80.70	62.18
20. UNIT AVAILABILITY FACTOR	73.15	80.70	62.18
21. UNIT CAP. FACTOR (USING MDC NET)	60.45	74.95	52.78
22. UNIT CAP. FACTOR (USING DER NET)	58.17	72.12	50.79
23. UNIT FORCED OUTAGE RATE	26.85	4.62	16.38
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 09/03/88
RUN TIME 07:40:03

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

PAGE 1
RPD39-000

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

AUGUST 1988

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	693	17	655
2	689	18	652
3	686	19	645
4	685	20	631
5	682	21	607
6	678	22	656
7	666	23	649
8	673	24	649
9	669	25	645
10	671	26	626
11	669	27	611
12	667	28	639
13	668	29	637
14	664	30	633
15	661	31	634
16	657		

CP&L CO
 RUN DATE 09/03/88
 RUN TIME 07:40:04

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

1. UNIT NAME: BRUNSWICK UNIT 1
2. REPORTING PERIOD: AUGUST 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:

NOTES

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	5855.00	100439.00
12. NUMBER OF HOURS REACTOR CRITICAL	744.00	4978.52	65922.41
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	744.00	4868.37	62736.00
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1614296.28	11167962.83	133147398.59
17. GROSS ELEC. ENERGY GEN. (MWH)	506325.00	3635965.00	43745515.00
18. NET ELEC. ENERGY GENERATED (MWH)	488344.00	3514761.00	42059732.00
19. UNIT SERVICE FACTOR	100.00	83.15	62.46
20. UNIT AVAILABILITY FACTOR	100.00	83.15	62.46
21. UNIT CAP. FACTOR (USING MDC NET)	83.09	75.99	53.01
22. UNIT CAP. FACTOR (USING DER NET)	79.95	73.12	51.01
23. UNIT FORCED OUTAGE RATE	.00	3.94	16.21
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 -----

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 020-0325
 UNIT NAME Brunswick 1
 DATE September 1988
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-2756

REPORT MONTH August 1988

No.	Date	Type	Duration (Hours)	Reason	Method of Shutting Down Reactor	Licensee Event Report No.	System Code	Component Code	Cause & Corrective Action to Prevent Recurrence
88063	880820	F	.00	B	5				Power reduction for main condense maintenance and routine valve testing.

- 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 September 1988
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-2756

REPORT MONTH August 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
88064	880826	S	.00	B					Power reduction for rod improvement and routine valve testing.

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

DOCKET NO.: 050-0325
UNIT: Brunswick 2
DATE: September 1988
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT 2

Brunswick Unit 2 operated at a 93.69% capacity factor and a 100% availability factor for the month of August 1988. There were five power reductions.

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

CP&L CO
RUN DATE 09/03/88
RUN TIME 07:40:03

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

PAGE 2
RPD39-000

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

AUGUST 1988

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	627	17	764
2	747	18	769
3	632	19	757
4	764	20	759
5	741	21	769
6	662	22	769
7	661	23	772
8	762	24	772
9	763	25	771
10	752	26	770
11	764	27	761
12	740	28	773
13	496	29	772
14	766	30	772
15	761	31	774
16	763		

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

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2
2. REPORTING PERIOD: AUGUST 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:

NOTES

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	5855.00	112463.00
12. NUMBER OF HOURS REACTOR CRITICAL	744.00	2771.99	69896.49
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	744.00	2514.97	65761.15
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1752218.70	5047219.00	134933006.09
17. GROSS ELEC. ENERGY GEN. (MWH)	570140.00	1849345.00	43591016.00
18. NET ELEC. ENERGY GENERATED (MWH)	550655.00	1759647.00	41752234.00
19. UNIT SERVICE FACTOR	100.00	42.95	58.47
20. UNIT AVAILABILITY FACTOR	100.00	42.95	58.47
21. UNIT CAP. FACTOR (USING MDC NET)	93.69	38.04	46.99
22. UNIT CAP. FACTOR (USING DER NET)	90.15	36.61	45.22
23. UNIT FORCED OUTAGE RATE	.00	10.78	13.66
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 -----

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH August 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	880802	S	.00	B	5				Power reduction for rod improvement

1
 F - Forced
 S - Sched

2
 A - Equip failure
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 D - Regulatory restriction
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 License Examination

F - Admin
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 H - Other

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

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 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. 050-0324
 UNIT NAME Brunswick 2
 DATE September 1988
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-2756

REPORT MONTH August 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
88039	880803	F	.00	A	5				Power reduction due to low condenser vacuum.

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 C
 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. 050-0324
 UNIT NAME Brunswick 2
 DATE September 1988
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-2756

REPORT MONTH August 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
88040	880805	F	.00	A	5				Reduced power for condenser air leakage hunting.

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 C
 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. 050-0324
 UNIT NAME Brunswick 2
 DATE September 1988
 COMPLETED BY Frances Harrison
 TELEPHONE 919-457-2756

REPORT MONTH August 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
88042	880812	F	.00	A	5				Power reduction for air leakage hunting, condenser maintenance, and routine valve testing.

- 1 F - Forced
 S - Sched
- 2 A - Equip failure
 B - Maint or test
 C - Refueling
 D - Regulator 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 (AREG-0161)
- 5 Exhibit 1 - Same Source



Carolina Power & Light Company

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

September 6, 1988

FILE: B09-13510C
SERIAL: BSEP/88-0894

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 August 1988.

Very truly yours,

L. Harness, General Manager
Brunswick Steam Electric Plant

MW/ah
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. F. Murray
Mr. W. R. Murray
Mr. R. G. Oehl
Mr. W. H. Ruland
Mr. R. M. Scroggins
Ms. H. M. Shaver
Ms. D. J. Vicks
INPO

IE24
/1

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

OPERATIONS SUMMARY
BRUNSWICK UNIT 1

Brunswick Unit 1 operated at an 83.09% capacity factor and a 100% availability factor for the month of August 1988. There were two power reductions.

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

NOTE: In July, Unit 1 shutdown event number 88059 should be classified as a forced outage. The corrected power reduction form and the July Operating Data Report are attached.