



Carolina Power & Light Company

Brunswick Nuclear Project  
P. O. Box 10429  
Southport, NC 28461-0429

December 3, 1990

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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

Gentlemen:

In accordance with Technical Specification 6.9.1.11 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 November 1990.

Very truly yours,

J. L. Harness, General Manager  
Brunswick Nuclear Project

RDR/ah  
90-0041.MSC

Enclosures

cc: Ms. D. M. Aslett  
Mr. T. C. Bell  
Mr. R. M. Coats  
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INPO

000100  
9012140052 901130  
RDR ADOCK 05000324  
R PDC

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CP&L CD  
RUN DATE 12/02/90  
RUN TIME 10:02:02

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

PAGE 1  
RPD39-000

DOCKET NO. 050-0325  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

NOVEMBER 1990

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

DOCKET NO. 050-0325  
 COMPLETED BY RONALD RUMPLE  
 TELEPHONE (919)457-2752

OPERATING STATUS

- |   |                                     |  |
|---|-------------------------------------|--|
| 1. UNIT NAME: BRUNSWICK UNIT 1  | NOTES - There are no fuel           |  |
| 2. REPORTING PERIOD: NOVEMBER 90  | bundles in the Reactor Core. There  |  |
| 3. LICENSED THERMAL POWER (MWT): 2436   | are 1490 BWR and 160 PWR spent fuel |  |
| 4. NAMEPLATE RATING (GROSS MWE): 867.0  | bundles in the Fuel Pool. There     |  |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 821.0  | are 160 new fuel bundles in the new |  |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0   | Fuel Storage Vault.                 |  |
| 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	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	720.00	8016.00	120144.00
12. NUMBER OF HOURS REACTOR CRITICAL	.00	5948.25	79302.16
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	.00	5910.20	75863.24
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	.00	13728130.62	163197643.18
17. GROSS ELEC. ENERGY GEN. (MWH)	.00	4471445.00	53533475.00
18. NET ELEC. ENERGY GENERATED (MWH)	-3083.00	4323827.00	51504975.00
19. UNIT SERVICE FACTOR	.00	73.73	63.14
20. UNIT AVAILABILITY FACTOR	.00	73.73	63.14
21. UNIT CAP. FACTOR (USING MDC NET)	-.54	68.28	54.27
22. UNIT CAP. FACTOR (USING DER NET)	-.52	65.70	52.22
23. UNIT FORCED OUTAGE RATE	.00	8.47	15.04
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: 02/20/91  
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

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

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE Dec. 1990  
 COMPLETED BY Ronald Rumble  
 TELEPHONE 919-457-2752

UNIT SHUTDOWNS AND POWER REDUCTIONS  
 REPORT MONTH November 1990

NO.	DATE	TYPE 1	DURATION (HOURS)	REASON 2	METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT NO.	SYSTEM CODE 4	COMPONENT CODE 5	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
90-069	900927	S	720.0 (in progress)	C	4		RC	Fuel XX	Refuel/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

CP&L CO  
RUN DATE 12/02/90  
RUN TIME 10:02:02

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

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RPD39-000

DOCKET NO. 050-0324  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

NOVEMBER 1990

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	772	17	601
2	756	18	562
3	770	19	771
4	743	20	772
5	772	21	773
6	771	22	773
7	773	23	774
8	774	24	773
9	775	25	766
10	772	26	774
11	763	27	773
12	774	28	772
13	774	29	773
14	776	30	773
15	775		
16	775		

CP&L CO  
RUN DATE 12/02/90  
RUN TIME 10:02:05

PLANT PERFORMANCE DATA SYSTEM  
OPERATING DATA REPORT  
BRUNSWICK UNIT 2

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RFD36-000

DOCKET NO. 050-0324  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2 | NOTES - There are 560 fuel |  
2. REPORTING PERIOD: NOVEMBER 90 | bundles in the Reactor Core. There |  
3. LICENSED THERMAL POWER (MWT): 2436 | are 1072 BWR and 144 PWR spent fuel |  
4. NAMEPLATE RATING (GROSS MWE): 867.0 | bundles in the Fuel Pool. There |  
5. DESIGN ELECTRICAL RATING (NET MWE): 821.0 | are no fuel bundles in the |  
6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0 | new Fuel Storage Vault. |  
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	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	720.00	8016.00	132168.00
12. NUMBER OF HOURS REACTOR CRITICAL	720.00	5182.70	83732.81
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	720.00	4874.92	79248.26
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1720659.83	11246117.50	166333511.86
17. GROSS ELEC. ENERGY GEN. (MWH)	561900.00	3630268.00	53802424.00
18. NET ELEC. ENERGY GENERATED (MWH)	545876.00	3481321.00	51580726.00
19. UNIT SERVICE FACTOR	100.00	60.81	59.96
20. UNIT AVAILABILITY FACTOR	100.00	60.81	59.96
21. UNIT CAP. FACTOR (USING MDC NET)	95.97	54.97	49.40
22. UNIT CAF. FACTOR (USING DER NET)	92.35	52.90	47.54
23. UNIT FORCED OUTAGE RATE	.00	20.23	13.13
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 -----

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 DATE Dec. 1990  
 COMPLETED BY Ronald Rumble  
 TELEPHONE 919-457-2752

UNIT SHUTDOWNS AND POWER REDUCTIONS  
 REPORT MONTH November 1990

NO.	DATE	TYPE 1	DURATION (HOURS)	REASON 2	METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT NO.	SYSTEM CODE 4	COMPONENT CODE 5	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
90-085	901117	F	0	A	5				Reduced power to replace the thrust bearing on 2B reactor feedpump.

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  
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 6 - Other

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5: EXHIBIT I -  
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