



Carolina Power & Light Company

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

January 3, 1990

FILE: B09-13510C
SERIAL: BSEP/90-0004

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 6.9.1.11 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 December 1989.

Very truly yours,

J. L. Harness, General Manager
Brunswick Nuclear Project

RDR/mcg
MSC/85-0014

Enclosures

cc: Mr. M. R. Beebe
Mr. T. C. Bell
Mr. S. D. Ebnetter
Mr. B. J. Furr
Mr. M. D. Hill
Mr. R. B. Starkey
Mr. F. Murray
Mr. W. R. Murray
Mr. R. G. Oehl
Mr. W. H. Ruland
Mr. R. M. Scroggins
Ms. H. M. Shaver
INPO

JE24
1/1

CP&L CO
RUN DATE 01/03/90
RUN TIME 10:55:08

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

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

DECEMBER 1989

DAY AVG. DAILY POWER LEVEL
(MWE-NET)

1	783
2	784
3	771
4	756
5	728
6	723
7	734
8	782
9	785
10	752
11	781
12	783
13	785
14	786
15	783
16	783

DAY AVG. DAILY POWER LEVEL
(MWE-NET)

17	783
18	783
19	783
20	783
21	784
22	783
23	782
24	783
25	776
26	783
27	783
28	783
29	783
30	784
31	777

CP&L CO
RUN DATE 01/03/90
RUN TIME 10:55:13

PLANT PERFORMANCE DATA SYSTEM
OPERATING DATA REPORT
BRUNSWICK UNIT 1

PAGE 1
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DOCKET NO. 050-0325
COMPLETED BY RONALD RUMPLE
TELEPHONE (919)457-2752

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	NOTES
2. REPORTING PERIOD: DECEMBER 89	
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	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.00	8760.00	112128.00
12. NUMBER OF HOURS REACTOR CRITICAL	744.00	5749.29	73353.91
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	744.00	5569.52	69953.04
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1800831.51	13165666.54	149469512.56
17. GROSS ELEC. ENERGY GEN. (MWH)	593355.00	4331495.00	49062030.00
18. NET ELEC. ENERGY GENERATED (MWH)	576745.00	4181300.00	47181148.00
19. UNIT SERVICE FACTOR	100.00	63.58	62.39
20. UNIT AVAILABILITY FACTOR	100.00	63.58	62.39
21. UNIT CAP. FACTOR (USING MDC NET)	98.13	60.42	53.26
22. UNIT CAP. FACTOR (USING DER NET)	94.42	58.14	51.25
23. UNIT FORCED OUTAGE RATE	.00	10.94	15.55
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.: 050-0325
UNIT: Brunswick 1
DATE: January 1990
COMPLETED BY: Ronald Rumble

OPERATIONS SUMMARY
BRUNSWICK UNIT 1

Unit 1 operated at a 98.13% capacity factor and a 100% availability factor for the month of December 1989. There were two power reductions.

There are 1110 BWR and 160 PWR spent fuel bundles in the Brunswick Unit 1 fuel pool.

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

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
89-060	891210	F		D	5				Thermal limits

- 5: EXHIBIT 1 -
Same source

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

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
89-058	891204	F	77.50	A	5				4B & 5B feedwater heaters had high levels because drain valve operators came loose from the valve body. Repaired drain valves.

1: F - Forced S - Scheduled	2: REASON	3: METHOD	4: EXHIBIT C - Instructions for preparation of data entry sheets for Licensee Event Report (LER) file (NUREG-0161)	5: EXHIBIT I - Same source
	A - Equipment failure (explain)	1 - Manual 2 - Manual scram		
	B - Maintenance or test	3 - Automatic scram		
	C - Refueling	4 - Continuations		
	D - Regulatory restriction	5 - Load reductions		
	E - Operator Training & License Examination	6 - Other		
	F - Administrative			
	G - Operational error (explain)			
	H - Other (explain)			

CP&L CO
RUN DATE 01/03/90
RUN TIME 10:55:08

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

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

DECEMBER 1989

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

CP&L CO
RUN DATE 01/03/90
RUN TIME 10:55:13

PLANT PERFORMANCE DATA SYSTEM
OPERATING DATA REPORT
BRUNSWICK UNIT 2

PAGE 2
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DOCKET NO. 050-0324
COMPLETED BY RONALD RUMPLE
TELEPHONE (919)457-2752

OPERATING STATUS

	NOTES
1. UNIT NAME: BRUNSWICK UNIT 2	
2. REPORTING PERIOD: DECEMBER 89	
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	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.00	8760.00	124152.00
12. NUMBER OF HOURS REACTOR CRITICAL	.00	5779.82	78550.11
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	.00	5763.99	74373.34
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	.00	13378732.21	155087394.36
17. GROSS ELEC. ENERGY GEN. (MWH)	.00	4348665.00	50172156.00
18. NET ELEC. ENERGY GENERATED (MWH)	-2537.00	4185196.00	48099405.00
19. UNIT SERVICE FACTOR	.00	65.80	59.91
20. UNIT AVAILABILITY FACTOR	.00	65.80	59.91
21. UNIT CAP. FACTOR (USING MDC NET)	-.43	60.48	49.04
22. UNIT CAP. FACTOR (USING DER NET)	-.42	58.19	47.19
23. UNIT FORCED OUTAGE RATE	.00	4.31	12.62
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: 02/09/90
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

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

DOCKET NO.: 050-0324
UNIT: Brunswick 2
DATE: January 1990
COMPLETED BY: Ronald Rumble

OPERATIONS SUMMARY
BRUNSWICK UNIT 2

Unit 2 was shut down on September 9, 1989, for Refuel/Maintenance outage.

There are *1500 BWR and 144 PWR spent fuel bundles in the Brunswick Unit 2 fuel pool.

*392 of these bundles will be returned to the core after refueling.

DOCKET NO.	050-0324
UNIT NAME	Brunswick 2
DATE	January 1990
COMPLETED BY	Ronald Rumble
TELEPHONE	219-457-2752

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
89-1042	890909	S	in progress	C	4 Note: Continued from previous month		RC	Fuel XX	Refueling/Maintenance Outage

- 5: EXHIBIT 1 -
Same source