



Carolina Power & Light Company
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U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324 / LICENSE NOS. DPR-71 AND DPR-62
SEPTEMBER 2000 MONTHLY OPERATING REPORTS

Gentlemen:

In accordance with Technical Specification (TS) 5.6.4 for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, Carolina Power & Light (CP&L) Company is submitting the enclosed Monthly Operating Reports for September 2000. These reports are being submitted to the NRC by the 15th day of the month following the calendar month covered by the reports, as specified in TS 5.6.4.

There are no regulatory commitments being made in this submittal. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing, at (910) 457-2073.

Sincerely,

David C. DiCello
Manager - Regulatory Affairs
Brunswick Steam Electric Plant

WRM/wrm

Enclosures:

1. BSEP Unit No. 1 Monthly Operating Report September 2000
2. BSEP Unit No. 2 Monthly Operating Report September 2000

IE24

cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Mr. Luis A. Reyes, Regional Administrator
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303-8931

U. S. Nuclear Regulatory Commission
ATTN: Mr. Theodore A. Easlick, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission
ATTN: Mr. Donnie J. Ashley (Mail Stop OWFN 8G9)
11555 Rockville Pike
Rockville, MD 20852-0510

Ms. Jo A. Sanford
Chair - North Carolina Utilities Commission
P. O. Box 29510
Raleigh, NC 27626-0510

Electricities of N. C., Inc.
ATTN: Mr. Clarence C. Wells
P. O. Box 29513
Raleigh, NC 27626-0513

ENCLOSURE 1

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324 / LICENSE NOS. DPR-71 AND DPR-62**

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 1
MONTHLY OPERATING REPORT
SEPTEMBER 2000**

**APPENDIX A
OPERATING DATA REPORT**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE October 7, 2000
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2000
 (Month/Year)

	MONTH	YEAR TO DATE	CUMULATIVE
1. Design Electrical Rating: (MWe-Net)	867	N/A	N/A
2. Maximum Dependable Capacity: (MWe-Net)	820	N/A	N/A
3. Number of Hours the Reactor Was Critical:	720	5,944	142,007
4. Number of Hours the Generator Was On Line:	720	5,913	137,608
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	601,138	4,910,539	100,211,035

**APPENDIX B
UNIT SHUTDOWNS**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE October 7, 2000
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2000
 (Month/Year)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS
N/A						Unit No. 1 was not required to shut down during the month of September 2000.

SUMMARY:

(1) 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)

(2) Method

- 1 - Manual
- 2 - Manual Trip/Scram
- 3 - Automatic Trip/Scram
- 4 - Continuation
- 5 - Other (Explain)

ENCLOSURE 2

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324 / LICENSE NOS. DPR-71 AND DPR-62**

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2
MONTHLY OPERATING REPORT
SEPTEMBER 2000**

**APPENDIX A
OPERATING DATA REPORT**

DOCKET NO. 50-324
UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
DATE October 7, 2000
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2000
 (Month/Year)

	MONTH	YEAR TO DATE	CUMULATIVE
1. Design Electrical Rating: (MWe-Net)	867	N/A	N/A
2. Maximum Dependable Capacity: (MWe-Net)	811	N/A	N/A
3. Number of Hours the Reactor Was Critical:	579	6,434	151,431
4. Number of Hours the Generator Was On Line:	552	6,407	145,498
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	431,545	5,227,582	101,578,941

**APPENDIX B
UNIT SHUTDOWNS**

DOCKET NO. 50-324
UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
DATE October 7, 2000
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2000
 (Month/Year)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS
1	9/22/00	F	168.2	A	3	Unit No. 2 was shut down on September 22, 2000, due to a fire on the 2B Main Transformer. The 2B Main Transformer was replaced.

SUMMARY:

(1) 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)

(2) Method

- 1 - Manual
- 2 - Manual Trip/Scram
- 3 - Automatic Trip/Scram
- 4 - Continuation
- 5 - Other (Explain)