



OCT 11 2002

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U.S. Nuclear Regulatory Commission
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BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
SEPTEMBER 2002 MONTHLY OPERATING REPORTS

Ladies and 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 2002. 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 questions regarding this submittal to Mr. Leonard R. Beller, Supervisor – Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

Edward T. O'Neil
Manager - Regulatory Affairs
Brunswick Steam Electric Plant

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Enclosures: 1. BSEP, Unit No. 1 Monthly Operating Report September 2002
2. BSEP, Unit No. 2 Monthly Operating Report September 2002

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cc (with enclosures):

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ElectriCities of N. C., Inc.
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**APPENDIX A
 OPERATING DATA REPORT**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE October 7, 2002
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2002
 (Month/Year)

	MONTH	YEAR TO DATE	CUMULATIVE
1. Design Electrical Rating: (MWe-Net) – Note 1	895	N/A	N/A
2. Maximum Dependable Capacity: (MWe-Net)	820	N/A	N/A
3. Number of Hours the Reactor Was Critical:	551.1	5,729.7	158,705.7
4. Number of Hours the Generator Was On Line:	533.3	5,667.4	154,244.1
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	442,198	4,725,726	114,075,822

Note 1: License Amendment 222 for Unit 1 approved Extended Power Uprate (EPU). This amendment was implemented on June 1, 2002. As a result, the present value for Design Electrical Rating (i.e., net megawatts electric (MWe)) has been revised from 867 MWe to 895 MWe to reflect current equipment limitations and testing activities associated with the first phase of EPU implementation. The Design Electrical Rating value is subject to further revision as EPU testing and implementation activities continue.

**APPENDIX B
 UNIT SHUTDOWNS**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE October 7, 2002
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2002
 (Month/Year)

NO.	DATE	TYPE F: FORCED S SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS
2	020921	S	186.1	A (see comments)	2	Unit No. 1 was shut down to replace leaking fuel bundles.
3	020930	F	0.6	A (see comments)	5 (see comments)	Unit No.1 turbine/generator was taken off-line (while the reactor remained critical) to repair a steam leak in the main steam system.

SUMMARY: Unit No. 1 was shut down on September 21, 2002, for approximately eight days, to perform a scheduled fuel bundle replacement outage. On September 30, 2002, the turbine/generator was taken off-line to repair a steam leak in the main steam system. Repairs were completed and the generator synchronized to the grid in the early morning of October 1, 2002.

(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)

**APPENDIX A
OPERATING DATA REPORT**

DOCKET NO. 50-324
UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
DATE October 7, 2002
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2002
(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:	720	6,416.9	168,086.2
4. Number of Hours the Generator Was On Line:	720	6,400.5	162,103.7
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	590,614	5,246,659	115,193,452

**APPENDIX B
 UNIT SHUTDOWNS**

DOCKET NO. 50-324
UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
DATE October 7, 2002
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD September 2002
 (Month/Year)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS COMMENTS
						Unit No. 2 was not required to shut down during the month of September 2002.

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)