



JUN 14 2004

SERIAL: BSEP 04-0055

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Docket Nos. 50-325 and 50-324/License Nos. DPR-71 and DPR-62
May 2004 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 Company, now doing business as Progress Energy Carolinas, Inc., is submitting the enclosed Monthly Operating Reports for May 2004. These reports are being submitted to the NRC by the 15th day of the month following the calendar month covered by the report as specified in TS 5.6.4.

No regulatory commitments are contained in this letter. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. T. O'Neil'.

Edward T. O'Neil
Manager - Support Services
Brunswick Steam Electric Plant

CRE/cre

Enclosures:

1. BSEP, Unit No. 1 Monthly Operating Report May 2004
2. BSEP, Unit No. 2 Monthly Operating Report May 2004

IE24

Document Control Desk
BSEP 04-0055 / Page 2

cc (with enclosures):

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

U. S. Nuclear Regulatory Commission
ATTN: Mr. Eugene M. DiPaolo, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
ATTN: Ms. Brenda L. Mozafari (Mail Stop OWFN 8G9)
11555 Rockville Pike
Rockville, MD 20852-2738

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

ElectriCities of N.C., Inc.
ATTN: Mr. Roy Donehower
P.O. Box 29513
Raleigh, N.C. 27626-0513

**APPENDIX A
OPERATING DATA REPORT**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE June 9, 2004
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD

May 2004

(Month/Year)

	MONTH	YEAR TO DATE	CUMULATIVE
1. Design Electrical Rating: (MWe-Net)	972	N/A	N/A
2. Maximum Dependable Capacity: (MWe-Net)	872	N/A	N/A
3. Number of Hours the Reactor Was Critical:	744	2,866.3	172,469.7
4. Number of Hours the Generator Was On Line:	744	2,814.1	167,918.6
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	708,842	2,428,592	126,177,856

Note 1: The Design Electrical Rating was revised from 895 MWe-Net to 972 MWe-Net to reflect the completion of Extended Power Uprate (EPU) implementation performed during the 2004 Unit 1 refueling outage.

Note 2: A new Maximum Dependable Capacity of 872 MWe-Net was established for Unit 1 effective January 2003. This value is subject to further revision as the impact of EPU implementation is assessed.

**APPENDIX B
 UNIT SHUTDOWNS**

DOCKET NO. 50-325
 UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
 DATE June 9, 2004
 COMPLETED BY Kester M. Thompson
 TELEPHONE (910) 457-2754

REPORTING PERIOD May 2004

(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 May 2004.

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)

**APPENDIX A
OPERATING DATA REPORT**

DOCKET NO. 50-324
UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
DATE June 9, 2004
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD May 2004

(Month/Year)

	MONTH	YEAR TO DATE	CUMULATIVE
1. Design Electrical Rating: (MWe-Net)	935	N/A	N/A
2. Maximum Dependable Capacity: (MWe-Net)	900	N/A	N/A
3. Number of Hours the Reactor Was Critical:	695.2	3,598.2	181,949.8
4. Number of Hours the Generator Was On Line:	683.6	3,586.6	175,867.3
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	614,039	3,267,853	127,321,355

Note 1: License Amendment 247 for Unit 2 approved Extended Power Uprate (EPU). This amendment was implemented on March 8, 2003. As a result, the present value for Design Electrical Rating (i.e., net megawatts electric (MWe)) has been revised from 867 MWe to 935 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.

Note 2: A new Maximum Dependable Capacity of 900 MWe-Net has been established for Unit 2 effective January 2004. This value is subject to further revision as EPU implementation activities continue.

**APPENDIX B
 UNIT SHUTDOWNS**

DOCKET NO. 50-324
 UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
 DATE June 9, 2004
 COMPLETED BY Kester M. Thompson
 TELEPHONE (910) 457-2754

REPORTING PERIOD May 2004

(Month/Year)

NO.	DATE	TYPE	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS
		F: FORCED S: SCHEDULED				COMMENTS
1	040529	S	60.4	B	2	Unit No. 2 was shut down to repair detected leakage in the drywell. The leak was a body to bonnet leak on the Residual Heat Removal System, Low Pressure Coolant Injection, Injection Line Check Valve 2E11-F050B.

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)