



**APR 13 2005**

**SERIAL: BSEP 05-0046**

**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  
March 2005 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 March 2005. 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 March 2005**
- 2. BSEP, Unit No. 2 Monthly Operating Report March 2005**

Handwritten initials 'JEZ4' in black ink, located in the bottom right corner of the page.

Document Control Desk  
BSEP 05-0046 / Page 2

cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II  
ATTN: Dr. 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. Cecil Rhodes  
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** April 12, 2005  
**COMPLETED BY** Kester M. Thompson  
**TELEPHONE** (910) 457-2754

**REPORTING PERIOD** March 2005

**(Month/Year)**

	<b>MONTH</b>	<b>YEAR TO DATE</b>	<b>CUMULATIVE</b>
1. Design Electrical Rating: (MWe-Net)	972	N/A	N/A
2. Maximum Dependable Capacity: (MWe-Net)	938	N/A	N/A
3. Number of Hours the Reactor Was Critical:	744	2,160	179,695.9
4. Number of Hours the Generator Was On Line:	744	2,160	175,118.3
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	713,250	2,038,766	132,881,412

**APPENDIX B  
 UNIT SHUTDOWNS**

DOCKET NO. 50-325  
 UNIT NAME Brunswick Steam Electric Plant, Unit No. 1  
 DATE April 12, 2005  
 COMPLETED BY Kester M. Thompson  
 TELEPHONE (910) 457-2754

**REPORTING PERIOD** March 2005  
 (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 March 2005.

SUMMARY: Normal power operation.

(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** April 12, 2005  
**COMPLETED BY** Kester M. Thompson  
**TELEPHONE** (910) 457-2754

**REPORTING PERIOD** March 2005

**(Month/Year)**

	<b>MONTH</b>	<b>YEAR TO DATE</b>	<b>CUMULATIVE</b>
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:	94.0	1,510	188,528.6
4. Number of Hours the Generator Was On Line:	94.0	1,510	182,431.2
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	64,565	1,247,457	133,057,715

**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 April 12, 2005  
 COMPLETED BY Kester M. Thompson  
 TELEPHONE (910) 457-2754

**REPORTING PERIOD** March 2005  
 (Month/Year)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN (2)	CAUSE/CORRECTIVE ACTIONS  COMMENTS
1	050304	S	650	C	2	Unit No. 2 was shut down for refueling on March 4, 2005.

SUMMARY: Unit No. 2 was shut down for refueling during the reporting period.

(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)