Progress Energy

JAN 1 0 2005

SERIAL: BSEP 04-0167

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
December 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 December 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,

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

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Enclosures:
1. BSEP, Unit No. 1 Monthly Operating Report December 2004
2. BSEP, Unit No. 2 Monthly Operating Report December 2004

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Progress Energy Carolinas, Inc.
Brunswick Nuclear Plant
P.O. Box 10429
Southport, NC 28461

cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II
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Sam Nunn Atlanta Federal Center
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U. S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
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Ms. Jo A. Sanford
Chair - North Carolina Utilities Commission
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ElectriCities of N.C., Inc.
ATTN: Mr. Roy Donehower
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APPENDIX A
OPERATING DATA REPORT

DOCKET NO.	50-325
UNIT NAME	Brunswick Steam Electric Plant, Unit No. 1
DATE	January 5, 2005
COMPLETED BY	Kester M. Thompson
TELEPHONE	(910) 457-2754

REPORTING PERIOD December 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	7,932.5	177,535.9
4. Number of Hours the Generator Was On Line:	744	7,853.8	172,958.3
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	688,146	7,093,382	130,842,646

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 January 5, 2005
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD December 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 December 2004.

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	January 5, 2005
COMPLETED BY	Kester M. Thompson
TELEPHONE	(910) 457-2754

REPORTING PERIOD December 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:	744	8,667.0	187,018.6
4. Number of Hours the Generator Was On Line:	744	8,640.5	180,921.2
5. Unit Reserve Shutdown Hours:	0	0	0
6. Net Electrical Energy (MWH):	669,157	7,756,756	131,810,258

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 January 5, 2005
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD December 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. 2 was not required to shut down during the month of December 2004.

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)