



MAY 08 2003

SERIAL: BSEP 03-0073

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
APRIL 2003 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, Progress Energy Carolinas, Inc. is submitting the enclosed Monthly Operating Reports for April 2003. 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 - Support Services
Brunswick Steam Electric Plant

DRC/drc

Enclosures:

1. BSEP, Unit No. 1 Monthly Operating Report April 2003
2. BSEP, Unit No. 2 Monthly Operating Report April 2003

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cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II
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U. S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission
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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
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Raleigh, NC 27626-0513

**APPENDIX A
 OPERATING DATA REPORT**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE May 6, 2003
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD April 2003
 (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) – Note 2 | 872 | N/A | N/A |
| 3. Number of Hours the Reactor Was Critical: | 719 | 2,853.6 | 163,768.3 |
| 4. Number of Hours the Generator Was On Line: | 719 | 2,841.1 | 159,292.3 |
| 5. Unit Reserve Shutdown Hours: | 0 | 0 | 0 |
| 6. Net Electrical Energy (MWH): | 645,869 | 2,552,701 | 118,600,137 |

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.

Note 2: A new Maximum Dependable Capacity of 872 MWe-Net has been established for Unit 1 effective January 2003. This value is subject to further revision as EPU implementation activities continue.

**APPENDIX B
 UNIT SHUTDOWNS**

DOCKET NO. 50-325
UNIT NAME Brunswick Steam Electric Plant, Unit No. 1
DATE May 6, 2003
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD April 2003
 (Month/Year)

| NO. | DATE | TYPE F: FORCED S: SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN (2) | CAUSE/CORRECTIVE ACTIONS COMMENTS |
|-----|------|-----------------------------------|---------------------|------------|-----------------------------------|--|
| | | | | | | Unit No. 1 was not required to shut down during the month of April 2003. |

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 May 6, 2003
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD April 2003
 (Month/Year)

| | MONTH | YEAR TO DATE | CUMULATIVE |
|---|--------------|-----------------------------|-------------------|
| 1. Design Electrical Rating: (MWe-Net) | 935 | N/A | N/A |
| 2. Maximum Dependable Capacity: (MWe-Net) | 811 | N/A | N/A |
| 3. Number of Hours the Reactor Was Critical: | 664.7 | 2,248.6 | 172,543.8 |
| 4. Number of Hours the Generator Was On Line: | 599.4 | 2,183.3 | 166,496.0 |
| 5. Unit Reserve Shutdown Hours: | 0 | 0 | 0 |
| 6. Net Electrical Energy (MWH): | 501,844 | 1,786,772 | 118,812,182 |

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.

**APPENDIX B
 UNIT SHUTDOWNS**

DOCKET NO. 50-324
UNIT NAME Brunswick Steam Electric Plant, Unit No. 2
DATE May 6, 2003
COMPLETED BY Kester M. Thompson
TELEPHONE (910) 457-2754

REPORTING PERIOD April 2003
 (Month/Year)

| NO. | DATE | TYPE F: FORCED S: SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN (2) | CAUSE/CORRECTIVE ACTIONS COMMENTS |
|-----|--------|-----------------------------------|---------------------|------------|-----------------------------------|--|
| 1 | 030307 | S | 86.7 | C | 4 | Unit No. 2 was shutdown for refueling on 3/7/03. The unit was returned to service on 4/6/03, following turbine over-speed trip testing. |
| 2 | 030404 | F | 32.9 | A | 3 | Prior to synchronizing to the grid after the refueling outage, Unit No. 2 received an unplanned automatic scram due to problems with the ElectroHydraulic Control system. Corrective actions are documented in AR 89687. |

SUMMARY: On April 4, 2003, Unit 2 received an unplanned automatic scram from approximately 22% of rated thermal power. Event description and corrective actions will be documented in LER 2-03-003.

(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)