

March 10, 2003

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

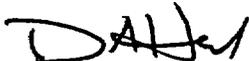
Serial No. 03-187
NAPS/JRP
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNIT NOS. 1 AND 2
MONTHLY OPERATING REPORT

Enclosed is the February, 2003, Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,



D. A. Heacock
Site Vice President

Enclosure

Commitments made in this letter: None.

cc: U. S. Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303

Mr. M. J. Morgan
NRC Senior Resident Inspector
North Anna Power Station

JE24

**VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT
FEBRUARY 2003**

Approved:

DAW

Site Vice President

3-12-03

Date

OPERATING DATA REPORT

Docket No.: 50-338
 Date: 03/10/03
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

- 1. Unit Name:..... North Anna Unit 1
- 2. Reporting Period:..... February, 2003
- 3. Licensed Thermal Power (MWt): 2,893
- 4. Nameplate Rating (Gross MWe):..... 979.74
- 5. Design Electrical Rating (Net MWe): 907
- 6. Maximum Dependable Capacity (Gross MWe):.... 971
- 7. Maximum Dependable Capacity (Net MWe):..... 925

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A

10. Reasons For Restrictions, If Any: N/A

| | <u>This Month</u> | <u>Year-To-Date</u> | <u>Cumulative</u> |
|---|-------------------|---------------------|-------------------|
| 11. Hours in Reporting Period | 672.0 | 1,416.0 | 216,420.0 |
| 12. Hours Reactor Was Critical | 529.7 | 1,273.7 | 176,329.5 |
| 13. Reactor Reserve Shutdown Hours | 13.6 | 13.6 | 7,288.8 |
| 14. Hours Generator On-Line | 528.2 | 1,272.2 | 173,061.5 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 1,214,909.6 | 3,265,207.4 | 471,976,267.7 |
| 17. Gross Electrical Energy Generated (MWH) | 413,419.0 | 1,106,725.0 | 193,040,340.0 |
| 18. Net Electrical Energy Generated (MWH) | 389,121.0 | 1,046,581.0 | 148,030,483.0 |
| 19. Unit Service Factor | 78.6% | 89.8% | 80.0% |
| 20. Unit Availability Factor | 78.6% | 89.8% | 80.0% |
| 21. Unit Capacity Factor (Using MDC Net) | 62.6% | 79.9% | 76.3% |
| 22. Unit Capacity Factor (Using DER Net) | 63.8% | 81.5% | 75.4% |
| 23. Unit Forced Outage Rate | 0.0% | 0.0% | 6.5% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A
 Type and duration of scheduled shutdowns are no longer provided.
 (Reference: Letter Serial No. 00-070, dated February 11, 2000)

25. If Shut Down at End of Report Period, Estimated Date of Start-up: N/A
 Estimated start-up dates are no longer provided.
 (Reference: Letter Serial No. 00-070, dated February 11, 2000)

26. Unit In Test Status (Prior to Commercial Operation):

| | <u>FORECAST</u> | <u>ACHIEVED</u> |
|----------------------|-----------------|-----------------|
| INITIAL CRITICALITY | _____ | _____ |
| INITIAL ELECTRICITY | _____ | _____ |
| COMMERCIAL OPERATION | _____ | _____ |

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338
Unit Name: North Anna Unit 1
Date: 03/10/03
Contact: D. A. Heacock
Telephone: (540) 894-2101

MONTH: February, 2003

| <u>Day</u> | <u>Average Daily Power Level (MWe - Net)</u> | <u>Day</u> | <u>Average Daily Power Level (MWe - Net)</u> |
|------------|--|------------|--|
| 1 | 796 | 17 | 707 |
| 2 | 794 | 18 | 703 |
| 3 | 791 | 19 | 701 |
| 4 | 771 | 20 | 698 |
| 5 | 767 | 21 | 696 |
| 6 | 764 | 22 | 656 |
| 7 | 761 | 23 | 000 |
| 8 | 760 | 24 | 000 |
| 9 | 757 | 25 | 000 |
| 10 | 738 | 26 | 000 |
| 11 | 737 | 27 | 000 |
| 12 | 734 | 28 | 000 |
| 13 | 733 | | |
| 14 | 730 | | |
| 15 | 714 | | |
| 16 | 707 | | |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe - Net for each day in the reporting month. Compute to the nearest whole megawatt.

Docket No.: 50-338
Unit Name: North Anna Unit 1
Date: 03/10/03
Contact: D. A. Heacock
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: February, 2003

SUMMARY OF OPERATING EXPERIENCE

Page 1 of 1

Listed below in chronological sequence is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

| <u>Date</u> | <u>Time</u> | <u>Data</u> |
|-------------------|-------------|--|
| February 1, 2003 | 0000 | Began the month in Mode 1, 86.4% Power, 844 MWe. End of life power coastdown. |
| February 22, 2003 | 2100 | Commence ramping Unit off-line for scheduled Refueling Outage and Reactor Vessel Head replacement |
| February 23, 2003 | 0013 | Generator removed from service |
| | 0114 | Entered Mode 2 |
| | 0139 | Entered Mode 3 |
| | 0545 | Commence RCS Cooldown |
| | 1110 | Entered Mode 4 |
| | 1516 | Entered Mode 5 |
| February 26, 2003 | 1222 | Entered Mode 6 |
| February 28, 2003 | 2400 | Ended the month in Mode 6 |

Docket No.: 50-338
 Unit Name: North Anna Unit 1
 Date: 03/10/03
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

UNIT SHUTDOWN AND POWER REDUCTION
 (EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: February, 2003

| Report No. | Date | (1) Type | Duration Hours | (2) Reason | (3) Method of Shutting Down Reactor | LER No. | (4) System Code | (5) Component Code | Cause & Corrective Action to Prevent Recurrence |
|------------|----------|-------------|-------------------|---------------|--|------------|-----------------------|--------------------------|--|
| N1-2003-01 | 03/02/23 | S | 143.8 | C/B | 1 | | | | Shutdown for scheduled, Refueling Outage / Reactor Head Replacement |

(1)
 F: Forced
 S: Scheduled

(2)
 REASON:
 A - Equipment Failure (Explain)
 B - Maintenance or Test
 C - Refueling
 D - Regulatory Restriction
 E - Operator Training & Licensing Examination
 F - Administrative
 G - Operational Error
 H - Other (Explain)

(3)
 METHOD:
 1 - Manual
 2 - Manual Scram
 3 - Automatic Scram
 4 - Continuations
 5 - Load Reduction
 9 - Other

(4)
 Exhibit G - Instructions for Preparation of Data Entry Sheets
 for Licensee Event Report (LER) File (NUREG 0161)

(5)
 Exhibit H - Same Source

OPERATING DATA REPORT

Docket No.: 50-339
 Date: 03/10/03
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
 2. Reporting Period:..... February, 2003
 3. Licensed Thermal Power (MWt): 2,893
 4. Nameplate Rating (Gross MWe):..... 979
 5. Design Electrical Rating (Net MWe): 907
 6. Maximum Dependable Capacity (Gross MWe):.... 963
 7. Maximum Dependable Capacity (Net MWe):..... 917
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A

10. Reasons For Restrictions, If Any: N/A

| | <u>This Month</u> | <u>Year-To-Date</u> | <u>Cumulative</u> |
|---|-------------------|---------------------|-------------------|
| 11. Hours in Reporting Period | 672.0 | 1,416.0 | 194,688.0 |
| 12. Hours Reactor Was Critical | 672.0 | 701.3 | 164,152.0 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 31.8 | 7,534.2 |
| 14. Hours Generator On-Line | 627.9 | 627.9 | 162,744.3 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 1,733,002.5 | 1,733,797.2 | 449,588,946.5 |
| 17. Gross Electrical Energy Generated (MWH) | 574,589.0 | 574,589.0 | 147,585,265.0 |
| 18. Net Electrical Energy Generated (MWH) | 545,461.0 | 545,461.0 | 140,849,030.0 |
| 19. Unit Service Factor | 93.4% | 44.3% | 83.6% |
| 20. Unit Availability Factor | 93.4% | 44.3% | 83.6% |
| 21. Unit Capacity Factor (Using MDC Net) | 88.5% | 42.0% | 80.3% |
| 22. Unit Capacity Factor (Using DER Net) | 89.5% | 42.5% | 79.8% |
| 23. Unit Forced Outage Rate | 0.0% | 0.0% | 4.0% |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A
 Type and duration of scheduled shutdowns are no longer provided.
 (Reference: Letter Serial No. 00-070, dated February 11, 2000)

25. If Shut Down at End of Report Period, Estimated Date of Start-up: N/A
 Estimated start-up dates are no longer provided.
 (Reference: Letter Serial No. 00-070, dated February 11, 2000)

26. Unit In Test Status (Prior to Commercial Operation):

| | FORECAST | ACHIEVED |
|----------------------|----------|----------|
| INITIAL CRITICALITY | | |
| INITIAL ELECTRICITY | | |
| COMMERCIAL OPERATION | | |

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-339
Unit Name: North Anna Unit 2
Date: 03/10/03
Contact: D. A. Heacock
Telephone: (540) 894-2101

MONTH: February, 2003

| <u>Day</u> | <u>Average Daily Power Level (MWe - Net)</u> | <u>Day</u> | <u>Average Daily Power Level (MWe - Net)</u> |
|------------|--|------------|--|
| 1 | 000 | 17 | 915 |
| 2 | 026 | 18 | 917 |
| 3 | 198 | 19 | 916 |
| 4 | 540 | 20 | 918 |
| 5 | 825 | 21 | 917 |
| 6 | 921 | 22 | 918 |
| 7 | 926 | 23 | 914 |
| 8 | 923 | 24 | 916 |
| 9 | 924 | 25 | 915 |
| 10 | 925 | 26 | 915 |
| 11 | 925 | 27 | 917 |
| 12 | 925 | 28 | 916 |
| 13 | 921 | | |
| 14 | 920 | | |
| 15 | 920 | | |
| 16 | 917 | | |

INSTRUCTIONS

On this format, list the average daily unit power level in MWe - Net for each day in the reporting month. Compute to the nearest whole megawatt.

Docket No.: 50-339
Unit Name: North Anna Unit 2
Date: 03/10/03
Contact: D. A. Heacock
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: February, 2003

SUMMARY OF OPERATING EXPERIENCE

Page 1 of 1

Listed below in chronological sequence is a summary of operating experiences for the month which required load reductions or resulted in significant non-load related incidents.

| <u>Date</u> | <u>Time</u> | <u>Data</u> |
|-------------------|-------------|--|
| February 1, 2003 | 0000 | Began the month with the Reactor Critical |
| February 2, 2003 | 2007 | Unit on-line, Commence Ramp to 30% |
| | 2132 | Stabilized power @ 28.5%, 236 Mwe. |
| February 3, 2003 | 0453 | Cleared 30% Chemistry hold. |
| | 2321 | Commence ramp to 75% power. Currently @ 29% power, 234 Mwe. |
| February 4, 2003 | 0625 | Unit @ 50% power, 455 Mwe. |
| | 1340 | Stabilized power @ 74%, 714 Mwe. |
| | 1430 | Commence flux map |
| | 1623 | Flux map complete |
| February 5, 2003 | 0138 | Commence ramp to 90% power. Currently 74.2% power, 720 Mwe. |
| | 0934 | Stabilized @ 90% power, for Calorimetric 2-PT-24.1 |
| | 0947 | Calorimetric complete Sat. |
| | 0948 | Commence ramp to 96% |
| | 1241 | Holding @ 96% power, 913 Mwe for Alternate Power Indicator review. |
| | 1533 | Review complete, Commence ramp to 98% |
| | 1637 | Stabilized power @ 98%, 925 Mwe for Calormetric |
| | 1707 | Commence ramp to 100% |
| | 1830 | Unit @ 100% power, 943 Mwe. |
| February 28, 2003 | 2400 | Ended the Month in Mode 1, 100% Power, 966 Mwe. |

Docket No.: 50-339
 Unit Name: North Anna Unit 2
 Date: 03/10/03
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

UNIT SHUTDOWN AND POWER REDUCTION
 (EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: February, 2003

| Report No | Date | (1) Type | Duration Hours | (2) Reason | (3) Method of Shutting Down Reactor | LER No. | (4) System Code | (5) Component Code | Cause & Corrective Action to Prevent Recurrence |
|------------|----------|-------------|----------------|---------------|--|---------|--------------------|-----------------------|--|
| N2-2002-01 | 03/02/28 | S | 44.1 | C/B | 1 | | | | Continuation of refueling / Reactor Vessel Head Replacement Outage |
| | | | | | | | | | |

(1)
 F: Forced
 S: Scheduled

(2)
 REASON:
 A - Equipment Failure (Explain)
 B - Maintenance or Test
 C - Refueling
 D - Regulatory Restriction
 E - Operator Training & Licensing Examination
 F - Administrative
 G - Operational Error
 H - Other (explain)

(3)
 METHOD:
 1 - Manual
 2 - Manual Scram
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 9 - Other

(4)
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 Exhibit H - Same Source