VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 10, 2003

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

Serial No. 03-605
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 November, 2003, Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,

J. M. Davis
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

IE24

# VIRGINIA ELECTRIC AND POWER COMPANY
# NORTH ANNA POWER STATION
# MONTHLY OPERATING REPORT
# NOVEMBER 2003

Approved: _____ Site Vice President  12/5/03 Date

# OPERATING DATA REPORT

Docket No.: 50-338
Date: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 1
2. Reporting Period: ..... November, 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

| | | This Month | Year-To-Date | Cumulative |
|---|---|---|---|---|
| 11. | Hours in Reporting Period | 720.0 | 8,016.0 | 223,020.0 |
| 12. | Hours Reactor Was Critical | 720.0 | 6,496.6 | 181,552.4 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 306.9 | 7,582.1 |
| 14. | Hours Generator On-Line | 720.0 | 6,457.3 | 178,246.6 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,081,250.3 | 18,140,089.9 | 486,851,150.2 |
| 17. | Gross Electrical Energy Generated (MWH) | 704,939.0 | 6,133.270.0 | 198,066,885.0 |
| 18. | Net Electrical Energy Generated (MWH) | 671,553.0 | 5,826,422.0 | 152,810,324.0 |
| 19. | Unit Service Factor | 100.0% | 80.6% | 79.9% |
| 20. | Unit Availability Factor | 100.0% | 80.6% | 79.9% |
| 21. | Unit Capacity Factor (Using MDC Net) | 100.8% | 78.6% | 76.4% |
| 22. | Unit Capacity Factor (Using DER Net) | 102.8% | 80.1% | 75.5% |
| 23. | Unit Forced Outage Rate | 0.0% | 3.8% | 6.3% |

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.: 50-338
Unit Name: North Anna Unit 1
Date: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

MONTH: November, 2003

| Day | Average Daily Power Level (MWe - Net) | Day | Average Daily Power Level (MWe - Net) |
|---|---|---|---|
| 1 | 934 | 17 | 934 |
| 2 | 933 | 18 | 933 |
| 3 | 933 | 19 | 933 |
| 4 | 932 | 20 | 934 |
| 5 | 931 | 21 | 931 |
| 6 | 932 | 22 | 931 |
| 7 | 932 | 23 | 934 |
| 8 | 927 | 24 | 934 |
| 9 | 926 | 25 | 935 |
| 10 | 933 | 26 | 934 |
| 11 | 933 | 27 | 934 |
| 12 | 932 | 28 | 934 |
| 13 | 932 | 29 | 934 |
| 14 | 933 | 30 | 935 |
| 15 | 933 | | |
| 16 | 934 | | |

**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: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**
**MONTH:** November, 2003

**SUMMARY OF OPERATING EXPERIENCE**



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.

| Date | Time | Data |
|---|---|---|
| November 1, 2003 | 0000 | Began the month in Mode 1, 100% power, 978 MWe. |
| November 21, 2003 | 2302 | Commence rampdown to approx. 890 MWe to perform Turbine Valve Freedom Test. |
| | 2353 | Stabilized @ 91% power, 890 MWe. |
| November 22, 2003 | 0034 | Turbine Valve Freedom Test complete Sat. Commence ramp to 100%. |
| | 0158 | 100% power, 980 MWe. |
| November 30, 2003 | 2400 | Ended the month in Mode 1, 100% power, 980 MWe. |

Docket No.: 50-338
Unit Name: North Anna Unit 1
Date: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

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

REPORT MONTH: November, 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

No entries for this period

(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: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 2
2. Reporting Period: ..... November, 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

| | | This Month | Year-To-Date | Cumulative |
|---|---|---|---|---|
| 11. | Hours in Reporting Period | 720.0 | 8,016.0 | 201,288.0 |
| 12. | Hours Reactor Was Critical | 720.0 | 7,288.1 | 170,738.8 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 44.6 | 7,547.0 |
| 14. | Hours Generator On-Line | 720.0 | 7,207.1 | 169,323.5 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,081,128.6 | 20,720,300.5 | 468,575,449.8 |
| 17. | Gross Electrical Energy Generated (MWH) | 698,529.0 | 6,912,660.0 | 153,923,336.0 |
| 18. | Net Electrical Energy Generated (MWH) | 665,470.0 | 6,575,254.0 | 146,878,823.0 |
| 19. | Unit Service Factor | 100.0% | 89.9% | 84.1% |
| 20. | Unit Availability Factor | 100.0% | 89.9% | 84.1% |
| 21. | Unit Capacity Factor (Using MDC Net) | 100.8% | 89.5% | 81.0% |
| 22. | Unit Capacity Factor (Using DER Net) | 101.9% | 90.4% | 80.5% |
| 23. | Unit Forced Outage Rate | 0.0% | 0.3% | 3.9% |

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.
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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: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

MONTH: November, 2003

| Day | Average Daily Power Level (MWe - Net) | Day | Average Daily Power Level (MWe - Net) |
|---|---|---|---|
| 1 | 924 | 17 | 925 |
| 2 | 924 | 18 | 924 |
| 3 | 922 | 19 | 924 |
| 4 | 922 | 20 | 925 |
| 5 | 921 | 21 | 925 |
| 6 | 923 | 22 | 925 |
| 7 | 923 | 23 | 925 |
| 8 | 924 | 24 | 925 |
| 9 | 925 | 25 | 925 |
| 10 | 924 | 26 | 925 |
| 11 | 924 | 27 | 925 |
| 12 | 925 | 28 | 925 |
| 13 | 925 | 29 | 926 |
| 14 | 923 | 30 | 926 |
| 15 | 923 | | |
| 16 | 925 | | |

**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: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 2
**MONTH:** November, 2003

**SUMMARY OF OPERATING EXPERIENCE**



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.

| Date | Time | Data |
|---|---|---|
| November 1, 2003 | 0000 | Began the month in Mode 1, 100% power, 968 MWe. |
| November 14, 2003 | 2300 | Commence rampdown to approx. 890 MWe to perform Turbine Valve Freedom Test. |
| | 2328 | Stabilized @ 91% power, 890 MWe. |
| November 15, 2003 | 0003 | Turbine Valve Freedom Test complete Sat. Commence ramp to 100%. |
| | 0246 | 100% power, 970 MWe. |
| November 30, 2003 | 2400 | Ended the Month in Mode 1, 100% power, 970 MWe. |

Docket No.: 50-339
Unit Name: North Anna Unit 2
Date: 12/10/03
Contact: J. M. Davis
Telephone: (540) 894-2101

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

REPORT MONTH: November, 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

No entries for this period

(1)
F: Forced
S: Scheduled

(2)
REASON:
A - Equipment Failure (Explain)
B - Maintenance or Test
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3 - Automatic Scram
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