


VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: February YEAR: 1992

Approved:

  
\_\_\_\_\_  
Station Manager

# OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: March 2, 1992  
 COMPLETED BY: C. Wieden  
 PHONE: (703) 894-2774

## OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....February 1992
3. Licensed Thermal Power (MWt):..... 2,893
4. Nameplate Rating (Gross MWe):..... 967
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 959
7. Maximum Dependable Capacity (Net MWe):.... 911

8. If changes occur in Capacity Ratings (Items No. 3 thru 7) since last report, give reasons: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

9. Power level to which restricted, if any (Net MWe): \_\_\_\_\_  
 10. Reasons for restrictions, if any: \_\_\_\_\_  
 \_\_\_\_\_

|   | This Month | Y-t-D   | Cumulative    |
|---|------------|---------|---------------|
| 11. Hours in Reporting Period.....                | 696.0      | 1,440.0 | 120,012.0     |
| 12. Number of Hours Reactor was Critical.....     | 0.0        | 0.0     | 86,688.5      |
| 13. Reactor Reserve Shutdown Hours.....           | 0.0        | 0.0     | 6,721.7       |
| 14. Hours Generator On-Line.....                  | 0.0        | 0.0     | 83,771.5      |
| 15. Unit Reserve Shutdown Hours.....              | 0.0        | 0.0     | 0.0           |
| 16. Gross Thermal Energy Generated (MMBtu).....   | 0.0        | 0.0     | 222,952,772.4 |
| 17. Gross Electrical Energy Generated (MMWh)..... | 0.0        | 0.0     | 73,257,847.0  |
| 18. Net Electrical Energy Generated (MMWh).....   | 0.0        | 0.0     | 60,354,617.0  |
| 19. Unit Service Factor.....                      | 0.0%       | 0.0%    | 69.8%         |
| 20. Unit Availability Factor.....                 | 0.0%       | 0.0%    | 69.8%         |
| 21. Unit Capacity Factor (Using RDC Net).....     | 0.0%       | 0.0%    | 64.5%         |
| 22. Unit Capacity Factor (Using DER Net).....     | 0.0%       | 0.0%    | 63.7%         |
| 23. Forced Outage Rate.....                       | 0.0%       | 0.0%    | 12.3%         |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

25. If Shutdown at end of Report Period, estimated time of Startup: \_\_\_\_\_ 03/13/92 \_\_\_\_\_

26. Units 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: NA-1  
 Date: March 2, 1992  
 Completed by: C. Mladen  
 Phone: (703) 894-2774

MONTH: February 1992

| DAY | AVERAGE DAILY POWER<br>LEVEL (MWe-Net) |
|-----|--|
|-----|--|

|    |   |
|----|---|
| 1  | 0 |
| 2  | 0 |
| 3  | 0 |
| 4  | 0 |
| 5  | 0 |
| 6  | 0 |
| 7  | 0 |
| 8  | 0 |
| 9  | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 0 |
| 16 | 0 |

| DAY | AVERAGE DAILY LEVEL<br>LEVEL (MWe-Net) |
|-----|--|
|-----|--|

|    |   |
|----|---|
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 0 |
| 24 | 0 |
| 25 | 0 |
| 26 | 0 |
| 27 | 0 |
| 28 | 0 |
| 29 | 0 |

## 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.

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1992

DOCKET NO.: 50-338  
UNIT NAME: NA-1  
DATE: March 2, 1992  
COMPLETED BY: C. Mladen  
PHONE: (703) 894-2774

| No.         | Date   | 1<br>Type                                 | Duration<br>(hrs) | 2<br>Reason | 3<br>Method of<br>Shutting<br>Down Reactor | Licensee<br>Event<br>Report # | 4<br>System<br>Code | 5<br>Component<br>Code    | Cause & Corrective<br>Action to<br>Prevent Recurrence |
|-------------|--------|---|-------------------|-------------|--|-------------------------------|---------------------|---------------------------|---|
| 92-01       | 920110 | S   | 696.0             | B           | 4  | N/A                           | SB                  | SG                        | S/G inspections<br>and maintenance planned.           |
| 1: Type     |        | 2: Reason                                 |                   |             |  | 3: Method                     |                     | 4:                        |   |
| F=Forced    |        | A=Equipment Failure (explain)             |                   |             |  | 1=Manual                      |                     | Exhibit F - Instructions  |   |
| S=Scheduled |        | B=Maintenance or Test                     |                   |             |  | 2=Manual Scram                |                     | for preparation of Data   |   |
|             |        | C=Refueling                               |                   |             |  | 3=Automatic Scram             |                     | Entry Sheets for Licensee |   |
|             |        | D=Regulatory Restriction                  |                   |             |  | 4=Continuations               |                     | Event Report (LER) File   |   |
|             |        | E=Operator Training & License Examination |                   |             |  | 5=Load Reduction              |                     | (NUREG-0161)              |   |
|             |        | F=Administrative                          |                   |             |  | 9=Other                       |                     |                           |   |
|             |        | G=Operational Error                       |                   |             |  |                               |                     | 5:                        |   |
|             |        | H=Other (explain)                         |                   |             |  |                               |                     | Exhibit H - Same Source   |   |

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month February Unit Name: NA-1

Year: 1992 Date: March 2, 1992

Completed by: Cathie Mladen

#92-01      January 10, 1992  
Unit in Mode 5 for planned inspection and maintenance of  
Steam Generators.

NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: February

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.

| <u>Date</u>       | <u>Time</u> | <u>Data</u>                      |
|-------------------|-------------|----------------------------------|
| February 01, 1992 | 0000        | Began month with unit in Mode 5. |
| February 29, 1992 | 2400        | Ended month with unit in Mode 5. |



# OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: March 2, 1992  
 COMPLETED BY: C. Mladen  
 PHONE: (703) 894-2774

## OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....February 1992
3. Licensed Thermal Power (Mwt):..... 2893
4. Nameplate Rating (Gross MWe):..... 947
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 957
7. Maximum Dependable Capacity (Net MWe):.... 909

8. If changes occur in Capacity Ratings (Items No. 3 thru 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  | Y-t-D       | Cumulative    |
|--|-------------|-------------|---------------|
| 11. Hours in Reporting Period.....               | 696.0       | 1,440.0     | 98,280.0      |
| 12. Number of Hours Reactor was Critical.....    | 615.0       | 1,347.1     | 81,083.0      |
| 13. Reactor Reserve Shutdown Hours.....          | 28.5        | 40.4        | 6,097.8       |
| 14. Hours Generator On-Line.....                 | 614.2       | 1,331.2     | 80,105.6      |
| 15. Unit Reserve Shutdown Hours.....             | 0.0         | 0.0         | 0.0           |
| 16. Gross Thermal Energy Generated (MWH).....    | 1,447,879.9 | 3,431,941.1 | 215,249,074.2 |
| 17. Gross Electrical Energy Generated (MWH)..... | 473,570.0   | 1,121,145.0 | 70,501,271.0  |
| 18. Net Electrical Energy Generated (MWH).....   | 446,422.0   | 1,061,728.0 | 67,561,461.0  |
| 19. Unit Service Factor.....                     | 88.2%       | 92.4%       | 81.5%         |
| 20. Unit Availability Factor.....                | 88.2%       | 92.4%       | 81.5%         |
| 21. Unit Capacity Factor (using MDC Net).....    | 70.6%       | 81.1%       | 76.4%         |
| 22. Unit Capacity Factor (using DER Net).....    | 70.7%       | 81.3%       | 75.8%         |
| 23. Forced Outage Rate.....                      | 0.0%        | 2.0%        | 5.9%          |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): \_\_\_\_\_ N/A \_\_\_\_\_

25. If Shutdown at end of Report Period, estimated time of Startup: \_\_\_\_\_ 04/24/92 \_\_\_\_\_

26. Units 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: NA-2  
 Date: March 2, 1992  
 Completed by: C. Mladen  
 Phone: (703) 894-2774

MONTH: February 1992

| DAY | AVERAGE DAILY POWER<br>LEVEL (MWe-Net) |
|-----|--|
|-----|--|

|    |            |
|----|------------|
| 1  | <u>772</u> |
| 2  | <u>787</u> |
| 3  | <u>785</u> |
| 4  | <u>785</u> |
| 5  | <u>784</u> |
| 6  | <u>781</u> |
| 7  | <u>778</u> |
| 8  | <u>751</u> |
| 9  | <u>754</u> |
| 10 | <u>751</u> |
| 11 | <u>750</u> |
| 12 | <u>747</u> |
| 13 | <u>739</u> |
| 14 | <u>704</u> |
| 15 | <u>710</u> |
| 16 | <u>707</u> |

| DAY | AVERAGE DAILY LEVEL<br>LEVEL (MWe-Net) |
|-----|--|
|-----|--|

|    |            |
|----|------------|
| 17 | <u>705</u> |
| 18 | <u>702</u> |
| 19 | <u>699</u> |
| 20 | <u>696</u> |
| 21 | <u>693</u> |
| 22 | <u>691</u> |
| 23 | <u>689</u> |
| 24 | <u>674</u> |
| 25 | <u>638</u> |
| 26 | <u>331</u> |
| 27 | <u>0</u>   |
| 28 | <u>0</u>   |
| 29 | <u>0</u>   |

## 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.



# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1992

DOCKET NO.: 50-339  
UNIT NAME: NA-2  
DATE: March 2, 1992  
COMPLETED BY: C. Mladen  
PHONE: (703) 894-2774

| No.   | Date   | 1<br>Type | Duration<br>(hrs) | 2<br>Reason | 3<br>Method of<br>Shutting<br>Down Reactor | Licensee<br>Event<br>Report # | 4<br>System<br>Code | 5<br>Component<br>Code | Cause & Corrective<br>Action to<br>Prevent Recurrence                           |
|-------|--------|-----------|-------------------|-------------|--|-------------------------------|---------------------|------------------------|---|
| 92-03 | 920226 | S         | 81.8              | C           | 1  | N/A                           | N/A                 | N/A                    | Unit shutdown in preparation for refueling. S/G maintenance/inspection planned. |

|                                    |   |  |   |                               |
|------------------------------------|---|--|---|-------------------------------|
| 1: Type<br>F=Forced<br>S=Scheduled | 2: Reason<br>A=Equipment Failure (explain)<br>B=Maintenance or Test<br>C=Refueling<br>D=Regulatory Restriction<br>E=Operator Training & License Examination<br>F=Administrative<br>G=Operational Error<br>H=Other (explain) | 3: Method<br>1=Manual<br>2=Manual Scram<br>3=Automatic Scram<br>4=Continuations<br>5=Load Reduction<br>9=Other | 4:<br>Exhibit F - Instructions for preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161) | 5:<br>Exhibit H - Same Source |
|------------------------------------|---|--|---|-------------------------------|

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-339

Report Month February Unit Name: NA-2

Year: 1992 Date: March 2, 1992

Completed by: Cathie Mladen

#92-03

February 26, 1992

Main Generator taken off-line at 1413 hours in preparation for refueling outage. Unit entered Mode 3 at 1501 hours.

February 27, 1992

Unit entered Mode 4 at 0449 hours. Unit entered Mode 5 at 1930 hours.

# NORTH ANNA POWER STATION

UNIT NO.: 2  
MONTH: February

## 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.

| <u>Date</u>       | <u>Time</u> | <u>Data</u>  |
|-------------------|-------------|--|
| February 01, 1992 | 0000        | Began month with unit at 86% power, 815MWe.                        |
| February 26, 1992 | 1413        | Main Generator taken off-line in preparation for refueling outage. |
|                   | 1501        | Unit entered Mode 3.   |
| February 27, 1992 | 0449        | Unit entered Mode 4.   |
|                   | 1930        | Unit entered Mode 5.   |
| February 29, 1992 | 2400        | Ended month with unit in Mode 5.                                   |

Revised Pages for December 1991 and January 1992  
North Anna Unit 1 Monthly Operating Reports