

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

June 12, 1996

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

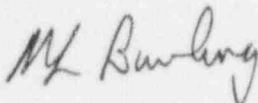
Serial No. 96-302  
NLOS/RPC  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNITS 1 AND 2**  
**MONTHLY OPERATING REPORT**

Enclosed is the May 1996 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,



M. L. Bowling, Manager  
Nuclear Licensing and Operations Support

Enclosure

cc: U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW  
Suite 2900  
Atlanta, Georgia 30323

Mr. R. D. McWhorter  
NRC Senior Resident Inspector  
North Anna Power Station

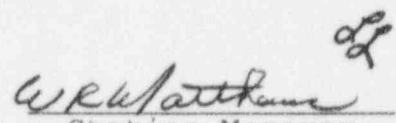
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VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: May YEAR: 1996

Approved:

  
Station Manager

# OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: June 5, 1996  
 CONTACT: W. R. Matthews  
 PHONE: (540) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....May 1996
3. Licensed Thermal Power (MWt):..... 2,893
4. Nameplate Rating (Gross MWe):..... 994
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 940
7. Maximum Dependable Capacity (Net MWe):.... 893

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.....	744.0	3,647.0	157,283.0
12. Number of Hours Reactor was Critical.....	744.0	2,946.5	120,132.9
13. Reactor Reserve Shutdown Hours.....	0.0	43.0	6,994.4
14. Hours Generator On-Line.....	744.0	2,918.7	117,106.2
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,151,897.2	7,672,177.7	312,985,914.8
17. Gross Electrical Energy Generated (MWH).....	708,417.0	2,523,629.0	139,854,242.0
18. Net Electrical Energy Generated (MWH).....	674,319.0	2,393,702.0	97,434,856.0
19. Unit Service Factor.....	100.0%	80.0%	74.5%
20. Unit Availability Factor.....	100.0%	80.0%	74.5%
21. Unit Capacity Factor (using MDC Net).....	101.5%	73.5%	69.3%
22. Unit Capacity Factor (using DER Net).....	99.9%	72.4%	68.3%
23. Forced Outage Rate.....	0.0%	0.0%	9.1%

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: N/A

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: June 5, 1996  
Contact: W.R. Matthews  
Phone: (540) 894-2101

MONTH: May 1996

DAY AVERAGE DAILY POWER  
LEVEL (MWe-Net)

1	<u>907</u>
2	<u>907</u>
3	<u>908</u>
4	<u>908</u>
5	<u>907</u>
6	<u>907</u>
7	<u>907</u>
8	<u>907</u>
9	<u>907</u>
10	<u>902</u>
11	<u>905</u>
12	<u>905</u>
13	<u>905</u>
14	<u>905</u>
15	<u>905</u>
16	<u>906</u>

DAY AVERAGE DAILY POWER  
LEVEL (MWe-Net)

17	<u>905</u>
18	<u>906</u>
19	<u>906</u>
20	<u>907</u>
21	<u>908</u>
22	<u>908</u>
23	<u>907</u>
24	<u>906</u>
25	<u>906</u>
26	<u>907</u>
27	<u>906</u>
28	<u>906</u>
29	<u>907</u>
30	<u>907</u>
31	<u>906</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.

# NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: May

## 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>
May 01, 1996	0000	Began month with unit at 100% power, 952 MWe.
May 10, 1996	0737	Commenced ramp down from 100% power, 956 MWe for Turbine Valve Freedom Test (TVFT).
	0825	Unit stable at 93% power, 882 MWe.
	0858	Commenced ramp from 92% power to 100% power after completion of TVFT.
	0940	Unit stable at 100% power, 955 MWe.
May 31, 1996	2400	Ended month with unit stable at 100% power, 953 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month May Unit Name: NA-1

Year: 1996 Date: June 5, 1996

Contact: W. R. Matthews

\*No Entries This Month.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: May 1996

DOCKET NO.: 50-338  
UNIT NAME: NA-1  
DATE: June 5, 1996  
CONTACT: W. R. Matthews  
PHONE: (540) 894-2101

No.	Date	1 Type	Duration (hrs)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
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\* No Entries This Month.

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

# OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: June 5, 1996  
 CONTACT: W. R. Matthews  
 PHONE: (540) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....May 1996
3. Licensed Thermal Power (MWt):..... 2893
4. Nameplate Rating (Gross MWe):..... 979
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 944
7. Maximum Dependable Capacity (Net MWe):.... 897

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.....	744.0	3,647.0	135,551.0
12. Number of Hours Reactor was Critical.....	744.0	3,647.0	113,704.6
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	6,535.0
14. Hours Generator On-Line.....	744.0	3,647.0	112,570.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,151,911.6	10,548,085.5	306,525,324.2
17. Gross Electrical Energy Generated (MWH).....	707,542.0	3,471,818.0	100,303,236.0
18. Net Electrical Energy Generated (MWH).....	673,249.0	3,306,585.0	95,878,224.0
19. Unit Service Factor.....	100.0%	100.0%	83.0%
20. Unit Availability Factor.....	100.0%	100.0%	83.0%
21. Unit Capacity Factor (using MDC Net).....	100.9%	101.1%	78.6%
22. Unit Capacity Factor (using DER Net).....	99.8%	100.0%	78.0%
23. Forced Outage Rate.....	0.0%	0.0%	4.7%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): \_\_\_Refueling Outage scheduled to begin on September 14, 1996. Duration = 30 days.\_\_\_\_\_

25. If Shutdown at end of Report Period, estimated time of Startup: \_\_\_\_\_ N/A \_\_\_\_\_

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: June 5, 1996  
Contact: W.R. Matthews  
Phone: (540) 894-2101

MONTH: May 1996

DAY AVERAGE DAILY POWER  
LEVEL (MWe-Net)

1	<u>908</u>
2	<u>907</u>
3	<u>907</u>
4	<u>906</u>
5	<u>906</u>
6	<u>906</u>
7	<u>907</u>
8	<u>906</u>
9	<u>905</u>
10	<u>904</u>
11	<u>903</u>
12	<u>904</u>
13	<u>905</u>
14	<u>905</u>
15	<u>905</u>
16	<u>905</u>

DAY AVERAGE DAILY POWER  
LEVEL (MWe-Net)

17	<u>900</u>
18	<u>904</u>
19	<u>903</u>
20	<u>903</u>
21	<u>904</u>
22	<u>905</u>
23	<u>904</u>
24	<u>904</u>
25	<u>905</u>
26	<u>904</u>
27	<u>905</u>
28	<u>905</u>
29	<u>906</u>
30	<u>906</u>
31	<u>905</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.

# NORTH ANNA POWER STATION

UNIT NO.: 2

MONTH: May

## 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>
May 01, 1996	0000	Began month with unit stable at 100% power, 951 MWe.
May 17, 1996	0920	Commenced unit rampdown for Turbine Valve Freedom Test. Unit at 100% power, 953 MWe.
	0951	Unit stable at 91.8% power, 872 MWe.
	1033	Turbine Valve Freedom Test completed. Commenced unit rampup. Unit at 91.8% power, 872 MWe.
	1105	Unit stable at 100% power, 953 MWe.
May 31, 1996	2400	Ended month with unit stable at 100% power, 951 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-339

Report Month May Unit Name: NA-2

Year: 1996 Date: June 5, 1996

Contact: W. R. Matthews

\* No Entries This Month.

REPORT MONTH: May 1996

DOCKET NO.: 50-339  
UNIT NAME: NA-2  
DATE: June 5, 1996  
CONTACT: W. R. Matthews  
PHONE: (540) 894-2101

No.	Date	1 Type	2 Duration (hrs)	Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
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\* No Entries This Month

1: Type	2: Reason	3: Method	4:
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	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