


VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH February YEAR 1983

APPROVED:

  
STATION MANAGER

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 03-01-83

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2502

MONTH February

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<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.

# OPERATING DATA REPORT

DOCKET NO. 50-338  
DATE 03-01-83  
COMPLETED BY G. D. Schmitendorf  
TELEPHONE (703) 894-5151 X2502

## OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: February 1983
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 918
7. Maximum Dependable Capacity (Net MWe): 865
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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	672	1,416	41,497
12. Number of Hours Reactor Was Critical	0	0	27,123
13. Reactor Reserve Shutdown Hours	0	0	1,998.1
14. Hours Generator On-Line	0	0	26,382.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	68,259,354
17. Gross Electrical Energy Generated (MWH)	0	0	21,784,532
18. Net Electrical Energy Generated (MWH)	0	0	20,520,733
19. Unit Service Factor	0	0	63.6
20. Unit Availability Factor	0	0	63.6
21. Unit Capacity Factor (Using MDC Net)	0	0	57.2
22. Unit Capacity Factor (Using DER Net)	0	0	54.5
23. Unit Forced Outage Rate	100.0	100.0	100.0
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 03-07-83
26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338  
UNIT NAME North Anna 1  
DATE 03-01-83  
COMPLETED BY G. D. Schmitendorf  
TELEPHONE (703) 894-5151 X2502

REPORT MONTH February

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
82-12	821205	F	672	A	3	82-85	SF	INSTRU	Replacement main generator has been installed. The main transformers are being replaced.

1	2	3	4
F: Forced	Reason:	Method:	Exhibit F - Instructions
S: Scheduled	A-Equipment Failure (Explain)	1-Manual	for Preparation of Data
	B-Maintenance or Test	2-Manual Scram.	Entry Sheets for Licensee
	C-Refueling	3-Automatic Scram	Event Report (LER) File
	D-Regulatory Restriction	4-Continuations	(NUREG-0161)
	E-Operator Training & License Examination	5-Load Reduction	
	F-Administrative	9-Other	
	G-Operational Error (Explain)		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 1983      DATE 03-01-83

COMPLETED BY G. D. Schmitendorf

NO ENTRIES THIS MONTH

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 03-01-83

COMPLETED BY G. Schmitendor

TELEPHONE 703-894-5151X2502

MONTH February

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>867</u>	17	<u>866</u>
2	<u>868</u>	18	<u>869</u>
3	<u>868</u>	19	<u>864</u>
4	<u>868</u>	20	<u>868</u>
5	<u>865</u>	21	<u>864</u>
6	<u>855</u>	22	<u>864</u>
7	<u>865</u>	23	<u>866</u>
8	<u>867</u>	24	<u>868</u>
9	<u>866</u>	25	<u>863</u>
10	<u>866</u>	26	<u>863</u>
11	<u>867</u>	27	<u>533</u>
12	<u>864</u>	28	<u>0</u>
13	<u>857</u>	29	<u></u>
14	<u>865</u>	30	<u></u>
15	<u>862</u>	31	<u></u>
16	<u>859</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.

# OPERATING DATA REPORT

DOCKET NO. 50-339  
DATE 03-01-83  
COMPLETED BY G. D. Schmitendorf  
TELEPHONE (703) 894-5151 X2502

## OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: February 1983
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 939
7. Maximum Dependable Capacity (Net MWe): 890
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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	672	1,416	19,368
12. Number of Hours Reactor Was Critical	638.8	1,332.1	13,835.2
13. Reactor Reserve Shutdown Hours	33.2	129.1	2,150.9
14. Hours Generator On-Line	638.8	1,286.9	13,739.6
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,773,633	3,321,345	35,047,365
17. Gross Electrical Energy Generated (MWH)	581,595	1,089,616	11,678,912
18. Net Electrical Energy Generated (MWH)	552,561	1,031,959	11,081,577
19. Unit Service Factor	95.1	90.9	70.9
20. Unit Availability Factor	95.1	90.9	70.9
21. Unit Capacity Factor (Using MDC Net)	92.4	81.9	64.3
22. Unit Capacity Factor (Using DER Net)	90.7	80.4	63.1
23. Unit Forced Outage Rate	4.9	9.1	19.1
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling Outage 04-01-83 thru 05-13-83

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 03-01-83
26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339

UNIT NAME North Anna 2

DATE 03-01-83

COMPLETED BY G. D. Schmitendorf

TELEPHONE (703) 894-5151 X2502

REPORT MONTH February

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
83-05	830227	F	33.2	A	3	NA	NA	NA	Automatic Reactor Trip due to Steam Flow-Feed Flow Mismatch coincident with Low Level "B" S/G. Control Air Line to "B" Main Feedwater Regulating Valve sheared causing the trip conditions to occur.

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



## UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET      DOCKET NO. 50-339REPORT MONTH February      UNIT NAME NA-2YEAR 1983      DATE 03-01-83COMPLETED BY G. D. Schmitendorf

83-05      (A)      (3)      At 1444 on February 27, 1983 with the unit at 100% an Automatic Reactor Trip occurred. The trip signal was Steam Flow-Feed Flow mismatch coincident with Low Steam Generator Level. The cause for the secondary coolant oscillation and subsequent reactor trip was due to the closing of "B" Main Feedwater Regulating Valve upon loss of air to the valve when the air supply line sheared. Subsequent to this event the air supply tubing to each feed regulating valve was replaced. The "B" Main Feedwater Regulating Valve air supply line sheared at the Gyrolock fitting. It is suspected that fatigue failure of the tubing caused the shear. As of 2400 February 28, 1983 the unit was stable in Mode 3 (Hot Standby) with a reactor start-up ready to commence.