

VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: March YEAR: 1996

Approved:

  
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Station Manager

JRH

9604170303 960412  
PDR ADDCK 05000338  
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# OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: April 5, 1996  
 CONTACT: J. A. Stall  
 PHONE: (540) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....March 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 MWs): N/A

10. Reasons for restrictions, if any: N/A

	This Month	Y-t-D	Cumulative
11. Hours in Reporting Period.....	744.0	2,184.0	155,820.0
12. Number of Hours Reactor was Critical.....	497.3	1,483.5	118,669.9
13. Reactor Reserve Shutdown Hours.....	30.6	43.0	6,994.4
14. Hours Generator On-Line.....	470.3	1,455.7	115,643.2
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	1,234,628.1	3,440,656.1	308,754,393.2
17. Gross Electrical Energy Generated (MWH).....	404,941.0	1,130,101.0	138,460,714.0
18. Net Electrical Energy Generated (MWH).....	383,958.0	1,066,861.0	96,108,015.0
19. Unit Service Factor.....	63.2%	66.7%	74.2%
20. Unit Availability Factor.....	63.2%	66.7%	74.2%
21. Unit Capacity Factor (using MDC Net).....	57.8%	54.7%	69.0%
22. Unit Capacity Factor (using DER Net).....	56.9%	53.9%	68.0%
23. Forced Outage Rate.....	0.0%	0.0%	9.2%

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: April 5, 1996  
 Contact: J. A. Stall  
 Phone: (540) 894-2101

MONTH: March 1996

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>249</u>
13	<u>608</u>
14	<u>652</u>
15	<u>737</u>
16	<u>898</u>

DAY      AVERAGE DAILY POWER  
             LEVEL (MWe-Net)

17	<u>911</u>
18	<u>910</u>
19	<u>908</u>
20	<u>907</u>
21	<u>908</u>
22	<u>909</u>
23	<u>909</u>
24	<u>623</u>
25	<u>419</u>
26	<u>909</u>
27	<u>909</u>
28	<u>909</u>
29	<u>908</u>
30	<u>909</u>
31	<u>909</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 SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month March Unit Name: NA-1

Year: 1996 Date: April 5, 1996

Contact: J. A. Stall

#96-02

March 24, 1996

Unit manually taken off-line at 1928 hours and  
shutdown for maintenance on 01-MS-TV-101B.

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-338  
UNIT NAME: NA-1  
DATE: April 5, 1996  
CONTACT: J. A. Stall  
PHONE: (540) 894-2101

REPORT MONTH: March 1996

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
96-02	960325	S	9.8	B	1	N/A	N/A	N/A	N/A

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

# NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: March

## SUMMARY OF OPERATING EXPERIENCE

Page 1 of 3

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>
March 01, 1996	0000	Began month with unit in Mode 6 for scheduled refueling outage. Reactor fuel on-load in progress.
March 02, 1996	1442	Reactor fuel on-load completed.
March 05, 1996	1038	Unit entered Mode 5.
March 08, 1996	0618	Unit entered Mode 4.
	0807	Commenced RCS cooldown to Mode 5 due to 1-RC-P-1B failure to start.
	1126	Unit entered Mode 5.
March 09, 1996	2330	Repairs completed to 1-RC-P-1B. Commenced RCS heatup to Mode 4.
	2340	Unit entered Mode 4.
March 10, 1996	0510	Unit entered Mode 3.
	2302	Unit entered Mode 2.
	2351	Reactor critical.
March 11, 1996	1805	Unit entered Mode 1 following completion of Low Power Physics Testing.
	2350	Placed Unit on line.
March 12, 1996	0130	Unit stable at 30% power, 271 MWe for chemistry hold.
	1730	Chemistry hold cleared. Commenced ramp to 75% power.
March 13, 1996	0140	Ramp suspended at 61% power, 571 MWe due to steam generator action level one on sulfates.
	0610	Cleared action on steam generator sulfates and commenced ramp from 61% power.

# NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: March

## SUMMARY OF OPERATING EXPERIENCE

Page 2 of 3

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>
March 13, 1996	0930	Unit stabilized at 74% power, 697 MWe for flux mapping.
March 15, 1996	0415	Commenced unit ramp-up. Unit at 74% power, 700 MWe.
	0601	Stabilized unit at 81% power, 783 MWe. due to chemistry hold.
	1821	Chemistry hold cleared. Commenced unit ramp-up. Unit at 81% power, 783 MWe.
	2121	Stabilized unit at 90% power, 870 MWe. to adjust nuclear instrumentation.
	2122	Commenced unit ramp-up. Unit at 90% power, 870 MWe.
	2306	Stabilized unit at 96% power, 928 MWe. due to chemistry hold.
March 16, 1996	0436	Chemistry hold cleared. Commenced unit ramp-up. Unit at 96% power, 928 MWe.
	1040	Unit stable at 100% power, 952 MWe.
March 24, 1996	1248	Commenced ramping unit down from 100% power, 959 MWe for repairs to 01-MS-TV-101B.
	1928	Opened generator output breaker. Unit off-line.
	1935	Entered Mode 2.
	1945	Entered Mode 3.
	2355	All maintenance and testing complete on 01-MS-TV-101B.
March 25, 1996	0200	Entered Mode 2.
	0238	Reactor critical.
	0332	Entered Mode 1.

## NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: MarchSUMMARY OF OPERATING EXPERIENCE

Page 3 of 3

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>
March 25, 1996	0515	Commenced unit ramp to 30% power.
	0850	Unit placed into chemistry hold at 30% power, 262 MWe on steam generator sulfates.
	1207	Cleared chemistry hold.
	1226	Commenced ramp to 100% power from 30% power, 260 MWe.
	1843	Unit stable at 100% power, 956 MWe.
March 31, 1996	2400	Ended month with unit stable at 100% power, 956 MWe.



# OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: April 5, 1996  
 CONTACT: J. A. Stall  
 PHONE: (540) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....March 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	2,184.0	134,088.0
12. Number of Hours Reactor was Critical.....	744.0	2,184.0	112,241.6
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	6,535.0
14. Hours Generator On-Line.....	744.0	2,184.0	111,107.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,151,969.4	6,316,595.9	302,293,834.6
17. Gross Electrical Energy Generated (MWH).....	707,309.0	2,079,757.0	98,911,175.0
18. Net Electrical Energy Generated (MWH).....	673,770.0	1,981,411.0	94,553,050.0
19. Unit Service Factor.....	100.0%	100.0%	82.9%
20. Unit Availability Factor.....	100.0%	100.0%	82.9%
21. Unit Capacity Factor (using MDC Net).....	101.0%	101.1%	78.4%
22. Unit Capacity Factor (using DER Net).....	99.8%	100.0%	77.7%
23. Forced Outage Rate.....	0.0%	0.0%	4.8%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Scheduled Refueling Outage  
 September 14, 1996 , 35 day Duration

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: April 5, 1996  
 Contact: J. A. Stall  
 Phone: (540) 894-2101

MONTH: March 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>906</u>
2	<u>905</u>
3	<u>905</u>
4	<u>904</u>
5	<u>905</u>
6	<u>905</u>
7	<u>905</u>
8	<u>903</u>
9	<u>903</u>
10	<u>905</u>
11	<u>906</u>
12	<u>905</u>
13	<u>905</u>
14	<u>905</u>
15	<u>905</u>
16	<u>904</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>905</u>
18	<u>905</u>
19	<u>908</u>
20	<u>908</u>
21	<u>908</u>
22	<u>904</u>
23	<u>908</u>
24	<u>906</u>
25	<u>903</u>
26	<u>908</u>
27	<u>907</u>
28	<u>906</u>
29	<u>907</u>
30	<u>907</u>
31	<u>908</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.

REPORT MONTH: March 1996

DOCKET NO.: 50-339  
UNIT NAME: NA-2  
DATE: April 5, 1996  
CONTACT: J. A. Stall  
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