

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

March 11, 1996

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

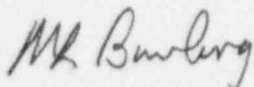
Serial No. 96-124  
NL&OS/JHL/CMC  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

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

Enclosed is the February 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, GA 30323

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

180094

9603200145 960229  
PDR ADOCK 05000338  
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VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: February YEAR: 1996

Approved:

JRH  
Station Manager

OPERATING DATA REPORT

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

OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....February 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

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9. Power level to which restricted, if any (Net MWe):   N/A
10. Reasons for restrictions, if any:   N/A

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	This Month	Y-t-D	Cumulative
11. Hours in Reporting Period.....	696.0	1,440.0	155,076.0
12. Number of Hours Reactor was Critical.....	242.2	986.2	118,172.6
13. Reactor Reserve Shutdown Hours.....	12.4	12.4	6,963.8
14. Hours Generator On-Line.....	241.4	985.4	115,172.9
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	481,363.3	2,206,028.0	307,519,765.1
17. Gross Electrical Energy Generated (MWH).....	158,773.0	725,160.0	101,043,495.0
18. Net Electrical Energy Generated (MWH).....	148,620.0	682,903.0	95,724,057.0
19. Unit Service Factor.....	34.7%	68.4%	74.3%
20. Unit Availability Factor.....	34.7%	68.4%	74.3%
21. Unit Capacity Factor (using MDC Net).....	23.9%	53.1%	69.1%
22. Unit Capacity Factor (using DER Net).....	23.5%	52.3%	68.1%
23. Forced Outage Rate.....	0.0%	0.0%	9.3%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):   Refueling Outage Scheduled for February 10, 1996, Duration 29 Days

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

MONTH: February 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>641</u>	17	<u>0</u>
2	<u>640</u>	18	<u>0</u>
3	<u>636</u>	19	<u>0</u>
4	<u>626</u>	20	<u>0</u>
5	<u>625</u>	21	<u>0</u>
6	<u>616</u>	22	<u>0</u>
7	<u>607</u>	23	<u>0</u>
8	<u>609</u>	24	<u>0</u>
9	<u>607</u>	25	<u>0</u>
10	<u>581</u>	26	<u>0</u>
11	<u>3</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>		
15	<u>0</u>		
16	<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.

NORTH ANNA POWER STATION

UNIT NO.: 1  
 MONTH: February

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>
February 01, 1996	0000	Began month in end-of-cycle coastdown with unit at 72% power, 686 MWe.
February 10, 1996	2110	Commenced ramping unit off-line in preparation for scheduled refueling outage. Unit at 67.4% power, 648 MWe.
February 11, 1996	0121	Unit taken off-line for scheduled refueling outage.
	0133	Unit entered Mode 2.
	0210	Unit entered Mode 3.
	1020	Unit entered Mode 4.
	1436	Unit entered Mode 5.
February 14, 1996	1604	Unit entered Mode 6.
February 20, 1996	0637	Unit defueled.
February 29, 1996	0453	Commenced core onload. Unit entered Mode 6.
February 29, 1996	2400	Ended month with unit in Mode 6, reactor fuel onload in progress.

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month February Unit Name: NA-1

Year: 1996 Date: March 5, 1996

Contact: J. A. Stall

#96-01

February 11, 1996  
Unit manually taken off-line at 0121 hours and  
shutdown for normally scheduled refueling outage.

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH: February 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
96-01	960211	S	454.6	C	1	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

OPERATING DATA REPORT

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

OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....February 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      

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9. Power level to which restricted, if any (Net MWe):       N/A      

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

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	This Month	Y-t-D	Cumulative
11. Hours in Reporting Period.....	696.0	1,440.0	133,344.0
12. Number of Hours Reactor was Critical.....	696.0	1,440.0	111,497.6
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	6,535.0
14. Hours Generator On-Line.....	696.0	1,440.0	110,363.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,013,183.6	4,164,626.5	300,141,865.2
17. Gross Electrical Energy Generated (MWH).....	662,520.0	1,372,448.0	98,203,866.0
18. Net Electrical Energy Generated (MWH).....	631,198.0	1,307,641.0	93,879,280.0
19. Unit Service Factor.....	100.0%	100.0%	82.8%
20. Unit Availability Factor.....	100.0%	100.0%	82.8%
21. Unit Capacity Factor (using MDC Net).....	101.1%	101.2%	78.3%
22. Unit Capacity Factor (using DER Net).....	100.0%	100.1%	77.6%
23. Forced Outage Rate.....	0.0%	0.0%	4.8%

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

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

MONTH: February 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>911</u>	17	<u>906</u>
2	<u>911</u>	18	<u>906</u>
3	<u>911</u>	19	<u>906</u>
4	<u>911</u>	20	<u>906</u>
5	<u>911</u>	21	<u>906</u>
6	<u>911</u>	22	<u>906</u>
7	<u>910</u>	23	<u>906</u>
8	<u>906</u>	24	<u>907</u>
9	<u>906</u>	25	<u>906</u>
10	<u>907</u>	26	<u>906</u>
11	<u>904</u>	27	<u>906</u>
12	<u>904</u>	28	<u>906</u>
13	<u>906</u>	29	<u>905</u>
14	<u>907</u>		
15	<u>907</u>		
16	<u>902</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: February

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>
February 01, 1996	0000	Began month with unit stable at 100% power, 954 MWe.
February 16, 1996	0808	Commenced unit ramp-down for Turbine Valve Freedom Test. Unit at 100% power, 953 MWe.
	0841	Unit stable at 90% power, 859 MWe.
	0905	Commenced unit ramp-up following Turbine Valve Freedom Test. Unit at 90% power, 860 MWe.
	0941	Unit stable at 100% power, 947 MWe.
February 29, 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 February Unit Name: NA-2

Year: 1996 Date: March 5, 1996

Contact: J. A. Stall

\* No entries this month.

REPORT MONTH: February 1996

DOCKET NO.: 50-339  
UNIT NAME: NA-2  
DATE: March 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