

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

February 5, 1998

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

Serial No. 98-083  
NAPS/JHL  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION UNIT NOS. 1 AND 2  
MONTHLY OPERATING REPORT

Enclosed is the January 1998 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,

*W R Matthews*  
W. R. Matthews  
Station Manager

Enclosure

cc: U. S. Nuclear Regulatory Commission  
Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

JE247

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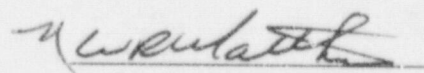


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VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: January Year: 1998

Approved:

  
Station Manager

OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: February 5, 1998  
 CONTACT: W. R. Matthews  
 PHONE: (540) 894-2101

OPERATING STATUS

- 1. Unit Name:..... North Anna 1
- 2. Reporting Period:..... January
- 3. Licensed Thermal Power (MWT):..... 2,893
- 4. Nameplate Rating (Gross MWe):..... 979.74
- 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 to Capacity Ratings (Items 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 .....	744.0	744.0	171,924.0
12. Number of Hours Reactor was Critical.....	744.0	744.0	133,999.0
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	7,095.0
14. Hours Generator On-Line.....	744.0	744.0	130,911.4
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,151,440.0	2,151,440.0	352,685,912.5
17. Gross Electrical Energy Generated (MWH).....	702,902.0	702,902.0	152,873,555.0
18. Net Electrical Energy Generated (MWH).....	669,163.0	669,163.0	109,813,346.0
19. Unit Service Factor.....	100.0%	100.0%	76.1%
20. Unit Availability Factor.....	100.0%	100.0%	76.1%
21. Unit Capacity Factor (using MDC Net).....	100.7%	100.7%	71.5%
22. Unit Capacity Factor (using DER Net).....	99.2%	99.2%	70.4%
23. Forced Outage Rate.....	0.0%	0.0%	8.3%

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

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25. If Shutdown at end of Report Period, estimated time of Startu N/A

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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: Feb:5, 1998  
 Contact: W. R. Matthews  
 Phone: (540) 894-2101

MONTH JANUARY 1998

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>900</u>	17	<u>899</u>
2	<u>896</u>	18	<u>899</u>
3	<u>901</u>	19	<u>899</u>
4	<u>900</u>	20	<u>899</u>
5	<u>900</u>	21	<u>899</u>
6	<u>900</u>	22	<u>899</u>
7	<u>900</u>	23	<u>899</u>
8	<u>900</u>	24	<u>900</u>
9	<u>900</u>	25	<u>899</u>
10	<u>900</u>	26	<u>899</u>
11	<u>900</u>	27	<u>899</u>
12	<u>900</u>	28	<u>899</u>
13	<u>901</u>	29	<u>899</u>
14	<u>900</u>	30	<u>898</u>
15	<u>900</u>	31	<u>898</u>
16	<u>900</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 January 1998SUMMARY 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>
January 1, 1998	0000	Began month in Mode 1 at 100% Power, 945 Mwe.
January 2, 1998	2200	Commenced ramp to 91% power for Turbine Valve Freedom Test (TVFT).
January 2, 1998	2330	TVFT completed sat. Commenced ramp to 100% power.
January 30, 1998	2310	Commenced ramp to 91% power for TVFT.
January 31, 1998	0010	TVFT completed sat. Commenced ramp to 100% power.
January 31, 1998	2400	Ended the month at 100% power, 943Mwe.



DOCKET NO.: 50-338  
 UNIT NAME: NA-1  
 DATE: February 5, 1998  
 CONTACT: W. R. Matthews  
 PHONE: (540) 894-2101

Unit Shutoffs and Power Reductions  
 Report Month: January 1998

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	F=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: February 5, 1998  
 CONTACT: W. R. Matthews  
 PHONE: (540) 894-2101

OPERATING STATUS

- 1. Unit Name:..... North Anna 2
- 2. Reporting Period:..... January
- 3. Licensed Thermal Power (MWT):..... 2,893
- 4. Nameplate Rating (Gross MWe):..... 879
- 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 to Capacity Ratings (Items 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	744.0	150,192.0
12. Number of Hours Reactor was Critical.....	4.0	744.0	126,459.2
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	7,184.2
14. Hours Generator On-Line.....	744.0	744.0	125,266.2
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,151,798.7	2,151,798.7	342,944,978.7
17. Gross Electrical Energy Generated (MWH).....	701,102.0	701,102.0	112,203,616.0
18. Net Electrical Energy Generated (MWH).....	667,510.0	667,510.0	107,195,478.0
19. Unit Service Factor.....	100.0%	100.0%	83.4%
20. Unit Availability Factor.....	100.0%	100.0%	83.4%
21. Unit Capacity Factor (using MDC Net).....	100.0%	100.0%	79.4%
22. Unit Capacity Factor (using DER Net).....	98.9%	98.9%	78.7%
23. Forced Outage Rate.....	0.0%	0.0%	5.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, Duration of Each): Refueling, April 5, 1998 for 35 days

25. If Shutdown at end of Report Period, estimated time of Start: 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: Feb. 5, 1998  
 Contact: W. R. Matthews  
 Phone: (540) 894-2101

MONTH JANUARY 1998

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>898</u>	17	<u>896</u>
2	<u>898</u>	18	<u>896</u>
3	<u>899</u>	19	<u>897</u>
4	<u>899</u>	20	<u>897</u>
5	<u>899</u>	21	<u>897</u>
6	<u>898</u>	22	<u>896</u>
7	<u>898</u>	23	<u>896</u>
8	<u>898</u>	24	<u>895</u>
9	<u>898</u>	25	<u>897</u>
10	<u>898</u>	26	<u>896</u>
11	<u>898</u>	27	<u>896</u>
12	<u>898</u>	28	<u>897</u>
13	<u>898</u>	29	<u>897</u>
14	<u>897</u>	30	<u>897</u>
15	<u>896</u>	31	<u>897</u>
16	<u>895</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: January 1998

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>
January 1, 1998	0000	Began the month in Mode 1 100% Power 940 Mwe.
January 23, 1998	2331	Commenced ramp to 93% power for Turbine Valve Freedom Test (TVFT).
January 24, 1998	0100	TVFT completed sat. Commenced ramp to 100% power.
January 31, 1998	2400	Ended the month at 100% power, 945 Mwe.

Unit Shutdowns and Power Reductions  
 Report Month: January 1998

DOCKET NO.: 50-339  
 UNIT NAME: NA-2  
 DATE: February 5, 1998  
 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=Regulator 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