

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

March 9, 1998

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

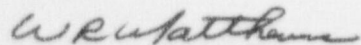
Serial No. 98-141
NAPS/JHL
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

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

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

Very truly yours,



W. R. Matthews
Site Vice President

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

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PDR ADCK 05000338
R PDR

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VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: February Year: 1998

Approved:

WR Wattham

Site Vice President

gm

OPERATING DATA REPORT

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

OPERATING STATUS

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

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	672.0	1,416.0	172,596.0
12. Number of Hours Reactor was Critical	672.0	1,416.0	134,671.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,095.0
14. Hours Generator On-Line	672.0	1,416.0	131,583.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,883,745.0	4,035,185.0	354,569,657.5
17. Gross Electrical Energy Generated (MWH)	617,398.0	1,320,300.0	153,490,953.0
18. Net Electrical Energy Generated (MWH)	587,097.0	1,256,260.0	110,400,443.0
19. Unit Service Factor	100.0%	100.0%	76.2%
20. Unit Availability Factor	100.0%	100.0%	76.2%
21. Unit Capacity Factor (using MDC Net)	97.8%	99.3%	71.6%
22. Unit Capacity Factor (using DER Net)	96.3%	97.8%	70.5%
23. Forced Outage Rate	0.0%	0.0%	8.2%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, Duration)
 Refueling Sept. 13, 1998
 35 Days

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

MONTH FEBRUARY 1998

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>899</u>	17	<u>836</u>
2	<u>899</u>	18	<u>836</u>
3	<u>899</u>	19	<u>836</u>
4	<u>898</u>	20	<u>835</u>
5	<u>898</u>	21	<u>878</u>
6	<u>898</u>	22	<u>903</u>
7	<u>899</u>	23	<u>901</u>
8	<u>899</u>	24	<u>900</u>
9	<u>899</u>	25	<u>901</u>
10	<u>900</u>	26	<u>901</u>
11	<u>899</u>	27	<u>900</u>
12	<u>882</u>	28	<u>897</u>
13	<u>780</u>		
14	<u>787</u>		
15	<u>791</u>		
16	<u>814</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 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>
February 1, 1998	0000	Began month in Mode 1 at 100% power, 943 Mwe.
February 12, 1998	2015	Began power reduction due to reduced main feed pump suction pressure due to problems associated with "E" high pressure heater drain pump and "B" condensate pump. Stabilized power at approx 88% power, 841 Mwe.
February 16, 1998	1350	Commenced ramp to 92% power, 882 Mwe following repairs to "B" high pressure heater drain pump.
February 21, 1998	0802	Commence ramp to 100% power, 946 Mwe following restart of "B" condensate pump.
February 27, 1998	2315	Commence ramp down to 92% power, 880 Mwe for Turbine Valve Freedom Test (TVFT).
February 28, 1998	0030	TVFT completed sat. Commencing ramp to 100% power.
February 28, 1998	2400	Ended the month at 100% power, 946 Mwe.

PHONE: (540) 894-2101

Report Month: FEBRUARY 1998

* 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		
	H=Other (explain)		
			5:
			Exhibit H - Same Source

OPERATING DATA REPORT

DOCKET NO.: 50-339
 DATE: Mar 5, 1998
 CONTACT: W. R. Matthews
 PHONE: (540) 894-2101

OPERATING STATUS

1. Unit Name:..... North Anna 2
 2. Reporting Period:..... February
 3. Licensed Thermal Power (Mwt):..... 2,893
 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 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.....	672.0	1,416.0	150,864.0
12. Number of Hours Reactor was Critical.....	672.0	1,416.0	127,131.2
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	7,184.2
14. Hours Generator On-Line.....	672.0	1,416.0	125,938.2
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	1,943,372.7	4,095,171.4	344,888,351.4
17. Gross Electrical Energy Generated (MWH).....	631,968.0	1,333,070.0	112,835,584.0
18. Net Electrical Energy Generated (MWH).....	601,509.0	1,269,019.0	107,796,987.0
19. Unit Service Factor.....	100.0%	100.0%	83.5%
20. Unit Availability Factor.....	100.0%	100.0%	83.5%
21. Unit Capacity Factor (using MDC Net).....	99.8%	99.9%	79.5%
22. Unit Capacity Factor (using DER Net).....	98.7%	98.8%	78.8%
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 Startu 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, 1998
 Contact: W. R. Matthews
 Phone: (540) 894-2101

MONTH FEBRUARY 1998

DAY AVERAGE DAILY POWER
LEVEL (MWe-Net)

1	<u>898</u>
2	<u>897</u>
3	<u>897</u>
4	<u>896</u>
5	<u>896</u>
6	<u>896</u>
7	<u>897</u>
8	<u>897</u>
9	<u>897</u>
10	<u>896</u>
11	<u>897</u>
12	<u>896</u>
13	<u>894</u>
14	<u>893</u>
15	<u>894</u>
16	<u>893</u>

DAY AVERAGE DAILY POWER
LEVEL (MWe-Net)

17	<u>893</u>
18	<u>893</u>
19	<u>893</u>
20	<u>891</u>
21	<u>892</u>
22	<u>893</u>
23	<u>893</u>
24	<u>896</u>
25	<u>896</u>
26	<u>896</u>
27	<u>896</u>
28	<u>897</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 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>
February 1, 1998	0000	Began the month in Mode 1 100% power, 946 Mwe.
February 20, 1998	2303	Commenced ramp down to 91% power, 870 MW for Turbine Valve Freedom Test (TVFT).
February 20, 1998	2359	TVFT completed sat. Commencing ramp to 100% power.
February 28, 1998	2400	Ended the month at 100% power, 942 Mwe.

DOCKET NO.: 50-339

UNIT NAME: NA-2

DATE: MARCH 5, 1998

CONTACT: W. R. Matthews

PHONE: (540) 894-2101

Unit Shutdowns and Power Reductions

Report Month: FEBRUARY 1998

No.	Date	1 Type	2 Duration (hrs)	3 Reason	4 Method of Shutting Down Reactor	5 Licensee Event Report #	6 System Code	7 Component Code	8 Cause & Corrective Action to Prevent Recurrence
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* No entries this month.

1: Type	2: Reason	3: Method	4:	5:
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			
	H=Other (explain)			