VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 6, 1997

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

Serial No. 97-089
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 1997 Monthly Operating Report for North Anna Power Station Unit 1 and 2.

Very truly yours,

W. R. Matthews
Station Manager

Enclosure

cc: U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N. W.
Suite 2900
Atlanta, Georgia 30323

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

1/1
IE24

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: January YEAR: 1997

Approved:

Station Manager

JRH

OPERATING DATA REPORT

DOCKET NO.: 50-338
DATE: February 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

OPERATING STATUS

1.	Unit Name:	North Anna 1
2.	Reporting Period:	January 1997
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 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	163,164.0
12.	Number of Hours Reactor was Critical	744.0	744.0	125,961.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	7,046.0
14.	Hours Generator On-Line	744.0	744.0	122,917.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,151,416.6	2,151,416.6	329,731,953.2
17.	Gross Electrical Energy Generated (MWH)	705,709.0	705,709.0	145,348,395.0
18.	Net Electrical Energy Generated (MWH)	671,972.0	671,972.0	102,658,626.0
19.	Unit Service Factor	100.0%	100.0%	75.3%
20.	Unit Availability Factor	100.0%	100.0%	75.3%
21.	Unit Capacity Factor (using MDC Net)	101.1%	101.1%	70.4%
22.	Unit Capacity Factor (using DER Net)	99.6%	99.6%	69.4%
23.	Forced Outage Rate	0.0%	0.0%	8.8%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, Duration of Each):
Scheduled Refueling Ouatge beginning May 9, 1997
Duration = 35 days.

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:	February 5, 1997
Contact:	W. R. Matthews
Phone:	(540) 894-2101

MONTH: January 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	905	17	904
2	905	18	904
3	900	19	904
4	904	20	904
5	905	21	904
6	904	22	904
7	905	23	904
8	905	24	902
9	905	25	897
10	904	26	901
11	905	27	901
12	904	28	901
13	904	29	901
14	904	30	901
15	903	31	902
16	904		

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

SUMMARY OF OPERATING EXPERIENCE

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.

Date	Time	Data
January 01, 1997	0000	Began month with unit at 100% power, 951 MWe.
January 03, 1997	0940	Commenced ramp down from 100% power, 950 MWe for swapping Main Feedwater Pumps.
	1005	Unit stable at 95% power, 905 MWe.
	1130	Commenced ramp to 100% power after swapping Main Feedwater Pumps.
	1300	Unit stable at 100% power, 950 MWe.
January 25, 1997	1345	Commenced ramp down for Turbine Valve Freedom Test (TVFT) from 100% power, 950 MWe.
	1437	Unit stable at 92% power, 870 MWe.
	1510	TVFT complete satisfactorily.
	1525	Commenced ramp to 100% power.
	1615	Unit stable at 100% power, 945 MWe.
January 31, 1997	2400	Ended month with unit stable at 100% power, 950 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month January **Unit Name:** NA-1

Year: 1997 **Date:** February 5, 1997

Contact: W. R. Matthews

* No entries this month.

UNIT SHUTDOWS AND POWER REDUCTIONS

DOCKET NO.: 50-338
UNIT NAME: NA-1
DATE: February 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

REPORT MONTH: January 1997

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
* No entries this month.									

1: Type
F=Forced
S=Scheduled

2: Reason
A=Equipment Failure (explain)
B=Maintenance or Test
C=Refueling
D=Regulatory Restriction
E=Operator Training & License Examination
F=Administrative
G=Operational Error
H=Other (explain)

3: Method
1=Manual
2=Manual Scram
3=Automatic Scram
4=Continuations
5=Load Reduction
9=Other

4:
Exhibit F - Instructions for preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5:
Exhibit H - Same Source

OPERATING DATA REPORT

DOCKET NO.: 50-339
DATE: February 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

OPERATING STATUS

1.	Unit Name:	North Anna 2
2.	Reporting Period:	January 1997
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	744.0	744.0	141,432.0
12.	Number of Hours Reactor was Critical	744.0	744.0	117,699.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	7,162.2
14.	Hours Generator On-Line	744.0	744.0	116,528.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,148,955.0	2,148,955.0	317,730,873.0
17.	Gross Electrical Energy Generated (MWH)	705,621.0	705,621.0	103,974,856.0
18.	Net Electrical Energy Generated (MWH)	672,128.0	672,128.0	99,365,310.0
19.	Unit Service Factor	100.0%	100.0%	82.4%
20.	Unit Availability Factor	100.0%	100.0%	82.4%
21.	Unit Capacity Factor (using MDC Net)	100.7%	100.7%	78.1%
22.	Unit Capacity Factor (using DER Net)	99.6%	99.6%	77.5%
23.	Forced Outage Rate	0.0%	0.0%	5.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, 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.:	50-339
Unit:	NA-2
Date:	February 5, 1997
Contact:	W. R. Matthews
Phone:	(540) 894-2101

MONTH: January 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	907	17	904
2	907	18	904
3	907	19	904
4	907	20	899
5	908	21	904
6	907	22	904
7	906	23	904
8	906	24	905
9	907	25	904
10	906	26	905
11	906	27	905
12	905	28	905
13	905	29	906
14	906	30	868
15	905	31	885
16	905		

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

SUMMARY OF OPERATING EXPERIENCE

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.

Date	Time	Data
January 01, 1997	0000	Began month in Mode 1 at 100% power, 952 MWe.
January 20, 1997	0938	Commenced ramp from 100% power, 945 MWe for performance of Turbine Valve Freedom Test (TVFT).
	1014	Unit stable at 90% power, 860 MWe.
	1046	TVFT completed satisfactorily.
	1049	Commenced ramp to 100% power after completing TVFT.
	1125	Unit stable at 100% power, 944 MWe.
January 30, 1997	0459	"A" and "C" Moisture Separator Reheater (MSR) flow valves failed closed. "B" valve at 10% open and "D" at 25% open. Valves then began to cycle between open and closed.
	0536	MSR valves started to drift back open. Reset push-button used to fully close all valves.
	0538	Control rods stepped in "auto" to step 204 on "D" bank due to Tave/Tref mismatch.
	0538	Reactor power stabilized at 95.5%, 904 MWe.
January 31, 1997	1035	Moisture Separator Reheaters (MSRs) returned to service. Returned unit to 100% power, 932 MWe.
	1605	All control valves associated with the MSRs returned to service. Generator output increased to 950 MWe.
	2400	Ended month in Mode 1 at 100% power, 950 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-339

Report Month January **Unit Name:** NA-2

Year: 1997 **Date:** February 5, 1997

Contact: W. R. Matthews

* No entries this month.

UNIT SHUTDOWS AND POWER REDUCTIONS

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE:February 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

REPORT MONTH:January 1997

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
*	N o entries	this	month.						

1: Type
F=Forced
S=Scheduled

2: Reason
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B=Maintenance or Test
C=Refueling
D=Regulatory Restriction
E=Operator Training & License Examination
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G=Operational Error
H=Other (explain)

3: Method
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