

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

April 14, 1993

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

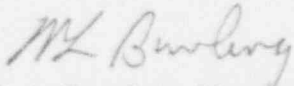
Serial No. 93-216  
NL&P/JMJ:jmj  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

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

Enclosed is the Monthly Operating Report for North Anna Power Station Units 1 and 2 for the month of March 1993.

Very truly yours,



M. L. Bowling, Manager  
Nuclear Licensing and Programs

Enclosure

cc: U.S. Nuclear Regulatory Commission  
101 Marietta Street, NW  
Suite 2900  
Atlanta, GA 30323


Mr. M. S. Lesser  
NRC Senior Resident Inspector  
North Anna Power Station

JE24

VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: March      YEAR: 1993

Approved:

  
\_\_\_\_\_  
Station Manager

①

OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: April 1, 1993  
 CONTACT: G. E. Kane  
 PHONE: (703) 894-2101

OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....March 1993
3. Licensed Thermal Power (Mwt):..... 2,748
4. Nameplate Rating (Gross MWe):..... 947
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 894
7. Maximum Dependable Capacity (Net MWe):.... 848

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	2,160.0	129,516.0
12. Number of Hours Reactor was Critical.....	0.0	84.2	94,015.0
13. Reactor Reserve Shutdown Hours.....	0.0	15.7	6,773.7
14. Hours Generator On-Line.....	0.0	83.0	91,079.7
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	0.0	95,402.5	240,271,589.4
17. Gross Electrical Energy Generated (MWH).....	0.0	31,066.0	78,957,971.0
18. Net Electrical Energy Generated (MWH).....	0.0	27,823.0	74,741,763.0
19. Unit Service Factor.....	0.0%	3.8%	70.3%
20. Unit Availability Factor.....	0.0%	3.8%	70.3%
21. Unit Capacity Factor (using MDC Net).....	0.0%	1.5%	64.6%
22. Unit Capacity Factor (using DER Net).....	0.0%	1.4%	63.6%
23. Forced Outage Rate.....	0.0%	0.0%	11.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each) \_\_\_\_\_

25. If Shutdown at end of Report Period, estimated time of Startup: April 21, 1993. \_\_\_\_\_

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 1, 1993  
 Contact: G. E. Kane  
 Phone: (703) 894-2101

MONTH: March 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</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>	30	<u>0</u>
15	<u>0</u>	31	<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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: April 1993

DOCKET NO.: 50-338  
 UNIT NAME: NA-1  
 DATE: April 1, 1993  
 CONTACT: G. E. Kane  
 PHCNE: (703) 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
93-01	930104	S	744.0	C/H	1	N/A	N/A	N/A	Shutdown for refueling and replacement of Steam Generators.

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	(JUREG-0161)
	F=Administrative	9=Other	
	G=Operational Error		5:
	H=Other (explain)		Exhibit H - Same Source

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month March Unit Name: NA-1

Year: 1993 Date: April 1, 1993

Contact: G. E. Kane

#93-01      January 4, 1993  
Main generator taken off line at 1100 hours for a  
refueling and steam generator replacement outage.

NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: March

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>
March 01, 1993	0000	Began month with unit remaining defueled. Old steam generators have been removed and placed in storage. New generators are in place with welding ongoing.
March 16, 1993	1314	Unit entered Mode 6.
March 18, 1993	1600	Core on-load completed.
March 22, 1993	2348	Unit entered Mode 5.
March 31, 1993	2400	Ended month with unit in Mode 5.

OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: April 1, 1993  
 CONTACT: G. E. Kane  
 PHONE: (703) 894-2101

OPERATING STATUS

- 1. Unit Name:.....North Anna 2
- 2. Reporting Period:.....March 1993
- 3. Licensed Thermal Power (Mwt):..... 2893
- 4. Nameplate Rating (Gross MWe):..... 947
- 5. Design Electrical Rating (Net MWe):..... 907
- 6. Maximum Dependable Capacity (Gross MWe):... 957
- 7. Maximum Dependable Capacity (Net MWe):.... 909

8. If changes occur in Capacity Ratings (Items No. 3 thru 7) since last report, give reasons: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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	2,160.0	107,784.0
12. Number of Hours Reactor was Critical.....	744.0	2,160.0	89,204.2
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	6,244.4
14. Hours Generator On-Line.....	744.0	2,160.0	88,173.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,151,535.5	6,246,261.5	238,371,026.0
17. Gross Electrical Energy Generated (MWH).....	704,593.0	2,047,307.0	78,084,023.0
18. Net Electrical Energy Generated (MWH).....	670,890.0	1,949,268.0	74,773,749.0
19. Unit Service Factor.....	100.0%	100.0%	81.8%
20. Unit Availability Factor.....	100.0%	100.0%	81.8%
21. Unit Capacity Factor (using MDC Net).....	99.2%	99.3%	77.0%
22. Unit Capacity Factor (using DER Net).....	99.4%	99.5%	76.5%
23. Forced Outage Rate.....	0.0%	0.0%	5.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):Refueling outage, September 4, 1993, 60 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.: 50-339  
 Unit: NA-2  
 Date: April 1, 1993  
 Contact: G. E. Kane  
 Phone: (703) 894-2101

MONTH: March 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>901</u>	17	<u>901</u>
2	<u>902</u>	18	<u>901</u>
3	<u>902</u>	19	<u>900</u>
4	<u>902</u>	20	<u>901</u>
5	<u>902</u>	21	<u>900</u>
6	<u>903</u>	22	<u>901</u>
7	<u>903</u>	23	<u>901</u>
8	<u>904</u>	24	<u>902</u>
9	<u>905</u>	25	<u>901</u>
10	<u>904</u>	26	<u>896</u>
11	<u>905</u>	27	<u>902</u>
12	<u>903</u>	28	<u>901</u>
13	<u>901</u>	29	<u>902</u>
14	<u>901</u>	30	<u>902</u>
15	<u>901</u>	31	<u>902</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-339  
 UNIT NAME: NA-2  
 DATE: April 1, 1993  
 CONTACT: G. E. Kane  
 PHONE: (703) 894-2101

REPORT MONTH: March 1993

No.	Date	1 Type	2 Duration (hrs)	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 entry 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

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-339

Report Month March Unit Name: NA-2

Year: 1993 Date: April 1, 1993

Contact: G. E. Kane

\*No entry this month.

NORTH ANNA POWER STATION

UNIT NO.: 2  
MONTH: March

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>
March 01, 1993	0000	Began month with unit at 100% power, 949 MWe.
March 26, 1993	1021	Commenced rampdown to 92% power for TVFT.
	1051	Unit stable at 92% power, 875 MWe.
	1153	Completed TVFT satisfactorily.
	1219	Commenced ramp to 100% power.
	1329	Unit stable at 100% power, 948 MWe.
March 31, 1993	2400	Ended month with unit at 100% power, 944 MWe.