

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

December 11, 1992

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

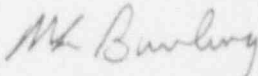
Serial No. 92-793  
NL&P/JMJ:jmj  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

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 November 1992.

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

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VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: November YEAR: 1992

Approved:

  
Station Manager

# OPERATING DATA REPORT

DOCKET NO.: 50-338

DATE: December 7, 1992

CONTACT: G. E. Kane

PHONE: (703) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....November 1992
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.....	720.0	8,040.0	126,612.0
12. Number of Hours Reactor was Critical.....	720.0	6,498.3	93,186.8
13. Reactor Reserve Shutdown Hours.....	0.0	36.3	6,758.0
14. Hours Generator On-Line.....	720.0	6,481.2	90,252.7
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	1,209,022.4	16,242,690.2	239,195,462.6
17. Gross Electrical Energy Generated (MWH).....	388,646.0	5,348,580.0	78,606,427.0
18. Net Electrical Energy Generated (MWH).....	359,100.0	5,066,642.0	74,421,259.0
19. Unit Service Factor.....	100.0%	80.6%	71.3%
20. Unit Availability Factor.....	100.0%	80.6%	71.3%
21. Unit Capacity Factor (using MDC Net).....	58.8%	72.8%	65.8%
22. Unit Capacity Factor (using DER Net).....	55.0%	69.5%	64.8%
23. Forced Outage Rate.....	0.0%	0.0%	11.5%

24. shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each) Steam Generator Replacement and Refueling Outage, January 1993, approximately 120 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: Dec. 7, 1992  
 Contact: G. E. Kane  
 Phone: (703) 894-2101

MONTH: November 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>583</u>
2	<u>580</u>
3	<u>569</u>
4	<u>567</u>
5	<u>565</u>
6	<u>540</u>
7	<u>534</u>
8	<u>532</u>
9	<u>519</u>
10	<u>519</u>
11	<u>517</u>
12	<u>515</u>
13	<u>500</u>
14	<u>500</u>
15	<u>499</u>
16	<u>494</u>

DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
17	<u>485</u>
18	<u>484</u>
19	<u>483</u>
20	<u>472</u>
21	<u>465</u>
22	<u>469</u>
23	<u>457</u>
24	<u>455</u>
25	<u>452</u>
26	<u>449</u>
27	<u>445</u>
28	<u>439</u>
29	<u>438</u>
30	<u>436</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: Nov. 1992

DOCKET NO.: 50-338  
UNIT NAME: NA-1  
DATE: Dec. 7, 1992  
CONTACT: G. E. Kane  
PHONE: (703) 894-2101

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 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.: 50-338

Report Month November Unit Name: NA-1

Year: 1992 Date: Dec. 7, 1992

Contact: G. E. Kane

\*No entry this month.

NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: November

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>
November	01, 1992 0000	Began month with unit at 65% power, 626 MWe, in a power coastdown.
November	30, 1992 2400	Ended month with unit at 50% power, 475 MWe.

# OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: December 7, 1992  
 CONTACT: G. E. Kane  
 PHONE: (703) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....November 1992
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: \_\_\_\_\_  
 \_\_\_\_\_ 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.....	720.0	8,040.0	104,880.0
12. Number of Hours Reactor was Critical.....	720.0	6,564.3	86,300.2
13. Reactor Reserve Shutdown Hours.....	0.0	187.0	6,244.4
14. Hours Generator On-Line.....	720.0	6,494.7	85,269.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,081,686.5	18,156,153.7	229,973,286.8
17. Gross Electrical Energy Generated (MWH).....	683,163.0	5,949,645.0	75,329,771.0
18. Net Electrical Energy Generated (MWH).....	650,783.0	5,651,429.0	72,151,162.0
19. Unit Service Factor.....	100.0%	80.8%	81.3%
20. Unit Availability Factor.....	100.0%	80.8%	81.3%
21. Unit Capacity Factor (using MDC Net).....	99.4%	77.3%	76.4%
22. Unit Capacity Factor (using DER Net).....	99.7%	77.5%	75.8%
23. Forced Outage Rate.....	0.0%	1.1%	5.6%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and 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: Dec. 7, 1992  
Contact: G. E. Kane  
Phone: (703) 894-2101

MONTH: November 1992

DAY      AVERAGE DAILY POWER  
            LEVEL (MWe-Net)

1	<u>900</u>
2	<u>900</u>
3	<u>900</u>
4	<u>903</u>
5	<u>905</u>
6	<u>905</u>
7	<u>905</u>
8	<u>906</u>
9	<u>905</u>
10	<u>907</u>
11	<u>907</u>
12	<u>907</u>
13	<u>905</u>
14	<u>906</u>
15	<u>906</u>
16	<u>906</u>

DAY      AVERAGE DAILY LEVEL  
            LEVEL (MWe-Net)

17	<u>905</u>
18	<u>905</u>
19	<u>906</u>
20	<u>891</u>
21	<u>904</u>
22	<u>904</u>
23	<u>904</u>
24	<u>904</u>
25	<u>904</u>
26	<u>903</u>
27	<u>902</u>
28	<u>903</u>
29	<u>904</u>
30	<u>905</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: Nov. 1992

DOCKET NO.: 50-339  
UNIT NAME: NA-2  
DATE: Dec. 7, 1992  
CONTACT: G. E. Kane  
PHONE: (703) 894-2101

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 November Unit Name: NA-2

Year: 1992 Date: Dec. 7, 1992

Contact: G. E. Kane

\*No entry this month.

# NORTH ANNA POWER STATION

UNIT NO.: 2  
MONTH: November

## 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>
November 01, 1992	0000	Began month with unit at 100% power, 944 MWe. "D" water box isolated.
November 01, 1992	2052	"D" water box returned to service, output increased to 949 MWe.
November 01, 1992	2300	Isolated "C" water box for maintenance, output decreased to 944 MWe.
November 04, 1992	1428	"C" water box returned to service, output increased to 950 MWe.
November 20, 1992	1156	Commence rampdown to 90% power for TVFT.
	1232	Unit stable at 90% power, 865 MWe.
	1519	Commenced ramp to 100% power following satisfactory completion of TVFT.
	1718	Unit stable at 100% power, 948 MWe.
November 30, 1992	2400	Ended month with unit at 100% power, 945 MWe.