

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

November 13, 1992

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


Serial No. 92-728  
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 October 1992.

Very truly yours,

  
W. L. Stewart  
Senior Vice President - Nuclear

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: October YEAR: 1992

Approved:

  
Station Manager

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# OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: November 9 1992  
 CONTACT: G. E. Kane  
 PHONE: (703) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....October 1992
3. Licensed Thermal Power (MWT):..... 2,768
4. Nameplate Rating (Gross MWe):..... 967
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.....	745.0	7,320.0	125,892.0
12. Number of Hours Reactor was Critical.....	745.0	5,778.3	92,466.8
13. Reactor Reserve Shutdown Hours.....	0.0	30.3	6,758.0
14. Hours Generator On-Line.....	745.0	5,761.2	89,532.7
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	1,568,321.8	15,033,667.8	237,986,440.2
17. Gross Electrical Energy Generated (MWH).....	522,024.0	4,959,934.0	78,217,781.0
18. Net Electrical Energy Generated (MWH).....	491,186.0	4,707,542.0	74,062,159.0
19. Unit Service Factor.....	100.0%	78.7%	71.1%
20. Unit Availability Factor.....	100.0%	78.7%	71.1%
21. Unit Capacity Factor (using MDC Net).....	77.7%	74.2%	65.8%
22. Unit Capacity Factor (using DER Net).....	72.7%	70.9%	64.9%
23. Forced Outage Rate.....	0.0%	0.0%	11.6%

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: Nov. 9, 1992  
 Contact: G. E. Kane  
 Phone: (703) 894-2101

MONTH: October 1992

DAY      AVERAGE DAILY POWER  
            LEVEL (MWe-Net)

1	<u>734</u>
2	<u>728</u>
3	<u>720</u>
4	<u>719</u>
5	<u>716</u>
6	<u>706</u>
7	<u>704</u>
8	<u>700</u>
9	<u>691</u>
10	<u>685</u>
11	<u>679</u>
12	<u>677</u>
13	<u>672</u>
14	<u>668</u>
15	<u>665</u>
16	<u>659</u>

DAY      AVERAGE DAILY LEVEL  
            LEVEL (MWe-Net)

17	<u>654</u>
18	<u>648</u>
19	<u>644</u>
20	<u>640</u>
21	<u>638</u>
22	<u>636</u>
23	<u>620</u>
24	<u>619</u>
25	<u>619</u>
26	<u>616</u>
27	<u>605</u>
28	<u>602</u>
29	<u>601</u>
30	<u>596</u>
31	<u>581</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 SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month October Unit Name: NA-1

Year: 1992 Date: Nov. 9, 1992

Contact: G. E. Kane

\*No entry this month.

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-338  
UNIT NAME: NA-1  
DATE: Nov. 9, 1992  
CONTACT: G. E. Kane  
PHONE: (703) 894-2101

REPORT MONTH: Oct. 1992

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

# NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: October

## 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>
October 01, 1992	0000	Began month with unit at 81% power, 778 MWe, in a power coastdown.
31, 1992	1234	#1 Throttle valve repairs completed and valve was reopened.
31, 1992	2400	Ended month with unit at 65% power, 626 MWe.

# OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: November 9, 1992  
 CONTACT: G. E. Kane  
 PHONE: (703) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....October 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.....	745.0	7,320.0	104,160.0
12. Number of Hours Reactor was Critical.....	745.0	5,844.3	85,580.2
13. Reactor Reserve Shutdown Hours.....	0.0	187.0	6,244.4
14. Hours Generator On-Line.....	745.0	5,774.7	84,549.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,153,294.4	16,074,467.2	227,891,600.3
17. Gross Electrical Energy Generated (MWH).....	705,682.0	5,266,482.0	74,646,608.0
18. Net Electrical Energy Generated (MWH).....	671,298.0	5,000,646.0	71,500,379.0
19. Unit Service Factor.....	100.0%	78.9%	81.2%
20. Unit Availability Factor.....	100.0%	78.9%	81.2%
21. Unit Capacity Factor (using MDC Net).....	99.1%	75.2%	76.2%
22. Unit Capacity Factor (using DER Net).....	99.3%	75.3%	75.7%
23. Forced Outage Rate.....	0.0%	1.2%	5.7%

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: Nov. 9, 1992  
 Contact: G. E. Kane  
 Phone: (703) 894-2101

MONTH: October 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	<u>902</u>	17	<u>901</u>
2	<u>902</u>	18	<u>891</u>
3	<u>903</u>	19	<u>901</u>
4	<u>902</u>	20	<u>901</u>
5	<u>902</u>	21	<u>901</u>
6	<u>903</u>	22	<u>901</u>
7	<u>902</u>	23	<u>902</u>
8	<u>903</u>	24	<u>902</u>
9	<u>902</u>	25	<u>903</u>
10	<u>902</u>	26	<u>903</u>
11	<u>902</u>	27	<u>903</u>
12	<u>902</u>	28	<u>903</u>
13	<u>902</u>	29	<u>903</u>
14	<u>902</u>	30	<u>886</u>
15	<u>903</u>	31	<u>897</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 number.

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-339

Report Month October Unit Name: NA-2

Year: 1992 Date: Nov. 9, 1992

Contact: G. E. Kane

\*No entry this month.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-339  
 UNIT NAME: NA-2  
 DATE: No 9, 1992  
 CONTACT: W. E. Kane  
 PHONE: (703) 894-2101

REPORT MONTH: Oct. 1992

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

# NORTH ANNA POWER STATION

UNIT NO.: 2  
MONTH: October

## 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>
October 01, 1992	0000	Began month with unit at 100% power, 948 MWe.
	18, 1992 0902	Commence rampdown to 91% power for TVFT.
	0940	Unit stable at 91% power, 873 MWe.
	1210	Commenced ramp to 100% following satisfactory completion of TVFr.
	1350	Unit stable at 100%, 948 MWe.
30, 1992	0825	Commenced rampdown to 95% for "B" water box maintenance.
	0856	Unit stable at 95% power, 905 MWe.
	1507	Commenced ramp to full power with water box still isolated.
	1608	Unit stable at 99%, 943 MWe.
31, 1992	1828	Returned "B" water box to service restoring unit to 100%, 950 MWe.
	2045	Removed "D" water box from service for maintenance. Output decreased to 99%, 943 MWe.
	2400	Ended month with unit at 100%, 944 MWe.