

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

August 7, 1995

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

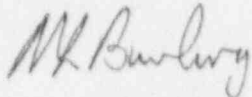
Serial No. 95-402  
NL&P/JHL/CMC  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

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

Enclosed is the July 1995 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,



M. L. Bowling, Manager  
Nuclear-Licensing and Programs

Enclosure

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

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

9508100182 950731  
PDR ADOCK 05000338  
R PDR

IE2A  
1/1

VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: July YEAR: 1995

Approved:

  
Station Manager

JRH

# OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: August 5, 1995  
 CONTACT: J. A. Stall  
 PHONE: (703) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....July 1995
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 in Capacity Ratings (Items No. 3 thru 7) since last report, give reasons: \_\_\_\_\_  
 Maximum Dependable Capacity ratings for both Gross and Net values revised following replacement of steam generators. \_\_\_\_\_

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	5,087.0	149,963.0
12. Number of Hours Reactor was Critical.....	744.0	5,065.6	113,513.4
13. Reactor Reserve Shutdown Hours.....	0.0	20.9	6,951.4
14. Hours Generator On-Line.....	744.0	5,060.8	110,514.5
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,151,014.9	14,572,283.5	294,757,863.4
17. Gross Electrical Energy Generated (MWH).....	703,392.0	4,789,669.0	96,865,289.0
18. Net Electrical Energy Generated (MWH).....	668,234.0	4,555,692.0	91,757,978.0
19. Unit Service Factor.....	100.0%	99.5%	73.7%
20. Unit Availability Factor.....	100.0%	99.5%	73.7%
21. Unit Capacity Factor (using MDC Net).....	100.6%	99.6%	68.5%
22. Unit Capacity Factor (using DER Net).....	99.0%	98.7%	67.5%
23. Forced Outage Rate.....	0.0%	0.5%	9.6%

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.: 50-338  
 Unit: NA-1  
 Date: August 5, 1995  
 Contact: J. A. Stall  
 Phone: (703) 894-2101

MONTH: July 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>886</u>
2	<u>905</u>
3	<u>905</u>
4	<u>905</u>
5	<u>904</u>
6	<u>904</u>
7	<u>903</u>
8	<u>904</u>
9	<u>901</u>
10	<u>901</u>
11	<u>900</u>
12	<u>900</u>
13	<u>900</u>
14	<u>898</u>
15	<u>900</u>
16	<u>899</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>898</u>
18	<u>898</u>
19	<u>897</u>
20	<u>896</u>
21	<u>895</u>
22	<u>897</u>
23	<u>897</u>
24	<u>896</u>
25	<u>896</u>
26	<u>896</u>
27	<u>896</u>
28	<u>881</u>
29	<u>895</u>
30	<u>895</u>
31	<u>894</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: July

## 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>
July 01, 1995	0000	Began month with unit at 100% power, 938 MWe.
July 28, 1995	0810	Commenced unit ramp-down from 100% power, 942 MWe for Turbine Valve Freedom Test.
	0915	Unit stable at 90% power, 855 MWe.
	1207	Commenced unit ramp-up from 90% power, 852 MWe following completion of Turbine Valve Freedom Test.
	1352	Unit stable at 100% power, 942 MWe.
July 31, 1995	2400	Ended month with unit at 100% power, 942 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month July Unit Name: NA-1

Year: 1995 Date: August 5, 1995

Contact: J. A. Stall

\* No entry this month.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: July 1995

DOCKET NO.: 50-338  
 UNIT NAME: NA-1  
 DATE: August 5, 1995  
 CONTACT: J. A. Stall  
 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	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



# OPERATING DATA REPORT

DOCKET NO.: 50-339  
 DATE: August 5, 1995  
 CONTACT: J. A. Stall  
 PHONE: (703) 894-2101

## OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....July 1995
3. Licensed Thermal Power (Mwt):..... 2893
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 in Capacity Ratings (Items No. 3 thru 7) since last report, give reasons: \_\_\_\_\_  
 Maximum Dependable Capacity ratings for both Gross and Net values revised following replacement of steam generators. \_\_\_\_\_

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	5,087.0	128,231.0
12. Number of Hours Reactor was Critical.....	744.0	3,476.7	106,410.2
13. Reactor Reserve Shutdown Hours.....	0.0	1.3	6,510.2
14. Hours Generator On-Line.....	744.0	3,444.9	105,280.6
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH) .....	2,141,933.9	8,866,672.0	285,482,636.0
17. Gross Electrical Energy Generated (MWH).....	703,892.0	2,897,429.0	93,374,286.0
18. Net Electrical Energy Generated (MWH).....	668,762.0	2,743,226.0	89,283,194.0
19. Unit Service Factor.....	100.0%	67.7%	82.1%
20. Unit Availability Factor.....	100.0%	67.7%	82.1%
21. Unit Capacity Factor (using MDC Net).....	100.2%	60.7%	77.4%
22. Unit Capacity Factor (using DER Net).....	99.1%	59.5%	76.8%
23. Forced Outage Rate.....	0.0%	0.0%	5.0%

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: August 5, 1995  
 Contact: J. A. Stall  
 Phone: (703) 894-2101

MONTH: July 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
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1	906
2	907
3	907
4	905
5	905
6	904
7	839
8	818
9	906
10	906
11	906
12	906
13	905
14	904
15	904
16	904

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
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17	903
18	902
19	903
20	902
21	903
22	903
23	903
24	902
25	902
26	902
27	902
28	902
29	902
30	902
31	901

## 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: July

## SUMMARY OF OPERATING EXPERIENCE

Page 1 of 2

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>
July 01, 1995	0000	Began month with unit stable at 100% power, 954 MWe.
July 07, 1995	0715	Commenced unit ramp-down from 100% power, 948 MWe for Turbine Valve Freedom Test and condenser waterbox maintenance.
	0815	Unit stable at 90% power, 865 MWe.
	0910	Turbine Valve Freedom Test completed satisfactory. Began removing "B" condenser waterbox from service.
July 08, 1995	0335	"B" waterbox returned to service after plugging one leaking tube. Began removing "C" waterbox from service.
	0430	Condenser vacuum began a slow decrease when removing "C" waterbox from service.
	0520	Unit stable at 88.5% power, 836 MWe.
	1700	"C" waterbox repairs complete after plugging one leaking tube.
	1804	"C" waterbox returned to service.
	1813	Commenced power increase to 100% power.
	1841	Holding power at 97% power, 917 MWe for shift turnover.
	1922	Commenced power increase to 98% for calorimetric calibration of nuclear instrumentation.
	1930	Unit stable at 97.6% power, 925 MWe.
	2025	Commenced power increase to 100% power after calorimetric calibration of nuclear instrumentation.
	2052	Stopped ramp at 99.5% power, 940 MWe while investigating noise from generator bus duct cooling fan.

SUMMARY OF OPERATING EXPERIENCE

Page 2 of 2

<u>Date</u>	<u>Time</u>	<u>Data</u>
July 08, 1995	2304	Commenced unit ramp-up after investigating bus duct cooling fan.
July 09, 1995	0053	Unit stable at 100% power, 950 MWe.
July 31, 1995	2400	Ended month with unit stable at 100% power, 950 Mwe.

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-339

Report Month July Unit Name: NA-2

Year: 1995 Date: August 5, 1995

Contact: J. A. Stall

\* No entry this month.

REPORT MONTH: July 1995

DOCKET NO.: 50-339  
UNIT NAME: NA-2  
DATE: August 5, 1995  
CONTACT: J. A. Stall  
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
-----	------	-----------	------------------------	--------	--	-------------------------------	---------------------	------------------------	---

\* No Entry This Month

1: Type	2: Reason	3: Method	4:
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	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