

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 8, 1995

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

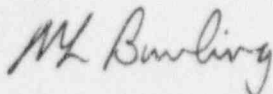
Serial No. 95-626
NL&OS/JHL/CMC
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

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

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

Very truly yours,



M. L. Bowling, Manager
Nuclear-Licensing and Operations Support

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

14000

9512140001 951130
PDR ADOCK 0500033B
R PDR

JE24

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: November YEAR: 1995

Approved:



Station Manager

857

OPERATING DATA REPORT

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

OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....November 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: 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	8,016.0	152,892.0
12. Number of Hours Reactor was Critical.....	720.0	7,994.6	116,442.4
13. Reactor Reserve Shutdown Hours.....	0.0	20.9	6,951.4
14. Hours Generator On-Line.....	720.0	7,989.8	113,443.5
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,082,910.7	23,043,175.1	303,228,755.0
17. Gross Electrical Energy Generated (MWH).....	681,454.0	7,560,281.0	99,635,901.0
18. Net Electrical Energy Generated (MWH).....	648,739.0	7,189,904.0	94,392,190.0
19. Unit Service Factor.....	100.0%	99.7%	74.2%
20. Unit Availability Factor.....	100.0%	99.7%	74.2%
21. Unit Capacity Factor (using MDC Net).....	100.9%	100.0%	69.1%
22. Unit Capacity Factor (using DER Net).....	99.3%	98.9%	68.1%
23. Forced Outage Rate.....	0.0%	0.3%	9.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling Outage Scheduled for February 10, 1996, Duration 29 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

Basket No.: 50-338
 Unit: NA-1
 Date: December 5, 1995
 Contact: J. A. Stall
 Phone: (703) 894-2101

MONTH: November 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>902</u>	17	<u>901</u>
2	<u>902</u>	18	<u>902</u>
3	<u>902</u>	19	<u>902</u>
4	<u>902</u>	20	<u>901</u>
5	<u>902</u>	21	<u>902</u>
6	<u>900</u>	22	<u>901</u>
7	<u>900</u>	23	<u>901</u>
8	<u>900</u>	24	<u>901</u>
9	<u>899</u>	25	<u>901</u>
10	<u>900</u>	26	<u>901</u>
11	<u>900</u>	27	<u>902</u>
12	<u>900</u>	28	<u>902</u>
13	<u>900</u>	29	<u>902</u>
14	<u>901</u>	30	<u>901</u>
15	<u>901</u>		
16	<u>901</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: 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, 1995	0000	Began month with unit at 100% power, 947 MWe.
November 30, 1995	2400	Ended month with unit at 100% power, 946 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month November Unit Name: NA-1

Year: 1995 Date: December 5, 1995

Contact: J. A. Stall

* No entry this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-338
 UNIT NAME: NA-1
 DATE: December 5, 1995
 CONTACT: J. A. Stall
 PHONE: (703) 894-2101

REPORT MONTH: November 1995

No.	Date	1 Type	Duration (hrs)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	Component Code	5 Cause & Corrective Action to Prevent Recurrence
-----	------	-----------	-------------------	-------------	--	-------------------------------	---------------------	-------------------	--

* No Entry This Month

1: Type	2: Reason	3: Method	4:
F=Forced	A=Equipment Failure (explain)	1=Manual	Exhibit F - Instructions for preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)
S=Scheduled	B=Maintenance or Test	2=Manual Scram	
	C=Refueling	3=Automatic Scram	
	D=Regulatory Restriction	4=Continuations	
	E=Operator Training & License Examination	5=Load Reduction	
	F=Administrative	9=Other	5:
	G=Operational Error		Exhibit H - Same Source
	H=Other (explain)		

OPERATING DATA REPORT

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

OPERATING STATUS

- 1. Unit Name:.....North Anna 2
- 2. Reporting Period:.....November 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: 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	8,016.0	131,160.0
12. Number of Hours Reactor was Critical.....	694.4	6,380.1	109,313.6
13. Reactor Reserve Shutdown Hours.....	24.8	26.1	6,535.0
14. Hours Generator On-Line.....	689.5	6,343.4	108,179.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,973,983.4	17,210,323.5	293,826,287.5
17. Gross Electrical Energy Generated (MWH).....	650,804.0	5,644,566.0	96,121,423.0
18. Net Electrical Energy Generated (MWH).....	619,451.0	5,355,332.0	91,895,300.0
19. Unit Service Factor.....	95.8%	79.1%	82.5%
20. Unit Availability Factor.....	95.8%	79.1%	82.5%
21. Unit Capacity Factor (using MDC Net).....	95.9%	74.9%	77.9%
22. Unit Capacity Factor (using DER Net).....	94.9%	73.7%	77.2%
23. Forced Outage Rate.....	4.2%	0.5%	4.9%

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

MONTH: November 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>911</u>	17	<u>910</u>
2	<u>911</u>	18	<u>909</u>
3	<u>909</u>	19	<u>910</u>
4	<u>890</u>	20	<u>911</u>
5	<u>889</u>	21	<u>911</u>
6	<u>909</u>	22	<u>911</u>
7	<u>912</u>	23	<u>911</u>
8	<u>912</u>	24	<u>911</u>
9	<u>911</u>	25	<u>911</u>
10	<u>902</u>	26	<u>911</u>
11	<u>466</u>	27	<u>910</u>
12	<u>22</u>	28	<u>911</u>
13	<u>783</u>	29	<u>911</u>
14	<u>911</u>	30	<u>911</u>
15	<u>911</u>		
16	<u>912</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.: 2
 MONTH: November

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>
November 01, 1995	0000	Began month with unit stable at 100% power, 959 MWe.
November 10, 1995	0905	Commenced unit ramp-down for Turbine Valve Freedom Test. Unit at 100% power, 951 MWe.
	0938	Unit stable at 90% power, 860 MWe.
	1115	Commenced unit ramp-up following Turbine Valve Freedom Test. Unit at 90% power, 860 MWe.
	1230	Unit stable at 100% power, 954 MWe.
November 11, 1995	1215	Unit trip on Power Range High Negative Flux Rate due to failure of 2-ED-MG-1B with 2-ED-MG-1A tagged for maintenance. Unit in Mode 3.
November 12, 1995	1112	Commenced reactor startup following repairs to 2-ED-MG-1A and 2-ED-MG-1B.
	1300	Unit entered Mode 2.
	1354	Reactor critical.
	1447	Unit entered Mode 1.
	1853	Unit placed on-line.
November 13, 1995	0020	Discontinued unit ramp-up at 30% power, 235 MWe for calorimetric calibration of nuclear instrumentation and chemistry cleanup.
	0041	Unit cleared chemistry hold. Commenced unit ramp-up. Unit at 30% power, 235 MWe.
	0145	Unit stable at 48% power, 418 MWe. Secured ramp-up to allow starting of a second Main Feed Pump.
	0322	Commenced unit ramp-up. Unit at 48% power, 418 MWe.
	0431	Unit stable at 75% power, 710 MWe. Secured unit ramp-up to place MSR reheat in service.

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: November

SUMMARY OF OPERATING EXPERIENCE

Page 2 of 2

November 13, 1995	0512	Commenced unit ramp-up. Unit at 75% power, 710 MWe.
	0530	Unit stable at 85% power, 825 MWe to perform calorimetric calibration of nuclear instrumentation.
	0535	Commenced unit ramp-up. Unit at 85% power, 825 MWe.
	0643	Unit stable at 91% power, 875 MWe to start Low Pressure Heater Drain Pumps.
	0910	Commenced unit ramp-up. Unit at 91% power, 875 MWe.
	1045	Unit stable at 100% power, 950 MWe.
November 30, 1995	2400	Ended month with unit stable at 100% power, 956 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-339

Report Month November Unit Name: NA-2

Year: 1995 Date: December 5, 1995

Contact: J. A. Stall

#95-01

November 11, 1995

Automatic reactor trip due to Power Range High Negative Flux Rate caused by failure of 2-ED-MG-1B while 2-ED-MG-1A tagged for maintenance at 1215 hours.

November 12, 1995

Corrective maintenance complete and unit entered Mode 2 at 1300 hours. Unit entered Mode 1 at 1447 hours. Main Generator on-line at 1853 hours.

REPORT MONTH: November 1995

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE: December 5, 1995
CONTACT: J. A. Stall
PHONE: (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
95-01	951111	F	30.5	A	3	95-004-00	AA	MG	Automatic reactor trip due to Loss of "B" Control Rod Drive System Motor Generator Set.

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