

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

March 12, 1991

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

Serial No. 91-139
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 February 1991.

Very truly yours,



W. L. Stewart
Senior Vice President - Nuclear

Enclosures

cc. U.S. Nuclear Regulatory Commission
101 Marietta Street, NW
Suite 2900
Atlanta, GA 30329

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: February YEAR: 1991

Approved:

W. J. ...
Station Manager 0

DOCKET NO.: 50-338
DATE: March 5, 1991
COMPLETED BY: C. Mladen
PHONE: (703) 894-2537

OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....February 1991
3. Licensed Thermal Power (Mwt):..... 2,893
4. Nameplate Rating (Gross MWe):..... 947
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 959
7. Maximum Dependable Capacity (Net MWe):.... 911

8. If charges 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.....	672.0	1,416.0	111,228.0
12. Number of Hours Reactor was Critical.....	0.0	264.9	80,255.8
13. Reactor Reserve Shutdown Hours.....	0.0	4.5	6,608.1
14. Hours Generator On-Line.....	0.0	264.9	77,484.9
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	0.0	330,095.7	205,316,331.7
17. Gross Electrical Energy Generated (MWH).....	0.0	106,174.0	67,447,512.0
18. Net Electrical Energy Generated (MWH).....	0.0	96,374.0	63,825,126.0
19. Unit Service Factor.....	0.0%	18.7%	69.7%
20. Unit Availability Factor.....	0.0%	18.7%	69.7%
21. Unit Capacity Factor (using MDC Net).....	0.0%	7.5%	64.1%
22. Unit Capacity Factor (using DER Net).....	0.0%	7.5%	63.3%
23. Forced Outage Rate.....	0.0	0.0%	12.5%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): _____
_____ *60 day Refueling Outage commenced 1/12/91 _____

25. If Shutdown at end of Report Period, estimated time of Startup: _____ March 11, 1991 _____
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: March 5, 1991
 Completed by: C. Mladen
 Phone: (703) 894-2537

MONTH: February 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL 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>		
14	<u>0</u>		
15	<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: February 1991

DOCKET NO.: 50-338
UNIT NAME: NA-1
DATE: March 5, 1991
COMPLETED BY: C. Mladen
PHONE: (703) 894-2537

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
91-01	910112	S	672	C	4	N/A	N/A	N/A	S/G Maintenance planned

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

UNIT SHUTDOWN AND POWER REDUCTION
Explanation Sheet

Docket No.: 50-338

Report Month February Unit Name: NA-1

Year: 1991 Date: March 5, 1991

Completed by: Cathie Mladen

#91-1

January 12, 1991

Main Generator taken off-line at 0050 hours. Unit entered Mode 3 at 0123 hours. Unit entered Mode 4 at 1210 hours.

January 13, 1991

Entered Mode 5 at 0550 for Refueling Outage.

January 21, 1991

Entered Mode 6 at 0435.

February 14, 1991

Entered Mode 5 at 1200.

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: February

SUMMARY OF OPERATING EXPERIENCE

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>
February 1, 1991	0000	Began month with unit in Mode 6.
February 14, 1991	1200	Entered Mode 5.
February 28, 1991	2400	Ended month with unit in Mode 5.

DOCKET NO.: 50-339
 DATE: March 5, 1991
 COMPLETED BY: C. Mladen
 PHONE: (703) 894-2537

OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....February 1991
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):.. 57
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.....	672.0	1,416.0	89,496.0
12. Number of Hours Reactor Was Critical.....	672.0	1,416.0	72,550.3
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	5,949.6
14. Hours Generator On-Line.....	672.0	1,416.0	71,650.3
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	1,944,012.7	4,095,772.9	191,344,886.3
17. Gross Electrical Energy Generated (MWH).....	645,820.0	1,361,105.0	62,663,691.0
18. Net Electrical Energy Generated (MWH).....	614,726.0	1,296,021.0	60,111,501.0
19. Unit Service Factor.....	100.0%	100.0%	80.1%
20. Unit Availability Factor.....	100.0%	100.0%	80.1%
21. Unit Capacity Factor (using MDC Net).....	100.6%	100.7%	74.7%
22. Unit Capacity Factor (using DER Net).....	100.9%	100.9%	74.1%
23. Forced Outage Rate.....	0.0%	0.0%	6.3%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): _____ NONE _____

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: March 5, 1991
 Completed by: C. Mladen
 Phone: (703) 894-2537

MONTH: February 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	916	17	913
2	916	18	914
3	916	19	915
4	916	20	916
5	916	21	916
6	916	22	915
7	916	23	915
8	915	24	917
9	904	25	915
10	915	26	915
11	915	27	915
12	915	28	916
13	915		
14	915		
15	914		
16	913		

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: February 1991

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE: March 5, 1991
COMPLETED BY: C. Mladen
PHONE: (703) 894-2537

No.	Date	1 Type	2 Duration (hrs)	3 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 February Unit Name: NA-2

Year: 1991 Date: March 5, 1991

Completed by: Cathie Mladen

*No entry this month

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: February

SUMMARY OF OPERATING EXPERIENCE

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>
February 1, 1991	0000	Ended month with unit at 100%, 963 MWe.
February 9, 1991	0939	Commenced unit ramp down for TVFT.
	1023	Unit stable at 885 MWe.
	1125	TVFT completed satisfactorily.
	1130	Commenced unit ramp up to 100%.
	1245	Unit stable at 100%.
February 28, 1991	2400	Ended month with unit at 100%, 963 MWe.