

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 15, 1991

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

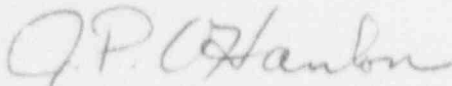
Serial No. 91-278
NL&P/JMJ:jmj
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

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 April 1991.

Very truly yours,



for W. L. Stewart
Senior Vice President - Nuclear

Enclosures

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

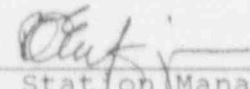

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VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: April YEAR: 1991

Approved:


Station Manager 

OPERATING DATA REPORT

DOCKET NO.: 50-338
 DOCKET NO.: 50-338
 DATE: May 1, 1991
 COMPLETED BY: C. Mladen
 PHONE: (703) 894-2774

OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....April 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 changes occur in Capacity Ratings (Items No. 3 thru 7) since last report, give reasons: _____

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.....	719.0	2,879.0	112,691.0
12. Number of Hours Reactor was Critical.....	719.0	1,561.6	81,552.5
13. Reactor Reserve Shutdown Hours.....	0.0	21.6	6,625.2
14. Hours Generator On-Line.....	719.0	1,530.9	78,750.9
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,071,896.5	3,797,512.8	208,783,748.8
17. Gross Electrical Energy Generated (MWH).....	689,082.0	1,256,866.0	68,598,204.0
18. Net Electrical Energy Generated (MWH).....	657,104.0	1,191,019.0	64,919,771.0
19. Unit Service Factor.....	100.0%	53.2%	69.9%
20. Unit Availability Factor.....	100.0%	53.2%	69.9%
21. Unit Capacity Factor (using MDC Net).....	100.3%	45.4%	64.4%
22. Unit Capacity Factor (using DER Net).....	100.8%	45.6%	63.5%
23. Forced Outage Rate.....	0.0	0.0%	12.3%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): _____

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: May 1, 1991
 Completed by: C. Mladen
 Phone: (703) 894-2774

MONTH: April 1991

DAY AVERAGE DAILY POWER
LEVEL (MWe-Net)

1	<u>911</u>
2	<u>911</u>
3	<u>911</u>
4	<u>912</u>
5	<u>913</u>
6	<u>914</u>
7	<u>912</u>
8	<u>915</u>
9	<u>916</u>
10	<u>916</u>
11	<u>915</u>
12	<u>902</u>
13	<u>911</u>
14	<u>911</u>
15	<u>910</u>
16	<u>915</u>

DAY AVERAGE DAILY LEVEL
LEVEL (MWe-Net)

17	<u>918</u>
18	<u>917</u>
19	<u>916</u>
20	<u>916</u>
21	<u>916</u>
22	<u>916</u>
23	<u>915</u>
24	<u>915</u>
25	<u>915</u>
26	<u>916</u>
27	<u>916</u>
28	<u>917</u>
29	<u>913</u>
30	<u>917</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

DOCKET NO.: 50-338
 UNIT NAME: NA-1
 DATE: May 1, 1991
 COMPLETED BY: C. Mladen
 PHONE: (703) 894-2774

REPORT MONTH: April 1991

No.	Date	1 Type	2 Duration Reason (hrs)	3 Method of Shutting Down Reactor	4 Licensee Event Report #	5 System Code	6 Component Code	7 Cause & Corrective Action to Prevent Recurrence

*No entry this month

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
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UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month April Unit Name: NA-1

Year: 1991 Date: May 1, 1991

Completed by: Cathie Mladen

*No entry this month

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: April

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>
April 01, 1991	0000	Began month with unit at 99.4%, 959MWe with turbine governor valve #4 full open.
April 12, 1991	0910	Commenced unit ramp down for TVFT.
	1028	Unit stable at 88.5%.
	1135	TVFT completed satisfactorily.
	1140	Commenced unit ramp up.
	1350	Unit stable at 99.5%.
April 16, 1991	0940	Commenced performance of special test procedure 1-ST-93. Purpose of the procedure is to allow reactor power to reach 100% and increase electrical output by bypassing a portion of the feedwater flow to the first point feedwater heaters.
	1300	Completed manipulation of the first point feedwater heater bypass valves per 1-ST-93. The bypass valves are approximately 33-38% open. Unit stable at 100%.
April 30, 1991	2400	Ended month with unit at 100%, 960MWe.

OPERATING DATA REPORT

DOCKET NO.: 50-339
 DATE: May 1, 1991
 COMPLETED BY: C. Mladen
 PHONE: (703) 894-2774

OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....April 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):...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.....	719.0	2,879.0	90,959.0
12. Number of Hours Reactor was Critical.....	719.0	2,879.0	74,013.3
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	5,949.6
14. Hours Generator On-Line.....	719.0	2,879.0	73,113.3
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,079,289.4	8,326,697.6	195,575,811.0
17. Gross Electrical Energy Generated (MWH).....	690,195.0	2,766,500.0	64,069,086.0
18. Net Electrical Energy Generated (MWH).....	657,860.0	2,635,658.0	61,451,138.0
19. Unit Service Factor.....	100.0%	100.0%	80.4%
20. Unit Availability Factor.....	100.0%	100.0%	80.4%
21. Unit Capacity Factor (using MDC Net).....	100.7%	100.7%	75.1%
22. Unit Capacity Factor (using DER Net).....	100.9%	100.9%	74.5%
23. Forced Outage Rate.....	0.0%	0.0%	6.1%

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: May 1, 1991
Completed by: C. Mladen
Phone: (703) 894-2774

MONTH: April 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	916	17	914
2	916	18	915
3	915	19	914
4	916	20	914
5	902	21	914
6	904	22	915
7	915	23	916
8	918	24	915
9	919	25	915
10	920	26	916
11	920	27	915
12	918	28	914
13	917	29	913
14	916	30	913
15	917		
16	915		

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: April 1991

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE: May 1, 1991
COMPLETED BY: C. Mladen
PHONE: (703) 894-2774

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
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 REDUCTIONS
Explanation Sheet

Docket No.: 50-339

Report Month April Unit Name: NA-2

Year: 1991 Date: May 1, 1991

Completed by: Cathie Mladen

*No entry this month

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: April

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>
April 01, 1991	0000	Began month with unit at 100%, 963MWe.
April 05, 1991	0854	Commenced unit ramp down for TVFT.
	0934	Unit stable at 877MWe.
	1130	TVFT completed satisfactorily.
	1200	Commenced unit ramp up to 98% for 2-PT-24.1, NI calibration.
	1224	Unit stable at 98%.
	1244	Completed 2-PT-24.1 and commenced unit ramp up to 100%.
	1259	Unit stable at 100%.
	2202	1B feedwater heater on divert to condenser in preparation for securing B high pressure heater drain pump for maintenance.
	2214	Secured B high pressure heater drain pump.
April 06, 1991	1321	Returned B high pressure heater drain pump to service.
April 30, 1991	2400	Ended month with unit at 100%, 960MWe.