

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

February 14, 1991

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

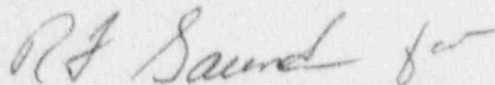
Serial No. 91-078  
NL&P/JMJ:jmj  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

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 January 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 30323

Mr. M. S. Lesser  
NRC Senior Resident Inspector  
North Anna Power Station

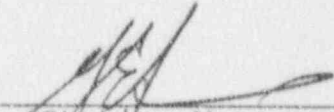
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VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: January      YEAR: 1991

Approved:

  
\_\_\_\_\_  
Station Manager      ♀



AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338  
 Unit: NA-1  
 Date: February 4, '91  
 Completed by: C. Mladen  
 Phone: (703) 894-2537

MONTH: January 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	<u>382</u>	17	<u>0</u>
2	<u>380</u>	18	<u>0</u>
3	<u>379</u>	19	<u>0</u>
4	<u>378</u>	20	<u>0</u>
5	<u>376</u>	21	<u>0</u>
6	<u>365</u>	22	<u>0</u>
7	<u>349</u>	23	<u>0</u>
8	<u>353</u>	24	<u>0</u>
9	<u>353</u>	25	<u>0</u>
10	<u>353</u>	26	<u>0</u>
11	<u>345</u>	27	<u>0</u>
12	<u>2</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<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: January 1991

DOCKET NO.: 50-338  
 UNIT NAME: NA-1  
 DATE: January 3, 1991  
 COMPLETED BY: C. Mladen  
 PHONE: (703) 894-2537

No.	Date	Type <sup>1</sup>	Duration (hrs)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
91-01	910112	S	479.2	C	1	N/A	N/A	N/A	S/G Maintenance scheduled during upcoming outage

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

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)

UNIT SHUTDOWN AND POWER REDUCTIONS  
Explanation Sheet

Docket No.: 50-338

Report Month January Unit Name: NA-1

Year: 1991 Date: February 4, '91

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.

NORTH ANNA POWER STATION

UNIT NO.: 1  
MONTH: January

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>
January 01, 1991	0000	Began month with unit at 45%, 415MW, in coastdown for refueling. 2B, 3B, and 4B feedwater heaters are out of service due to tube leaks in 3B feedwater.
January 12, 1991	0050	Main Generator taken off-line.
	0123	Entered Mode 3.
	1210	Entered Mode 4.
January 13, 1991	0550	Entered Mode 5 for Refueling Outage.
January 21, 1991	0435	Entered Mode 6.
January 31, 1991	2400	Ended month with unit in Mode 6.

DOCKET NO.: 50-339  
 DATE: February 4, 91  
 COMPLETED BY: C. Mladen  
 PHONE: (703) 894-2537

OPERATING STATUS

1. Unit Name:.....North Anna 2  
 2. Reporting Period:.....January 1991

OPERATING DATA REPORT

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: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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	744.0	88,824.0
12. Number of Hours Reactor was Critical.....	744.0	744.0	71,878.3
13. Reactor Reserve Shutdown Hours.....	0.0	0.0	5,949.6
14. Hours Generator On-Line.....	744.0	744.0	70,978.3
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	2,151,760.2	2,151,760.2	189,400,873.6
17. Gross Electrical Energy Generated (MWH).....	715,285.0	715,285.0	62,017,871.0
18. Net Electrical Energy Generated (MWH).....	681,295.0	681,295.0	59,496,775.0
19. Unit Service Factor.....	100.0%	100.0%	79.9%
20. Unit Availability Factor.....	100.0%	100.0%	79.9%
21. Unit Capacity Factor (using MDC Net).....	100.7%	100.7%	74.5%
22. Unit Capacity Factor (using DER Net).....	101.0%	101.0%	73.9%
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: February 4, '91  
 Completed by: C. Mladen  
 Phone: (703) 894-2537

MONTH: January 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	<u>917</u>	17	<u>916</u>
2	<u>917</u>	18	<u>916</u>
3	<u>917</u>	19	<u>916</u>
4	<u>906</u>	20	<u>916</u>
5	<u>917</u>	21	<u>916</u>
6	<u>917</u>	22	<u>915</u>
7	<u>915</u>	23	<u>915</u>
8	<u>916</u>	24	<u>915</u>
9	<u>916</u>	25	<u>916</u>
10	<u>916</u>	26	<u>916</u>
11	<u>915</u>	27	<u>916</u>
12	<u>916</u>	28	<u>916</u>
13	<u>916</u>	29	<u>916</u>
14	<u>917</u>	30	<u>916</u>
15	<u>916</u>	31	<u>916</u>
16	<u>916</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.: 50-339  
 UNIT NAME: NA-2  
 DATE: February 4, 1991  
 COMPLETED BY: C. Mladen  
 PHONE: (703) 894-2537

REPORT MONTH: January 1991

No.	Date	Type <sup>1</sup>	Duration (hrs)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	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 January Unit Name: NA-2

Year: 1991 Date: February 4, 91

Completed by: Cathie Mladen

\*No entry this month

NORTH ANNA POWER STATION

UNIT NO.: 2  
 MONTH: January

SUMMARY OF OPERATING EXPERIENCE

Listed below in chronological sequence is a summary of operating experiences for this month which required corrective actions or resulted in significant non-load related incidents.

<u>Date</u>	<u>Time</u>	<u>Data</u>
January 01, 1991	0000	Began month with unit at 100%, 957MWe.
January 04, 1991	0918	Commenced unit ramp down to 885 MWe for TVFT.
	1127	Completed 2-PT-34.3, TVFT.
	1210	Unit at 97.5% power awaiting return of 2-SD-P-2A, low pressure heater drain pump, from maintenance activities.
	1505	Commenced ramp up to 100% power.
	1524	Unit stabilized at 100% power.
January 31, 1991	2400	Ended month with unit at 100%, 963 MWe.