

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH AUGUST YEAR 1984

APPROVED:

  
STATION MANAGER

8410120239 840831  
PDR ADOCK 05000338  
R PDR

IE24  
1/1

## OPERATING DATA REPORT

DOCKET NO. 50-338  
 DATE 09-05-84  
 COMPLETED BY Joan N. Lee  
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: August, 1984
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 937
7. Maximum Dependable Capacity (Net MWe): 890
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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,855	54,296
12. Number of Hours Reactor Was Critical	0	2,467.6	36,054.1
13. Reactor Reserve Shutdown Hours	0	7.1	3,028.6
14. Hours Generator On-Line	0	2,443.9	35,105.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	6,596,736	91,648,509
17. Gross Electrical Energy Generated (MWH)	0	2,238,267	29,622,454
18. Net Electrical Energy Generated (MWH)	0	2,126,605	27,957,779
19. Unit Service Factor	0	41.7	64.6
20. Unit Availability Factor	0	41.7	64.6
21. Unit Capacity Factor (Using MDC Net)	0	40.8	57.8
22. Unit Capacity Factor (Using DER Net)	0	40.0	56.7
23. Unit Forced Outage Rate	0	23.0	11.8
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Unit 1 Scheduled fall maintenance, 11-23-84 - Scheduled 10 days.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: September 19, 1984
26. Units In Test Status (Prior to Commercial Operation):

Forecast                      Achieved

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

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## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338UNIT NA-1DATE 09-05-84COMPLETED BY Joan N. LeeTELEPHONE 703-894-5151X2527MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER 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>	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.

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## UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET      DOCKET NO. 50-338REPORT MONTH August      UNIT NAME NA-1YEAR 1984      DATE 09-05-84COMPLETED BY Joan Lee

No entries this month.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338  
 UNIT NAME North Anna 1  
 DATE 09-05-84  
 COMPLETED BY Joan Lee  
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH August, 1984

No.	Date	Type <sup>1</sup>	Duration (Hours)	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
84-14	840511	S	744	C	1	NA	NA	NA	Refueling outage continued through the month.

1  
 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 (Explain)  
 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



VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATIONUNIT NO. 1MONTH AugustSUMMARY 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>
August 1, 1984	0000	Began this month with Unit 1 in Mode 5.
August 31, 1984	2400	Ended this month with Unit 1 in Mode 5. Estimated start-up date for Unit 1 is September 19, 1984.

## OPERATING DATA REPORT

DOCKET NO. 50-339  
 DATE 09-05-84  
 COMPLETED BY Joan N. Lee  
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: August, 1984
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 939
7. Maximum Dependable Capacity (Net MWe): 890
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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,855	32,567
12. Number of Hours Reactor Was Critical	47.8	4,821.8	24,468.7
13. Reactor Reserve Shutdown Hours	0	14.6	3,794.6
14. Hours Generator On-Line	47.8	4713	24,220.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	122,483	12,215,461	62,632,502
17. Gross Electrical Energy Generated (MWH)	40,335	4,026,505	20,740,872
18. Net Electrical Energy Generated (MWH)	38,076	3,812,307	19,664,389
19. Unit Service Factor	6.4	80.5	74.3
20. Unit Availability Factor	6.4	80.5	74.3
21. Unit Capacity Factor (Using MDC Net)	5.7	73.1	67.8
22. Unit Capacity Factor (Using DER Net)	5.6	71.7	66.5
23. Unit Forced Outage Rate	0	3.1	15.2
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Unit 2 Scheduled spring maintenance is May 24, 1985 10 days.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: October 23, 1984
26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

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## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339UNIT NA-2DATE 09-05-84COMPLETED BY Joan N. LeeTELEPHONE 703-894-5151X2527MONTH AugustDAY      AVERAGE DAILY POWER LEVEL  
            (MWe-Net)

1	<u>855</u>
2	<u>732</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY      AVERAGE DAILY POWER LEVEL  
            (MWe-Net)

17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<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.



Page 1 of 1

## UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET      DOCKET NO. 50-339REPORT MONTH August      UNIT NAME NA-2YEAR 1984      DATE 09-05-84COMPLETED BY Joan Lee

84-34

- (1) On August 2, 1984 at 1834 Unit 2 commenced ramping down due to unqualified protective coating on Containment Ventilation Ductwork. By 2309 on August 2, 1984 Unit 2 was off line. The corrective action taken was to install type 304 stainless steel wire mesh screen over the coated surfaces of the ductwork and supports. Unit 2 remained off line for scheduled refueling outage. Ended this month with Unit 2 in Mode 6.

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	09-05-84
COMPLETED BY	Joan Lee
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH August

No.	Date	Type <sup>1</sup>	Duration (Hours)	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
84-34	840802	S	696.2	D/C	1	LER-006	NA	NA	Unit 2 ramped down due to application of unqualified protective coating on Containment Ventilation Ductwork. Unit 2 remained off line for scheduled refueling outage. Ended this month with Unit 2 in Mode 6.

1 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 (Explain) 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

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATIONUNIT NO. 2MONTH AugustSUMMARY 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>
August 1, 1984	0000	Began this month with Unit at 100% power.
August 2, 1984	1834	Commenced rampdown of Unit 2 at 3% - 150 MW/ per hour. Unit 2 ramped down due to application of unqualified protective coatings on Containment Ventilation Ductwork.
	2309	Unit 2 off line. Unit 2 remained off line to begin Scheduled Refueling Outage.
August 31, 1984	2400	Ended this month with Unit 2 in Mode 6 for Scheduled Refueling Outage.

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

September 13, 1984

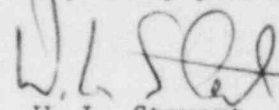
Mr. Maurice R. Beebe  
Office of Resource Management  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Serial No. 537  
NO/JHL:acm  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Dear Mr. Beebe:

Enclosed is the Monthly Operating Report for North Anna Power Station Unit Nos. 1 and 2 for the month of August, 1984.

Very truly yours,

  
W. L. Stewart

Enclosure (3 copies)

cc: Mr. R. C. DeYoung, Director (12 copies)  
Office of Inspection and Enforcement

Mr. James P. O'Reilly (1 copy)  
Regional Administrator  
Region II

Mr. M. W. Branch  
NRC Resident Inspector  
North Anna Power Station

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