

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH January YEAR 1988

APPROVED:


A _____
STATION MANAGER

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PDR ADOCK 05000338
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OPERATING DATA REPORT

DOCKET NO. 50-338
 DATE 02-01-88
 COMPLETED BY Brenda Garner
 TELEPHONE 703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: January 1988
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): 963
7. Maximum Dependable Capacity (Net MWe): 915
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	<u>744</u>	<u>744</u>	<u>84,252</u>
12. Number of Hours Reactor Was Critical	<u>256.2</u>	<u>256.2</u>	<u>58,456.1</u>
13. Reactor Reserve Shutdown Hours	<u>27.6</u>	<u>27.6</u>	<u>6,302.3</u>
14. Hours Generator On-Line	<u>172.7</u>	<u>172.7</u>	<u>55,924.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>497,018</u>	<u>497,018</u>	<u>146,669,673</u>
17. Gross Electrical Energy Generated (MWH)	<u>161,825</u>	<u>161,825</u>	<u>48,065,717</u>
18. Net Electrical Energy Generated (MWH)	<u>153,512</u>	<u>153,512</u>	<u>45,448,106</u>
19. Unit Service Factor	<u>23.2</u>	<u>23.2</u>	<u>66.4</u>
20. Unit Availability Factor	<u>23.2</u>	<u>23.2</u>	<u>66.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>22.6</u>	<u>22.6</u>	<u>55.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>22.7</u>	<u>22.7</u>	<u>59.5</u>
23. Unit Forced Outage Rate	<u>76.8</u>	<u>76.8</u>	<u>15.8</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: February 5, 1988
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	<u> </u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 02-01-88

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH January 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>917</u>	17	<u>0</u>
2	<u>916</u>	18	<u>0</u>
3	<u>916</u>	19	<u>0</u>
4	<u>855</u>	20	<u>0</u>
5	<u>799</u>	21	<u>0</u>
6	<u>898</u>	22	<u>0</u>
7	<u>920</u>	23	<u>0</u>
8	<u>177</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.

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-338
REPORT MONTH January UNIT NAME NA-1
YEAR 1988 DATE 02-01-88
COMPLETED BY Brenda Garner

- 88-01 1) January 8, 1988, at 0438 reactor manually tripped from 100% power - 968 MW, due to loss of circulating water pumps. Repairs were completed and Unit returned on line January 13, 1988 at 0307.
- 88-02 2) January 13, 1988 at 0313, reactor trip occurred at 100 MW - 15% power, due to Hi Hi level on "B" steam generator. Corrective action was taken and January 13, 1988 at 1125 reactor was taken critical. Approximately eight hours later, the reactor was manually shutdown due to resin intrusion in the steam generator. Ended the month with Unit in Mode 5, repairing the 1-RC-P-1A reactor coolant pump seal and flushing the steam generator after powdex resin intrusion. Approximately February 5, 1988, the Unit will return on line.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338
 UNIT NAME North Anna I
 DATE 02-01-88
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH January

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
88-01	880108	F	118.5	A	1	LER-NI-88-002	KE	P	Reactor manually tripped from 100% power, due to loss of circulating water pumps. Unit returned on line January 13, 1988 at 0307.
88-02	880113	F	452.8	H	3	LER-NI-88-005	JB	SG	Reactor trip occurred at 15% power, due to HI HI level on "B" steam generator. Reactor taken critical at 1125.
				A	1	LER-NI-88-004	KD	N/A	Approximately eight hours later at 1916 the reactor was manually shutdown due to resin intrusion in the steam generator. Ended the month with Unit in Mode 5. Approximately February 5, 1988 Unit will return on line.

1	2	3	4
F: Forced	Reason:	Method:	Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)
S: Scheduled	A-Equipment Failure (Explain)	1-Manual	
	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	
	G-Operational Error (Explain)		5
	H-Other (Explain)		Exhibit H - Same Source

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 1, 1988	0000	Began the month with the Unit at 968 MW - 100% power.
January 4, 1988	1103	Commenced rampdown of 100 MW, to perform work on "A" waterbox.
	1158	Unit holding at 868 MW - 89% power, to perform work on "A" waterbox.
January 6, 1988	0340	Commenced ramp up to 98% power, repairs completed on "A" waterbox.
	0445	Unit holding at 950 MW - 98% power, for 1-PT-24 calorimetric.
	0455	Commenced ramp up to 100% power, 1-PT-24 calorimetric completed.
	0518	Unit stabilized at 965 MW - 100% power.
January 8, 1988	0438	Reactor manually tripped from 100% power - 968 MW, due to loss of circulating water pumps.
January 9, 1988	2332	Reactor critical.

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 13, 1988	0307	Unit on line.
January 13, 1988	0313	Reactor trip occurred at 100 MW - 15% power, due to Hi Hi level on "B" steam generator.
	1125	Reactor critical.
	1916	Reactor manually shutdown, due to resin intrusion in the steam generator.
January 31, 1988	2400	Ended the month with Unit in Mode 5, repairing 1-RC-P-1A reactor coolant pump seal and flushing the steam generator after powdex resin intrusion. Approximately February 5, 1988, the Unit will return on line.

OPERATING DATA REPORT

DOCKET NO. 50-339
 DATE 02-01-88
 COMPLETED BY Brenda Garner
 TELEPHONE 703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 2
2. Reporting Period: January 1988
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): 963
7. Maximum Dependable Capacity (Net MWe): 915
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	<u>744</u>	<u>744</u>	<u>62,520</u>
12. Number of Hours Reactor Was Critical	<u>744</u>	<u>744</u>	<u>49,212.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>5,653</u>
14. Hours Generator On-Line	<u>744</u>	<u>744</u>	<u>48,400</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,151,711</u>	<u>2,151,711</u>	<u>126,470,492</u>
17. Gross Electrical Energy Generated (MWH)	<u>716,595</u>	<u>716,595</u>	<u>41,921,716</u>
18. Net Electrical Energy Generated (MWH)	<u>681,949</u>	<u>681,949</u>	<u>39,740,296</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>77.4</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>77.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.2</u>	<u>100.2</u>	<u>64.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>101.1</u>	<u>101.1</u>	<u>70.1</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>9.1</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____
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 02-01-88

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH January 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>919</u>	17	<u>918</u>
2	<u>917</u>	18	<u>918</u>
3	<u>910</u>	19	<u>917</u>
4	<u>919</u>	20	<u>917</u>
5	<u>919</u>	21	<u>917</u>
6	<u>920</u>	22	<u>917</u>
7	<u>920</u>	23	<u>917</u>
8	<u>919</u>	24	<u>916</u>
9	<u>919</u>	25	<u>915</u>
10	<u>918</u>	26	<u>914</u>
11	<u>919</u>	27	<u>915</u>
12	<u>919</u>	28	<u>913</u>
13	<u>917</u>	29	<u>912</u>
14	<u>917</u>	30	<u>911</u>
15	<u>918</u>	31	<u>911</u>
16	<u>918</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 SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-339

REPORT MONTH January UNIT NAME NA-2

YEAR 1988 DATE 02-01-88

COMPLETED BY Brenda Garner

No entry this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339
 UNIT NAME North Anna 1
 DATE 02-01-88
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH January

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

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

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 load reductions or resulted in significant non-load related incidents.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
January 1, 1988	0000	Began the month with the Unit at 961 MW - 100% power.
January 2, 1988	2325	Commenced rampdown of 100 MW, to perform Turbine Valve Freedom Test.
January 3, 1988	0011	Unit holding at 865 MW - 89% power, to perform Turbine Valve Freedom Test.
	0150	Commenced ramp up to 100% power, Turbine Valve Freedom Test completed.
	0220	Unit stabilized at 960 MW - 100% power.
January 31, 1988	2400	Ended the month with Unit at 958 MW 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

February 11, 1988

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

Serial No. 88-062
NO/DJV: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 1988.

Very truly yours,



W. L. Stewart

Enclosures

cc: U.S. Nuclear Regulatory Commission
101 Marietta Street, NW
Suite 2900
Atlanta, GA 30323

Mr. J. L. Caldwell
NRC Senior Resident Inspector
North Anna Power Station

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