

OPERATING DATA REPORT

DOCKET NO. 50-338
 DATE 04-02-85
 COMPLETED BY Joan N. Lee
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: March, 1985
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	2160	59,388
12. Number of Hours Reactor Was Critical	744	2160	40,531.7
13. Reactor Reserve Shutdown Hours	0	0	3,084.2
14. Hours Generator On-Line	744	2132.8	39,245.0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,830,174	5,623,285	102,487,947
17. Gross Electrical Energy Generated (MWH)	617,354	1,901,506	33,273,691
18. Net Electrical Energy Generated (MWH)	584,903	1,805,703	31,421,681
19. Unit Service Factor	100.0	98.7	66.1
20. Unit Availability Factor	100.0	98.7	66.1
21. Unit Capacity Factor (Using MDC Net)	88.3	93.9	59.4
22. Unit Capacity Factor (Using DER Net)	86.6	92.1	58.3
23. Unit Forced Outage Rate	0	1.2	12.8
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

8506070158 B50331
 PDR ADOCK 05000338
 R PDR

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 111

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 04-02-85

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH March, 1985

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>234</u>
2	<u>234</u>
3	<u>247</u>
4	<u>243</u>
5	<u>256</u>
6	<u>832</u>
7	<u>896</u>
8	<u>882</u>
9	<u>898</u>
10	<u>895</u>
11	<u>896</u>
12	<u>896</u>
13	<u>897</u>
14	<u>897</u>
15	<u>896</u>
16	<u>897</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>897</u>
18	<u>890</u>
19	<u>882</u>
20	<u>896</u>
21	<u>896</u>
22	<u>896</u>
23	<u>895</u>
24	<u>886</u>
25	<u>892</u>
26	<u>893</u>
27	<u>895</u>
28	<u>895</u>
29	<u>891</u>
30	<u>877</u>
31	<u>895</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 March UNIT NAME NA-1

YEAR 1985 DATE 04-02-85

COMPLETED BY Joan Lee

No entries this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-338
UNIT NAME	North Anna 1
DATE	04-02-85
COMPLETED BY	Joan Lee
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH March, 1985

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
85-07	850228	F		A	4	-	-	-	Continuation of 30% power hold due to secondary chemistry problems caused by condenser tube leaks
85-08	850301	S		B	5	-	-	-	Ramped down to 28% power for Turbine Valve Freedom test - Unit returned to 30% power.
85-09	850308	S		B	5	-	-	-	Ramped down to 80% power to replace Bus duct cooling fan belts. Unit returned to 100% power.
85-10	850329	S		B	5	-	-	-	Ramped down for Turbine Valve Freedom test. Unit returned to 100% power.

¹F: Forced
S: Scheduled²

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 POWER
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH March

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>
March 1, 1985	0000	Began this month with Unit at 30% power due to secondary chemistry problems caused by condenser Tube leaks.
	2340	Commenced ramp down to 196 MW 28% power for Turbine Valve Freedom test.
March 2, 1985	0020	Stabilized Unit at 195 MW 28% Power for Turbine Valve Freedom test.
	0052	Commenced Turbine Valve Freedom test.
	0120	Test complete. Holding power at 28% 195 MW per System Operator.
	0402	Commenced increasing power to 30%.
	0440	Unit at 30% power - 280 MW.
March 5, 1985	2135	Commenced ramp up to 100% power at 0.3% per hour.
March 6, 1985	0346	Stabilized Unit at 90% to perform calorimetric.
	0422	Calorimetric complete ramping up to 100% power.
	0543	Unit at 100% power.
March 8, 1985	1235	Commenced ramping Unit down to 80% to replace bus duct cooling fan belts.
	1345	Stabilized power at 81% - 822 MW.
	1420	Repairs complete - commenced ramp up to 100%.
	1545	Stabilized power at 98% power - 921 MW for calorimetric.

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH March

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>
March 8, 1985	1610	Calorimetric complete - Commenced ramp up to 100% power.
	1630	Unit at 100% power.
March 29, 1985	2140	Commenced ramp down for Turbine Valve Freedom test.
	2330	Stabilized power 91% power - 865 MW.
	2335	Commenced Turbine Valve Freedom test.
March 30, 1985	0516	Turbine Valve Freedom Test complete - commenced ramp up to 100%.
	0615	Unit at 100% power.
March 31, 1985	2400	Ended this month with Unit 1 at 100% power.

OPERATING DATA REPORT

DOCKET NO. 50-339
DATE 04-02-85
COMPLETED BY Joan N. Lee
TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: March, 1985
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	2160	37,656
12. Number of Hours Reactor Was Critical	704.5	2120.5	27,910.9
13. Reactor Reserve Shutdown Hours	9.2	9.2	3,995
14. Hours Generator On-Line	679.1	1990.9	27,396.0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,445,997	4,838,257	70,338,498
17. Gross Electrical Energy Generated (MWH)	474,919	1,607,472	23,304,737
18. Net Electrical Energy Generated (MWH)	446,301	1,520,770	22,090,032
19. Unit Service Factor	91.3	92.2	72.7
20. Unit Availability Factor	91.3	92.2	72.7
21. Unit Capacity Factor (Using MDC Net)	67.4	79.1	65.9
22. Unit Capacity Factor (Using DER Net)	66.1	77.6	64.7
23. Unit Forced Outage Rate	9.5	7.8	13.1
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 04-02-85

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH March

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>883</u>
2	<u>882</u>
3	<u>882</u>
4	<u>880</u>
5	<u>536</u>
6	<u>215</u>
7	<u>216</u>
8	<u>216</u>
9	<u>214</u>
10	<u>505</u>
11	<u>877</u>
12	<u>882</u>
13	<u>883</u>
14	<u>870</u>
15	<u>884</u>
16	<u>886</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>886</u>
18	<u>523</u>
19	<u>0</u>
20	<u>56</u>
21	<u>197</u>
22	<u>199</u>
23	<u>519</u>
24	<u>67</u>
25	<u>219</u>
26	<u>850</u>
27	<u>880</u>
28	<u>850</u>
29	<u>864</u>
30	<u>879</u>
31	<u>881</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 March UNIT NAME NA-2

YEAR 1985 DATE 04-02-85

COMPLETED BY Joan Lee

- 85-10 F (1) Commenced ramping Unit 2 off line on March 18, 1985 at 1145 to comply with Tech. Spec. 3.8.1.1 due to EDG 2J being inoperable. Repairs were made and Unit 2 returned to 100% power on March 23, 1985 at 1401.
- 85-11 (F) (2) On March 23, 1985 at 2308 Unit 2 Manual Reactor Trip. Trip was initiated due to loss of off site power bus #4 which de-energized reserve station service transformers A and B. Repairs were made and Unit 2 returned to 100% power on March 26, 1985 at 0315.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	03-06-85
COMPLETED BY	Joan Lee
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH March

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
85-07	850305	F	NA	A	5	NA	NA	NA	Ramped Unit 2 down to 30% power because of Condenser Tube leaks.
85-08	850308	S	NA	B	5	NA	NA	NA	Ramped Unit down to 24% power 205MW for Turbine Valve Freedom test. Unit returned to 30% power. Unit 2 returned to 100% power March 10, 1985 at 1914.
85-09	850314	S	NA	H	5	NA	NA	NA	Ramped Unit 2 down for load following. Unit returned to 100% power.
85-10	850318	F	48.0	A	5	LER 85-04	NA	NA	Ramped down Unit 2 off line to comply with Tech. Spec. 3.8.1.1 due to inoperable 2J diesel. Repairs made. Unit returned to 100% power on March 23, 1985 at 1401.

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)

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Exhibit H - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	03-06-85
COMPLETED BY	Joan Lee
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH March

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
85-11	850323	F	16.9	A	2	LER 85-05	NA	NA	Unit 2 Reactor trip was initiated due to loss off offsite power Bus #4 which de-energized Reserve Station Buses A & B. Repairs made and Unit 2 returned to 100% power on March 26, 1985 at 0315.
85-12	850328	S	NA	H	5	NA	NA	NA	Ramped Unit 2 down for load following. Unit returned to 100% power. Ended this month with Unit at 100% power.

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)

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Exhibit H - Same Source

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH March

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>
March 1, 1985	0000	Began this month with Unit 2 at 100% power.
March 5, 1985	1110	Commenced ramp down to 30% power due to condenser tube leaks.
	1250	Unit 2 Stabilized at 30% power - 250 MW - (Chemistry Hold).
March 8, 1985	2320	Commenced ramp down to 24% power - 205 MW for Turbine Valve Freedom Test.
	0029	Stabilized Unit at 24% power - 205 MW.
	0055	Turbine Valve Freedom test complete - commenced ramp up to 30% power.
	0148	Stabilized Unit at 30% power - 262 MW.
March 10, 1985	0839	Commenced ramp up to 100% power.
	1630	Stabilized unit at 90% power - 827 MW for calorimetric.
	1914	Calorimetric complete - Unit at 100% power - 935 MW.
March 14, 1985	0139	Commenced ramp down of 100 MW for load followin
	0220	Unit at 87% power - 840 MW, decreasing another 50 MW per System Operation.
	0240	Unit at 81% power - 775 MW
	0313	Commenced ramp up to 100% power.
	0538	Unit 2 at 100% power.

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH March

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>
March 18, 1985	1145	Commenced ramp down of Unit 2 to comply with Tech Spec. 3.8.1.1 due to EDJ 2J being inoperable.
	1706	Unit 2 off line.
March 19, 1985	2136	Repairs made Unit 2 Reactor Critical.
March 20, 1985	1703	Unit 2 on line.
	1752	Stabilized at 30% power - 233 MW for Chemistry Hold.
March 23, 1985	0900	Commenced ramp up to 100% power.
	1253	Stabilized power at 90% power - 865 MW for Calorimetric.
	1315	Calorimetric complete - commenced ramp up to 100%.
	1401	Unit 2 at 100% power.
	2308	Unit 2 Reactor Trip initiated due to Loss of offsite power Bus No. 4 which de-energized Reserve Station Service transformers A and B
March 24, 1985	0920	Repairs made - Unit 2 Reactor Critical.
	1549	Unit 2 on line.
	1650	Unit at 30% - 196 MW Chemistry Hold.
March 25, 1985	2222	Commenced ramp up to 100% power.
March 26, 1985	0037	Unit at 52% power - 540 MW.
	0315	Unit 2 at 100% power.

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH March

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>
March 28, 1985	0046	Commenced ramp down of 200 MW for load following per System operator.
	0134	Stabilized power at 79% power - 752 MW
	0425	Ramp up to 850 MW per System Operator. Power at 89%.
	0448	Commenced ramp up to 100% power.
	0528	Stabilized power at 98% for calorimetric.
	0556	Calorimetric complete. Unit at 100% power.
March 29, 1985	0207	Commenced ramp down of 100 MW for load following per System Operator.
	0240	Stabilized power at 89% - 838 MW.
	0456	Commenced ramp up to 100% power.
	0555	Stabilized at 98% for calorimetric.
	0625	Calorimetric complete. Unit at 100% power.
March 31, 1985	2400	Ended this month with Unit at 100% power.



VIRGINIA POWER

April 12, 1985

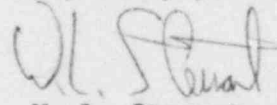
Mr. Maurice R. Beebe
Office of Resource Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 85-260
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 March, 1985.

Very truly yours,


W. L. Stewart

Enclosure (3 copies)

cc: Mr. J. M. Taylor, Director (12 copies)
Office of Inspection and Enforcement

Mr. J. Nelson Grace (1 copy)
Regional Administrator
Region II

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

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VIRGINIA POWER
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH March YEAR 1985

APPROVED:


STATION MANAGER
RM