VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH July YEAR 1982

APPROVED:

STATION MANAGER

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 08-06-82
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: July 1982
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): 918
7. Maximum Dependable Capacity (Net MWe): 865
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons:

NA

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	5,087	36,408
12. Number of Hours Reactor Was Critical	0	3,129.9	26,958.2
13. Reactor Reserve Shutdown Hours	0	21.5	256.4
14. Hours Generator On-Line	0	3,022.9	26,375.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	7,941,328	68,255,580
17. Gross Electrical Energy Generated (MWH)	0	2,537,888	21,783,410
18. Net Electrical Energy Generated (MWH)	0	2,396,973	20,519,889
19. Unit Service Factor	0	59.4	72.4
20. Unit Availability Factor	0	59.4	72.4
21. Unit Capacity Factor (Using MDC Net)	0	54.5	65.2
22. Unit Capacity Factor (Using DER Net)	0	52.0	62.1
23. Unit Forced Outage Rate	0	7.3	5.1

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: 9-15-82
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 08-06-82

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2502

MONTH July

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

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 JULY

DOCKET NO. 50-338
UNIT NAME North Anna 1
DATE 08-06-82
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2502

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
82-10		S	744		The scheduled refueling outage continues				

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

OPERATING DATA REPORT

DOCKET NO. 50-339
DATE 08-06-82
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: July 1982
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:

NA

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	5,087	14,279
12.	Number of Hours Reactor Was Critical	169.6	2,142.7	9,557.5
13.	Reactor Reserve Shutdown Hours	118.8	173.7	1,806.9
14.	Hours Generator On-Line	156.4	2,061.7	9,521.1
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	384,674	5,072,590	23,855,431
17.	Gross Electrical Energy Generated (MWH)	127,134	1,676,360	7,991,592
18.	Net Electrical Energy Generated (MWH)	119,702	1,585,999	7,588,415
19.	Unit Service Factor	21.0	40.5	66.7
20.	Unit Availability Factor	21.0	40.5	66.7
21.	Unit Capacity Factor (Using MDC Net)	18.1	35.0	59.7
22.	Unit Capacity Factor (Using DER Net)	17.7	34.4	58.6
23.	Unit Forced Outage Rate	79.0	25.5	19.9

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: 8-19-82
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 08-06-82

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2502

MONTH July

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	879	17	0
2	869	18	0
3	119	19	0
4	526	20	0
5	870	21	0
6	876	22	0
7	840	23	0
8	8	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

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 July

DOCKET NO. 50-339
UNIT NAME North Anna 2
DATE 08-0-682
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2502

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
82-12	820703	F	12.9	H	1	NA	NA	NA	Normal rampdown to 30% power for testing and evaluation of "Loose Parts" Alarm on "A" S/G, followed by continued normal rampdown from 30% power to generator off line for further testing and evaluation of the "Loose Parts" Alarm on "A" S/G. Additional "Loose Parts" monitoring pick-ups were installed during the time unit was off line.
82-13	820708	F	574.7	H	1	82-045	HJ	HTEXCH	Normal rampdown from 100% power to generator off line to investigate the noise monitored in "A" S/G. During this time it was decided to "UT" the thermal sleeves installed in the RCS.

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

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-339

REPORT MONTH July UNIT NAME NA-2

YEAR 1982 DATE 08-06-82

COMPLETED BY G. D. Schmitendorf

82-12	(H)	(1)	At 2230 on July 2, 1982 with the unit at 100% power a rampdown to 30% reactor power was commenced to evaluate a "Loose Parts" Alarm received on "A" S/G. After stabilizing at 30% power to obtain data a rampdown from 30% to generator off line was commenced in order to further evaluate the "Loose Parts" Alarm and obtain more data. The generator was off line at 0418 on 3 July. Reactor maintained critical. The data taken was evaluated and the loose part was determined to be of low impact energy and on the secondary side of the "A" S/G. During the unit down time additional "Loose Parts" noise monitoring pick-ups and data gathering equipment were installed to assist in locating the region that the noise originated from and determination as to what components were the cause.
82-13	(H)	(1)	At 2100 on July 7 with the unit at 100% power a rampdown at 150 mwe per hour followed by a normal reactor shutdown was commenced. The generator was taken off line at 0113 on July 8. The reactor shutdown was commenced at 0135 by driving in the control rods placing the Unit in Mode 3. The Unit was taken to cold shutdown (mode) to investigate the noise monitored in "A" S/G. Upon removal of S/G side handhole cover, the Tube Lane Blocking device split plate was found to be loose. The TLBD was repaired and reinstalled. During the time frame of the S/G loose parts investigation it was decided to "UT" the Thermal Sleeves installed in the RCS.