VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH September YEAR 1984

APPROVED:

for STATION MANAGER

IE24
1/1

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 10-05-84
COMPLETED BY Joan N. Lee
TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: September, 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	720	6,575	55,016
12.	Number of Hours Reactor Was Critical	132.3	2,599.9	36,186.4
13.	Reactor Reserve Shutdown Hours	0	7.1	3,028.6
14.	Hours Generator On-Line	41.9	2,485.8	35,147.4
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	37,740	6,634,476	91,686,249
17.	Gross Electrical Energy Generated (MWH)	10,428	2,248,515	29,632,882
18.	Net Electrical Energy Generated (MWH)	8,791	2,135,396	27,966,570
19.	Unit Service Factor	5.8	37.8	63.9
20.	Unit Availability Factor	5.8	37.8	63.9
21.	Unit Capacity Factor (Using MDC Net)	1.4	36.4	57.1
22.	Unit Capacity Factor (Using DER Net)	1.3	35.8	56.0
23.	Unit Forced Outage Rate	46.9	22.6	11.8

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Unit 1 Scheduled fall maintenance - Scheduled 10 days. 11/23/84 - 12/3/84

25. If Shut Down At End Of Report Period, Estimated Date of Startup: October 1, 1984
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 10-05-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH September

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	177.1
12	0	28	189.0
13	0	29	0
14	0	30	.1
15	0	31	
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 SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-338

REPORT MONTH September UNIT NAME NA-1

YEAR 1984 DATE 10-05-84

COMPLETED BY Joan Lee

84-15	(F)	(1)	On September 28, 1984 at 2028 Unit 1 Reactor trip due to Hi-Hi Level in 'B' steam generator. Repairs were made and Unit 1 was on line on September 30, 1984 at 1532.
84-16	(F)	(2)	On September 30, 1984 at 1613 Unit 1 Reactor trip due to Lo-Lo Level in 'B' steam generator. At 1939 on September 30, 1984 Reactor was critical. Ended this month with Unit 1 in mode 1.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September, 1984

DOCKET NO. 50-338
UNIT NAME North Anna 1
DATE 10-05-84
COMPLETED BY Joan Lee
TELEPHONE (703) 894-5151 X2527

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
84-14	840511	S	627.2	C	1	NA	NA	NA	Continuation of Unit 1 Refu - ing Outage. Unit 1 on line September 27 at 0315.
84-15	840928	F	43.7	A	3	84-014	NA	NA	Reactor trip due to Hi-Hi Level in 'B' steam generator.
84-16	840930	F	7.2	A	3	84-015	NA	NA	Reactor trip due to Lo-Lo Level in steam generator. Ended this month with Unit 1 in mode 1.

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 ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH September

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.

DATE	TIME	DATA
September 1, 1984	0000	Began this month with Unit 1 in Mode 5.
September 14, 1984	1352	Started 1-RC-P-1A and pressure on Reactor Coolant System dropped, bumped FCV-1122 to open. Valve opened fully - lifting PORV's on pressurizer twice. Submitted plant deviation report # 84-1327 - See LER N1-84-011.
September 23, 1984	0105	entered Mode 4.
	1937	entered Mode 3.
September 25, 1984	0010	entered Mode 2.
	0049	Reactor Critical.
September 27, 1984	0315	Unit 1 on line.
September 28, 1984	1900	Comenced rampdown for turbine overspeed test.
	2028	Reactor trip due to High-High Level in 'B' Steam generator.
September 29, 1984	0438	Reactor Critical.
September 30, 1984	1532	Unit 1 on line.
	1613	Reactor trip due to Low-Low-Level in 'B' Steam generator.
	1939	Reactor Critical
	2400	Ended this month with unit 1 in Mode 1.

OPERATING DATA REPORT

DOCKET NO. 50-339
DATE 10-05-84
COMPLETED BY Joan N. Lee
TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: September, 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	720	6,575	33,287
12. Number of Hours Reactor Was Critical	0	4,821.8	24,468.7
13. Reactor Reserve Shutdown Hours	0	14.6	3,794.6
14. Hours Generator On-Line	0	4,713	24,220.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	12,215,461	62,632,502
17. Gross Electrical Energy Generated (MWH)	0	4,026,505	20,740,872
18. Net Electrical Energy Generated (MWH)	0	3,812,307	19,664,389
19. Unit Service Factor	0	71.7	72.8
20. Unit Availability Factor	0	71.7	72.8
21. Unit Capacity Factor (Using MDC Net)	0	65.1	66.4
22. Unit Capacity Factor (Using DER Net)	0	63.9	65.1
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		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 10-05-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH September

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 SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-339

REPORT MONTH SEPTEMBER UNIT NAME NA-2

YEAR 1984 DATE 10-05-84

COMPLETED BY Joan Lee

No entries this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September

DOCKET NO. 50-339
UNIT NAME North Anna 2
DATE 10-05-84
COMPLETED BY Joan Lee
TELEPHONE (703) 894-5151 X2527

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
84-34	840802	S	720	D/C	1	LER-006	NA	NA	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 . Unit 2 remained off line for scheduled refueling outage. Unit 2 remained off line for the month of September for refueling outage. Ended this month with Unit 2 in Mode 5.

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

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5
Exhibit H - Same Source

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH September

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.

DATE	TIME	DATA
September 1, 1984	0000	Began this month with Unit 2 in Mode 6 for scheduled Refueling Outage.
September 29, 1984	1145	Entered Mode 5.
September 30, 1984	2400	Ended this month with Unit 2 in Mode 5. Expected on line date is October 23, 1984

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEW
VICE PRESIDENT
NUCLEAR OPERATIONS

October 15, 1984

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

Serial No. 592
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 September, 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

IE24
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