VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 14, 1992

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

Serial No. 92-333
NL&P/JMJ: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 April 1992.

Very truly yours,

W. L. Stewart
Senior Vice President - Nuclear

Enclosures

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

Mr. M. S. Lesser
NRC Senior Resident Inspector
North Anna Power Station

IE24

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: April YEAR: 1992

Approved:

Station Manager

OPERATING DATA REPORT

DOCKET NO.: 50-338
DATE: May 4, 1992
CONTACT: G. E. Kane
PHONE: (703) 894-2101

OPERATING STATUS

1. Unit Name:.....North Anna 1
2. Reporting Period:.....April 1992
3. Licensed Thermal Power (MWt):..... 2,748
4. Nameplate Rating (Gross MWe):..... 947
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 894
7. Maximum Dependable Capacity (Net MWe):.... 848

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 restriction, if any: N/A

	This Month	Y-t-D	Cumulative
11. Hours in Reporting Period	719.0	2,903.0	121,475.0
12. Number of Hours Reactor was Critical	719.0	1,361.3	88,049.8
13. Reactor Reserve Shutdown Hours	0.0	36.3	6,758.0
14. Hours Generator On-Line	719.0	1,344.2	85,115.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,961,347.8	3,529,434.7	226,482,207.1
17. Gross Electrical Energy Generated (MWH)	650,184.0	1,167,258.0	74,425,105.0
18. Net Electrical Energy Generated (MWH)	617,921.0	1,107,470.0	70,462,087.0
19. Unit Service Factor	100.0%	46.3%	70.1%
20. Unit Availability Factor	100.0%	46.3%	70.1%
21. Unit Capacity Factor (using MDC Net)	101.3%	42.6%	64.8%
22. Unit Capacity Factor (using DER Net)	94.8%	42.1%	64.0%
23. Forced Outage Rate	0.0%	0.0%	12.1%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each) None

25. If Shutdown at end of Report Period, estimated time of Startup: N/A
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: May 4, 1992
Contact: G. E. Kane
Phone: (703) 894-2101

MONTH: April 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	863	17	868
2	864	18	868
3	864	19	864
4	864	20	865
5	865	21	864
6	864	22	864
7	864	23	865
8	864	24	865
9	864	25	866
10	832	26	867
11	814	27	867
12	816	28	868
13	825	29	867
14	864	30	868
15	866		
16	867		

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

DOCKET NO.: 50-338
UNIT NAME: NA-1
DATE: May 4, 1992
CONTACT: G. E. Kane
PHONE: (703) 894-2101

REPORT MONTH: April 1992

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

1: Type
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
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.: 50-338

Report Month April Unit Name: NA-1

Year: 1992 Date: May 4, 1992

Contact: G. E. Kano

*No entry this month.

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: April

SUMMARY F 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
April 01, 1992	0000	Began month with unit at 95% power, 907MWe.
April 10, 1992	0835	Commenced unit ramp-down to 880MWe for TVFT.
	0955	Commenced TVFT.
	1030	TVFT completed satisfactorily. Maintaining unit at approximately 90% power for Main Condenser waterbox inspections.
April 13, 1992	1826	Commenced unit ramp-up to 93% power for calorimetric.
	1920	Calorimetric completed stafisfactorily. Commenced unit ramp-up to full power.
	2054	Unit stable at 95% power, 912MWe.
April 30, 1992	2400	Ended month with unit at 95% power, 909MWe.

OPERATING DATA REPORT

DOCKET NO.: 50-339
DATE: May 4, 1992
CONTACT: G. E. Kane
PHONE: (703) 894-2101

OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....April 1992
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):.. 957
7. Maximum Dependable Capacity (Net MWe):.... 909

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	Y-t-D	Cumulative
11. Hours in Reporting Period.....	719.0	2,903.0	99,743.0
12. Number of Hours Reactor was Critical.....	158.8	1,505.9	81,241.8
13. Reactor Reserve Shutdown Hours.....	68.4	108.8	6,166.2
14. Hours Generator On-Line.....	129.5	1,460.7	80,235.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	253,114.4	3,685,055.5	215,502,188.6
17. Gross Electrical Energy Generated (MWH).....	81,2[illegible]	1,202,358.0	70,582,484.0
18. Net Electrical Energy Generated (MWH).....	75,894.0	1,137,622.0	67,637,355.0
19. Unit Service Factor.....	18.0%	50.3%	80.4%
20. Unit Availability Factor.....	18.0%	50.3%	80.4%
21. Unit Capacity Factor (using MDC Net).....	11.6%	43.1%	75.3%
22. Unit Capacity Factor (using DER Net).....	11.6%	43.2%	74.8%
23. Forced Outage Rate.....	0.0%	1.8%	5.9%

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

25. If Shutdown at end of Report Period, estimated time of Startup: N/A
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: May 4, 1992
Contact: G. E. Kane
Phone: (703) 894-2101

MONTH: April 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL 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	76
10	0	26	203
11	0	27	425
12	0	28	690
13	0	29	866
14	0	30	902
15	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

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE: May 4, 1992
CONTACT: E. Kane
PHONE: (703) 894-2101

REPORT MONTH: April 1992

No.	Date	1 Type	Duration (Hrs)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
92-03	920226	S	589.5	C	4	N/A	N/A	N/A	Refueling in progress. S/G maintenance and inspections ongoing.

1: Type
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
H=Other (explain)

3: Method
1=Manual
2=Manual Scram
3=Automatic Scram
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Exhibit H - Same Source

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month April **Unit Name:** NA-2

Year: 1992 **Date:** May 4, 1992

Contact: G. E. Kane

#92-03 February 26, 1992
Main Generator taken off-line at 1413 hours in preparation for refueling outage. Unit entered Mode 3 at 1501 hours.

February 27, 1992
Unit entered Mode 4 at 0449 hours. Unit entered Mode 5 at 1930 hours.

March 07, 1992
Unit entered Mode 6 at 0522 hours.

March 14, 1992
Reactor defueled at 0640 hours.

March 23, 1992
Reactor fuel on-load commenced at 0633 hours.

March 26, 1992
Reactor fuel on-load completed at 0413 hours.

April 01, 1992
Unit entered Mode 5 at 0920 hours. Pressurizer power operated relief valve, PCV-2455C, lifted and reseated in response to Reactor Coolant System NDT Overpressurization signal at 1119 hours. The RCS was in a solid condition with no RCPs running.

April 20, 1992
Unit entered Mode 4 at 1253 hours.

April 21, 1992
Unit entered Mode 3 at 0320 hours. Unit entered Mode 2 at 2352 hours.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-339

April 22, 1992
Entered T.S. Action Statement 3.1.3.2 at 1540 hours due to IRPI K-8 failing low. Determined rod K-8 is dropped at 1715 hours, and entered appropriate abnormal procedure. Commenced reactor shutdown at 2030 hours. Unit entered Mode 3 at 2031 hours.

April 23, 1992
Unit entered Mode 4 at 0408 hours. Unit entered Mode 5 at 0820 hours.

April 24, 1992
Unit entered Mode 4 at 0816 hours. Unit entered Mode 3 at 1818 hours.

April 25, 1992
Unit entered Mode 2 at 0551 hours. Unit entered Mode 1 at 1240 hours. Main Generator placed on line at 1325 hours and experienced turbine trip due to antimotoring alarm at 1326 hours. Main Generator placed on-line at 1431 hours. Unit stable at 30% power for Chemistry hold at 1753 hours.

April 27, 1992
Cleared Chemistry hold and commenced unit ramp-up at 0530 hours.

April 30, 1992
Unit stable at 99% power, 947MWe, with all turbine valves full open at 2200 hours.

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: April

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
April 01, 1992	0000	Began month with unit in Mode 6.
	0900	Unit entered Mode 5.
April 14, 1992	1119	Pressurizer power operated relief valve, PCV-2455C, lifted and reseated in response to Reactor Coolant System NDT Overpressurization signal. The RCS was in a solid condition with no RCPs running.
April 20, 1992	1253	Unit entered Mode 4.
April 21, 1992	0320	Unit entered Mode 3.
	2352	Unit entered Mode 2.
April 22, 1992	1540	Entered T.S. Action Statement 3.1.3.2 due to IRPI K-8 failing low.
	1715	Investigation determined rod K-8 is dropped. Entered appropriate abnormal operating procedure.
	2030	Commenced reactor shutdown.
	2031	Unit entered Mode 3 in preparation for repairs to rod control for K-8.
April 23, 1992	0408	Unit entered Mode 4.
	0820	Unit entered Mode 5.
April 24, 1992	0816	Unit entered Mode 4 following repair of rod control for K-8.
	1818	Unit entered Mode 3.
April 25, 1992	0551	Unit entered Mode 2.
	1045	Placed Main Turbine on-line and experienced turbine trip due to low oil pressure when 2-TM-P-1 was secured.

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: April

SUMMARY OF OPERATING EXPERIENCE

April 25, 1992 (continued)	1133	Placed Main Turbine on-line and experienced turbine trip due to low oil pressure when 2-TM-P-1 was secured.
	1240	Unit entered Mode 1.
	1325	Main generator placed on-line.
	1326	Experienced turbine trip due to antimotoring alarm.
	1431	Main generator placed on-line at a higher load rate.
	1753	Unit stable at approximately 30% power for Chemistry hold.
April 27, 1992	0530	Cleared Chemistry hold. Commenced unit ramp-up at 4%/hour.
April 29, 1992	0352	Unit stable at 98% power per delta T indication.
	1549	Delta T and Tavg adjustments in progress.
	1751	Commenced unit ramp-up to full power after adjustments.
April 30, 1992	2200	Unit stable at 99% power, 947MWe, with all turbine valves full open.
	2400	Ended month with unit at 99% power, 949MWe.