VIRGINIA POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH AUGUST

YEAR 1988

APPROVED:

STATION MANAGER

2024

OPERATING DATA REPORT

907

963

N/A

North Anna 1

August 1988

OPERATING STATUS

Licensed Thermal Power (MWt):
 Nameplate Rating (Gross MWe):

Design Flectrical Rating (Net MWe):
 Maximum Dependable Capacity (Gross MWe):

10. Reasons For Restrictions, If Any:

7. Maximum Dependable Capacity (Net MWe):

8. If Changes Occur in Capacity Ratings (Items No

9. Power Level To Which Restricted, If Any (Net M

Unit Name:

2. Reporting Period:

Give Reasons:

DOCKET NO.	50-338				
DATE	09-01-88 Brenda Garner				
COMPLETED BY					
TELEPHONE	the state of the s				
. 3 thru 7) Sin	ce Last Report,				
We):	N/A N/A				
Month Yrt	o-Date Cumulative				

		This Month	Yrto-Date	Cumulative
11.	Houss In Reporting Period	744	5,855	89,363
2.	Number of Hours Reactor Was Critical	704.7	5,090.5	63,290.4
3.	Reactor Reserve Shutdown Hours	34	182.6	6,457.3
4.	Hours Generator On-Line	607.8	4,833.3	60,585.5
5.	Unit Reserve Shutdown Hours	0	0	0
6.	Gross Thermal Energy Generated (MWH)	1,737,741	13,665,876	159,838,531
7.	Gross Electrical Energy Generated (MMH)	565,597	4,514,620	52,418,512
8.	Net Electrical Energy Generated (MWH)	535,909	4,281,714	49,576,308
9.	Unit Service Factor	81.7	82.5	67.8
0.	Unit Availability Factor	81.7	82.5	67.8
1.	Unit Capacity Factor (Using MDC Net)	78.7	79.9	62.3
2.	Unit Capacity Factor (Using DER Net)	79.4	80.6	60.8
3.	Unit Forced Outage Rate	18.3	15.8	15.2

25. If Shut Down At End Of Report Period, Estimated Date of Startup: NA

26. Units In Test Status (Prior to Commercial Operation):
Forecast A:hieved

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

NA

AVERAGE DAILY UNIT POWER LEVEL

		DOC	KET NO.	50-338
			UNIT	NA-1
			DATE	09-01-88
		COMPL	ETED BY	Brenda Garner
		TE	LEPHONE .	703-894-5151X2527
MONTH	AUGUST 1988			
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE	DAILY POWER LEVEL (MWe-Net)
1	813	17		901
2	894	18		900
3	902	19		901
4	903	20		90?
5	903	21		903
6	864	22		904
7	Ø	23		905
8	0	24		905
9	Ø	25		905
10	ø	26		904
11	ø	27		904
12	71	28		904
13	727	29		905
14	900	30	Perm	901
15	901	3:		906
16	902			

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.

take the second		and the same of
Page	l of	1
- mg		

UNIT SHUTDOWN AND POWER REDUCTIONS

XPLANATION	SHEET DOCK	ET NO.	50-338
REPORT MOFT	H August	UNIT NAME	NA-1
YEAR	1988	DATE	09-01-88
	COMPLETED BY	Brenda	Garner

88 -05 1) August 6, 1988 at 2257, a reactor trip occurred at 100% power, due to "B" steam generator feed flow/steam flow mismatch coincident with a low level. (Mismatch occurred due to stem separation on "B" main feed reg valve). Repairs were completed and on August 12, 1988, at 1507 the Unit returned on line.

UNIT SHIFTDOWNS		

DOCKET NO. 50-338

UNIT NAME North Anna 1

DATE 09-01-88

COMPLETED BY Brenda Garner

TELEPHONE (703) 894-5151 X2527

REPORT MONTH AUGUST

Type Duration Reason 2 Method of Component Cause and Corrective Licensee System Code 5 Code A Action to Event (Hours) Shutting Report # Prevent Recurrence Down Reactor FCV LER NI-88-20 SJ 88-05 880806 F 136.2 A

Reactor tripped at 100% power, due to "B" steam generator feed flow/steam flow mismatch coincident with a low level. Unit returned to 100% power.

F: Forced Reason:
S: Scheduled 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

Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5 Exhibit H - Same Source

NORTH ANNA POWER STATION

UNIT	NO.	1
		Minimum Spiriter Spiriter Spiriters (Spiriters Spiriters

MONTH AUGUST

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
August 1, 1988	0000	Began the month with Unit at 739 MW - 83% power, to continue maintenance on feedwater heater.
	0618	Commenced ramp up to 90% power, maintenance completed on feedwater heater.
	0711	Unit holding at 840 MW - 90% power to perform 1-PT-24 calorimetric.
	0835	Commenced ramp up to 98% power, 1-PT-24 calorimetric completed.
	1100	Unit holding at 930 MW - 98% power, to perform 1-PT-24 calorimetric.
	1245	Commenced ramp up to 100% power, 1-PT-24 calorimetric completed.
	1315	Unit stabilized at 944 MW - 100% power.
August 6, 1988	2257	Reactor tripped from 100% power due to "B" steam generator feed flow/steam flow mismatch coincident with a low level.
August 8, 1988	1415	Reactor critical
August 12, 1988	1507	Unit on line.
	1710	Unit holding at 270 MW - 30% power, for chemistry.
August 13, 1988	0224	Commenced ramp up to 50% power, released from chemistry hold.

DATE	TIME	DATA
	0352	Unit holding at 465 MW - 50% power, to perform Quadrant Power Tilt Ratio (Q.P.T.R.).
	0400	Commenced ramp up to 90% power, Q.P.T.R. completed.
	0815	Unit holding at 850 MW - 90% power, to perform 1-PT-24.1 calorimetric.
	0845	Commenced ramp up to 100% power, 1-PT-24.1 calorimetric completed.
	1045	Unit stabilized at 945 MW - 100% power.
August 30, 1988	1057	Commenced rampdown of 5% power to swap 1-FW-P-1C to 1-FW-P-1A.
	1140	Unit holding at 910 MW - 95% power, to swap main feedwater pumps.
	1254	Commenced ramp up to 100% power, main feedwater pumps secured.
	1333	Unit stabilized at 954 MW - 100% power.
August 31, 1988	2400	Ended the month with Unit at 954 MW - 100% power.

VIRGINIA POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH AUGUST YEAR 1988

APPROVED:

STATION MANACE

OPERATING DATA REPORT

DOCKET NO.

DATE -

50-339

09-01-88

COMPLETED BY Brenda Garner TELEPHONE (703) 894-5151 X2527 OPERATING STATUS Unit Name: North Anna 2 2. Reporting Period: August 1988 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: This Month Yr.-to-Date Cumulative 11. Hours In Reporting Period 744 5,855 67,631 12. Number of Hours Reactor Was Critical 54,274.2 744 5,805.9 13. Reactor Reserve Shutdown Hours 0 49.1 14. Hours Generator On-Line 744 5,779.2 53,435. 15. Unit Reserve Shutdown Hours 16. Gross Thermal Energy Generated (MWH) ,150,540 16,677,609 140,996,390 17. Gross Flectrical Energy Generated (MWH) 703,614 5,534,610 46,739,731 18. Net Electrical Energy Generated (MWH) 44,315,772 19. Unit Service Factor 100 98.7 79.0 20. Unit Availability Factor 98.7 79.0 21. Unit Capacity Factor (Using MDC Net) 98.0 22. Unit Capacity Factor (Using DER Net) 98.9 99.0 23. Unit Forced Outage Rate 0 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A 25. If Shut Down At End Of Report Period, Estimated Date 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

		DOCK	ET NO.	50-338
			UNIT	NA-1
			DATE	09-01-88
		COMPLE	TED BY	Brenda Garner
		TEL	EPHONE	703-894-5151X2527
MONTH	August 1988			
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DeY	AVERAGE	DAILY POWER LEVEL (MWe-Net)
1	899	17		899
2	900	18		897
3	900	19		871
4	899	20		896
5	899	21		896
6	898	22		898
7	896	23		899
8	891	24		899
9	896	2.5		899
10	893	26		888
11	895	27		897
12	896	28		899
13	898	29		901
14	898	30		902
15	898	31		904
16	898			

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.

TIMET OF	CHITTETOOL	DI AND D	OWER REDUCT	PTONE
EXPLANATION			KFT NO.	50-339
REPORT MO		UGUST	UNIT NAME	
YEAR	198	38	DATE	09-01-88

No Entry This Month

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.

50-339

UNIT NAME

North Anna 2

DATE COMPLETED BY 09-01-88 Brenda Carner

TELEPHONE

(703) 894-5151 X2527

Date Type Duration Reason (Hours)

REPORT MONTH

AUGUST 1988

Method of

Shutting

Down Reactor

Licensee Event

Report #

System Code 4 Code 5

Component Cause and Corrective Action to Prevent Recurrence

NO ENTRY THIS MONTH

F: Forced

Reason:

S: Scheduled 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

Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee

Event Report (LER) File

(NUREG-0161)

Exhibit H - Same Source

NORTH ANNA POWER STATION

UNIT NO. 2

MONTH AUGUST

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
August 1, 19	88 0000	Began the month with the Unit at 950 MW - 100% power.
August 19, 1	988 0600	Commenced rampdown of 70 MW to perform Turbine Valve Freedom Test.
	0653	Unit holding at 880 MW - 89% power, to perform Turbine Valve Freedom Test and to perform maintenance on 2-CN-P-1C condensate pumps.
	1245	Commenced ramp up to 98% power, Turbine Valve Freedom Test completed.
	1357	Unit holding at 915 MW - 98% power to perform 2-PT-24 and to complete maintenance on 2-CN-P-1C condensate pumps.
	1745	Commenced ramp up to 100% power, repairs completed on 2-CN-P-1C condensate pumps.
August 19, 1	988 1842	Unit stabilized at 940 MW - 100% power.
August 31, 1	988 2400	Ended the month with Unit at 945 MW - 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 20261

September 14, 1988

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

Serial No. 88-615 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 August 1988.

Very truly youps

W. R. Cartwright

Vice President - Nuclear

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

> > 7E24