

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 78-11

NOVEMBER, 1978

REGULATORY DOCKET FILE COPY

W. F. Stewart
Superintendent-Station Operations

APPROVED:

T. L. Bacon
MANAGER

7812200262

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KEY PERSONNEL CHANGE

NOVEMBER, 1978

The following key personnel changes were affected November 1, 1978:

Position

Supervisor, Mechanical
Maintenance

D. S. Taylor transferred to
Corporate Offices.

J. W. Patrick appointed.

Supervisor, Engineering
Services

L. A. Johnson transferred to
Corporate Offices.

T. A. Peebles appointed.

OPERATING DATA REPORT

DOCKET NO. 50-290
DATE 04 DEC 79
COMPLETED BY O.J. COSTELLO
TELEPHONE 804-357-3194

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	0001 781101-2400 781130
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	947.5
5. DESIGN ELECTRICAL RATING (NET MWE)	922
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	911
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
9. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A

NOTES

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY N/A
(NET MWE)
10. REASONS FOR RESTRICTIONS, IF ANY N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	720.0	8016.0	52080.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	6124.1	35441.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	720.0	6042.9	34608.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1745778.0	14631076.0	79772072.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	563185.0	4760170.0	26120013.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	535373.0	4526120.0	24793624.0
19. UNIT SERVICE FACTOR	100.0 %	75.4 %	66.5 %
20. UNIT AVAILABILITY FACTOR	100.0 %	75.4 %	66.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	95.9 %	72.9 %	61.4 %
22. UNIT CAPACITY FACTOR (USING DER NET)	90.5 %	68.7 %	57.9 %
23. UNIT FORCED OUTAGE RATE	0.0	0.2 %	15.5 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	S/G INSPECTION 1-2-79 3 WEEKS		

25. IF SHUT DOWN AT END OF REPORT PERIOD, N/A
ESTIMATE DATE OF STARTUP
26. UNITS IN TEST STATUS
(PRIOR TO COMMERCIAL OPERATION)

FORECAST ACHIEVED

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-291
 DATE 04 DEC 79
 COMPLETED BY O.J. COSTELLO
 TELEPHONE 904-357-3194

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	0001 791101-2400 791130
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	947.5
5. DESIGN ELECTRICAL RATING (NET MWE)	922
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	911
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 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	720.0	8016.0	49960.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	6543.5	32956.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	720.0	6526.3	32455.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1756774.0	15779768.0	75489002.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	572245.0	5090020.0	24657414.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	544291.0	4933219.0	23386335.0
19. UNIT SERVICE FACTOR	100.0 %	81.4 %	66.3 %
20. UNIT AVAILABILITY FACTOR	100.0 %	81.4 %	66.3 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	97.5 %	77.8 %	61.6 %
22. UNIT CAPACITY FACTOR (USING DER NET)	92.0 %	73.4 %	58.1 %
23. UNIT FORCED OUTAGE RATE	0.0	2.1 %	21.9 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	STEAM GENERATOR REPLACEMENT 6 MONTHS 1-25-79		

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP N/A

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)

FORECAST ACHIEVED

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER 1978

DOCKET NO. 50-280
 UNIT NAME Unit 1
 DATE 12-1-78
 COMPLETED BY G. Kane
 TELEPHONE (804) 357-3184

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
			None during this period.						

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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-Other (Explain)

⁴
 Exhibit G - Instructions
 for Preparation of Data
 Entry Sheets for Licensee
 Event Report (LER) File (NUREG-
 0161)

⁵
 Exhibit I - Same Source

(9/77)

12-28-77

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER 1978

DOCKET NO. 50-281
 UNIT NAME Surry 2
 DATE 12-1-78
 COMPLETED BY G. Kane
 TELEPHONE (804) 357-3184

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
						None during this period.			

1
 F: Forced
 S: Scheduled

2
 Reasons:
 A-Equipment Failure (Explain)
 B-Maintenance of 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-Other (Explain)

4
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
 Exhibit I - Same Source

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: NOVEMBER, 1978

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NONE DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL					0	

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 2

MONTH: NOVEMBER, 1978

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NONE DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL					0	

DOCKET NO 50-290
UNIT SURRY I
DATE 12-1-79
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: NOVEMBER 1979

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	751.0	16	750.9
2	750.9	17	751.5
3	750.0	18	750.5
4	750.9	19	751.8
5	750.5	20	750.5
6	749.2	21	727.9
7	747.8	22	685.3
8	713.7	23	732.2
9	720.3	24	746.2
10	749.9	25	749.2
11	750.9	26	746.5
12	751.5	27	746.0
13	750.6	28	747.2
14	749.0	29	738.5
15	749.8	30	749.3

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 % LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

DOWNET NO 50-291
 UNIT SURRY II
 DATE 12-1-79
 COMPLETED BY J J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: NOVEMBER 1979

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	759.7	16	755.0
2	758.1	17	754.3
3	759.4	18	754.3
4	760.1	19	736.7
5	759.7	20	756.5
6	756.7	21	751.4
7	757.8	22	749.5
8	754.6	23	754.5
9	756.0	24	755.5
10	759.4	25	755.9
11	757.5	26	757.2
12	759.5	27	758.9
13	758.8	28	758.2
14	758.5	29	755.4
15	756.7	30	756.9

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 % LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

SUMMARY OF OPERATING EXPERIENCE

NOVEMBER, 1978

Listed below in chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

UNIT 1

- November 1 - This report period begins with the unit at 100% power.
- November 8 - At 1120 power was reduced to 90%. The incore/excore nuclear indication calibration map was found to be out of date.
- November 9 - At 0915 the map results were found to be acceptable and load was increased to 100%.
- November 10 - At 1433 during a switching operation in the switchyard #1 Auto Transformer failed.
- November 21 - At 1136 "B" High Pressure Drain Pump motor tripped on ground fault and "A" High Pressure Drain Pump showed low resistance causing approximately 40 MWe reduction in output as a result of no High Pressure Drain Pumps operating.
- November 22 - At 0930 the "A" High Pressure Drain Pump was returned to service. At 1015 the load was reduced to 88% due to a secondary chemistry transient. This resulted from a high inleakage from condenser tube failures.
- November 23 - At 0457 returned unit to 100% power. The condenser inleakage was stopped and chemistry stabilized.
- November 29 - At 1120 a rampdown was commenced because "A" BAST & BIT were low in boron concentration. Primary grade water was inadvertently introduced to the BAST. At 1250 with reactor power at approximately 80% the [C_B] in the "B" BAST & BIT were returned to specification and a ramp-up was begun. At 1442 the unit was returned to 100% power.
- November 30 - This report period ends with the unit at 100% power.

UNIT 2

- November 1 - This report period begins with the unit at 100% power.
- November 19 - At 0140 a load reduction to load follow was begun at the request of system operator. At 0252 load was at 83% power. At 0445 a load increase was begun and at 0620 the unit was returned to 100% power.
- November 30 - This report period ends with the unit at 100% power.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

NOVEMBER, 1978

On 11-06-78 the Nuclear Regulatory Commission issued amendment No. 45 to the Operating Licenses for the Surry Power Station Unit Nos. 1 and 2, which are designated as Technical Specification Change No. 56. This change is the result of our request to revise the Non-Radiological Environmental Monitoring Program. Of significance are the following changes:

- (1) Deletion of the biological monitoring program except for a low intensity fish sampling program.
- (2) Reduction of the programs for temperature salinity and impingement monitoring.
- (3) In addition, a correction to page TS 6.4-7a is included which indicates fourteen (14) days as the correct review period.

FACILITY CHANGES REQUIRING
NRC APPROVAL

NOVEMBER, 1978

None during this operating period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

NOVEMBER, 1978

None during this reporting period.

TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

NOVEMBER, 1978

There were none during this reporting period.

TEST AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

NOVEMBER, 1978

There were none during this reporting period.

OTHER CHANGES, TESTS AND EXPERIMENTS

NOVEMBER, 1978

There were none during this reporting period.

SURRY POWER STATION

CHEMISTRY REPORT

NOVEMBER, 19 78

T.S.6.6.A.11

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	3.80E-1	2.05E-1	3.04E-1	1.86E-1	7.02E-2	1.07E-1
Suspended Solids, ppm	0.2	0.1	0.1	0.2	0.1	0.1
Gross Tritium, $\mu\text{Ci/ml}$	2.38E-1	1.95E-1	2.09E-1	1.64E-1	1.40E-1	1.49E-1
Iodine-131, $\mu\text{Ci/ml}$	4.18E-2	9.36E-4	9.36E-3	5.70E-4	1.92E-4	3.88E-4
I-131/I-133	0.8664	0.0775	0.3262	0.1372	0.0568	0.0931
Hydrogen, cc/kg	38.0	25.5	30.6	39.7	25.2	30.1
Lithium, ppm	2.15	1.85	1.98	0.70	0.25	0.42
Boron-10, ppm +	126.4	116.0	121.4	36.3	22.9	29.9
Oxygen-16, ppm	0.000	0.000	0.000	0.000	0.000	0.000
Chloride, ppm	0.08	0.05	0.05	0.05	0.05	0.05
pH @ 25°C	6.92	6.68	6.81	7.10	6.24	6.89

+ Boron-10 = Total Boron \times 0.196

NON-RADIOACTIVE CHEMICAL
RELEASES, POUNDS
T.S. 4.13.A.8

Phosphate 0.0
Sulfate 278
50% NaOH 350

Boron 508
Chromate .07
Chlorine 0.0

Remarks: _____

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

NOVEMBER, 1978

Due to impairment of the circulating water system on the following days the thermal Discharge limits were exceeded as noted.

November 1, 1978		Exceeded 17.5°F ΔT across station
November 2, 1978		Exceeded 17.5°F ΔT across station
November 3, 1978		Exceeded 17.5°F ΔT across station
November 4, 1978		Exceeded 17.5°F ΔT across station
November 5, 1978		Exceeded 17.5°F ΔT across station
November 6, 1978	*	Exceeded 17.5°F ΔT across station
November 7, 1978		Exceeded 17.5°F ΔT across station
November 8, 1978		Exceeded 17.5°F ΔT across station
November 9, 1978		Exceeded 17.5°F ΔT across station
November 10, 1978		Exceeded 17.5°F ΔT across station
November 11, 1978		Exceeded 17.5°F ΔT across station
November 12, 1978	*	Exceeded 17.5°F ΔT across station
November 13, 1978	*	Exceeded 17.5°F ΔT across station
November 14, 1978	*	Exceeded 15.0°F ΔT across station
November 15, 1978	*	Exceeded 15.0°F ΔT across station
November 16, 1978	*	Exceeded 17.5°F ΔT across station
November 17, 1978	*	Exceeded 15.0°F ΔT across station
November 18, 1978	*	Exceeded 17.5°F ΔT across station
November 19, 1978	*	Exceeded 15.0°F ΔT across station
November 20, 1978		Exceeded 15.0°F ΔT across station
November 21, 1978		Exceeded 17.5°F ΔT across station
November 22, 1978		Exceeded 17.5°F ΔT across station
November 23, 1978	*	Exceeded 15.0°F ΔT across station
November 24, 1978		Exceeded 17.5°F ΔT across station
November 25, 1978	*	Exceeded 15.0°F ΔT across station
November 26, 1978	*	Exceeded 15.0°F ΔT across station
November 27, 1978	*	Exceeded 15.0°F ΔT across station
November 28, 1978	*	Exceeded 15.0°F ΔT across station
November 29, 1978	*	Exceeded 15.0°F ΔT across station
November 30, 1978	*	Exceeded 15.0°F ΔT across station

*Indicates dates where station ΔT was <15.0°F across the station for sometime during the day.

These ΔT excursions were allowable under Technical Specifications 4.14.B.2. There were no reported instances of significant adverse environmental impact.

On November 18, 1978 the temperature change at the station discharge exceeded 3°F per hour while returning station vacuum priming system to service on Unit 1 condenser waterboxes. This event was reported in accordance with Technical Specifications 4.14.

FUEL HANDLING

NOVEMBER, 1978

No fuel handling was done during this reporting period.

UNIT NO. 1
NOVEMBER, 1978
FUEL HANDLING

[illegible]

[illegible]

PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE FSAR

NOVEMBER, 1978

<u>Number</u>	<u>Unit</u>	<u>Title</u>	<u>Change</u>
Annunciator 2D-22	2	PORV Lo Air Pressure	New Procedure

DESCRIPTION OF PERIODIC TESTS WHICH WERE NOT
COMPLETED WITHIN THE TIME LIMITS
SPECIFIED IN TECHNICAL SPECIFICATIONS

NOVEMBER, 1978

<u>Number</u>	<u>Title</u>	<u>Comment</u>	<u>Unit</u>
22.4A	Diesel No. 1 Refueling Inspection	LER 78-040/03L-0	1
22.4C	Diesel No. 3 Refueling Inspection	LER 78-040/03L-0	1

INSERVICE INSPECTION

NOVEMBER, 1978

None during this reporting period.

REPORTABLE OCCURRENCES PERTAINING TO
ANY OUTAGE OR POWER REDUCTIONS

NOVEMBER, 1978

Unit No. 1 power was reduced on November 8, 1978 as a result of the failure to complete incore-excore instrument calibration. This event is discussed fully in LER-78-038/03L-0.

Unit No. 1 power was reduced on November 29, 1978 as a result of a reduced concentration in boric acid storage tank 1-CH-TK-1A. LER-78-043/-03L-0 discusses this occurrence more completely.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

Mechanical Maintenance

UNIT 1

There was none during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

Mechanical Maintenance

UNIT 2

There was none during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

Electrical Maintenance

UNIT 1

There was none during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

Electrical Maintenance

UNIT 2

There was none during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

Instrument Maintenance

UNIT 1

There was none during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

Instrument Maintenance

UNIT 2

There was none during this reporting period.

HEALTH PHYSICS

NOVEMBER, 1978

There was no single release of radioactivity specifically that accounted for more than 10% of the allowable annual values in 10CFR20.

There were no individuals who received single radiation exposure which accounted for more than 10% of the allowable annual values in 10CFR20.101.

PROCEDURE DEVIATIONS REVIEWED BY STATION NUCLEAR
SAFETY AND OPERATING COMMITTEE AFTER TIME LIMITS
SPECIFIED IN TECHNICAL SPECIFICATIONS

NOVEMBER, 1978

<u>Number</u>	<u>Unit</u>	<u>Title</u>	<u>Deviation</u>
MMP-C-G-004	Spare	Repair of Replacement of Worn or Defective Pump Internals Ingersoll- Rand Inliner Pumps 02708107	Steps 3.4.1, 3.4.2, 3.5, 4.1, 5.2, 5.6.1, 6.0 - Not required.
OP-5.1	1	Filling and Venting the RCS	Steps 4.2.27 and 4.2.28 not completed.