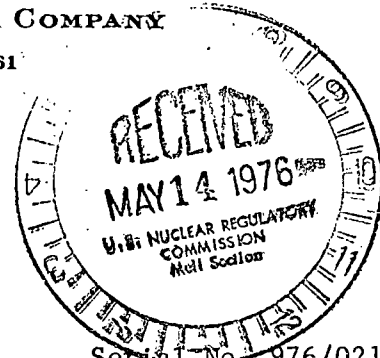


VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

May 12, 1976



Mr. William McDonald, Director  
Office of Management Information and  
Program Control  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555



Serial No. 976/021974  
PO&M/ALH:clw

Docket Nos. 50-280  
50-281  
License Nos. DPR-32  
DPR-37

Dear Mr. McDonald:

Operating information for Surry Power Station, Unit Nos. 1 and 2, for the month of April 1976 is attached.

Very truly yours,

*C. M. Stallings*

C. M. Stallings  
Vice President-Power Supply  
and Production Operations

Attachment

cc: Mr. Norman C. Moseley

DOCKET NO. 50-280UNIT Surry Unit No. 1DATE 5-3-76COMPLETED BY E.P. DeWandel

## AVERAGE DAILY UNIT POWER LEVEL

MONTH APRIL

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	0	17	767.2
2	0	18	767.5
3	0	19	765.0
4	697.0	20	762.4
5	758.5	21	766.4
6	757.7	22	754.2
7	754.2	23	723.1
8	756.9	24	737.6
9	760.0	25	752.0
10	760.3	26	753.8
11	750.5	27	415.5
12	761.4	28	0
13	760.3	29	0
14	756.6	30	0
15	761.1	31	
16	764.4		

## 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. Compute to the nearest whole megawatt.

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 level 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.

UNIT Surry Unit No. 1  
 DATE 5-3-76  
 COMPLETED BY E.P. DeWandel  
 DOCKET NO. 50-280

OPERATING STATUS

1. REPORTING PERIOD: 0001 760401 THROUGH 2400 760430  
 HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 2441 MAX. DEPENDABLE CAPACITY (MWe-NET) 788
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY): \_\_\_\_\_

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL . . . . .	<u>574</u>	<u>2,546.3</u>	<u>19,042.6</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>568.1</u>	<u>2,528.6</u>	<u>18,373.1</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,363,416</u>	<u>6,056,540</u>	<u>40,839,228</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>447,670</u>	<u>1,977,450</u>	<u>13,428,993</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>426,326</u>	<u>1,881,552</u>	<u>12,728,432</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>79.7%</u>	<u>87.7%</u>	<u>64.7%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>78.9%</u>	<u>87.1%</u>	<u>62.4%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>75.1%</u>	<u>82.2%</u>	<u>54.9%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>21.1%</u>	<u>11.7%</u>	<u>23.3%</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):  
Refueling, October 15, 1976, approximately six weeks
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: May 2, 1976
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	_____
COMMERCIAL OPERATION	_____	_____

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

UNIT SHUTDOWNS

DOCKET NO. 50-280

UNIT NAME Surry Unit No. 1

DATE 5-3-76

COMPLETED BY E.P. DeWandel

REPORT MONTH APRIL

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-4	040176	F	115.25	A	1	Primary-to-secondary steam generator tube leak. Plugged leaking tubes.
76-5	040376	F	3.12	H	3	Low level steam generator due to feed control system sensitivity. Corrected levels.
76-6	042776	F	80.29	A	1	Primary-to-secondary steam generator tube leak. Unit still out at the end of this report period.

(1) REASON  
A-EQUIPMENT FAILURE (EXPLAIN).  
B-MAINT. OR TEST  
C-REFUELING  
D-REGULATORY RESTRICTION  
E-OPERATOR TRAINING AND  
LICENSE EXAMINATION  
F-ADMINISTRATIVE  
G-OPERATIONAL ERROR  
(EXPLAIN)  
H-OTHER (EXPLAIN)

(2) METHOD  
1-MANUAL  
2-MANUAL  
SCRAM  
3-AUTOMATIC  
SCRAM

SUMMARY:

DOCKET NO. 50-281

UNIT Surry Unit No. 2

DATE 5-3-76

COMPLETED BY E.P. DeWandel

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH APRIL

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>743.1</u>	17	<u>731.1</u>
2	<u>744.3</u>	18	<u>733.6</u>
3	<u>720.1</u>	19	<u>679.3</u>
4	<u>735.7</u>	20	<u>469.9</u>
5	<u>737.8</u>	21	<u>547.4</u>
6	<u>736.9</u>	22	<u>1.9</u>
7	<u>736.8</u>	23	<u>0</u>
8	<u>738.1</u>	24	<u>0</u>
9	<u>738.8</u>	25	<u>0</u>
10	<u>738.3</u>	26	<u>0</u>
11	<u>736.8</u>	27	<u>0</u>
12	<u>735.8</u>	28	<u>0</u>
13	<u>733.9</u>	29	<u> </u>
14	<u>730.6</u>	30	<u> </u>
15	<u>730.8</u>	31	<u> </u>
16	<u>730.5</u>		

**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. Compute to the nearest whole megawatt.

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 level 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.

UNIT Surry Unit No. 2

DATE 5-3-76

COMPLETED BY E.P. DeWandel

DOCKET NO. 50-281

OPERATING STATUS

1. REPORTING PERIOD: 0001 760401 THROUGH 2400 760430  
HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 2441 MAX. DEPENDABLE CAPACITY (MWe-NET) 788
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY): \_\_\_\_\_

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL . . . . .	<u>505.5</u>	<u>2,159.5</u>	<u>17,789.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>504.7</u>	<u>2,147.4</u>	<u>17,501.9</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,175,103</u>	<u>5,052,578</u>	<u>39,560,711</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>378,580</u>	<u>1,651,680</u>	<u>13,027,239</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>358,361</u>	<u>1,566,482</u>	<u>12,318,863</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>70.2%</u>	<u>74.4%</u>	<u>67.6%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>70.1%</u>	<u>73.9%</u>	<u>66.5%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>63.2%</u>	<u>68.5%</u>	<u>59.4%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>0</u>	<u>20.1%</u>	<u>20.1%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):	_____		

17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: May 22, 1976

18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	_____
COMMERCIAL OPERATION	_____	_____

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

UNIT SHUTDOWNS

DOCKET NO. 50-281

UNIT NAME Surry Unit No. 2

DATE 5-3-76

COMPLETED BY E.P. DeWandel

REPORT MONTH APRIL

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-5	042276	S	215.20	C	1	Refueling           (1) REASON A-EQUIPMENT FAILURE (EXPLAIN) B-MAINT. OR TEST C-REFUELING D-REGULATORY RESTRICTION E-OPERATOR TRAINING AND LICENSE EXAMINATION F-ADMINISTRATIVE G-OPERATIONAL ERROR (EXPLAIN) H-OTHER (EXPLAIN)  (2) METHOD 1-MANUAL 2-MANUAL SCRAM 3-AUTOMATIC SCRAM

SUMMARY: