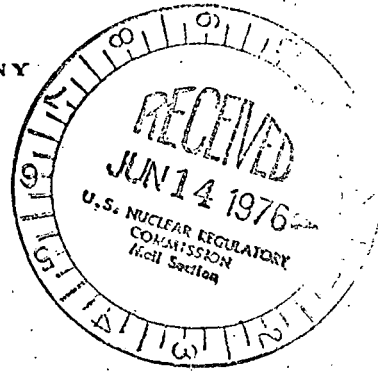


VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

June 7, 1976



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

Serial No. 076/021974
PO&M/ALH:jlf

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 May 1976 is attached. Corrected copies of operating information for April 1976 are also attached.

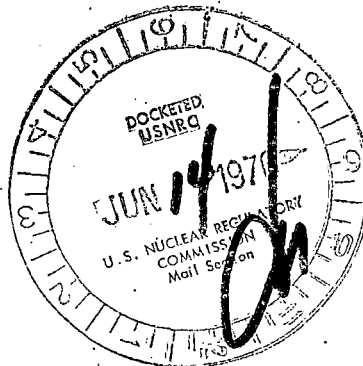
Very truly yours,

A handwritten signature in cursive, appearing to read "G. M. Stallings".

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

Attachment

cc: Mr. Norman G. Moseley



Regulatory Docket File

6027

DOCKET NO. 50-280

UNIT Surry Unit No.

DATE June 1, 1976

COMPLETED BY E. P. DeWandel

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>0</u>	17	<u>746.8</u>
2	<u>21.8</u>	18	<u>750.5</u>
3	<u>62.1</u>	19	<u>748.8</u>
4	<u>0</u>	20	<u>751.6</u>
5	<u>143.4</u>	21	<u>757.3</u>
6	<u>607.9</u>	22	<u>755.9</u>
7	<u>720.1</u>	23	<u>744.9</u>
8	<u>746.7</u>	24	<u>756.5</u>
9	<u>732.0</u>	25	<u>755.9</u>
10	<u>719.8</u>	26	<u>753.5</u>
11	<u>726.8</u>	27	<u>752.7</u>
12	<u>728.6</u>	28	<u>746.8</u>
13	<u>709.1</u>	29	<u>746.3</u>
14	<u>709.3</u>	30	<u>747.1</u>
15	<u>742.7</u>	31	<u>746.6</u>
16	<u>751.8</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. 1

DATE June 1, 1976

COMPLETED BY E. P. DeWandel

DOCKET NO. 50-280

OPERATING STATUS

1. REPORTING PERIOD: 0001 760501 THROUGH 2400 760531
HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWh) 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>647.6</u>	<u>3193.9</u>	<u>19,690.3</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.	<u>639.9</u>	<u>3168.5</u>	<u>19,013</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1,504,199</u>	<u>7,560,739</u>	<u>42,343,427</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>490,165</u>	<u>2,467,615</u>	<u>13,919,158</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>465,205</u>	<u>2,346,757</u>	<u>13,193,637</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>87.0%</u>	<u>87.6%</u>	<u>65.3%</u>
13. UNIT AVAILABILITY FACTOR (2)	<u>86.0%</u>	<u>86.9%</u>	<u>63.0%</u>
14. UNIT CAPACITY FACTOR (3)	<u>79.3%</u>	<u>81.6%</u>	<u>55.5%</u>
15. UNIT FORCED OUTAGE RATE (4)	<u>14.0%</u>	<u>13.1%</u>	<u>23.1%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): <u>Refueling, October 15, 1976, six weeks</u>			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____			
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 = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GEN RATOR ON LINE + FORCED OUTAGE HOURS}} \times 100$

UNIT SHUTDOWNS

DOCKET NO. 50-280

UNIT NAME Surry Unit No. 1

DATE June 1, 1976

COMPLETED BY E. P. DeWandel

REPORT MONTH May, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-6	042776	F	45.7	A	1	Primary to Secondary Steam Generator (B) Tube Leak. Plugged leaking tubes.
76-7	050376	F	58.4	H	1	Steam Generator Chemistry out specification. Drained and refilled (A) Steam Generator.

<p>(1) REASON</p> <p>A-EQUIPMENT FAILURE (EXPLAIN)</p> <p>B-MAINT. OR TEST</p> <p>C-REFUELING</p> <p>D-REGULATORY RESTRICTION</p> <p>E-OPERATOR TRAINING AND LICENSE EXAMINATION</p> <p>F-ADMINISTRATIVE</p> <p>G- OPERATIONAL ERROR (EXPLAIN)</p> <p>H-OTHER (EXPLAIN)</p>	<p>(2) METHOD</p> <p>1-MANUAL</p> <p>2-MANUAL SCRAM</p> <p>3-AUTOMATIC SCRAM</p>
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SUMMARY:

DOCKET NO. 50-281

UNIT Surry Unit No.

DATE June 1, 1976

COMPLETED BY E. P. DeWandel

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</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.

DATE June 1, 1976

COMPLETED BY E. P. DeWandel

DOCKET NO. 50-281

OPERATING STATUS

1. REPORTING PERIOD: 0001 760501 THROUGH 2400 760531
HOURS IN REPORTING PERIOD: 744
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>0</u>	<u>2159.8</u>	<u>17,789.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>0</u>	<u>2147.4</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>0</u>	<u>5,052,578</u>	<u>39,560,711</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>0</u>	<u>1,651,680</u>	<u>13,997,239</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>0</u>	<u>1,566,482</u>	<u>12,318,863</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>0</u>	<u>59.2%</u>	<u>65.8%</u>
13. UNIT AVAILABILITY FACTOR (2)	<u>0</u>	<u>58.9%</u>	<u>64.7%</u>
14. UNIT CAPACITY FACTOR (3)	<u>0</u>	<u>54.5%</u>	<u>57.8%</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: June 1, 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 = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS}} \times 100$

UNIT SHUTDOWNS

DOCKET NO. 50-281

UNIT NAME Surry Unit No. 2

DATE June 1, 1976

COMPLETED BY E. P. DeWandel

REPORT MONTH May, 1976

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	744	C	1	<p>Refueling</p> <p>(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)</p> <p>(2) METHOD 1-MANUAL 2-MANUAL SCRAM 3-AUTOMATIC SCRAM</p>

SUMMARY:

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>19,042.7</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): <u>Refueling, October 15, 1976, approximately six weeks</u>			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>May 2, 1976</u>			
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	033076	F	68.3	A	1	Primary-to-secondary steam generator tube leak. Plugged leaking tubes.
76-5	040376	F	.5	H	3	Low level steam generator due to feed control system sensitivity. Corrected levels.
76-6	042776	F	80.5	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:

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>2,159.8</u>	<u>17,789.4</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>12,997,239</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.

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	215.3	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: