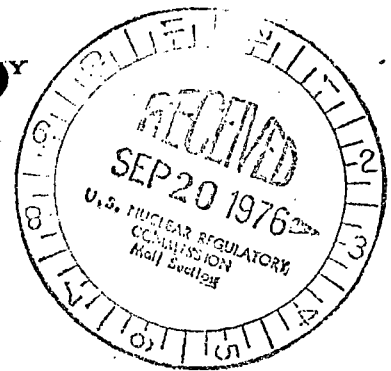


VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

September 13, 1976



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

Serial No. 182/021974  
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 August 1976 is attached. Corrected copies of data for March through July 1976 on Unit No. 1 and April through July 1976 on Unit No. 2 are also attached.

Very truly yours,

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

REGULATORY DOCKET FILE COPY



9548

OPERATING STATUS

1. REPORTING PERIOD: 0001 760801 THROUGH 2400 76-0831  
HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MW<sub>th</sub>) 2441 MAX. DEPENDABLE CAPACITY (MW<sub>e</sub>-NET) 788
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MW<sub>e</sub>-NET): \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY): \_\_\_\_\_

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL . . . . .	<u>607.4</u>	<u>5090.1</u>	<u>21,586.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>597.1</u>	<u>5052.5</u>	<u>20,897.0</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,364,191</u>	<u>11,991,323</u>	<u>46,774,011</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>439,365</u>	<u>3,880,280</u>	<u>15,331,823</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>416,802</u>	<u>3,687,139</u>	<u>14,534,019</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>81.6%</u>	<u>86.9%</u>	<u>66.7%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>80.3%</u>	<u>86.3%</u>	<u>64.5%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>71.1%</u>	<u>79.9%</u>	<u>57.0%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>19.7%</u>	<u>13.7%</u>	<u>22.4%</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):  
Refueling - October 15, 1976 - six weeks
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A
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 =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MW}_e\text{-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

DOCKET NO. 50-280UNIT Surry #1DATE Sept. 2, 1976COMPLETED BY E. P. DeWandel

## AVERAGE DAILY UNIT POWER LEVEL

MONTH August 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>739.5</u>	17	<u>0</u>
2	<u>739.5</u>	18	<u>0</u>
3	<u>743.5</u>	19	<u>67.4</u>
4	<u>721.7</u>	20	<u>257.4</u>
5	<u>738.4</u>	21	<u>722.5</u>
6	<u>750.8</u>	22	<u>365.7</u>
7	<u>750.9</u>	23	<u>397.4</u>
8	<u>750.8</u>	24	<u>752.8</u>
9	<u>753.5</u>	25	<u>751.5</u>
10	<u>753.5</u>	26	<u>756.9</u>
11	<u>753.3</u>	27	<u>757.4</u>
12	<u>756.4</u>	28	<u>755.7</u>
13	<u>651</u>	29	<u>752.8</u>
14	<u>0</u>	30	<u>719.0</u>
15	<u>0</u>	31	<u>706.0</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.

UNIT SHUTDOWNS

DOCKET NO. 50-280

UNIT NAME Surry Unit #1

DATE Sept. 2, 1976

COMPLETED BY E. P. DeWandel

REPORT MONTH August 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-10	8-13-76	F-Forced	136.0	A	1	Primary to secondary leakage in steam generators. Plugged leaking tubes in "B" and "C" S/G's.
76-11	8-19-76	F-Forced	1.1	H	3	Turbine trip on loss of first stage pressure interlock when latching turbine. Repositioned valve limit.
76-12	8-22-76	F-Forced	5.4	A	1	Turbine only-had blown rupture discs on the L/P turbine casings. Replaced rupture discs.

(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 SHUTDOWNS

DOCKET NO. 50-280

UNIT NAME Surry Unit #1

DATE September 2, 1976

COMPLETED BY E. P. DeWandel

REPORT MONTH August

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-13	8-23-76	F-Forced	1.6	H	3	Lo Level in S/G with $W W_f$ mismatch during startup due to sensitivity of feedwater control system. Returned level to normal band.
76-14	8-23-76	F-Forced	1.3	H	3	Lo level in S/G with $W W_f$ mismatch during startup due to sensitivity of feedwater control system. Returned level to normal band.
76-15	8-23-76	F-Forced	1.5	A	3	Failure of static breaker relay in switchyard. Replaced relay.

- (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:

OPERATING STATUS

1. REPORTING PERIOD: 0001 760801 THROUGH 2400 760831  
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>691.8</u>	<u>4133.3</u>	<u>19,762.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>690.4</u>	<u>4043.7</u>	<u>19,398.2</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1,661,570</u>	<u>9,563,524</u>	<u>44,071,657</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>533,525</u>	<u>3,115,925</u>	<u>14,461,484</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>505,862</u>	<u>2,955,186</u>	<u>13,707,576</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>93.0%</u>	<u>70.6%</u>	<u>67.6%</u>
13. UNIT AVAILABILITY FACTOR (2)	<u>92.8%</u>	<u>69.1%</u>	<u>66.3%</u>
14. UNIT CAPACITY FACTOR (3)	<u>86.3%</u>	<u>64.1%</u>	<u>59.5%</u>
15. UNIT FORCED OUTAGE RATE (4)	<u>7.2%</u>	<u>13.6%</u>	<u>18.8%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): None			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>N/A</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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENI RATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

DOCKET NO. 50-281

UNIT Surry Unit #2

DATE Sept. 2, 1976

COMPLETED BY E. P. DeWandel

### AVERAGE DAILY UNIT POWER LEVEL

MONTH August, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>0</u>	17	<u>745.6</u>
2	<u>0</u>	18	<u>744.2</u>
3	<u>497.2</u>	19	<u>742.7</u>
4	<u>754.4</u>	20	<u>750.1</u>
5	<u>751.8</u>	21	<u>750.0</u>
6	<u>748.3</u>	22	<u>745.0</u>
7	<u>746.3</u>	23	<u>740.2</u>
8	<u>748.3</u>	24	<u>699.1</u>
9	<u>751.5</u>	25	<u>724.5</u>
10	<u>752.3</u>	26	<u>732.5</u>
11	<u>746.6</u>	27	<u>734.4</u>
12	<u>738.0</u>	28	<u>740.0</u>
13	<u>737.1</u>	29	<u>738.0</u>
14	<u>724.2</u>	30	<u>741.0</u>
15	<u>582.8</u>	31	<u>730.7</u>
16	<u>740.8</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 SHUTDOWNS

DOCKET NO. 50-281

UNIT NAME Surry Unit #2

DATE Sept. 3, 1976

COMPLETED BY E. P. DeWandel

REPORT MONTH August 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-8	8-1-76	F-Forced	53.6	A	1	<p>Excessive reactor coolant leak. Reactor and unit shutdown on 7-30-76. Tightened packing and renewed gaskets on leaking components. Shutdown waiting for repairs to the low pressure letdown relief valve. (RV-2203)</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 Apr. 1, 1976

COMPLETED BY E.P. DeWandel

DOCKET NO. 50-280

OPERATING STATUS

1. REPORTING PERIOD: 0001 760301 THROUGH 2400 760331  
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>532.3</u>	<u>1,972.3</u>	<u>18,468.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>520.7</u>	<u>1,960.7</u>	<u>17,805.02</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,215,803</u>	<u>4,693,124</u>	<u>39,475,812</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>396,325</u>	<u>1,529,780</u>	<u>12,981,323</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>376,648</u>	<u>1,455,226</u>	<u>12,302,106</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>71.5%</u>	<u>90.3%</u>	<u>64.3%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>70.0%</u>	<u>89.8%</u>	<u>62.0%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>64.2%</u>	<u>84.6%</u>	<u>54.4%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>30.0%</u>	<u>10.3%</u>	<u>23.4%</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: \_\_\_\_\_

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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

OPERATING STATUS

1. REPORTING PERIOD: 0001 760401 THROUGH 2400 760430  
 HOURS IN REPORTING PERIOD: 719
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>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>569.7</u>	<u>2,530.4</u>	<u>18,374.9</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>12,728,422</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>79.8%</u>	<u>87.7%</u>	<u>64.7%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>79.2%</u>	<u>87.2%</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>20.8%</u>	<u>12.8%</u>	<u>23.4%</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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

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 (MWe) 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>3170.3</u>	<u>19,014.8</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):  
Refueling, October 15, 1976, six weeks

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

OPERATING STATUS

1. REPORTING PERIOD: 0001 760601 THROUGH 2400 760630  
HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 2441 MAX. DEPENDABLE CAPACITY (MWc-NET) 788
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWc-NET): \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY): \_\_\_\_\_

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL	<u>720</u>	<u>3913.9</u>	<u>20,410.3</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>720</u>	<u>3890.3</u>	<u>19,734.8</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1,744,255</u>	<u>9,304,994</u>	<u>44,087,682</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>555,645</u>	<u>3,023,260</u>	<u>14,474,803</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>527,763</u>	<u>2,874,520</u>	<u>13,721,400</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>100%</u>	<u>89.6%</u>	<u>66.1%</u>
13. UNIT AVAILABILITY FACTOR (2)	<u>100%</u>	<u>89.1%</u>	<u>63.9%</u>
14. UNIT CAPACITY FACTOR (3)	<u>93.0%</u>	<u>83.5%</u>	<u>56.4%</u>
15. UNIT FORCED OUTAGE RATE (4)	<u>0</u>	<u>10.9%</u>	<u>22.4%</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):  
Refueling, October 15, 1976, 6 weeks

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 =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWc-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

OPERATING STATUS

1. REPORTING PERIOD: 0001 760701 THROUGH 2400 760731  
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>568.8</u>	<u>4,482.7</u>	<u>20,979.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>565.1</u>	<u>4,455.4</u>	<u>20,299.9</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,322,138</u>	<u>10,627,132</u>	<u>45,409,820</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>417,655</u>	<u>3,440,915</u>	<u>14,892,458</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>395,817</u>	<u>3,270,337</u>	<u>14,117,217</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>76.5%</u>	<u>87.7%</u>	<u>66.3%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>76.0%</u>	<u>87.2%</u>	<u>64.2%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>67.5%</u>	<u>81.2%</u>	<u>56.6%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>24.1%</u>	<u>12.8%</u>	<u>22.5%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): <u>Refueling - October 15, 1976 - 6 weeks</u>			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>N/A</u>			
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:			

	DATE LAST FORECAST	DATE ACHIEVED
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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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

OPERATING STATUS

1. REPORTING PERIOD: 0001 760401 THROUGH 2400 760430  
 HOURS IN REPORTING PERIOD: 719
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>503.7</u>	<u>2,146.4</u>	<u>17,500.9</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>70.0%</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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

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 (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>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>2146.4</u>	<u>17,500.9</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>12,997,239</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 =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

OPERATING STATUS

1. REPORTING PERIOD: 0001 760601 THROUGH 2400 760630  
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>576.5</u>	<u>2736.3</u>	<u>18,365.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>502.6</u>	<u>2649.0</u>	<u>18,003.5</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,138,081</u>	<u>6,190,659</u>	<u>40,698,792</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>374,915</u>	<u>2,026,595</u>	<u>13,372,154</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>355,272</u>	<u>1,921,754</u>	<u>12,574,135</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>80.1%</u>	<u>62.6%</u>	<u>66.1%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>69.8%</u>	<u>60.7%</u>	<u>64.8%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>62.6%</u>	<u>55.8%</u>	<u>57.9%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>.8%</u>	<u>17.1%</u>	<u>19.7%</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: \_\_\_\_\_

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 Surry Unit #2  
 DATE August 2, 1976  
 COMPLETED BY E. P. DeWandel  
 DOCKET NO. 50-281

OPERATING STATUS

1. REPORTING PERIOD: 0001 760701 THROUGH 2400 760731  
 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>705.2</u>	<u>3,441.5</u>	<u>19,071.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE . . . . .	<u>704.3</u>	<u>3,353.3</u>	<u>18,707.8</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH) . . . . .	<u>1,711,295</u>	<u>7,901,954</u>	<u>42,410,087</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>555,805</u>	<u>2,582,400</u>	<u>13,927,959</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH) . . . . .	<u>527,570</u>	<u>2,449,324</u>	<u>13,201,705</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>94.8%</u>	<u>67.3%</u>	<u>66.9%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>94.7%</u>	<u>65.6%</u>	<u>65.6%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>90.0%</u>	<u>60.8%</u>	<u>58.8%</u>
15. UNIT FORCED OUTAGE RATE (4) . . . . .	<u>5.3%</u>	<u>14.8%</u>	<u>19.2%</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): <u>None</u>			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>August 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 =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$