

DUKE POWER COMPANY

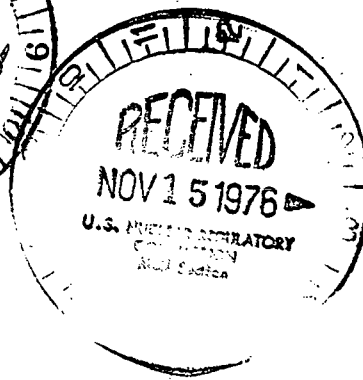
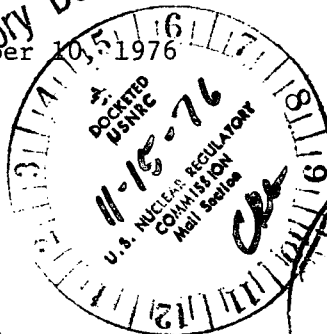
POWER BUILDING

422 SOUTH CHURCH STREET CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

Regulatory Docket File
November 15, 1976



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

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

Please find attached information concerning the performance and operating status of the Oconee Nuclear Station for the month of October, 1976.

In response to your letter of October 29, 1976 which noted a discrepancy in previously reported operating data, the following correction is provided:

The January, 1975 "outage" hours as reported for Oconee Unit 3 in our February 7, 1975 operating data submittal is incorrect. The reported value is 307.0 hours; the correct value is 282.9 hours.

Very truly yours,

William O. Parker, Jr.

EDB:ge
Attachment

cc: Mr. Norman C. Moseley

11650

UNIT Oconee Unit 1
 DATE 11/10/76
 DOCKET NO. 50-269
 PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: October 1 THROUGH October 31, 1976
 GROSS HOURS IN REPORTING PERIOD: 745.00
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 2568 NET CAPABILITY
 (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
4. REASONS FOR RESTRICTION (IF ANY) _____
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL
6. REACTOR RESERVE SHUTDOWN HOURS
7. HOURS GENERATOR ON-LINE
8. UNIT RESERVE SHUTDOWN HOURS
9. GROSS THERMAL ENERGY GENERATED (MWH)
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)
11. NET ELECTRICAL ENERGY GENERATED (MWH)
12. REACTOR SERVICE FACTOR
13. REACTOR AVAILABILITY FACTOR
14. UNIT SERVICE FACTOR
15. UNIT AVAILABILITY FACTOR
16. UNIT CAPACITY FACTOR (Using Net Capability)
17. UNIT CAPACITY FACTOR (Using Design Mwe)
18. UNIT FORCED OUTAGE RATE
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

November 13, 1976

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT SERVICE FACTOR} = \frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT CAPACITY FACTOR} = \frac{\text{NET ELECTRICAL POWER GENERATED}}{[\text{Net Capability or Design (Mwe-Net)}] \times \text{HOURS IN REPORTING PERIOD}} \times 100$$

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

DOCKET NO. 50-269UNIT Oconee Unit 1DATE 11/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH October, 1976

| DAY | AVERAGE DAILY POWER LEVEL (MWe-net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-net) |
|-----|--|-----|--|
| 1 | <u>839</u> | 17 | <u>835</u> |
| 2 | <u>841</u> | 18 | <u>840</u> |
| 3 | <u>841</u> | 19 | <u>843</u> |
| 4 | <u>837</u> | 20 | <u>842</u> |
| 5 | <u>840</u> | 21 | <u>843</u> |
| 6 | <u>839</u> | 22 | <u>840</u> |
| 7 | <u>838</u> | 23 | <u>840</u> |
| 8 | <u>838</u> | 24 | <u>841</u> |
| 9 | <u>493</u> | 25 | <u>841</u> |
| 10 | <u>620</u> | 26 | <u>843</u> |
| 11 | <u>802</u> | 27 | <u>274</u> |
| 12 | <u>829</u> | 28 | <u>759</u> |
| 13 | <u>838</u> | 29 | <u>832</u> |
| 14 | <u>833</u> | 30 | <u>837</u> |
| 15 | <u>829</u> | 31 | <u>199</u> |
| 16 | <u>837</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. 50-269

UNIT NAME Oconee Unit 1

DATE 11/10/76

REPORT MONTH October, 1976

| NO. | DATE | TYPE F-FORCED S-SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN THE REACTOR (2) | CORRECTIVE ACTIONS/COMMENTS |
|-----|----------|---------------------------------|---------------------|------------|---|--|
| 13 | 76-10-27 | F | 10.51 | A | 3 | Control rod drive power supply malfunction during scheduled test |
| 14 | 76-10-31 | F | 15.92 | A | 1 | Repair steam generator tube leaks |

(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:

Investigation of steam generator tube leaks in progress at the end of the month.

UNIT Oconee Unit 2
DATE 11/10/76
DOCKET NO. 50-270
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: October 1 THROUGH October 31, 1976
GROSS HOURS IN REPORTING PERIOD: 745.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
(MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
4. REASONS FOR RESTRICTION (IF ANY) _____
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL

| | <u>This Month</u> | <u>Year to Date</u> | <u>Cumulative</u> |
|---|-------------------|---------------------|-------------------|
| 5. NUMBER OF HOURS THE REACTOR WAS CRITICAL | <u>739.4</u> | <u>4691.8</u> | <u>13250.8</u> |
| 6. REACTOR RESERVE SHUTDOWN HOURS | _____ | _____ | _____ |
| 7. HOURS GENERATOR ON-LINE | <u>735.00</u> | <u>4528.0</u> | <u>12807.5</u> |
| 8. UNIT RESERVE SHUTDOWN HOURS | _____ | _____ | _____ |
| 9. GROSS THERMAL ENERGY GENERATED (MWH) | <u>1707921</u> | <u>10693873</u> | <u>30366301</u> |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) | <u>583800</u> | <u>3597340</u> | <u>10342896</u> |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH) | <u>555838</u> | <u>3455843</u> | <u>9810994</u> |
| 12. REACTOR SERVICE FACTOR | <u>99.2</u> | <u>64.1</u> | <u>70.4</u> |
| 13. REACTOR AVAILABILITY FACTOR | <u>98.7</u> | <u>62.3</u> | <u>68.6</u> |
| 14. UNIT SERVICE FACTOR | <u>98.7</u> | <u>61.9</u> | <u>68.1</u> |
| 15. UNIT AVAILABILITY FACTOR | <u>98.7</u> | <u>61.9</u> | <u>68.1</u> |
| 16. UNIT CAPACITY FACTOR (Using Net Capability) | <u>85.7</u> | <u>54.2</u> | <u>59.9</u> |
| 17. UNIT CAPACITY FACTOR (Using Design Mwe) | <u>84.1</u> | <u>53.2</u> | <u>58.8</u> |
| 18. UNIT FORCED OUTAGE RATE | <u>1.4</u> | <u>23.8</u> | <u>24.6</u> |
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT SERVICE FACTOR} = \frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT CAPACITY FACTOR} = \frac{\text{NET ELECTRICAL POWER GENERATED}}{[\text{Net Capability or Design (Mwe-Net)}] \times \text{HOURS IN REPORTING PERIOD}} \times 100$$

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

DOCKET NO. 50-270
 UNIT Oconee Unit 2
 DATE 11/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH October, 1976

| DAY | AVERAGE DAILY POWER LEVEL (MWe-net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-net) |
|-----|--|-----|--|
| 1 | 824 | 17 | 583 |
| 2 | 826 | 18 | 785 |
| 3 | 696 | 19 | 820 |
| 4 | 805 | 20 | 805 |
| 5 | 828 | 21 | 824 |
| 6 | 824 | 22 | 719 |
| 7 | 820 | 23 | 832 |
| 8 | 819 | 24 | 832 |
| 9 | 767 | 25 | 833 |
| 10 | 734 | 26 | 832 |
| 11 | 806 | 27 | 829 |
| 12 | 811 | 28 | 824 |
| 13 | 466 | 29 | 821 |
| 14 | 461 | 30 | 823 |
| 15 | 477 | 31 | 850 |
| 16 | 184 | | |

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. 50-270

UNIT NAME Oconee Unit 2

DATE 11/10/76

REPORT MONTH October, 1976

| NO. | DATE | TYPE F-FORCED S-SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN THE REACTOR (2) | CORRECTIVE ACTIONS/COMMENTS |
|-----|----------|---------------------------------|---------------------|------------|---|--|
| 13 | 76-10-16 | F | 10.03 | A | 1 | Low oil level indication on reactor coolant pump motor |

(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:

No major outages this month.

UNIT Oconee Unit 3
 DATE 11/10/76
 DOCKET NO. 50-287
 PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: October 1 THROUGH October 31, 1976
 GROSS HOURS IN REPORTING PERIOD: 745.00
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 2568 NET CAPABILITY
 (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
4. REASONS FOR RESTRICTION (IF ANY) _____
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL
6. REACTOR RESERVE SHUTDOWN HOURS
7. HOURS GENERATOR ON-LINE
8. UNIT RESERVE SHUTDOWN HOURS
9. GROSS THERMAL ENERGY GENERATED (MWH)
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)
11. NET ELECTRICAL ENERGY GENERATED (MWH)
12. REACTOR SERVICE FACTOR
13. REACTOR AVAILABILITY FACTOR
14. UNIT SERVICE FACTOR
15. UNIT AVAILABILITY FACTOR
16. UNIT CAPACITY FACTOR (Using Net Capability)
17. UNIT CAPACITY FACTOR (Using Design Mwe)
18. UNIT FORCED OUTAGE RATE
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

November 10, 1976

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT SERVICE FACTOR} = \frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{UNIT CAPACITY FACTOR} = \frac{\text{NET ELECTRICAL POWER GENERATED}}{[\text{Net Capability or Design (Mwe-Net)}] \times \text{HOURS IN REPORTING PERIOD}} \times 100$$

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

DOCKET NO. 50-287

UNIT Oconee Unit 3

DATE 11/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH October, 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.

UNIT SHUTDOWNS

DOCKET NO. 50-287
 UNIT NAME Oconee Unit 3
 DATE 11/10/76

REPORT MONTH October, 1976

| NO. | DATE | TYPE F-FORCED S-SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN THE REACTOR (2) | CORRECTIVE ACTIONS/COMMENTS |
|-----|---------|---------------------------------|---------------------|------------|---|---|
| 11 | 76-10-1 | S | 745.0 | C | 1 | Continuation of annual refueling outage (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 in refueling shutdown for entire month of October.