

NRC FORM 195  
(2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER

50-269270-287

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

MONTHLY REPORT

TO:

NRC

FROM: DUKE POWER CO  
CHARLOTTE, NC  
W O PARKER JR

DATE OF DOCUMENT

5-10-76

DATE RECEIVED

5-13-76

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PROP

INPUT FORM

DESCRIPTION

LETTER TRANS THE FOLLOWING:

PLANT NAME: Ocone 1-2-3

ENCLOSURE

MONTHLY REPORT FOR APRIL 1976  
PLANT & COMPONENT OPERABILITY &  
AVAILABILITY. THIS REPORT TO BE USED IN  
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

ACKNOWLEDGED  
DO NOT REMOVE

SAFETY

FOR ACTION/INFORMATION

ENVIRO 5-17-76 RLB

☒ MIPC  
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4839

# 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

May 10, 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 April 1976.

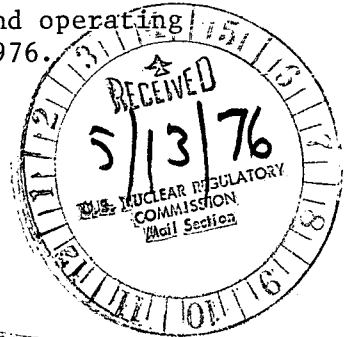
Very truly yours,

*W.O. Parker, Jr.*  
William O. Parker, Jr. *By [Signature]*

EDB:mmmb

Attachment

CC Mr. Norman C. Moseley



Regulatory Docket File

UNIT Oconee Unit 1  
DATE 05/10/76  
DOCKET NO. 50-269  
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1976

GROSS HOURS IN REPORTING PERIOD: 719.00

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
(MWe-Net): 871

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) NONE

4. REASONS FOR RESTRICTION (IF ANY)

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>420.23</u>	<u>1323.26</u>	<u>18095.32</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>301.20</u>	<u>1130.05</u>	<u>16060.84</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>528630</u>	<u>2613095</u>	<u>36837237</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>192930</u>	<u>905110</u>	<u>12799830</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>175610</u>	<u>846805</u>	<u>12085454</u>
12. REACTOR SERVICE FACTOR	<u>58.45</u>	<u>45.58</u>	<u>73.92</u>
13. REACTOR AVAILABILITY FACTOR	<u>41.89</u>	<u>41.76</u>	<u>66.89</u>
14. UNIT SERVICE FACTOR	<u>41.89</u>	<u>38.93</u>	<u>65.61</u>
15. UNIT AVAILABILITY FACTOR	<u>41.89</u>	<u>38.93</u>	<u>65.73</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>28.04</u>	<u>33.49</u>	<u>56.68</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>27.54</u>	<u>32.89</u>	<u>55.66</u>
18. UNIT FORCED OUTAGE RATE	<u>-0-</u>	<u>6.78</u>	<u>16.10</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:

May 21, 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 1DATE May 10, 1976**AVERAGE DAILY UNIT POWER LEVEL**MONTH April 1976**AVERAGE DAILY POWER LEVEL  
(MWe-net)**

DAY	
1	-
2	-
3	-
4	-
5	-
6	208
7	312
8	486
9	580
10	619
11	616
12	603
13	743
14	693
15	768
16	776

**AVERAGE DAILY POWER LEVEL  
(MWe-net)**

DAY	
17	779
18	386
19	-
20	-
21	-
22	-
23	-
24	-
25	-
26	-
27	-
28	-
29	-
30	-
31	-

**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 05/10/76

REPORT MONTH April 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
2	760401	S	120.55	C	1	Continuation of previous outage.
3	760418	S	297.25	B	1	Inspection and repair of reactor internals.
						<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>

## SUMMARY:

Refueling and initial power testing completed during first part of this period.  
Unit remained down at end of period for inspection of reactor internals.

UNIT Oconee Unit 2  
DATE 05/10/76  
DOCKET NO. 50-270  
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1976

GROSS HOURS IN REPORTING PERIOD: 719.00

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
(MWe-Net): 871

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) NONE

4. REASONS FOR RESTRICTION (IF ANY)

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>166.23</u>	<u>2112.37</u>	<u>10671.43</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>160.28</u>	<u>2076.54</u>	<u>10356.00</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>297865</u>	<u>4922491</u>	<u>24594919</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>103700</u>	<u>1678100</u>	<u>8378656</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>96927</u>	<u>1598324</u>	<u>7953475</u>
12. REACTOR SERVICE FACTOR	<u>23.12</u>	<u>72.77</u>	<u>74.11</u>
13. REACTOR AVAILABILITY FACTOR	<u>22.29</u>	<u>71.80</u>	<u>72.48</u>
14. UNIT SERVICE FACTOR	<u>22.29</u>	<u>71.53</u>	<u>71.92</u>
15. UNIT AVAILABILITY FACTOR	<u>22.29</u>	<u>71.53</u>	<u>71.92</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>15.48</u>	<u>63.21</u>	<u>63.41</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>15.20</u>	<u>62.07</u>	<u>62.27</u>
18. UNIT FORCED OUTAGE RATE	<u>77.71</u>	<u>28.47</u>	<u>25.75</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:

June 9, 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. 50-270UNIT Oconee 2DATE 05/10/76**AVERAGE DAILY UNIT POWER LEVEL**MONTH April 1976**AVERAGE DAILY POWER LEVEL  
(MWe-net)**

1	<u>616</u>
2	<u>615</u>
3	<u>616</u>
4	<u>616</u>
5	<u>615</u>
6	<u>616</u>
7	<u>425</u>
8	<u>-</u>
9	<u>-</u>
10	<u>-</u>
11	<u>-</u>
12	<u>-</u>
13	<u>-</u>
14	<u>-</u>
15	<u>-</u>
16	<u>-</u>

**AVERAGE DAILY POWER LEVEL  
(MWe-net)**

17	<u>-</u>
18	<u>-</u>
19	<u>-</u>
20	<u>-</u>
21	<u>-</u>
22	<u>-</u>
23	<u>-</u>
24	<u>-</u>
25	<u>-</u>
26	<u>-</u>
27	<u>-</u>
28	<u>-</u>
29	<u>-</u>
30	<u>-</u>
31	<u>-</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. 50-270

UNIT NAME Oconee Unit 2

DATE 05/10/76

REPORT MONTH April 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
5	760407	F	558.72	A	1	<p>Inspection and repair of reactor internals.</p> <div> <div> <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> </div> <div> <p>(2) METHOD</p> <p>1-MANUAL</p> <p>2-MANUAL SCRAM</p> <p>3-AUTOMATIC SCRAM</p> </div> </div>

## SUMMARY:

Unit remained down at end of month for inspection and repair of reactor internals.



UNIT Oconee Unit 3  
DATE 05/10/76  
DOCKET NO. 50-287  
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1976

GROSS HOURS IN REPORTING PERIOD: 719.00

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
(MWe-Net): 871

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) NONE

4. REASONS FOR RESTRICTION (IF ANY) \_\_\_\_\_

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>320.65</u>	<u>2013.21</u>	<u>9157.47</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>307.11</u>	<u>1980.58</u>	<u>8929.28</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>677628</u>	<u>4507729</u>	<u>20425779</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>232060</u>	<u>1548220</u>	<u>6993134</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>217902</u>	<u>1474184</u>	<u>6652618</u>
12. REACTOR SERVICE FACTOR	<u>44.60</u>	<u>69.35</u>	<u>76.01</u>
13. REACTOR AVAILABILITY FACTOR	<u>42.71</u>	<u>68.42</u>	<u>78.09</u>
14. UNIT SERVICE FACTOR	<u>42.71</u>	<u>68.23</u>	<u>74.12</u>
15. UNIT AVAILABILITY FACTOR	<u>42.71</u>	<u>68.23</u>	<u>74.12</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>34.79</u>	<u>58.30</u>	<u>63.40</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>34.17</u>	<u>57.25</u>	<u>62.26</u>
18. UNIT FORCED OUTAGE RATE	<u>57.29</u>	<u>31.77</u>	<u>16.86</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)

September 1, 1976 - Refueling - 5 Weeks

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. 50-287UNIT Oconee 3DATE 05/10/76**AVERAGE DAILY UNIT POWER LEVEL**MONTH April 1976**DAY**      **AVERAGE DAILY POWER LEVEL**  
                  **(MWe-net)**

1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	-
14	-
15	-
16	-

**DAY**      **AVERAGE DAILY POWER LEVEL**  
                  **(MWe-net)**

17	-
18	544
19	689
20	386
21	689
22	732
23	751
24	778
25	745
26	783
27	739
28	771
29	789
30	788
31	-

**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 05/10/76

REPORT MONTH April 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
4	760401	F	405.78	H	1	Continuation of previous outage.
5	760420	F	6.11	G	3	Reactor trip on flux imbalance.
						<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>

## SUMMARY:

Unit shutdown for most of month for completion of reactor surveillance tubes inspection.