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TO: U.S. NRC

FROM: Duke Power CO.  
Charlotte, N.C.  
W. O. Parker Jr.

DATE OF DOCUMENT

7-9-76

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7-16-76

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DESCRIPTION

LETTER TRANS THE FOLLOWING:

ENCLOSURE

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

**ACKNOWLEDGED**

**DO NOT REMOVE**

PLANT NAME: Oconee#1,2 & 3

SAFETY

FOR ACTION/INFORMATION

ENVIRO

CRG 7-16-76

MIPC  
 W/4 CYS FOR ACTION

INTERNAL DISTRIBUTION

REG FILE  
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EXTERNAL DISTRIBUTION

LPDR: Walhalla, S.C.  
 TIC

CONTROL NUMBER

7153

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

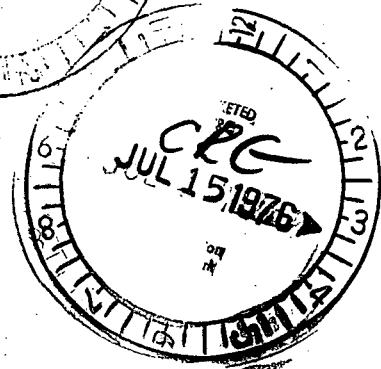
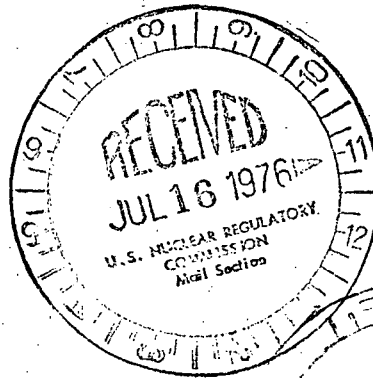
Regulatory

File 073

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

TELEPHONE: AREA 704  
373-4083

July 9, 1976



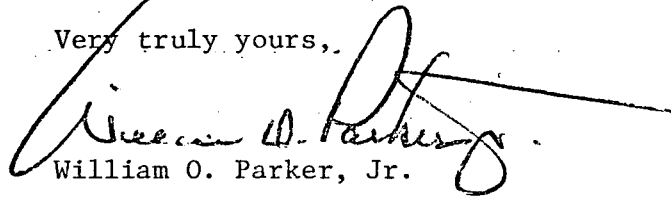
Director  
Office of Management Information  
and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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

Dear Sir:

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

Very truly yours,

  
William O. Parker, Jr.

EDB:vr  
Attachment

cc: Mr. Norman C. Moseley

7153

UNIT Oconee Unit 1  
 DATE 7/9/76  
 DOCKET NO. 50-269  
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: June 1 THROUGH June 30, 1976  
 GROSS HOURS IN REPORTING PERIOD: 720.00
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>716.1</u>      | <u>2059.0</u>       | <u>18831.1</u>    |
| 6. REACTOR RESERVE SHUTDOWN HOURS               | <u>-</u>          | <u>-</u>            | <u>-</u>          |
| 7. HOURS GENERATOR ON-LINE                      | <u>698.3</u>      | <u>1833.9</u>       | <u>16764.7</u>    |
| 8. UNIT RESERVE SHUTDOWN HOURS                  | <u>-</u>          | <u>-</u>            | <u>-</u>          |
| 9. GROSS THERMAL ENERGY GENERATED (MWH)         | <u>1680737</u>    | <u>4297366</u>      | <u>38521508</u>   |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH)     | <u>598510</u>     | <u>1504760</u>      | <u>13399480</u>   |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH)       | <u>570643</u>     | <u>1412757</u>      | <u>12651406</u>   |
| 12. REACTOR SERVICE FACTOR                      | <u>99.5</u>       | <u>47.2</u>         | <u>72.6</u>       |
| 13. REACTOR AVAILABILITY FACTOR                 | <u>97.9</u>       | <u>44.0</u>         | <u>65.9</u>       |
| 14. UNIT SERVICE FACTOR                         | <u>97.0</u>       | <u>42.0</u>         | <u>64.6</u>       |
| 15. UNIT AVAILABILITY FACTOR                    | <u>97.0</u>       | <u>42.0</u>         | <u>64.7</u>       |
| 16. UNIT CAPACITY FACTOR (Using Net Capability) | <u>91.0</u>       | <u>37.1</u>         | <u>56.0</u>       |
| 17. UNIT CAPACITY FACTOR (Using Design Mwe)     | <u>89.4</u>       | <u>36.5</u>         | <u>55.0</u>       |
| 18. UNIT FORCED OUTAGE RATE                     | <u>3.0</u>        | <u>5.5</u>          | <u>15.6</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:

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

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

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

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

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

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

UNIT SHUTDOWNS

DOCKET NO. 50-269

UNIT NAME Oconee Unit 1

DATE 7/9/76

REPORT MONTH June, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
5	760608	F	11.00	H	1	Group 5 control rods dropped during testing
6	760621	F	6.28	A	1	Oil leak on the supply to #12 alterex bearing
7	760627	F	4.44	A	3	Failure of Reactor Coolant System flow indicator

(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.

DOCKET NO. 50-269  
UNIT Oconee Unit 1  
DATE 7/9/76

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH June, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>680</u>	17	<u>857</u>
2	<u>822</u>	18	<u>854</u>
3	<u>785</u>	19	<u>855</u>
4	<u>852</u>	20	<u>853</u>
5	<u>853</u>	21	<u>501</u>
6	<u>855</u>	22	<u>707</u>
7	<u>852</u>	23	<u>839</u>
8	<u>787</u>	24	<u>851</u>
9	<u>333</u>	25	<u>849</u>
10	<u>784</u>	26	<u>851</u>
11	<u>843</u>	27	<u>559</u>
12	<u>849</u>	28	<u>778</u>
13	<u>860</u>	29	<u>838</u>
14	<u>861</u>	30	<u>850</u>
15	<u>859</u>	31	<u>-</u>
16	<u>858</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 Oconee Unit 2  
 DATE 7/9/76  
 DOCKET NO. 50-270  
 PREPARED BY E. D. Blakeman

OPERATING STATUS

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

GROSS HOURS IN REPORTING PERIOD: 720.00

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>0</u>	<u>2112.4</u>	<u>10671.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>0</u>	<u>2076.5</u>	<u>10356.0</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>0</u>	<u>4922491</u>	<u>24594919</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>0</u>	<u>1678100</u>	<u>8378656</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>-(2307)</u>	<u>1594674</u>	<u>7949825</u>
12. REACTOR SERVICE FACTOR	<u>0</u>	<u>48.4</u>	<u>67.3</u>
13. REACTOR AVAILABILITY FACTOR	<u>0</u>	<u>47.7</u>	<u>65.8</u>
14. UNIT SERVICE FACTOR	<u>0</u>	<u>47.6</u>	<u>65.3</u>
15. UNIT AVAILABILITY FACTOR	<u>0</u>	<u>47.6</u>	<u>65.3</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>0</u>	<u>41.9</u>	<u>57.5</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>0</u>	<u>41.2</u>	<u>56.5</u>
18. UNIT FORCED OUTAGE RATE	<u>0</u>	<u>36.4</u>	<u>27.6</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:

July 11, 1976

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

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

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

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

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

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

UNIT SHUTDOWNS

DOCKET NO. 50-270

UNIT NAME Oconee Unit 2

DATE 7/9/76

REPORT MONTH June, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
6	760601	S	720	C	1	Continuation of previous 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:

Reactor remained shut down for refueling outage.

DOCKET NO. 50-270  
 UNIT Oconee Unit 2  
 DATE 7/6/76

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH June, 1976

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

**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 Oconee Unit 3  
 DATE 7/9/76  
 DOCKET NO. 50-287  
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: June 1 THROUGH June 30, 1976  
 GROSS HOURS IN REPORTING PERIOD: 720.00
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) \_\_\_\_\_
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:)  
September 1, 1976 - Refueling (5 weeks)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

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

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

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

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

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

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

UNIT SHUTDOWNS

DOCKET NO. 50-287

UNIT NAME Oconee Unit 3

DATE 7/9/76

REPORT MONTH June, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <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> </div> <div style="width: 35%;"> <p>(2) METHOD                      1-MANUAL                      2-MANUAL                          SCRAM                      3-AUTOMATIC                          SCRAM</p> </div> </div>						

SUMMARY:

No outages this month.

DOCKET NO. 50-287UNIT Oconee Unit 3DATE 7/9/76

## AVERAGE DAILY UNIT POWER LEVEL

MONTH June, 1976DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	<u>853</u>
2	<u>859</u>
3	<u>857</u>
4	<u>856</u>
5	<u>858</u>
6	<u>858</u>
7	<u>858</u>
8	<u>857</u>
9	<u>845</u>
10	<u>856</u>
11	<u>855</u>
12	<u>856</u>
13	<u>858</u>
14	<u>858</u>
15	<u>847</u>
16	<u>790</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	<u>854</u>
18	<u>858</u>
19	<u>856</u>
20	<u>854</u>
21	<u>853</u>
22	<u>854</u>
23	<u>857</u>
24	<u>859</u>
25	<u>858</u>
26	<u>854</u>
27	<u>849</u>
28	<u>838</u>
29	<u>850</u>
30	<u>844</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.