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MONTHLY REPORT

TO: U.S. NRC

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

DATE OF DOCUMENT
7-9-76

DATE RECEIVED
7-16-76

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DESCRIPTION
LETTER TRANS THE FOLLOWING:
PLANT & COMPONENT OPERABILITY & AVAILABILITY.

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

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DUKE POWER COMPANY

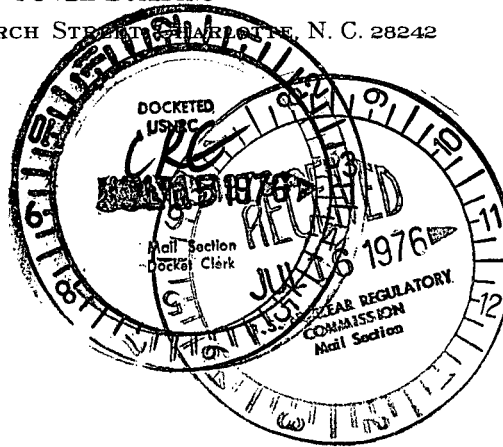
POWER BUILDING

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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

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.
 William O. Parker, Jr.

EDB:vr
Attachment

cc: Mr. Norman C. Moseley

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:

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

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

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

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

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

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

DOCKET NO. 50-269

UNIT SHUTDOWNS

UNIT NAME Oconee Unit 1DATE 7/9/76REPORT 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
<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:

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

AVERAGE DAILY POWER LEVEL (MWe-net)		AVERAGE DAILY POWER LEVEL (MWe-net)	
DAY		DAY	
1	680	17	857
2	822	18	854
3	785	19	855
4	852	20	853
5	853	21	501
6	855	22	707
7	852	23	839
8	787	24	851
9	333	25	849
10	784	26	851
11	843	27	559
12	849	28	778
13	860	29	838
14	861	30	850
15	859	31	-
16	858		

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 Ocohee 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) _____

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>720.0</u>	<u>3477.2</u>	<u>10621.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>720.0</u>	<u>3444.6</u>	<u>10393.3</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1841499</u>	<u>8252928</u>	<u>24170978</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>639600</u>	<u>2847240</u>	<u>8292154</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>613377</u>	<u>2719856</u>	<u>7898290</u>
12. REACTOR SERVICE FACTOR	<u>100.0</u>	<u>79.6</u>	<u>78.6</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>79.0</u>	<u>80.5</u>
14. UNIT SERVICE FACTOR	<u>100.0</u>	<u>78.9</u>	<u>76.9</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0</u>	<u>78.9</u>	<u>76.9</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>97.8</u>	<u>71.5</u>	<u>67.1</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>96.0</u>	<u>70.2</u>	<u>65.9</u>
18. UNIT FORCED OUTAGE RATE	<u>0</u>	<u>21.1</u>	<u>14.8</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)	<u>September 1, 1976 - Refueling (5 weeks)</u>		
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 data-bbox="1325 974 1767 1266"> <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 data-bbox="1767 974 2007 1136"> <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, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>853</u>	17	<u>854</u>
2	<u>859</u>	18	<u>858</u>
3	<u>857</u>	19	<u>856</u>
4	<u>856</u>	20	<u>854</u>
5	<u>858</u>	21	<u>853</u>
6	<u>858</u>	22	<u>854</u>
7	<u>858</u>	23	<u>857</u>
8	<u>857</u>	24	<u>859</u>
9	<u>845</u>	25	<u>858</u>
10	<u>856</u>	26	<u>854</u>
11	<u>855</u>	27	<u>849</u>
12	<u>856</u>	28	<u>838</u>
13	<u>858</u>	29	<u>850</u>
14	<u>858</u>	30	<u>844</u>
15	<u>847</u>	31	<u>-</u>
16	<u>790</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.

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