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FROM: Duke Power Co.  
Charlotte, N.C.  
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## DESCRIPTION

LETTER TRANS THE FOLLOWING:

## ENCLOSURE

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

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: Ocone # 1,2, &amp; 3

SAFETY

FOR ACTION/INFORMATION

ENVIRO

SAB 4-13-76

MIPC

W/4 CYS FOR ACTION

## INTERNAL DISTRIBUTION

REG FILE

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LPDR: Walhalla, S.C.

TIC

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3712

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

April 9, 1976

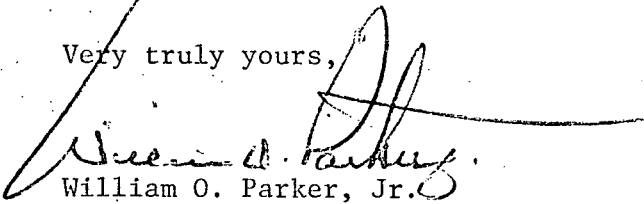
Director  
Office of Management Information  
and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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

Dear Sir:

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

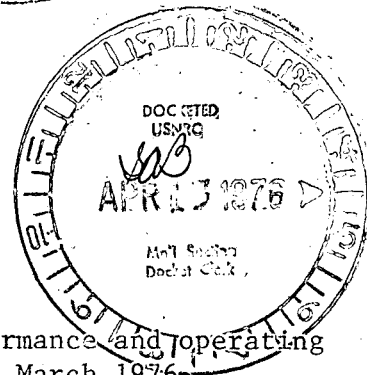
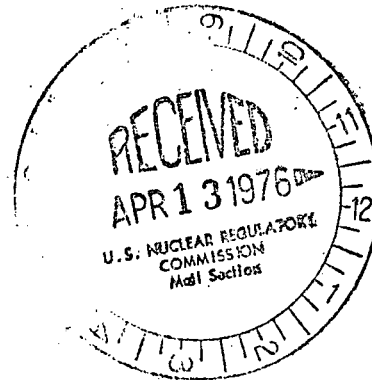
Very truly yours,

  
William O. Parker, Jr.

EDB:mmb

Attachment

CC Mr. Norman C. Moseley



3712

UNIT Oconee Unit 1  
 DATE 04/09/76  
 DOCKET NO. 50-269  
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1976  
 GROSS HOURS IN REPORTING PERIOD: 744.00
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
 

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>-0-</u>	<u>828.9</u>	<u>1759.6</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>-0-</u>	<u>2084465</u>	<u>36308607</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>-0-</u>	<u>712180</u>	<u>12606900</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>(-)4969</u>	<u>671195</u>	<u>11909844</u>
12. REACTOR SERVICE FACTOR	<u>1.3</u>	<u>41.4</u>	<u>74.4</u>
13. REACTOR AVAILABILITY FACTOR	<u>-0-</u>	<u>41.7</u>	<u>67.7</u>
14. UNIT SERVICE FACTOR	<u>-0-</u>	<u>38.0</u>	<u>66.3</u>
15. UNIT AVAILABILITY FACTOR	<u>-0-</u>	<u>38.0</u>	<u>66.5</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>-0-</u>	<u>35.3</u>	<u>57.6</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>-0-</u>	<u>34.7</u>	<u>56.6</u>
18. UNIT FORCED OUTAGE RATE	<u>-0-</u>	<u>9.0</u>	<u>16.4</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:

Unit became critical on March 31, 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 04/09/76

## AVERAGE DAILY UNIT POWER LEVEL

MONTH March 1976DAY 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	-
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. 50-269UNIT NAME Oconee Unit 1

DATE 04/09/76

REPORT MONTH March 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
2	760301	S	744	C	1	Continuation of previous outage
						<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:**

Reactor remained shutdown for refueling. Reactor made critical March 31, 1976.

UNIT Oconee Unit 2  
DATE 04/09/76  
DOCKET NO. 50-270  
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1976  
GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 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

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>744.0</u>	<u>1916.3</u>	<u>10195.7</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1755743</u>	<u>4624626</u>	<u>24297054</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>598960</u>	<u>1574400</u>	<u>8274956</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>572700</u>	<u>1501397</u>	<u>7856548</u>
12. REACTOR SERVICE FACTOR	<u>100.0</u>	<u>89.1</u>	<u>76.8</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>88.1</u>	<u>75.1</u>
14. UNIT SERVICE FACTOR	<u>100.0</u>	<u>87.7</u>	<u>74.5</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0</u>	<u>87.7</u>	<u>74.5</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>88.4</u>	<u>78.9</u>	<u>65.9</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>86.8</u>	<u>77.5</u>	<u>64.7</u>
18. UNIT FORCED OUTAGE RATE	<u>-</u>	<u>12.2</u>	<u>22.9</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. 50-270UNIT Oconee Unit 2DATE 04/09/76

## AVERAGE DAILY UNIT POWER LEVEL

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

1	<u>601</u>
2	<u>692</u>
3	<u>819</u>
4	<u>823</u>
5	<u>817</u>
6	<u>662</u>
7	<u>686</u>
8	<u>831</u>
9	<u>830</u>
10	<u>830</u>
11	<u>828</u>
12	<u>829</u>
13	<u>831</u>
14	<u>833</u>
15	<u>834</u>
16	<u>833</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	<u>833</u>
18	<u>835</u>
19	<u>834</u>
20	<u>831</u>
21	<u>830</u>
22	<u>831</u>
23	<u>829</u>
24	<u>830</u>
25	<u>829</u>
26	<u>743</u>
27	<u>608</u>
28	<u>616</u>
29	<u>614</u>
30	<u>616</u>
31	<u>616</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 04/09/76

REPORT MONTH March 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
						<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:

No outages this month. Unit operated at reduced power level (3 RCP operation) during latter part of month due to low oil level in RCP motor.



UNIT Connee Unit 3  
 DATE 04/09/76  
 DOCKET NO. 50-287  
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1976  
 GROSS HOURS IN REPORTING PERIOD: 744.00
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
 

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>413.0</u>	<u>1673.5</u>	<u>8622.2</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>945930</u>	<u>3830101</u>	<u>19748151</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>322590</u>	<u>1316160</u>	<u>6761074</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>305928</u>	<u>1256282</u>	<u>6434716</u>
12. REACTOR SERVICE FACTOR	<u>56.4</u>	<u>77.5</u>	<u>78.0</u>
13. REACTOR AVAILABILITY FACTOR	<u>55.5</u>	<u>76.9</u>	<u>80.3</u>
14. UNIT SERVICE FACTOR	<u>55.5</u>	<u>76.6</u>	<u>76.1</u>
15. UNIT AVAILABILITY FACTOR	<u>55.5</u>	<u>76.6</u>	<u>76.1</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>47.2</u>	<u>66.0</u>	<u>65.2</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>46.4</u>	<u>64.9</u>	<u>64.0</u>
18. UNIT FORCED OUTAGE RATE	<u>44.5</u>	<u>23.4</u>	<u>14.0</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:

April 19, 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 04/09/76

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH March 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	-
2	-
3	154
4	624
5	674
6	674
7	677
8	809
9	807
10	810
11	805
12	794
13	792
14	792
15	792
16	789

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
17	786
18	786
19	785
20	478
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. 50-287

UNIT NAME Oconee Unit 3

DATE 04/09/76

REPORT MONTH March 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	760301	F	59.13	A	1	Continuation of previous outage.
4	760320	F	271.87	H	1	Unit shutdown for inspection of specimen surveillance tubes.
						<div> <div>(1) REASON</div> <div> 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) </div> </div> <div> <div>(2) METHOD</div> <div> 1-MANUAL  2-MANUAL  SCRAM  3-AUTOMATIC  SCRAM </div> </div>

## SUMMARY:

Replacement of reactor coolant pump seals completed. Reactor remained shutdown at end of month for inspection of surveillance tubes.