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MONTHLY REPORT

TO: USNRC

FROM: DUKE PWR. CO.  
CHARLOTTE, N.C.  
W.O. PARKER, JR.

DATE OF DOCUMENT  
11-10-76

DATE RECEIVED  
11-15-76

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DESCRIPTION

LTR. TRANS THE FOLLOWING.....

ENCLOSURE

CORRECTED CY. OF MONTHLY OPERATING REPORT FOR  
OCTOBER 1976.....

**ACKNOWLEDGED  
DO NOT REMOVE**

PLANT NAME: OCONEE # 1,2, & 3

SAFETY

FOR ACTION/INFORMATION

ENVIRO

SAB 11-17-76

MIPC  
W/4 CYS FOR ACTION

INTERNAL DISTRIBUTION

~~REG FILE~~  
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EXTERNAL DISTRIBUTION

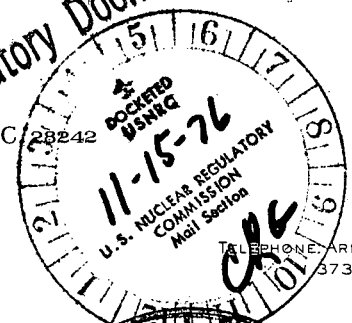
CONTROL NUMBER

LPDR: WALHALLA, S.C.  
 TIC  
 NSIC

11650

DUKE POWER COMPANY  
POWER BUILDING  
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

Regulatory Docket File

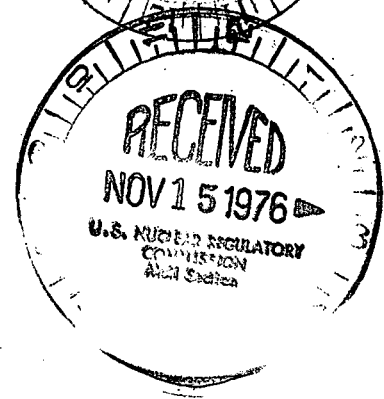


TELEPHONE AREA 704 373-4083

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

November 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

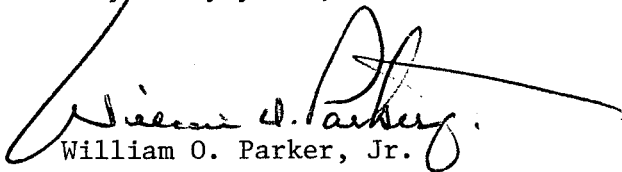
Dear Sir:

Please find attached information concerning the performance and operating status of the Oconee Nuclear Station for the month of 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) \_\_\_\_\_

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	726.1	4953.4	21725.5
6. REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7. HOURS GENERATOR ON-LINE	718.6	4681.9	19612.7
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	1768878	11314532	45538674
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	608270	3941570	15836290
11. NET ELECTRICAL ENERGY GENERATED (MWH)	578451	3732253	14970902
12. REACTOR SERVICE FACTOR	97.5	67.7	75.2
13. REACTOR AVAILABILITY FACTOR	96.5	65.2	69.0
14. UNIT SERVICE FACTOR	96.5	64.00	67.9
15. UNIT AVAILABILITY FACTOR	96.5	64.00	68.0
16. UNIT CAPACITY FACTOR (Using Net Capability)	89.1	58.6	59.5
17. UNIT CAPACITY FACTOR (Using Design Mwe)	87.5	57.5	58.4
18. UNIT FORCED OUTAGE RATE	3.6	3.8	14.0

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) \_\_\_\_\_

	<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 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	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

**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

- |  |   |
|--|---|
| <p><b>(1) REASON</b><br/> A-EQUIPMENT FAILURE (EXPLAIN)<br/> B-MAINT. OR TEST.<br/> C-REFUELING<br/> D-REGULATORY RESTRICTION<br/> E-OPERATOR TRAINING AND<br/>   LICENSE EXAMINATION<br/> F-ADMINISTRATIVE<br/> G-OPERATIONAL ERROR<br/>   (EXPLAIN)<br/> H-OTHER (EXPLAIN)</p> | <p><b>(2) METHOD</b><br/> 1-MANUAL<br/> 2-MANUAL<br/>   SCRAM<br/> 3-AUTOMATIC<br/>   SCRAM</p> |
|--|---|

**SUMMARY:**

Unit in refueling shutdown for entire month of October.