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FROM: Duke Power co. Charlotte, N.C. William O. Parker, Jr.			DATE OF DOC 1-6-76	DATE REC'D 1-12-76	LTR XXX	TWX	RPT	OTHER
TO: NRC			ORIG 1 Signed	CC 0	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-269/270(287)		

## DESCRIPTION:

Ltr trans the following:

## ENCLOSURES:

Monthly Report for December 1975  
Plant & Component Operability & Availability  
This Report to be used in preparing Gray Book  
by Plans & Operations.

NUMBER OF COPIES REC'D: 1

PLANT NAME: Oconee 1,2 &amp; 3

## FOR ACTION/INFORMATION

SAB 1-12-76

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<u>REG FILE</u> NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE GIAMBUSSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) STEELE	<u>TECH REVIEW</u> SCHROEDER MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	DENTON GRIMES GAMMILL KASTNER BALLARD SPANGLER  <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	<u>LIC ASST</u> R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. RUSHBROCK (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (E)	<u>A/T IND.</u> BRAITMAN SALTZMAN MELTZ  <u>PLANS</u> MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON
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1 - ACRS HOLDING/SENT		

DUKE POWER COMPANY

POWER BUILDING

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

Regulatory

File Cy.

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

TELEPHONE: AREA 704  
373-4083

January 8, 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 December 1975.

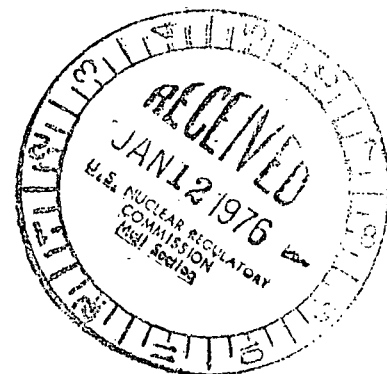
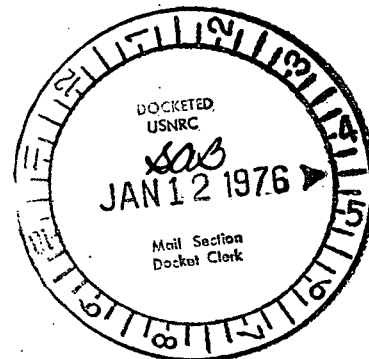
Very truly yours,

*W. O. Parker, Jr.*  
William O. Parker, Jr.

EDB:mmb

Attachment

CC Mr. Norman C. Moseley



OPERATING STATUS

1. REPORTING PERIOD: December 1 THROUGH December 31, 1975  
 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>- 0 -</u>	<u>- 0 -</u>	<u>- 0 -</u>
7. HOURS GENERATOR ON-LINE	<u>685.0</u>	<u>6676.4</u>	<u>14930.7</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>- 0 -</u>	<u>- 0 -</u>	<u>- 0 -</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1586203</u>	<u>15986632</u>	<u>34224142</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>558600</u>	<u>5576020</u>	<u>11894720</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>531332</u>	<u>5285630</u>	<u>11238649</u>
12. REACTOR SERVICE FACTOR	<u>95.6</u>	<u>79.6</u>	<u>77.7</u>
13. REACTOR AVAILABILITY FACTOR	<u>92.1</u>	<u>76.7</u>	<u>70.3</u>
14. UNIT SERVICE FACTOR	<u>92.1</u>	<u>76.2</u>	<u>69.2</u>
15. UNIT AVAILABILITY FACTOR	<u>92.1</u>	<u>76.2</u>	<u>69.3</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>82.0</u>	<u>69.3</u>	<u>59.8</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>80.5</u>	<u>68.0</u>	<u>58.7</u>
18. UNIT FORCED OUTAGE RATE	<u>4.1</u>	<u>21.7</u>	<u>16.7</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)  
Refueling, February 1, 1976 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. 50-269

## UNIT SHUTDOWNS

UNIT NAME Oconee Unit 1DATE January 8, 1976REPORT MONTH December 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
17	751205	S	29.45	B	1	Changed oil in reactor coolant pumps. Added oil to 1B2 reactor coolant pump motor.
18	751210	F	29.53	A	1	Replaced failed control rod drive stator.
<div><div>(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)</div><div>(2) METHOD 1-MANUAL 2-MANUAL   SCRAM 3-AUTOMATIC   SCRAM</div></div>						

## SUMMARY:

No major outages during December.

DOCKET NO. 50-269UNIT Oconee Unit 1DATE January 8, 1976

## AVERAGE DAILY UNIT POWER LEVEL

MONTH December 1975DAY / AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	<u>652</u>
2	<u>651</u>
3	<u>651</u>
4	<u>649</u>
5	<u>573</u>
6	<u>-0-</u>
7	<u>333</u>
8	<u>777</u>
9	<u>857</u>
10	<u>561</u>
11	<u>-0-</u>
12	<u>536</u>
13	<u>688</u>
14	<u>842</u>
15	<u>859</u>
16	<u>858</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	<u>859</u>
18	<u>859</u>
19	<u>819</u>
20	<u>858</u>
21	<u>859</u>
22	<u>853</u>
23	<u>846</u>
24	<u>846</u>
25	<u>840</u>
26	<u>842</u>
27	<u>847</u>
28	<u>848</u>
29	<u>845</u>
30	<u>840</u>
31	<u>840</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 January 8, 1976  
 DOCKET NO. 50-270  
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: December 1 THROUGH December 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>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>744.0</u>	<u>6612.9</u>	<u>8559.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
7. HOURS GENERATOR ON-LINE	<u>744.0</u>	<u>6404.1</u>	<u>8279.6</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1891179</u>	<u>15365531</u>	<u>19672428</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>649350</u>	<u>5231580</u>	<u>6700556</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>622223</u>	<u>4967625</u>	<u>6355151</u>
12. REACTOR SERVICE FACTOR	<u>100.0</u>	<u>75.5</u>	<u>74.5</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>73.8</u>	<u>72.7</u>
14. UNIT SERVICE FACTOR	<u>100.0</u>	<u>73.1</u>	<u>72.0</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0</u>	<u>73.1</u>	<u>72.0</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>96.0</u>	<u>65.1</u>	<u>63.4</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>94.3</u>	<u>63.9</u>	<u>62.3</u>
18. UNIT FORCED OUTAGE RATE	<u>-0-</u>	<u>23.0</u>	<u>25.0</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)  
Refueling, May 3, 1976 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. 50-270

UNIT NAME Oconee Unit 2

DATE January 8, 1975

REPORT MONTH December 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
						<div> <div> (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) </div> <div> (2) METHOD  1-MANUAL  2-MANUAL  SCRAM  3-AUTOMATIC  SCRAM </div> </div>

## SUMMARY:

No outages this month.

DOCKET NO. 50-270UNIT Oconee Unit 2DATE January 8, 1976

## AVERAGE DAILY UNIT POWER LEVEL

MONTH December 1975DAY / AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	846
2	846
3	845
4	842
5	840
6	844
7	846
8	844
9	842
10	834
11	841
12	836
13	840
14	834
15	836
16	838

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	837
18	822
19	757
20	835
21	840
22	838
23	836
24	838
25	838
26	836
27	837
28	835
29	835
30	843
31	845

## 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.



OPERATING STATUS

1. REPORTING PERIOD: December 1 THROUGH December 31, 1975  
GROSS HOURS IN REPORTING PERIOD: 744.0
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:

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

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

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

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

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

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

## UNIT SHUTDOWNS

DOCKET NO. 50-287UNIT NAME Oconee Unit 3DATE January 8, 1976REPORT MONTH December 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
22	751219	S	16.83	B	1	Repaired feedwater valve leaks in Reactor Building.
<div><div>(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)</div><div>(2) METHOD 1-MANUAL 2-MANUAL SCRAM 3-AUTOMATIC SCRAM</div></div>						

## SUMMARY:

No major outages during December.

DOCKET NO. 50-287UNIT Oconee Unit 3DATE January 8, 1976

## AVERAGE DAILY UNIT POWER LEVEL

MONTH December 1975DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	845
2	840
3	839
4	839
5	839
6	840
7	839
8	841
9	840
10	838
11	837
12	837
13	840
14	842
15	840
16	840

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	841
18	842
19	752
20	106
21	678
22	799
23	847
24	845
25	845
26	843
27	843
28	839
29	843
30	840
31	652

## 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.