

50-269/270/287

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FILE NUMBER

MONTHLY REPORT

TO: NRC

FROM: DUKE POWER CO
CHARLOTTE, NC
W O PARKER, JR

DATE OF DOCUMENT

3-9-76

DATE RECEIVED

3-18-76

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DESCRIPTION
LETTER TRANS THE FOLLOWING:

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

PLANT NAME: Oconee 1-2-3

SAFETY

FOR ACTION/INFORMATION

ENVIRO

3-18-76

MIPC
W/4 CYS FOR ACTION

INTERNAL DISTRIBUTION

REG FILE
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LPDR: WALTHALLA, SC
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CONTROL NUMBER

2702

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

March 9, 1976

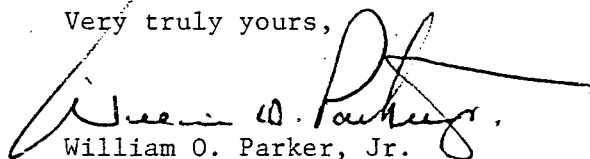
Director
Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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 February 1976.

Very truly yours,


William O. Parker, Jr.

EDB:mmb

Attachment

CC Mr. Norman C. Moseley

UNIT Oconee Unit 1
 DATE 03/09/76
 DOCKET NO. 50-269
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: February 1 THROUGH February 29, 1976
 GROSS HOURS IN REPORTING PERIOD: 696.00
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:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
March 30, 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. 50-269
 UNIT Oconee Unit 1
 DATE 03/09/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH February 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	836	17	-
2	831	18	-
3	831	19	-
4	829	20	-
5	828	21	-
6	828	22	-
7	773	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 2
 DATE 03/09/76
 DOCKET NO. 50-270
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: February 1 THROUGH February 29, 1976
 GROSS HOURS IN REPORTING PERIOD: 696.00
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	-	-	-
7. HOURS GENERATOR ON-LINE	454.8	1172.3	9451.7
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	1085524	2868883	22541311
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	367500	975440	7675996
11. NET ELECTRICAL ENERGY GENERATED (MWH)	347852	928697	7283848
12. REACTOR SERVICE FACTOR	67.0	83.5	75.5
13. REACTOR AVAILABILITY FACTOR	65.3	82.0	73.7
14. UNIT SERVICE FACTOR	65.3	81.4	73.1
15. UNIT AVAILABILITY FACTOR	65.3	81.4	73.1
16. UNIT CAPACITY FACTOR (Using Net Capability)	57.4	74.0	64.6
17. UNIT CAPACITY FACTOR (Using Design Mwe)	56.3	72.7	63.5
18. UNIT FORCED OUTAGE RATE	34.7	18.6	24.3
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:

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

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

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

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

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

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

DOCKET NO. 50-270

UNIT Oconee Unit 2

DATE 03/09/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH February 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>841</u>	17	<u>-</u>
2	<u>840</u>	18	<u>-</u>
3	<u>840</u>	19	<u>-</u>
4	<u>841</u>	20	<u>-</u>
5	<u>841</u>	21	<u>-</u>
6	<u>839</u>	22	<u>-</u>
7	<u>840</u>	23	<u>551</u>
8	<u>836</u>	24	<u>701</u>
9	<u>834</u>	25	<u>767</u>
10	<u>835</u>	26	<u>788</u>
11	<u>836</u>	27	<u>41</u>
12	<u>835</u>	28	<u>-</u>
13	<u>786</u>	29	<u>639</u>
14	<u>235</u>	30	<u>-</u>
15	<u>-</u>	31	<u>-</u>
16	<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.

UNIT SHUTDOWNS

DOCKET NO. 50-270

UNIT NAME Oconee Unit 2

DATE 03/09/76

REPORT MONTH February 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	760214	F	201.08	A	1	Reactor shutdown for replacement of reactor coolant pump seals and a control rod drive stator.
4	760227	F	40.12	A	1	Replaced control rod drive stator.

(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: Unit was base-loaded during the month.

UNIT Oconee Unit 3
 DATE 03/09/76
 DOCKET NO. 50-287
 PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: February 1 THROUGH February 29, 1976
 GROSS HOURS IN REPORTING PERIOD: 696.00
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:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>544.6</u>	<u>1271.6</u>	<u>8416.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>543.0</u>	<u>1260.5</u>	<u>8209.2</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1134700</u>	<u>2884171</u>	<u>18802221</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>392830</u>	<u>993570</u>	<u>6438484</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>375429</u>	<u>950354</u>	<u>6128788</u>
12. REACTOR SERVICE FACTOR	<u>78.3</u>	<u>88.4</u>	<u>79.5</u>
13. REACTOR AVAILABILITY FACTOR	<u>78.0</u>	<u>87.9</u>	<u>82.1</u>
14. UNIT SERVICE FACTOR	<u>78.0</u>	<u>87.5</u>	<u>77.6</u>
15. UNIT AVAILABILITY FACTOR	<u>78.0</u>	<u>87.5</u>	<u>77.6</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>61.9</u>	<u>75.8</u>	<u>66.5</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>60.8</u>	<u>74.4</u>	<u>65.3</u>
18. UNIT FORCED OUTAGE RATE	<u>22.0</u>	<u>12.5</u>	<u>11.5</u>

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

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

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

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

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

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

DOCKET NO. 50-287

UNIT Oconee Unit 3

DATE 03/09/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH February 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>736</u>	17	<u>625</u>
2	<u>844</u>	18	<u>624</u>
3	<u>847</u>	19	<u>624</u>
4	<u>845</u>	20	<u>622</u>
5	<u>845</u>	21	<u>617</u>
6	<u>834</u>	22	<u>618</u>
7	<u>837</u>	23	<u>346</u>
8	<u>755</u>	24	<u>-</u>
9	<u>639</u>	25	<u>-</u>
10	<u>639</u>	26	<u>-</u>
11	<u>632</u>	27	<u>-</u>
12	<u>631</u>	28	<u>-</u>
13	<u>629</u>	29	<u>-</u>
14	<u>630</u>	30	<u>-</u>
15	<u>630</u>	31	<u>-</u>
16	<u>630</u>		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

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UNIT SHUTDOWNS

DOCKET NO. 50-287

UNIT NAME Oconee Unit 3

DATE 03/09/76

REPORT MONTH February 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	760223	F	153	A	1	Reactor shutdown for replacement of reactor coolant pump seals. (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:

Unit was base-loaded during the month.