

50-269/270/287

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

MONTHLY REPORT

TO:

N. R. C.

FROM:

DUKE POWER COMPANY
CHARLOTTE, NORTH CAROLINA
MR. WILLIAM O. PARKER, JR.

DATE OF DOCUMENT

6/10/76

DATE RECEIVED

6/14/76

☒ LETTER
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DESCRIPTION

LETTER TRANS THE FOLLOWING:

PLANT NAME:

OCONEE 1-2-3

(1-P)

ENCLOSURE

MONTHLY REPORT FOR MAY/76
PLANT & COMPONENT OPERABILITY &
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

9-P)

SAFETY

FOR ACTION/INFORMATION

ENVIRO

6/15/76

RJL

☒ MIPC
W/4 CYS FOR ACTION

INTERNAL DISTRIBUTION

☒ REG FILE
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EXTERNAL DISTRIBUTION

☒ LPDR: WALHALLA, S.C.
☒ TIC
☒ NSIC

CONTROL NUMBER

6064

DUKE POWER COMPANY

POWER BUILDING

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

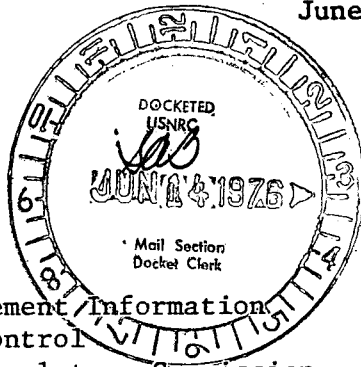
Regulatory

File 674

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

June 10, 1976

TELEPHONE: AREA 704
373-4083



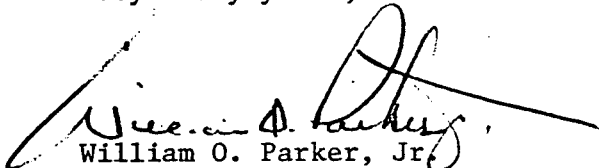
Director
Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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 June 1976.

Very truly yours,


William O. Parker, Jr.

EDB:ge
Attachment

cc: Mr. Norman C. Moseley

6064

UNIT Oconee Unit 1
DATE 6/10/76
DOCKET NO. 50-269
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1976
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) 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>19.7</u>	<u>1342.9</u>	<u>18115.0</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>5.6</u>	<u>1135.6</u>	<u>16066.4</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>3534</u>	<u>2616629</u>	<u>36840771</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>1140</u>	<u>906250</u>	<u>12800970</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>-4691</u>	<u>842114</u>	<u>12080763</u>
12. REACTOR SERVICE FACTOR	<u>2.6</u>	<u>36.8</u>	<u>71.8</u>
13. REACTOR AVAILABILITY FACTOR	<u>.8</u>	<u>33.4</u>	<u>64.9</u>
14. UNIT SERVICE FACTOR	<u>.8</u>	<u>31.1</u>	<u>63.7</u>
15. UNIT AVAILABILITY FACTOR	<u>.8</u>	<u>31.1</u>	<u>63.8</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>-</u>	<u>26.5</u>	<u>55.0</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>-</u>	<u>26.0</u>	<u>54.0</u>
18. UNIT FORCED OUTAGE RATE	<u>26.7</u>	<u>6.9</u>	<u>16.1</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. 50-269UNIT Oconee Unit 1DATE 6/10/76**AVERAGE DAILY UNIT POWER LEVEL**MONTH May, 1976**DAY** **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	12

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 6/10/76

REPORT MONTH May, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	760501	S	736.47	A	1	Continuation of previous outage
4	760531	F	1.97	H	3	Reactor trip due to high Reactor Coolant System pressure
						<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:

Inspection and repair of reactor internals completed.

UNIT Oconee Unit 2
DATE 6/10/76
DOCKET NO. 50-270
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1976
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) 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>-</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>-</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>-</u>	<u>4922491</u>	<u>24594919</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>-</u>	<u>1678100</u>	<u>8378656</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>-1343</u>	<u>1596981</u>	<u>7952132</u>
12. REACTOR SERVICE FACTOR	<u>-</u>	<u>57.9</u>	<u>70.5</u>
13. REACTOR AVAILABILITY FACTOR	<u>-</u>	<u>57.2</u>	<u>68.9</u>
14. UNIT SERVICE FACTOR	<u>-</u>	<u>56.9</u>	<u>68.4</u>
15. UNIT AVAILABILITY FACTOR	<u>-</u>	<u>56.9</u>	<u>68.4</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>-</u>	<u>50.3</u>	<u>60.3</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>-</u>	<u>49.4</u>	<u>59.2</u>
18. UNIT FORCED OUTAGE RATE	<u>100.00</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:
June 28, 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. 50-270UNIT Oconee Unit 2DATE 6/10/76**AVERAGE DAILY UNIT POWER LEVEL**MONTH May, 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 SHUTDOWNS

DOCKET NO. 50-270

UNIT NAME Oconee Unit 2

DATE 6/10/76

REPORT MONTH May, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
5	760501	F	360.0	A	1	Continuation of previous outage
6	760515	S	384.0	C	1	Refueling 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:

Inspection and repair of reactor internals completed. Reactor remained shutdown for refueling.

UNIT Oconee Unit 3
DATE 6/10/76
DOCKET NO. 50-287
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1976
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) 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>2757.2</u>	<u>9901.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>744.0</u>	<u>2724.6</u>	<u>9673.3</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1903700</u>	<u>6411429</u>	<u>22329479</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>659420</u>	<u>2207640</u>	<u>7652554</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>632295</u>	<u>2106479</u>	<u>7284913</u>
12. REACTOR SERVICE FACTOR	<u>100.0</u>	<u>75.6</u>	<u>77.4</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>74.9</u>	<u>79.4</u>
14. UNIT SERVICE FACTOR	<u>100.0</u>	<u>74.7</u>	<u>75.6</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0</u>	<u>74.7</u>	<u>75.6</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>97.6</u>	<u>66.3</u>	<u>65.4</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>95.8</u>	<u>65.1</u>	<u>64.2</u>
18. UNIT FORCED OUTAGE RATE	<u>-</u>	<u>25.3</u>	<u>15.8</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
September 1, 1976 - Refueling (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. 50/287UNIT Oconee Unit 3DATE 6/10/76**AVERAGE DAILY UNIT POWER LEVEL**MONTH May, 1976**DAY** **AVERAGE DAILY POWER LEVEL**
 (MWe-net)

1	<u>817</u>
2	<u>828</u>
3	<u>828</u>
4	<u>827</u>
5	<u>831</u>
6	<u>843</u>
7	<u>858</u>
8	<u>861</u>
9	<u>862</u>
10	<u>854</u>
11	<u>862</u>
12	<u>862</u>
13	<u>862</u>
14	<u>858</u>
15	<u>856</u>
16	<u>854</u>

DAY **AVERAGE DAILY POWER LEVEL**
 (MWe-net)

17	<u>856</u>
18	<u>852</u>
19	<u>856</u>
20	<u>860</u>
21	<u>857</u>
22	<u>860</u>
23	<u>857</u>
24	<u>858</u>
25	<u>852</u>
26	<u>849</u>
27	<u>847</u>
28	<u>843</u>
29	<u>844</u>
30	<u>846</u>
31	<u>846</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. 50-287

UNIT NAME Oconee Unit 3

DATE 6/10/76

REPORT MONTH May, 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.