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TO USNRC

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

DATE OF DOCUMENT

6/10/77

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DESCRIPTION

Letter trans the following:

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(1P)

ACKNOWLEDGED

PLANT NAME: OCONEE # 1, 2 & 3
SAB

ENCLOSURE

Monthly Report for MAY 1977
Plant & Component Operability & Availability.
This Report to be used in preparing Gray Book
by Plans & Operations.

(12P)

FOR ACTION/INFORMATION

MIPC W/2 CYS FOR ACTION

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CONTROL NUMBER

771650250

R *ms* *Rpt*

DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

June 10, 1977

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:

REGULATORY DOCKET FILE COPY

Please find attached information concerning the performance and operating status of the Oconee Nuclear Station for the month of May, 1977.

The following correction is submitted to the operating data for March, 1977, previously provided by my letter of April 13, 1977. The reported value for the cumulative unit availability factor is incorrect. The value reported was 65.17; the correct value is 65.26.

Additionally, the following corrections are submitted to the operating data for April, 1977, previously provided by my letter of May 10, 1977. The reported value for the cumulative unit availability factor was 65.68; the correct value is 65.77. The unit shutdown numbers reported were 7, 8, and 9; the correct numbers are 6, 7, and 8.

Very truly yours,

A handwritten signature in cursive script, appearing to read "William O. Parker, Jr.".

William O. Parker, Jr.

JAR:ge
Attachment

cc: Mr. Norman C. Moseley

771650250

UNIT Oconee Unit 1
DATE 6-10-77
DOCKET NO. 50-269
PREPARED BY J. A. Reavis

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1977
GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
(MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
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>365.30</u>	<u>2261.96</u>	<u>24377.76</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>357.74</u>	<u>2226.67</u>	<u>22190.66</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>761462</u>	<u>5368247</u>	<u>51753958</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>260790</u>	<u>1852060</u>	<u>17975490</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>243423</u>	<u>1753439</u>	<u>16985972</u>
12. REACTOR SERVICE FACTOR	<u>49.10</u>	<u>62.43</u>	<u>71.73</u>
13. REACTOR AVAILABILITY FACTOR	<u>96.31</u>	<u>54.72</u>	<u>66.81</u>
14. UNIT SERVICE FACTOR	<u>48.08</u>	<u>61.46</u>	<u>65.30</u>
15. UNIT AVAILABILITY FACTOR	<u>48.08</u>	<u>61.46</u>	<u>65.38</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>38.04</u>	<u>56.28</u>	<u>58.12</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>36.89</u>	<u>54.56</u>	<u>56.35</u>
18. UNIT FORCED OUTAGE RATE	<u>51.92</u>	<u>38.54</u>	<u>20.42</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
Refueling - July 17, 1977 - 6 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 Oconee Unit 1
DATE 6-10-77

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 1977

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>846</u>	17	<u>-</u>
2	<u>857</u>	18	<u>-</u>
3	<u>858</u>	19	<u>-</u>
4	<u>856</u>	20	<u>-</u>
5	<u>853</u>	21	<u>-</u>
6	<u>856</u>	22	<u>-</u>
7	<u>349</u>	23	<u>173</u>
8	<u>-</u>	24	<u>339</u>
9	<u>-</u>	25	<u>496</u>
10	<u>-</u>	26	<u>604</u>
11	<u>-</u>	27	<u>603</u>
12	<u>-</u>	28	<u>601</u>
13	<u>-</u>	29	<u>592</u>
14	<u>-</u>	30	<u>631</u>
15	<u>-</u>	31	<u>762</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. 50-269

UNIT NAME Oconee Unit 1

DATE 6-10-77

REPORT MONTH May, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
9	77-05-07	F	382.00	A	1	Tube leak repair in "B" OTSG.
10	77-05-24	F	4.26	A	3	During emergency feedwater pump test lost condenser vacuum due to failed valve.
						<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> <p>4-Other</p>

SUMMARY:

One major outage this month.

UNIT Oconee Unit 2
 DATE 6-10-77
 DOCKET NO. 50-270
 PREPARED BY J. A. Reavis

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1977
 GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
 (MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
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>671.91</u>	<u>3548.67</u>	<u>17775.70</u>
7. HOURS GENERATOR ON-LINE	<u>-</u>	<u>-</u>	<u>-</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>667.74</u>	<u>3539.47</u>	<u>17305.01</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>-</u>	<u>-</u>	<u>-</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>1686648</u>	<u>8864517</u>	<u>41625779</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>569520</u>	<u>3007570</u>	<u>14163176</u>
12. REACTOR SERVICE FACTOR	<u>543551</u>	<u>2879108</u>	<u>13463231</u>
13. REACTOR AVAILABILITY FACTOR	<u>90.31</u>	<u>97.95</u>	<u>74.36</u>
14. UNIT SERVICE FACTOR	<u>89.75</u>	<u>97.90</u>	<u>72.87</u>
15. UNIT AVAILABILITY FACTOR	<u>89.75</u>	<u>97.69</u>	<u>72.39</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>89.75</u>	<u>97.69</u>	<u>72.39</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>84.95</u>	<u>92.40</u>	<u>65.49</u>
18. UNIT FORCED OUTAGE RATE	<u>82.37</u>	<u>89.59</u>	<u>63.50</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)	<u>10.25</u>	<u>2.31</u>	<u>21.59</u>

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
July 10, 1977

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

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

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

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

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

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

DOCKET NO. 50-270UNIT Oconee Unit 2DATE 6-10-77**AVERAGE DAILY UNIT POWER LEVEL**MONTH May, 1977**DAY** **AVERAGE DAILY POWER LEVEL**
 (MWe-net)

1	<u>827</u>
2	<u>827</u>
3	<u>828</u>
4	<u>832</u>
5	<u>829</u>
6	<u>788</u>
7	<u>819</u>
8	<u>821</u>
9	<u>823</u>
10	<u>821</u>
11	<u>819</u>
12	<u>819</u>
13	<u>819</u>
14	<u>818</u>
15	<u>817</u>
16	<u>817</u>

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

17	<u>816</u>
18	<u>816</u>
19	<u>816</u>
20	<u>814</u>
21	<u>812</u>
22	<u>811</u>
23	<u>812</u>
24	<u>814</u>
25	<u>809</u>
26	<u>813</u>
27	<u>810</u>
28	<u>609</u>
29	<u>-</u>
30	<u>-</u>
31	<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 6-10-77

REPORT MONTH May, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
2	77-05-28	S	76.26	C	1	Refueling

(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
 4-Other

SUMMARY:

Reactor shutdown for refueling.

UNIT Oconee Unit 3
 DATE 6-10-77
 DOCKET NO. 50-287
 PREPARED BY J. A. Reavis

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1977
- GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY (MWe-Net): 860
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:)
Refueling - September 4, 1977 - 6 weeks
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

	This Month	Year to Date	Cumulative
6. REACTOR RESERVE SHUTDOWN HOURS	744.00	3368.77	16771.47
7. HOURS GENERATOR ON-LINE	-	-	-
8. UNIT RESERVE SHUTDOWN HOURS	744.00	3346.84	16370.34
9. GROSS THERMAL ENERGY GENERATED (MWH)	-	-	-
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	1924115	8483044	38851261
11. NET ELECTRICAL ENERGY GENERATED (MWH)	662510	2958700	13398144
12. REACTOR SERVICE FACTOR	633604	2830589	12764231
13. REACTOR AVAILABILITY FACTOR	100.00	92.98	77.82
14. UNIT SERVICE FACTOR	100.00	92.52	78.26
15. UNIT AVAILABILITY FACTOR	100.00	92.38	75.96
16. UNIT CAPACITY FACTOR (Using Net Capability)	100.00	92.38	75.96
17. UNIT CAPACITY FACTOR (Using Design Mwe)	99.03	90.85	68.87
18. UNIT FORCED OUTAGE RATE	96.01	88.08	66.77
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)	-	7.62	12.74

$$\begin{aligned} \text{REACTOR SERVICE FACTOR} &= \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100 \\ \text{REACTOR AVAILABILITY FACTOR} &= \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100 \\ \text{UNIT SERVICE FACTOR} &= \frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100 \\ \text{UNIT AVAILABILITY FACTOR} &= \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100 \\ \text{UNIT CAPACITY FACTOR} &= \frac{\text{NET ELECTRICAL POWER GENERATED}}{[\text{Net Capability or Design (Mwe-Net)}] \times \text{HOURS IN REPORTING PERIOD}} \times 100 \\ \text{UNIT FORCED OUTAGE RATE} &= \frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100 \end{aligned}$$

DOCKET NO. 50-287UNIT Oconee Unit 3DATE 6-10-77**AVERAGE DAILY UNIT POWER LEVEL**MONTH May, 1977**DAY** **AVERAGE DAILY POWER LEVEL
(MWe-net)**

1	<u>825</u>
2	<u>838</u>
3	<u>829</u>
4	<u>818</u>
5	<u>867</u>
6	<u>864</u>
7	<u>863</u>
8	<u>864</u>
9	<u>864</u>
10	<u>851</u>
11	<u>848</u>
12	<u>859</u>
13	<u>859</u>
14	<u>854</u>
15	<u>856</u>
16	<u>860</u>

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

17	<u>859</u>
18	<u>855</u>
19	<u>855</u>
20	<u>854</u>
21	<u>854</u>
22	<u>854</u>
23	<u>854</u>
24	<u>852</u>
25	<u>853</u>
26	<u>814</u>
27	<u>854</u>
28	<u>859</u>
29	<u>857</u>
30	<u>855</u>
31	<u>854</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 6-10-77

REPORT MONTH May, 1977

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 4-Other </div> </div>

SUMMARY:

No outages this month.

UNIT Oconee Unit 1
 DATE 6-10-77
 DOCKET NO. 50-269
 PREPARED BY J. A. Reavis

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1977
 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
 (MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
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>236.45</u>	<u>1251.13</u>	<u>23366.93</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>230.21</u>	<u>1230.57</u>	<u>21194.56</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>521612</u>	<u>3065709</u>	<u>49451420</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>181570</u>	<u>1057780</u>	<u>17181210</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>168820</u>	<u>1002696</u>	<u>16235229</u>
12. REACTOR SERVICE FACTOR	<u>31.78</u>	<u>57.92</u>	<u>71.85</u>
13. REACTOR AVAILABILITY FACTOR	<u>35.72</u>	<u>58.62</u>	<u>67.61</u>
14. UNIT SERVICE FACTOR	<u>30.94</u>	<u>56.97</u>	<u>65.17</u>
15. UNIT AVAILABILITY FACTOR	<u>30.94</u>	<u>56.97</u>	<u>65.26</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>26.38</u>	<u>53.98</u>	<u>58.05</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>25.58</u>	<u>52.33</u>	<u>56.28</u>
18. UNIT FORCED OUTAGE RATE	<u>69.06</u>	<u>43.03</u>	<u>19.78</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
 Refueling - June 5, 1977 - 6 weeks
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
April 2, 1977

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

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

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

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

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

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

UNIT Oconee Unit 1
 DATE 6-10-77
 DOCKET NO. 50-269
 PREPARED BY J. A. Reavis

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1977
 GROSS HOURS IN REPORTING PERIOD: 719.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
 (MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
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>638.36</u>	<u>1868.93</u>	<u>21832.92</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1541075</u>	<u>4606784</u>	<u>50992495</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>533450</u>	<u>1591270</u>	<u>17714700</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>507320</u>	<u>1510016</u>	<u>16742549</u>
12. REACTOR SERVICE FACTOR	<u>89.78</u>	<u>65.88</u>	<u>72.24</u>
13. REACTOR AVAILABILITY FACTOR	<u>99.66</u>	<u>68.87</u>	<u>68.30</u>
14. UNIT SERVICE FACTOR	<u>88.78</u>	<u>64.92</u>	<u>65.68</u>
15. UNIT AVAILABILITY FACTOR	<u>88.78</u>	<u>64.92</u>	<u>65.77</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>82.05</u>	<u>60.99</u>	<u>58.57</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>79.55</u>	<u>59.13</u>	<u>56.79</u>
18. UNIT FORCED OUTAGE RATE	<u>11.22</u>	<u>35.08</u>	<u>19.56</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH):
Refueling - June 25, 1977 - 6 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. 50-269UNIT NAME Oconee Unit 1DATE June 10, 1977REPORT MONTH April, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
6	77-04-01	F	66.94	A	1	Continuation of previous outage for repair of turning gear oil pump bearing for damage.
7	77-04-03	F	2.46	A	3	Failure in ICS feedwater control module circuitry.
8	77-04-24	F	11.24	A	3	Reheater drain valve failed to open resulting in reheater high level trip.
						<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> <p>4-Other</p>

SUMMARY: