



DUKE POWER COMPANY

Regulatory

File Cy.

POWER BUILDING

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

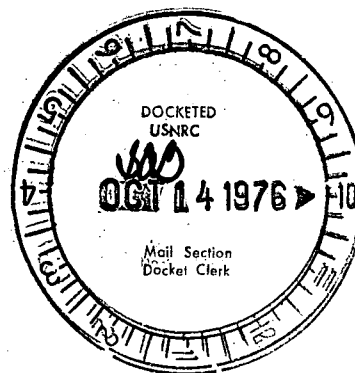
WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

October 9, 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 September, 1976.

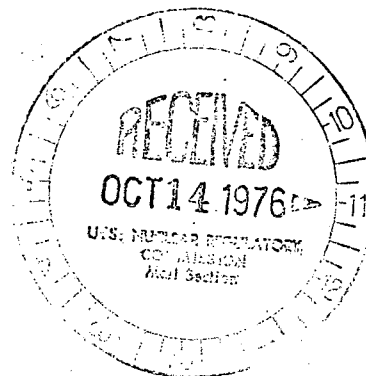
Very truly yours,

*William O. Parker, Jr.*

William O. Parker, Jr. *WOP*

LJB:ge  
Attachment

cc: Mr. Norman C. Moseley



10420

OPERATING STATUS

1. REPORTING PERIOD: September 1 THROUGH September 30, 1976  
 GROSS HOURS IN REPORTING PERIOD: 720.00
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
 

	This Month	Year to Date	Cumulative
6. REACTOR RESERVE SHUTDOWN HOURS	_____	_____	_____
7. HOURS GENERATOR ON-LINE	<u>688.5</u>	<u>3963.3</u>	<u>18894.1</u>
8. UNIT RESERVE SHUTDOWN HOURS	_____	_____	_____
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1715845</u>	<u>9545654</u>	<u>43769796</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>594740</u>	<u>3333300</u>	<u>15228020</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>565492</u>	<u>3152802</u>	<u>14392451</u>
12. REACTOR SERVICE FACTOR	<u>97.7</u>	<u>64.3</u>	<u>74.6</u>
13. REACTOR AVAILABILITY FACTOR	<u>95.6</u>	<u>61.6</u>	<u>68.3</u>
14. UNIT SERVICE FACTOR	<u>95.6</u>	<u>60.3</u>	<u>67.1</u>
15. UNIT AVAILABILITY FACTOR	<u>95.6</u>	<u>60.3</u>	<u>67.2</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>90.2</u>	<u>55.1</u>	<u>58.7</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>88.6</u>	<u>54.1</u>	<u>57.6</u>
18. UNIT FORCED OUTAGE RATE	<u>.7</u>	<u>3.8</u>	<u>14.3</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:

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

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

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

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

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

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

DOCKET NO. 50-269UNIT Oconee Unit 1DATE 10/9/76

## AVERAGE DAILY UNIT POWER LEVEL

MONTH September, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	465	17	835
2	797	18	835
3	843	19	834
4	650	20	834
5	-	21	830
6	738	22	839
7	820	23	842
8	841	24	840
9	834	25	841
10	818	26	832
11	841	27	841
12	842	28	842
13	841	29	841
14	840	30	840
15	840	31	
16	837		

## 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 10/9/76

REPORT MONTH September, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
11	76-09-01	F	5.06	B	3	Continuation of previous outage
12	76-09-04	S	26.40	H	1	Control rod repatch

(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:

Control rod drive power supply malfunction corrected during first monthly outage.

OPERATING STATUS

1. REPORTING PERIOD: September 1 THROUGH September 30, 1976  
 GROSS HOURS IN REPORTING PERIOD: 720.00

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>714.1</u>	<u>3952.4</u>	<u>12511.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS	_____	_____	_____
7. HOURS GENERATOR ON-LINE	<u>704.9</u>	<u>3793.0</u>	<u>12072.5</u>
8. UNIT RESERVE SHUTDOWN HOURS	_____	_____	_____
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1728522</u>	<u>8985952</u>	<u>28658380</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>594910</u>	<u>3058540</u>	<u>9759096</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>567209</u>	<u>2900005</u>	<u>9255156</u>
12. REACTOR SERVICE FACTOR	<u>99.2</u>	<u>60.1</u>	<u>69.2</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>58.2</u>	<u>67.4</u>
14. UNIT SERVICE FACTOR	<u>97.9</u>	<u>57.7</u>	<u>66.8</u>
15. UNIT AVAILABILITY FACTOR	<u>97.9</u>	<u>57.7</u>	<u>66.8</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>90.5</u>	<u>50.6</u>	<u>58.8</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>88.8</u>	<u>49.7</u>	<u>58.8</u>
18. UNIT FORCED OUTAGE RATE	<u>2.1</u>	<u>27.0</u>	<u>25.7</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 10/9/76

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH September, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	814
2	809
3	816
4	815
5	811
6	806
7	758
8	194
9	738
10	807
11	812
12	816
13	818
14	819
15	819
16	819

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
17	817
18	679
19	776
20	817
21	827
22	826
23	832
24	830
25	831
26	824
27	827
28	826
29	825
30	825
31	

**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: September 1 THROUGH September 30, 1976  
 GROSS HOURS IN REPORTING PERIOD: 720.00

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>426.8</u>	<u>4986.5</u>	<u>12130.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS	_____	_____	_____
7. HOURS GENERATOR ON-LINE	<u>422.6</u>	<u>4925.9</u>	<u>11874.6</u>
8. UNIT RESERVE SHUTDOWN HOURS	_____	_____	_____
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>824075</u>	<u>11673683</u>	<u>27591733</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>284340</u>	<u>4022770</u>	<u>9467684</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>267723</u>	<u>3834355</u>	<u>9012789</u>
12. REACTOR SERVICE FACTOR	<u>59.3</u>	<u>75.8</u>	<u>77.2</u>
13. REACTOR AVAILABILITY FACTOR	<u>58.7</u>	<u>75.1</u>	<u>78.6</u>
14. UNIT SERVICE FACTOR	<u>58.7</u>	<u>74.9</u>	<u>75.5</u>
15. UNIT AVAILABILITY FACTOR	<u>58.7</u>	<u>74.9</u>	<u>75.5</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>42.7</u>	<u>67.0</u>	<u>65.8</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>41.9</u>	<u>65.8</u>	<u>64.6</u>
18. UNIT FORCED OUTAGE RATE	<u>.7</u>	<u>19.2</u>	<u>14.8</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:

November 3, 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 10/9/76

**AVERAGE DAILY UNIT POWER LEVEL**

MONTH September, 1976

AVERAGE DAILY POWER LEVEL (MWe-net)		AVERAGE DAILY POWER LEVEL (MWe-net)	
DAY		DAY	
1	852	17	310
2	853	18	423
3	850	19	-
4	852	20	-
5	852	21	-
6	836	22	-
7	852	23	-
8	847	24	-
9	849	25	-
10	615	26	-
11	386	27	-
12	323	28	-
13	338	29	-
14	380	30	-
15	375	31	-
16	401		

**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 10/9/76

REPORT MONTH September, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
10	76-09-17	F	2.95	B	3	Reactor trip during maintenance on Power/Load imbalance runback circuit.
11	76-09-18	S	294.41	C	1	Annual Refueling Outage

(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:**

Refueling outage proceeding on schedule. Estimated startup date is November 3, 1976.