

OCONEE NUCLEAR STATION  
MONTHLY OPERATING REPORT  
August, 1978

1. Personnel Exposure

For the month of August, 1 individual exceeded 10 percent of their allowable annual radiation dose limit with the highest dose being 1.580 Rem, which represents approximately 13.2% of that person's allowable annual limit.

2. Radioactive Waste Releases

The total station liquid release for August has been compared with the Technical Specifications annual value of 15 curies; the total release for August was less than 10 percent of this limit.

The total station gaseous release for August has been compared to the derived Technical Specifications annual value of 51,000 curies; the total release for August was 27.8 percent of this limit.

# OPERATING DATA REPORT

DOCKET NO. 50-269  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

## OPERATING STATUS

1. Unit Name: Oconee Unit 1
2. Reporting Period: September 1978
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 887
6. Maximum Dependable Capacity (Gross MWe): 899
7. Maximum Dependable Capacity (Net MWe): 860
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
None

### Notes

Year-to-date & cumulative capacity factors are calculated using a weighted average for maximum dependable capacity.

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720.0</u>	<u>6,551.0</u>	<u>45,672.0</u>
12. Number Of Hours Reactor Was Critical	<u>47.1</u>	<u>4,891.1</u>	<u>32,630.2</u>
13. Reactor Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
14. Hours Generator On-Line	<u>46.1</u>	<u>4,826.4</u>	<u>30,248.1</u>
15. Unit Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
16. Gross Thermal Energy Generated (MWH)	<u>60,980</u>	<u>11,880,132</u>	<u>70,502,987</u>
17. Gross Electrical Energy Generated (MWH)	<u>20,390</u>	<u>4,134,140</u>	<u>24,443,780</u>
18. Net Electrical Energy Generated (MWH)	<u>14,492</u>	<u>3,928,818</u>	<u>23,105,745</u>
19. Unit Service Factor	<u>6.4</u>	<u>73.7</u>	<u>66.2</u>
20. Unit Availability Factor	<u>6.4</u>	<u>73.7</u>	<u>66.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>2.3</u>	<u>69.7</u>	<u>58.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>2.3</u>	<u>67.6</u>	<u>57.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>17.9</u>	<u>18.6</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: October 27, 1978

26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	<u>      </u>	<u>      </u>
INITIAL ELECTRICITY	<u>      </u>	<u>      </u>
COMMERCIAL OPERATION	<u>      </u>	<u>      </u>

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September, 1978

DOCKET NO. 50-269  
 UNIT NAME Oconee Unit 1  
 DATE 10-16-78  
 COMPLETED BY J. A. Réavis  
 TELEPHONE (704) 373-8552

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
22	78-09-01	F	-	A	--		RB	CRDRVE	Control rod 1 on Group 7 dropped because of a stator problem.
23	78-09-02	S	673.95	C	1		RC	FUELXX	Scheduled refueling.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source

(9/77)

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-269  
 UNIT Oconee Unit 1  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

MONTH September, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	421
2	355
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	-

## INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

# MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee Unit 1.
2. Scheduled next refueling shutdown: Unknown.
3. Scheduled restart following refueling: October 27, 1978.
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes.  
If yes, what will these be? Technical Specification revision
- If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions? NA.  
If no, when is review scheduled? NA.
5. Scheduled date(s) for submitting proposed licensing action and supporting information: Unknown.
6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures). None
7. Number of fuel assemblies (a) in the core: 177.  
(b) in the spent fuel pool: 165.
8. Present licensed fuel pool capacity: 306 in Oconee 1 & 2 pool.  
Size of requested or planned increase: No increase planned.
9. Projected date of last refueling which can be accommodated by present  
-licensed capacity: 3/3/80 assuming no transfers to McGuire.

DUKE POWER COMPANY

Date: October 16, 1978

Name of Contact: J. A. Reavis

DOCKET NO: 50-269  
UNIT: Oconee Unit 1  
DATE: 10-16-78

NARRATIVE SUMMARY

MONTH: September, 1978

The month began with Unit 1 operating at approximately 55% power. This reduction was continued from last month because of a stator problem on control rod 1 Group 7.

On 9/2, at 2305 the unit was off and the reactor at shutdown to begin a scheduled refueling outage which continued the remainder of the month.

# OPERATING DATA REPORT

DOCKET NO. 50-270  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

## OPERATING STATUS

1. Unit Name: Oconee Unit 2
2. Reporting Period: September, 1978
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 887
6. Maximum Dependable Capacity (Gross MWe): 899
7. Maximum Dependable Capacity (Net MWe): 860
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
None

Notes  
 Year-to-date & cumulative capacity factors are calculated using a weighted average for maximum dependable capacity.

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720.0	6,551.0	35,592.0
12. Number Of Hours Reactor Was Critical	720.0	5,391.0	25,078.5
13. Reactor Reserve Shutdown Hours	-	-	-
14. Hours Generator On-Line	720.0	5,335.9	24,418.9
15. Unit Reserve Shutdown Hours	-	-	-
16. Gross Thermal Energy Generated (MWH)	1,812,741	13,267,115	57,965,990
17. Gross Electrical Energy Generated (MWH)	608,350	4,519,660	19,722,386
18. Net Electrical Energy Generated (MWH)	580,347	4,308,256	18,717,439
19. Unit Service Factor	100.0	81.5	68.6
20. Unit Availability Factor	100.0	81.5	68.6
21. Unit Capacity Factor (Using MDC Net)	93.7	76.5	60.7
22. Unit Capacity Factor (Using DER Net)	90.9	74.2	59.3
23. Unit Forced Outage Rate	0.0	18.6	22.6
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>November 4, 1978 - Refueling-6 weeks</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: \_\_\_\_\_

26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September, 1978

DOCKET NO. 50-270  
 UNIT NAME Oconee Unit 2  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
38	78-09-23	S	-	B	--		RC	FUELXX	Reduced power to 50% for PT/O/600/17 (withdrawal of Group 7 control rods)
39	78-09-24	F	-	D	--		RC	FUELXX	Xenon hold at 90% power.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source



# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-270  
 UNIT Oconee Unit 2  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

MONTH September, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>799</u>
2	<u>806</u>
3	<u>813</u>
4	<u>823</u>
5	<u>824</u>
6	<u>821</u>
7	<u>821</u>
8	<u>822</u>
9	<u>822</u>
10	<u>819</u>
11	<u>824</u>
12	<u>826</u>
13	<u>826</u>
14	<u>826</u>
15	<u>826</u>
16	<u>824</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>825</u>
18	<u>825</u>
19	<u>824</u>
20	<u>823</u>
21	<u>822</u>
22	<u>823</u>
23	<u>462</u>
24	<u>713</u>
25	<u>822</u>
26	<u>825</u>
27	<u>825</u>
28	<u>824</u>
29	<u>824</u>
30	<u>822</u>
31	<u></u>

## INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

# MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee Unit 2.
2. Scheduled next refueling shutdown: November 4, 1978.
3. Scheduled restart following refueling: December 15, 1978.
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes.  
If yes, what will these be? Technical Specification revision
- If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions? NA.  
If no, when is review scheduled? NA.
5. Scheduled date(s) for submitting proposed licensing action and supporting information: submitted September 18, 1978.
6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures). None
7. Number of fuel assemblies (a) in the core: 177.  
(b) in the spent fuel pool: see Unit 1.
8. Present licensed fuel pool capacity: See Oconee Unit 1.  
Size of requested or planned increase: See Oconee Unit 1.
9. Projected date of last refueling which can be accommodated by present licensed capacity: 3/3/80 assuming no transfer to McGuire.

DUKE POWER COMPANY

Date: October 16, 1978

Name of Contact: J. A. Reavis -

DOCKET NO: 50-270  
UNIT: Oconee Unit 2  
DATE: 10-16-78

# NARRATIVE SUMMARY

MONTH: September, 1978

Unit 2 began the month operating at near rated power and except for a slight reduction on 9/1 & 2 for TT/2/B/271/3 (H.P. turbine efficiency test), continued at this level until 9/23.

On 9/23 power was reduced to 50% for PT/O/A/600/17 (withdrawal of Group 7 control rods). After normal xenon hold, the unit returned to near rated power on 9/25 and continued through the remainder of the month.

# OPERATING DATA REPORT

DOCKET NO. 50-287  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

## OPERATING STATUS

1. Unit Name: Oconee Unit 3
2. Reporting Period: September, 1978
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 887
6. Maximum Dependable Capacity (Gross MWe): 899
7. Maximum Dependable Capacity (Net MWe): 860
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
None

Notes  
 Year-to-date and cumulative capacity factors are calculated using a weighted average for maximum dependable capacity.

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720.0	6,551.0	33,239.0
12. Number Of Hours Reactor Was Critical	720.0	5,552.1	25,716.7
13. Reactor Reserve Shutdown Hours	-	-	-
14. Hours Generator On-Line	720.0	5,437.3	25,011.0
15. Unit Reserve Shutdown Hours	-	-	-
16. Gross Thermal Energy Generated (MWH)	1,837,051	13,301,105	59,534,425
17. Gross Electrical Energy Generated (MWH)	636,230	4,635,590	20,587,434
18. Net Electrical Energy Generated (MWH)	607,763	4,420,555	19,593,162
19. Unit Service Factor	100.0	83.0	75.3
20. Unit Availability Factor	100.0	83.0	75.3
21. Unit Capacity Factor (Using MDC Net)	98.2	78.5	68.1
22. Unit Capacity Factor (Using DER Net)	95.2	76.1	66.5
23. Unit Forced Outage Rate	0.0	3.0	12.1

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
None

25. If Shut Down At End Of Report Period, Estimated Date of Startup: \_\_\_\_\_

26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September, 1978

DOCKET NO. 50-287  
 UNIT NAME Oconee Unit 3  
 DATE 10-16-78  
 COMPLETED BY J. A. Reavis  
 TELEPHONE (704) 373-8552

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
31	78-09-29	F	-	B	--		HA	TURBIN	While performing PT/O/A/290/04 (turbine valve movement test) stop valve #4 failed to reopen immediately causing a delay in power increase.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions  
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 Entry Sheets for Licensee  
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 0161)

<sup>5</sup>  
 Exhibit I - Same Source

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-287  
UNIT Oconee Unit 3  
DATE 10-16-78  
COMPLETED BY J. A. Reavis  
TELEPHONE (704) 373-8552

MONTH September, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>846</u>
2	<u>845</u>
3	<u>844</u>
4	<u>843</u>
5	<u>848</u>
6	<u>851</u>
7	<u>852</u>
8	<u>850</u>
9	<u>847</u>
10	<u>831</u>
11	<u>847</u>
12	<u>846</u>
13	<u>847</u>
14	<u>845</u>
15	<u>841</u>
16	<u>842</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>840</u>
18	<u>841</u>
19	<u>844</u>
20	<u>848</u>
21	<u>850</u>
22	<u>849</u>
23	<u>847</u>
24	<u>846</u>
25	<u>847</u>
26	<u>848</u>
27	<u>847</u>
28	<u>845</u>
29	<u>836</u>
30	<u>812</u>
31	<u></u>

## INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee Unit 3.
2. Scheduled next refueling shutdown: July 1979.
3. Scheduled restart following refueling: September 1979.
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes.  
If yes, what will these be? Technical Specification revision  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions? NA.  
If no, when is review scheduled? NA.
5. Scheduled date(s) for submitting proposed licensing action and supporting information: June 1979.
6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures). None  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Number of fuel assemblies (a) in the core: 177.  
(b) in the spent fuel pool: 324.
8. Present licensed fuel pool capacity: 465.  
Size of requested or planned increase: No increase planned.
9. Projected date of last refueling which can be accommodated by present licensed capacity: 3/3/80 Assuming no transfer to McGuire.

DUKE POWER COMPANY

Date: October 16, 1978.

Name of Contact: J. A. Reavis.

DOCKTE NO: 50-287  
UNIT: Oconee Unit 3  
DATE: 10-16-78

NARRATIVE SUMMARY

MONTH: September, 1978

Except for a 7% power reduction on 9/29 for a turbine valve movement test, the unit ran at near rated power during the month of September.