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	720.0	6,551.0	45,672.0
12. Number Of Hours Reactor Was Critical	47.1	4,891.1	32,630.2
13. Reactor Reserve Shutdown Hours	-	-	-
14. Hours Generator On-Line	46.1	4,826.4	30,248.1
15. Unit Reserve Shutdown Hours	-	-	-
16. Gross Thermal Energy Generated (MWH)	60,980	11,880,132	70,502,987
17. Gross Electrical Energy Generated (MWH)	20,390	4,134,140	24,443,780
18. Net Electrical Energy Generated (MWH)	14,492	3,928,818	23,105,745
19. Unit Service Factor	6.4	73.7	66.2
20. Unit Availability Factor	6.4	73.7	66.3
21. Unit Capacity Factor (Using MDC Net)	2.3	69.7	58.5
22. Unit Capacity Factor (Using DER Net)	2.3	67.6	57.0
23. Unit Forced Outage Rate	0.0	17.9	18.6

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		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

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. Reavis
TELEPHONE (704) 373-8552

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	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.

1
F: Forced
S: Scheduled

2
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)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

5
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)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	421	17	-
2	355	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	-		

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.

(9/77)

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):
    November 4, 1978 - Refueling-6 weeks

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[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	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.

1
F: Forced
S: Scheduled

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

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

5
Exhibit I - Same Source

(9/77)

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)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	799	17	825
2	806	18	825
3	813	19	824
4	823	20	823
5	824	21	822
6	821	22	823
7	821	23	462
8	822	24	713
9	822	25	822
10	819	26	825
11	824	27	825
12	826	28	824
13	826	29	824
14	826	30	822
15	826	31	
16	824		

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.

(9/77)

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	—	—

(9/77)

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[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	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.

1
F: Forced
S: Scheduled

2
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)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

5
Exhibit I - Same Source

(9/77)

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)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	846	17	840
2	845	18	841
3	844	19	844
4	843	20	848
5	848	21	850
6	851	22	849
7	852	23	847
8	850	24	846
9	847	25	847
10	831	26	848
11	847	27	847
12	846	28	845
13	847	29	836
14	845	30	812
15	841	31	
16	842		

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.

(9/77)

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.