

DUKE POWER COMPANY

POWER BUILDING

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

REGULATORY DOCKET FILE COPY

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

August 15, 1978

TELEPHONE: AREA 704
373-4083

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

US NRC
DISTRIBUTION SERVICES
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RECEIVED DISTRIBUTION
SERVICES UNIT

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, 1978.

Very truly yours,

William O. Parker Jr.
William O. Parker, Jr. *by WAH*

JAR:scs
Attachments

cc: Mr. T. Cintula
Mr. J. P. O'Reilly

782160206

A008
As/11

OPERATING DATA REPORT

DOCKET NO. 50-269
 DATE 08-15-78
 COMPLETED BY J. A. Reavis
 TELEPHONE (704) 373-8552

OPERATING STATUS

1. Unit Name: Oconee Unit 1
2. Reporting Period: July, 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>744.0</u>	<u>5,087.0</u>	<u>44,208.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>4,148.2</u>	<u>31,887.3</u>
13. Reactor Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>4,110.0</u>	<u>29,531.7</u>
15. Unit Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,906,992</u>	<u>10,361,218</u>	<u>68,984,073</u>
17. Gross Electrical Energy Generated (MWH)	<u>665,530</u>	<u>3,617,950</u>	<u>23,927,590</u>
18. Net Electrical Energy Generated (MWH)	<u>635,452</u>	<u>3,447,335</u>	<u>22,624,262</u>
19. Unit Service Factor	<u>100.0</u>	<u>80.8</u>	<u>66.9</u>
20. Unit Availability Factor	<u>100.0</u>	<u>80.8</u>	<u>66.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.3</u>	<u>78.8</u>	<u>59.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.3</u>	<u>76.4</u>	<u>57.7</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>19.2</u>	<u>18.8</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling August 27, 1978 - 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

DOCKET NO. 50-269
 UNIT NAME Oconee Unit 1
 DATE 08-15-78
 COMPLETED BY J. A. Reavis
 TELEPHONE (704) 373-8552

REPORT MONTH JULY, 1978

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
NO OUTAGES IN JULY									

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-269

UNIT Oconee Unit 1

DATE 08-15-78

COMPLETED BY J. A. Reavis

TELEPHONE (704) 373-8552

MONTH JULY, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	859	17	859
2	853	18	858
3	849	19	857
4	847	20	858
5	843	21	856
6	843	22	857
7	852	23	842
8	858	24	855
9	858	25	856
10	855	26	854
11	856	27	852
12	859	28	848
13	859	29	848
14	860	30	850
15	860	31	856
16	859		

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.

DOCKET NO: 50-269

UNIT: Oconee Unit 1

DATE: 08-15-78

NARRATIVE SUMMARY

MONTH: August, 1978

The month of July began with Unit 1 at near rated power. The unit operated at near rated power throughout the month except for several hours of reduced power during periods of reduced demand.

OPERATING DATA REPORT

DOCKET NO. 50-270
 DATE 08-15-78
 COMPLETED BY J. A. Reavis
 TELEPHONE (704) 373-8552

OPERATING STATUS

1. Unit Name: Oconee Unit 2
2. Reporting Period: July, 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	<u>744.0</u>	<u>5,087.0</u>	<u>34,128.0</u>
12. Number Of Hours Reactor Was Critical	<u>651.1</u>	<u>4,182.2</u>	<u>23,869.7</u>
13. Reactor Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
14. Hours Generator On-Line	<u>636.3</u>	<u>4,143.3</u>	<u>23,226.3</u>
15. Unit Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,557,004</u>	<u>10,361,945</u>	<u>55,060,820</u>
17. Gross Electrical Energy Generated (MWH)	<u>530,980</u>	<u>3,544,280</u>	<u>18,747,006</u>
18. Net Electrical Energy Generated (MWH)	<u>504,624</u>	<u>3,383,109</u>	<u>17,792,292</u>
19. Unit Service Factor	<u>85.5</u>	<u>81.5</u>	<u>68.1</u>
20. Unit Availability Factor	<u>85.5</u>	<u>81.5</u>	<u>68.1</u>
21. Unit Capacity Factor (Using MDC Net)	<u>78.9</u>	<u>77.3</u>	<u>60.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>76.5</u>	<u>75.0</u>	<u>58.8</u>
23. Unit Forced Outage Rate	<u>14.5</u>	<u>18.6</u>	<u>22.8</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling October 15, 1978 - 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

DOCKET NO. 50-270

UNIT NAME Oconee Unit 2

DATE 08-15-78

COMPLETED BY J. A. Reavis

TELEPHONE (704) 373-8552

REPORT MONTH JULY, 1978

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
25	78-07-01	F	—	A	—		CH	VALVEX	Hold to repair "A" FWP drain valve
26	78-07-01	F	107.75	A	1		RB	CRDRVE	Replace CRD stator on Rod 6, Gp. 4
27	78-07-07	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)

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

⁵
Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-270

UNIT Oconee Unit 2

DATE 08-15-78

COMPLETED BY J. A. Reavis

TELEPHONE (704) 373-8552

MONTH JULY, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	520
2	-
3	-
4	-
5	-
6	219
7	725
8	818
9	817
10	814
11	813
12	805
13	813
14	813
15	814
16	820

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	823
18	819
19	806
20	807
21	813
22	811
23	815
24	823
25	825
26	824
27	826
28	826
29	826
30	827
31	827

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.

DOCKET NO: 50-270

UNIT: Oconee Unit 2

DATE: 08-15-78

NARRATIVE SUMMARY

MONTH: August, 1978

Oconee 2 began the month at reduced power. The unit was shutdown on July 1, 1978 to repair the stator of control rod 6 of safety group 4. On July 6, 1978 Stator repairs were completed and the unit was started up. The unit remained at or near 100% power for the rest of the month.

OPERATING DATA REPORT

DOCKET NO. 50-287
 DATE 08-15-78
 COMPLETED BY J. A. Reavis
 TELEPHONE (704) 373-8552

OPERATING STATUS

1. Unit Name: Oconee Unit 3
2. Reporting Period: July, 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	744.0	5,087.0	31,775.0
12. Number Of Hours Reactor Was Critical	443.6	4,090.2	24,254.7
13. Reactor Reserve Shutdown Hours	-	-	-
14. Hours Generator On-Line	379.5	3,978.9	23,552.6
15. Unit Reserve Shutdown Hours	-	-	-
16. Gross Thermal Energy Generated (MWH)	797,919	9,615,442	55,848,762
17. Gross Electrical Energy Generated (MWH)	268,670	3,354,960	19,306,804
18. Net Electrical Energy Generated (MWH)	248,942	3,197,508	18,370,115
19. Unit Service Factor	51.0	78.2	74.1
20. Unit Availability Factor	51.0	78.2	74.1
21. Unit Capacity Factor (Using MDC Net)	38.9	73.1	66.7
22. Unit Capacity Factor (Using DER Net)	37.7	70.9	65.2
23. Unit Forced Outage Rate	0.0	3.9	12.8

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

DOCKET NO. 50-287
 UNIT NAME Oconee Unit 3
 DATE 08-15-78
 COMPLETED BY J. A. Reavis
 TELEPHONE (704) 373-8552

REPORT MONTH JULY, 1978

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
18	78-07-01	S	360.53	C	1		RC	FUELXX	Scheduled refueling cont'd
19	78-07-16	S	—	B	—		ZZ	ZZZZZZ	Power escalation testing
20	78-07-20	F	—	D	—		RC	FUELXX	Xenon hold
21	78-07-21	F	—	B	—		CH	PUMPXX	"A" FWP drain valve repair
22	78-07-21	F	—	D	—		RC	FUELXX	Xenon hold
23	78-07-22	F	—	H	—		ZZ	ZZZZZZ	Investigation of noise picked up by the loose parts monitor
24	78-07-23	F	—	D	—		RC	FUELXX	Xenon hold
25	78-07-29	S	3.99	B	1		HA	TURBIN	Scheduled turbine trip test
26	78-07-30	F	—	B	—		RC	FUELXX	Xenon hold

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)

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 Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-287
 UNIT Oconee Unit 3
 DATE 08-15-78
 COMPLETED BY J. A. Reavis
 TELEPHONE (704) 373-8552

MONTH JULY, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	-
14	-
15	-
16	261

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	304
18	457
19	612
20	627
21	671
22	754
23	701
24	804
25	843
26	842
27	846
28	850
29	790
30	443
31	789

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.

DOCKET NO: 50-287
UNIT: Oconee Unit 3
DATE: 08-15-78

NARRATIVE SUMMARY

MONTH: August, 1978

The month began with the unit in refueling shutdown. On July 12 at 1900, Zero Power Physics Testing started. Testing was complete on July 16 at 0032 and the unit was returned to service. Power reached 40% and was held for power escalation testing. Power level reached 75% on July 18 and again held for testing. Reactor power reached power level cut off on July 20 at 1756.

On July 21, power level was decreased to 65% to secure 3A FWPT to reset relay control. The 3A FWPT was returned to service and started increasing power at 2024 on July 21.

Power level was held at 94% on July 22 due to powdex resin trap D.P. high. On the same day started decreasing power 3 MW/minute due to noise on LPM. Reactor power was increased to 100% on July 24 at 1226.

On July 29 at 2100, commenced reducing reactor power to 15% to perform turbine trip test. Generator went off line at 2357. Unit was returned to service at 0356 on July 30. Reactor reached power level cut off at 1900. On July 31, reactor reached near rated full power and retained power level for remainder of the month.

OCONEE NUCLEAR STATION

MONTHLY OPERATING REPORT

August, 1978

1. Personnel Exposure

For the month of June, no individuals exceeded 10 percent of their allowable annual radiation dose limit.

2. Radioactive Waste Releases

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

The total station gaseous release for June has been compared to the derived Technical Specifications annual value of 51,000 curies; the total release for June was less than 10 percent of this limit.