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TITLE:	Monthly Operating	Report (per	Tech Specs)		. 1
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Duke Power Company Electric Center P.O. Box 1006 Charlotte, N.C. 28201-1006



DUKE POWER

September 15, 1993

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555

RE: Oconee Nuclear Station Docket No. 50-269, -270, -287 File: GS-801.01

Dear Sir:

Please find attached information concerning the performance and operating status of the Oconee Nuclear Station for the month of August, 1993.

Very truly yours,

EO Me Crow / DRB

E. O. McCraw, Manager Operations, Performance & Automation

EOM/raw Attachments

xc: Stewart D. Ebneter Regional Administrator/Region II U.S. Nuclear Regulatory Commission 101 Marietta Street, NW, Suite 2900 Atlanta, GA 30323

> INPO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, GA 30323

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L. A. Wiens, Project Manager Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Ms. Margaret Aucoin Nuclear Assurance Corporation Suite 200 655 Engineering Drive Norcross, GA 30092-2843

P. E. Harmon Senior Resident Inspector Oconee Nuclear Station

U.S. NRC - Oconee September 15, 1993 Page 2

bc: K. S. Canady (EC08H)
 D. L. Davidson (ONS)
 Richard Edwards (B&W)
 M. E. Patrick (ONS)
 T. E. Mooney (EC05N)
 B. J. Horsley (EC03U)
 N. A. Rutherford (EC07I)
 R. Henderson (ONS)
 R. A. Williams (EC07A) (3)
 J. C. Wimbish (EC07B)
 B. A. Whitlock (ONS)
 E. C. Fisher (MNS)
 B. W. Walsh (EC11C)
 Jim Thomae (CNS)
 C. D. Denton (PB05E)
 G. A. Copp (EC050) (File)
 Candace Paton (PB02L)

OPERATING STATUS

2. Reporting Period: August 1 1993-August 21 1993	
ma unhaiseud i nisanas undanas el silo undanas 918 1339	
3. Licensed Thermal Power (MWt): 2568	
4. Nameplate Rating (Gross MWe): 934	
5. Design Electrical Rating (Net MWe): 886	
6. Maximum Dependable Capacity (Gross MWe): 886	
7. Maximum Dependable Capacity (Net MWe): 846	,
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last	1
Report. Give Reasons:	

DOCKET NO <u>50-269</u> DATE September 15, 1993 COMPLETED BY R.A. Williams TELEPHONE 704-382-5346

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):_____ 10. Reason For Restrictions, If any:_____

	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period	744.0	5831.0	176448.0
12. Number Of Hours Reactor Was Critical	680.2	5023.2	135817.9
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	670.6	4933.4	133140.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1711512	12553800	326301430
17. Gross Electrical Energy Generated (MWH)	583034	4327748	112867393
18. Net Electrical Energy Generated (MWH)	554497	4130156	107217589
19. Unit Service Factor	90.1	84.6	75.5
20. Unit Availability Factor	90.1	84.6	75.5
21. Unit Capacity Factor (Using MDC Net)	88.1	83.7	70.9
22. Unit Capacity Factor (Using DER Net)	84.1	79,9	68.5
23. Unit Forced Outage Rate	9.9	2.9	10.6
24. Shutdown Scheduled Over Next & 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

NRC Calculated from Generator Nameplate Data: 1 037 937 KVA x 0.90 Pf=934 MW



DOCKET NO	50-269
UNIT	Oconee 1
DATE	September 15, 1993
COMPLETED BY	R.A. Williams
TELEPHONE	704-382-5346

. _

MONTH	August, 1993		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (NWe-Net)
i		17	
5	843	18	835
3	843	19	
4		20	B34
5		21	
6		22	835
7		23	381
8	841	24	00
9	841	25	00
10	839	26	193
11		27	820
12		28	828
13	837	29	826
14	836	30	826
15	837	31	828
16	836		

UNIT SHUTDOWNS AND POWER REDUCTIONS DOCKET NO. UNIT NAME 50-269 OCONEE 1 DATE 09715793 REPORT MONTH August 1993 COMPLETED BY N. C. SIMMONS TELEPHONE (704)-382-5263 (2) R E A S O (1)(3) MET-(4) (5) HOD T Y LICENSE OF Ν SHUT EVENT SYS-CAUSE AND CORRECTIVE **P** E 0 DURATION DOWN REPORT TEM COMPONENT ACTION TO DATE HOURS Ν R/X NO. CODE ٠ CODE PREVENT RECURRENCE 9 93- 8-23 \mathbf{F} 73.38 В 3 INSTRU EC REACTOR TRIP DUE TO LOSS OF DC CONTROL POWER 12-P 93- 8-26 F A ----HA TURBIN MAIN TURBINE LOW OIL PRESSURE 93- 8-26 13-P F Α RB CKTBKR ---CONTROL ROD DRIVE BREAKER PROBLEMS (2) Reason: (1)(3) Method: (4) Exhibit G - Instructions for Preparation of Data Entry Sheets For Licensee Event Report (LER) F Forced Ŝ Scheduled A-Equipment Failure (Explain) 1-Manual B-Maintenance or test 2-Manual Scram C-Refueling 3-Automatic Scram 4-Other (Explain) D-Regulatory Restriction E-Operator Training & License Examination F-Administrative File (NUREG-0161) (5)G-Operator Error (Explain) Éxhibit I - Same Source H-Other (Explain)

DOCKET: 50-269

UNIT: Oconee 1

Date: 09/15/93

NARRATIVE SUMMARY

MONTH: August 1993

Oconee Unit 1 began the month of August operating at 100% full power. The unit operated at or near 100% full power until 8/23 at 1118 when unit experienced an automatic reactor trip when DC control power was loss. The unit was placed on-line on 8/26 at 1241 and held at 15% power from 1241 to 1400 due to low oil pressure on the main turbine. During power escalation, the unit held at 56% power from 1700 to 1835 due to control rod drive breaker problems. The unit was returned to 100% full power on 8/27 at 0200. The unit operated at or near 100% for the remainder of the month.

Prepared by N. C. Simmons Telephone: 704-382-5263

MONTHLY REFUELING INFORMATION REQUEST

- 1. Facility name: <u>Oconee</u>, <u>Unit 1</u>
- 2. Scheduled next refueling shutdown: <u>April 1994</u>
- 3. Scheduled restart following refueling: June 1994

THE PROJECT MANAGER HAS BEEN ADVISED BY SEPARATE COMMUNICATION OF ANY T.S. CHANGE OR LICENSE AMENDMENT. THEREFORE, QUESTIONS 4 THROUGH 6 WILL NO LONGER BE MAINTAINED IN THIS REPORT.

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

If yes, what will these be?

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions?

- 5. Scheduled date(s) for submitting proposed licensing action and supporting information.
- 6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures).

7. Number of Fuel assemblies

(a) in the core: <u>177</u>
(b) in the spent fuel pool: <u>1022</u>*
(c) in the ISFSI: <u>528</u>****

- 8. Present licensed fuel pool capacity: <u>1312</u> Size of requested or planned increase: **
- 9. Projected date of last refueling which can be accommodated by present licensed capacity: February 2013***

DUKE POWER COMPANY

DATE: <u>September 15, 19</u>93

Name of Contact: N. C. Simmons Phone: 704-382-5263

* Represents the combined total for Units 1 and 2

** On January 29, 1990, received a license for ISFSI which will store 2112 assemblies

*** This date is based on 88 Dry Storage Modules. We currently have 20 modules (480 spaces). Additional modules will be built on an as needed basis.

**** Represents the combined total for Units 1,2 and 3

DOCKET NO 50-270 DATE <u>September 15, 1993</u> COMPLETED BY <u>R.A. Williams</u> TELEPHONE 704-382-5346

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

OPERATING STATUS

1. Unit Name: Oconee 2	
2. Reporting Period: August 1, 1993-August 31,	1993
3. Licensed Thermal Power (NWt): 2568	l
4. Nameplate Rating (Gross NWe): 934	
5. Design Electrical Rating (Net MWe):	886
6. Maximum Dependable Capacity (Gross NWe):	886
7. Maximum Dependable Capacity (Net MWe):	846
B. If Changes Occur in Capacity Ratings (Items	Number 3 Through 7) Since Last
Report. Give Reasons:	

·	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period	744.0	5831.0	166368.0
12. Number Of Hours Reactor Was Critical	723.7	4513.3	131087.5
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator Dn-Line	718.7	4448.8	129231.8
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (NWH)	1831704	11367432	313975742
17. Gross Electrical Energy Generated (NWH)	626425	3952332	107304876
18. Net Electrical Energy Generated (MWH)	597421	3773322	102159276
19. Unit Service Factor	96.5	76.3	77.7
20. Unit Availability Factor	96.6	76.3	77.7
21. Unit Capacity Factor (Using MDC Net)	94.9	76.5	71.6
22. Unit Capacity Factor (Using DER Net)	90.6	73.0	69.3
23. Unit Forced Dutage Rate	3.4	0.6	9.0
24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION

50-270
Oconee 2
September 15, 1993
R.A. Williams
704-382-5346

MONTH _	August, 1993	
<u>Day</u>	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY
1	850	17
2	849	18
3	848	19
4	848	20
5	847	21
6		22
7	845	23
8		24
9	844	25
10	843	26
11	843	27
12	842	28
13	841	29
14	840	30
15	840	31
16	839	

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AVERAGE DAILY POWER LEVEL (MWe-Net)
838
837
837
837
836
837
836
826
807
0
594
838
838
838
818

Afra .

UNIT SHUTDOWNS AND POWER REDUCTIONS 50-270 OCONEE 2 DOCKET NO. UNIT NAME DATE 09/15/93 REPORT MONTH August 1993 COMPLETED BY N. C. SIMMONS (704)-382-5263 TELEPHONE (2) R E A S (1)(3) MET-(4) (5) HOD TY PE OF LICENSE ŠĦUT EVENT SYS-CAUSE AND CORRECTIVE DURATION 0 DOWN REPORT TĒM COMPONENT ACTION TO DATE HOURS R/X Ň NO. CODE CODE PREVENT RECURRENCE 93- 8-25 F 25.32 В 3 EB CRTBRK REACTOR TRIP ON GENERATOR LOCK-OUT

(3) Method:

1-Manual

2-Manual Scram

3-Automatic Scram

4-Other (Explain)

(1)f S Forced

Scheduled

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0

. 6

> (2) Reason: A-Equipment Failure (Explain) B-Maintenance or test C-Refueling

D-Regulatory Restriction E-Operator Training & License Examination F-Administrative

G-Operator Error (Explain) H-Other (Explain)

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

(5)Éxhibit I - Same Source

DOCKET: 50-270 UNIT: Oconee 2 Date: 09/15/93

NARRATIVE SUMMARY

MONTH: August 1993

Oconee Unit 2 began the month of August operating at 100% full power. The unit operated at or near 100% full power until 8/25 at 2331 when the unit experienced an automatic reactor trip due to a generator lockout. The unit was placed on-line on 8/26 at 0050 and was returned to 100% full power at 1502. The unit operated at or near 100% full power for the remainder of the month.

Prepared by N. C. Simmons Telephone: 704-382-5263

MONTHLY REFUELING INFORMATION REQUEST

- 1. Facility name: <u>Oconee</u>, <u>Unit 2</u>
- 2. Scheduled next refueling shutdown: <u>September 1994</u>
- 3. Scheduled restart following refueling: <u>November 1994</u>

THE PROJECT MANAGER HAS BEEN ADVISED BY SEPARATE COMMUNICATION OF ANY T.S. CHANGE OR LICENSE AMENDMENT. THEREFORE, QUESTIONS 4 THROUGH 6 WILL NO LONGER BE MAINTAINED IN THIS REPORT.

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

If yes, what will these be?

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions?

- 5. Scheduled date(s) for submitting proposed licensing action and supporting information.
- 6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures).

7. Number of Fuel assemblies

- (a) in the core: <u>177</u>
 (b) in the spent fuel pool: <u>1022</u>*
 (c) in the ISFSI: See Unit 1****
- 8. Present licensed fuel pool capacity: <u>1312</u> Size of requested or planned increase: <u>**</u>
- 9. Projected date of last refueling which can be accommodated by present licensed capacity: <u>October 2013</u>***

DUKE POWER COMPANY

DATE: <u>September 15, 1993</u>

Name of Contact: <u>N. C. Simmons</u> Phone: <u>704-382-5263</u>

* Represents the combined total for Units 1 and 2 ** See footnote on Unit 1

*** This date is based on 88 Dry Storage Modules. We currently have 20 modules (480 spaces). Additional modules will be built on an as needed basis. **** See footnote on Unit 1

DOCKET NO 50-287 DATE September 15, 1993 COMPLETED BY R.A. Williams TELEPHONE 704-382-5346

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

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OPERATING STATUS

1. Unit Name: Oconee 3 2. Reporting Period: August 1, 1993-August 31, 1993 3. Licensed Thermal Power (MWt): 2568 4. Nameplate Rating (Gross MWe): 934 5. Design Electrical Rating (Net MWe): 886 6. Maximum Dependable Capacity (Gross MWe): 886 7. Maximum Dependable Capacity (Net MWe): B46 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: _____

9. Power Level To Which Restricted, If Any (Net NWe):_____ 10. Reason For Restrictions, If any:_____

	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period	744.0	5831.0	164015.0
12. Number Of Hours Reactor Was Critical	744.0	5817.3	126352.9
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744.0	5813.6	124620.0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (NWH)	1911216	14916192	309131841
17. Gross Electrical Energy Generated (MWH)	658505	5223646	106623504
18. Net Electrical Energy Generated (NWH)	629308	5008146	101692157
19. Unit Service Factor	100.0	99.7	76.0
20. Unit Availability Factor	100.0	99.7	76.0
21. Unit Capacity Factor (Using MDC Net)	100.0	101.5	72.3
22. Unit Capacity Factor (Using DER Net)	95.5	96.9	69.9
23. Unit Forced Outage Rate	0.0	0.3	10.6
24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
Refueling - December 28, 1993 - 55 days			

25. If Shut Down At End Df Report Period. Estimated Date of Startup: 26. Units In Test Status (Prior to Commercial Operation): Forecast Achieved

> INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION

NRC Calculated from Generator Nameplate Data: 1 037 937 KVA x 0.90 Pf=934 MW

DOCKET NO	50-287
UNIT	Oconee 3
DATE	September 15, 1993
COMPLETED BY	R.A. Williams
TELEPHONE	704-382-5346

MONTH	August, 1993	5		
DAY	AVERAGE DAILY POWER (NWe-Net)	LEVEL	DAY	AVERAGE
1			17	
2			18	
3	854		19	
4	854		20	
5	853		21	
6	853		22	
7	851		23	
8			24	
9	851		25	
10	850		26	
11			27	<u> </u>
12	848		28	
13	848		29	
14		<u> </u>	30	
15	847		31	
16	846			

AVERAGE DAILY POWER LEVEL (MWe-Net)
B45
845
844
844
835
841
842
841
811

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UNIT SHUTDOWNS AND POWER REDUCTIONS										DNS DOCKET NO. 50-287 UNIT NAME OCONEE 3
	•				REPORT MONTHAugust 1993_			Augu	st 1993	DATE 09/15/93 COMPLETED BY N. C. SIMMONS TELEPHONE (704)-382-5263
			(1)		(2) R	(3) MET-		(4)	(5)	
N O	DATE		T Y P E	DURATION HOURS	E A S O N	HOD OF SHUT DOWN R/X	LICENSE EVENT REPORT NO.	SYS- TEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
1			NO	SHUTDOWNS	OR		REDUCTION	S		
(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-Operator 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 Licen Event Report (LER) File (NUREG-0161) (5) Exhibit I - Same Source										

DOCKET: 50-287 UNIT: Oconee 3 Date: 09/15/93

NARRATIVE SUMMARY

MONTH: August 1993

Oconee Unit 3 began the month of August operating at 100% full power. The unit operated at or near 100% full power for the entire month.

Prepared by N. C. Simmons Telephone: 704-382-5263

MONTHLY REFUELING INFORMATION REQUEST

- 1. Facility name: <u>Oconee</u>, <u>Unit 3</u>
- 2. Scheduled next refueling shutdown: December 1993
- 3. Scheduled restart following refueling: February 1994

THE PROJECT MANAGER HAS BEEN ADVISED BY SEPARATE COMMUNICATION OF ANY T.S. CHANGE OR LICENSE AMENDMENT. THEREFORE, QUESTIONS 4 THROUGH 6 WILL NO LONGER BE MAINTAINED IN THIS REPORT.

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

If yes, what will these be?

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions?

- 5. Scheduled date(s) for submitting proposed licensing action and supporting information.
- 6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures).
- 7. Number of Fuel assemblies

(a) in the core: <u>177</u>
(b) in the spent fuel pool: <u>516</u>
(c) in the ISFSI: <u>See Unit 1</u>****

- Present licensed fuel pool capacity: <u>825</u>
 Size of requested or planned increase: **
- 9. Projected date of last refueling which can be accommodated by present licensed capacity: <u>July 2014***</u>

DUKE POWER COMPANY

DATE: <u>September 15</u>, 1993

Phone: <u>704-382-5263</u>

Name of Contact: N. C. Simmons

** See footnote on Unit 1
*** This date is based on 88 Dry Storage Modules. We currently have 20
modules (480 spaces). Additional modules will be built on an as needed
basis.
**** See footnote on Unit 1

OCONEE NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

July 1993

1. Personnel Exposure -

The total station liquid release for July has been compared with the Technical Specifications maximum annual dose commitment and was less than 10 percent of this limit.

The total station gaseous release for July has been compared with the Technical Specifications maximum annual dose commitment and was less than 10 percent of this limit.