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50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287
AUTH.NAME AUTHOR AFFILIATION
REAVIS,J.A. Duke Power Co.
TUCKER,H.B. Duke Power Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Feb 1988.W/880315 ltr.

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OPERATING DATA REPORT

DOCKET 50-269
DATE 03-15-88
COMPLETED BY J. A. Reavis
TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: OCONEE 1
2. Reporting Period: JANUARY 1, 1988-JANUARY 31, 1988
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 886
6. Maximum Dependable Capacity (Gross 899
7. Maximum Dependable Capacity (Net MW 846
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: _____

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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	696.0	1,440.0	128,209.0
12. Number Of Hours Reactor Was Critical	696.0	1,440.0	94,748.7
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	696.0	1,440.0	91,136.8
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1,636,320	3,548,136	220,033,201
17. Gross Electrical Energy Generated (MWH)	564,244	1,225,869	76,333,526
18. Net Electrical Energy Generated (MWH)	538,290	1,171,188	72,382,293
19. Unit Service Factor	100.0	100.0	71.1
20. Unit Availability Factor	100.0	100.0	71.1
21. Unit Capacity Factor (Using MDC Net)	91.4	96.1	65.5
22. Unit Capacity Factor (Using DER Net)	87.3	91.8	63.7
23. Unit Forced Outage Rate	0.0	0.0	13.7

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		

D24
1/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-269
UNIT Oconee 1
DATE March 15, 1988
COMPLETED J. A. Reavis
TELEPHONE 704-373-7567

MONTH FEBRUARY, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	850	17	774
2	850	18	521
3	850	19	541
4	848	20	542
5	845	21	540
6	851	22	541
7	851	23	540
8	850	24	603
9	850	25	841
10	850	26	848
11	850	27	848
12	850	28	849
13	850	29	848
14	850		
15	850		
16	849		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH ____February 1988_

DOCKET NO. 50-269
UNIT NAME OCONEE 1
DATE 03/15/88
COMPLETED BY J. A. REAVIS
TELEPHONE (704)-373-7567

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
1-p	88- 2- 5	F	--	A	--		WG	XXXXXX	DECREASED POWER TO MAINTAIN AUX STEAM WHEN THE AUX BOILER TRIPPED
2-p	88- 2-17	F	--	A	--		HH	PUMPXX	BROKEN OIL PUMP SHAFT ON THE '1B' MAIN FEEDWATER PUMP
3-p	88- 2-18	F	--	B	--		HH	PUMPXX	HOLDING POWER LEVEL TO CHECK HIGH SPEED TRIP ON '1A' MAIN FDW PUMP
4-p	88- 2-18	F	--	A	--		HH	PUMPXX	VIBRATION IN THE SHAFT OIL PUMP/JACKING SHAFT OF THE '1B' MAIN FDW PUMP

(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 License Event Report (LER) File (NUREG-0161)

(5)
Exhibit I - Same Source

DOCKET NO: 50-269

UNIT: Oconee 1

DATE: 03/15/88

NARRATIVE SUMMARY

Month: February 1988

Oconee Unit 1 began the month of February operating at 100% full power. At 1100 on 2/05, the unit reduced power to 98.5% to maintain auxiliary steam following an Auxiliary Boiler Trip. The unit returned to 100% power at 1200 the same day. The unit remained at 100% power until 1836 on 2/17, when the unit reduced power to 61% following a Feedwater Pump trip caused by a broken oil pump shaft. The unit began increasing power and held at 64% to check the high speed trip on the Feedwater Pump, and at 66% due to vibration in the oil pump shaft. The unit returned to 100% power at 0410 on 2/24, where it operated for the remainder of the month.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee, Unit 1

2. Scheduled next refueling shutdown: January, 1989

3. Scheduled restart following refueling: March, 1989

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? No

   If yes, what will these be? ----------

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

5. Scheduled date(s) for submitting proposed licensing action and supporting information: N/A

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: 177
   (b) in the spent fuel pool: 934*

8. Present licensed fuel pool capacity: 1312
   Size of requested or planned increase: ---

9. Projected date of last refueling which can be accommodated by present licensed capacity: August, 1991

DUKE POWER COMPANY DATE: March 15, 1988

Name of Contact: J. A. Reavis Phone: 704-373-7567

*Represents the combined total for Units 1 and 2.

OPERATING DATA REPORT

DOCKET 50-270
DATE 03-15-88
COMPLETED BY J. A. Reavis
TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: OCONEE 2
2. Reporting Period: JANUARY 1, 1988-JANUARY 31, 1988
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 886
6. Maximum Dependable Capacity (Gross 899
7. Maximum Dependable Capacity (Net MW 846
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: _____

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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	696.0	1,440.0	118,129.0
12. Number Of Hours Reactor Was Critical	53.4	797.4	89,493.6
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	52.1	796.1	88,089.1
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	110,328	1,736,808	209,376,910
17. Gross Electrical Energy Generated (MWH)	36,660	580,690	71,263,371
18. Net Electrical Energy Generated (MWH)	31,263	548,262	67,745,580
19. Unit Service Factor	7.5	55.3	74.6
20. Unit Availability Factor	7.5	55.3	74.6
21. Unit Capacity Factor (Using MDC Net)	5.3	45.0	66.6
22. Unit Capacity Factor (Using DER Net)	5.1	43.0	64.7
23. Unit Forced Outage Rate	0.0	0.0	11.8

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling - February 3, 1988 - 10 Weeks

25. If Shut Down At End Of Report Period. Estimated Date of Startup: April 14, 1988

26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-270
UNIT Oconee 2
DATE March 15, 1988
COMPLETED J. A. Reavis
TELEPHONE 704-373-7567

MONTH FEBRUARY, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	693	17	0
2	693	18	0
3	44	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0		
15	0		
16	0		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH ____February 1988_

DOCKET NO. _50-270_____
UNIT NAME _OCONEE 2_____
DATE _03/15/88_____
COMPLETED BY _J. A. REAVIS_____
TELEPHONE _(704)-373-7567___

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3-p	88- 2- 1	F	--	A	--		CH	HTEXCH	HIGH LEVEL 'B' STEAM GENERATOR
1	88- 2- 3	S	643.90	C	1		RC	FUELXX	NORMAL 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-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 License Event Report (LER) File (NUREG-0161)

(5)
Exhibit I - Same Source

DOCKET NO: 50-270

UNIT: Oconee 2

DATE: 03/15/88

NARRATIVE SUMMARY

Month: February 1988

Oconee Unit 2 began the month of February operating at 85% power, limited by high level in the "B" Steam Generator. The unit commenced shutting down for its End of Cycle 9 Refueling Outage at 0018 on 2/03. The unit was removed from service at 0406 on 2/03, and ended the month in a refueling outage.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee, Unit 2

2. Scheduled next refueling shutdown: Currently Refueling

3. Scheduled restart following refueling: April, 1988

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? No

   If yes, what will these be? ----------

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

5. Scheduled date(s) for submitting proposed licensing action and supporting information: N/A

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: 177
   (b) in the spent fuel pool: 934*

8. Present licensed fuel pool capacity: 1312
   Size of requested or planned increase: ---

9. Projected date of last refueling which can be accommodated by present licensed capacity: August, 1991

DUKE POWER COMPANY DATE: March 15, 1988

Name of Contact: J. A. Reavis Phone: 704-373-7567

*Represents the combined total for Units 1 and 2.

OPERATING DATA REPORT

DOCKET 50-287
DATE 03-15-88
COMPLETED BY J. A. Reavis
TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: OCONEE 3
2. Reporting Period: JANUARY 1, 1988-JANUARY 31, 1988
3. Licensed Thermal Power (MWt): 2568
4. Nameplate Rating (Gross MWe): 934
5. Design Electrical Rating (Net MWe): 886
6. Maximum Dependable Capacity (Gross 899
7. Maximum Dependable Capacity (Net MW 846
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: _____

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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	696.0	1,440.0	115,776.0
12. Number Of Hours Reactor Was Critical	696.0	1,440.0	84,788.9
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	696.0	1,440.0	83,425.2
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1,801,512	3,648,624	204,548,086
17. Gross Electrical Energy Generated (MWH)	618,794	1,261,632	70,472,177
18. Net Electrical Energy Generated (MWH)	594,063	1,210,113	67,138,743
19. Unit Service Factor	100.0	100.0	72.1
20. Unit Availability Factor	100.0	100.0	72.1
21. Unit Capacity Factor (Using MDC Net)	100.9	99.3	67.3
22. Unit Capacity Factor (Using DER Net)	96.3	94.9	65.5
23. Unit Forced Outage Rate	0.0	0.0	13.0

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling - August 3, 1988 - 7 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		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-287
UNIT Oconee 3
DATE March 15, 1988
COMPLETED J. A. Reavis
TELEPHONE 704-373-7567

MONTH FEBRUARY, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	856	17	852
2	855	18	852
3	855	19	851
4	856	20	851
5	855	21	852
6	856	22	852
7	855	23	851
8	855	24	850
9	856	25	851
10	855	26	852
11	855	27	853
12	855	28	852
13	855	29	852
14	855		
15	854		
16	853		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-287
UNIT NAME OCONEE 3
DATE 03/15/88
COMPLETED BY J. A. REAVIS
TELEPHONE (704)-373-7567

REPORT MONTH February 1988

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
		NO	SHUTDOWNS	OR	RED	UCTIONS			

(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 License Event Report (LER) File (NUREG-0161)

(5)
Exhibit I - Same Source

DOCKET NO: 50-287

UNIT: Oconee 3

DATE: 03/15/88

NARRATIVE SUMMARY

Month: February 1988

Oconee Unit 3 operated at 100% full power for the entire month of February.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee, Unit 3

2. Scheduled next refueling shutdown: August, 1988

3. Scheduled restart following refueling: September, 1988

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? No

   If yes, what will these be? ----------

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

5. Scheduled date(s) for submitting proposed licensing action and supporting information: N/A

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: 177
   (b) in the spent fuel pool: 488

8. Present licensed fuel pool capacity: 875
   Size of requested or planned increase: ---

9. Projected date of last refueling which can be accommodated by present licensed capacity: August, 1991

DUKE POWER COMPANY DATE: March 15, 1988

Name of Contact: J. A. Reavis Phone: 704-373-7567

OCONEE NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

1. Personnel Exposure

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

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

DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

March 15, 1988

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

Re: Oconee Nuclear Station
Docket No. 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 February, 1988.

Very truly yours,

Hal B. Tucker

JAR/7000/sbn

Attachment

xc: Dr. J. Nelson Grace
Regional Administrator/Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. Phil Ross
U. S. Nuclear Regulatory Commission
MNBB-5715
Washington, D. C. 20555

Ms. Helen Pastis, Project Manager
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. P. H. Skinner
NRC Resident Inspector
Oconee Nuclear Station

American Nuclear Insurers
c/o Dottie Sherman, ANI Library
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Farmington, CT 06032

INPO Records Center
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Atlanta, Georgia 30323

Mr. Robert G. Rogers
Nuclear Assurance Corporation
6251 Crooked Creek Road
Norcross, Georgia 30092

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