



Duke Power
526 South Church Street
P.O. Box 1006
Charlotte, NC 28201-1006

March 14, 2000

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

Subject: Duke Energy Corporation
Oconee Nuclear Station, Units 1, 2, and 3
Docket Numbers 50-269, 50-270 and 50-287
Monthly Performance and Operation Status-February, 2000

Please find attached information concerning the performance and operation status of the Oconee Nuclear Station for the month of February, 2000.

Any questions or comments may be directed to Roger A. Williams at (704) 382-5346.

Sincerely,

Terry Dimmery by David Patton

Terry Dimmery, Manager
Nuclear Business Support

Attachment
XC:

L. A. Reyes, Regional Administrator
USNRC, Region II

Dave LaBarge, Project Manager
USNRC, ONRR

INPO Records Center

Ms. Margaret Aucoin
Nuclear Assurance Corporation

Dottie Sherman, ANI Library
American Nuclear Insurers

Oconee NRC Inspector

IE24

Document Control Desk
U.S. NRC - Oconee

bxc:

L. E. Nicholson (ON03RC)
RGC Site Licensing File
ELL (EC050)

Operating Data Report

| | |
|--------------|----------------|
| Docket No. | 50-269 |
| Date | March 14, 2000 |
| Completed By | Roger Williams |
| Telephone | 704-382-5346 |

Operating Status

1. Unit Name: Oconee 1
2. Reporting Period: February 1, 2000 - February 29, 2000
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 Occured in Capacity Ratings (Items Number 3-7) 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 | YTD | Cumulative |
|---|------------|---------|------------|
| 11. Hours in Reporting Period | 696.0 | 1440.0 | 233401.0 |
| 12. Number of Hours Reactor was Critical | 380.7 | 1124.7 | 180953.0 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator On-Line | 379.1 | 1123.1 | 177736.7 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 969471 | 2879447 | 438202301 |
| 17. Gross Electrical Energy Generated (MWH) | 339905 | 1010381 | 151446471 |
| 18. Net Electrical Energy Generated (MWH) | 323573 | 965500 | 143959536 |
| 19. Unit Service Factor | 54.5 | 78.0 | 76.2 |
| 20. Unit Availability Factor | 54.5 | 78.0 | 76.2 |
| 21. Unit Capacity Factor (Using MDC Net) | 55.0 | 79.3 | 72.2 |
| 22. Unit Capacity Factor (Using DER Net) | 52.5 | 75.7 | 69.6 |
| 23. Unit Forced Outage Rate | 45.5 | 22.0 | 10.0 |
| 24. Shutdown Scheduled Over Next 6 Months (Type, Date and Duration of Each) | | | |

25. If ShutDown 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

UNIT SHUTDOWNS

DOCKET NO. 50-269UNIT NAME: Oconee 1DATE: March 14, 2000COMPLETED BY: Roger WilliamsTELEPHONE: 704-382-5346REPORT MONTH: February, 2000

| No. | Date: | Type F - Forced S - Scheduled | Duration Hours | (1) Reason | (2) Method of Shutdown R/X | Licensed Event Report No. | Cause and Corrective Action to Prevent Recurrence |
|-----|----------|-------------------------------------|-------------------|------------|-------------------------------|---------------------------------|---|
| 1 | 02/16/00 | F | 130.90 | A | 1 | | REPAIR REACTOR COOLANT SYSTEM PRESSURE BOUNDARY PIPING LEAK |
| 2 | 02/22/00 | F | 186.00 | A | 4 | | REPLACE REACTOR COOLANT PUMP SEALS ON 3 REACTOR COOLANT PUMPS |

Summary:

The unit began the month of February operating at 100% full power. The unit operated at or near 100% full power until 02/16/00 at 1352, when the unit began decreasing power to cold shutdown to repair reactor coolant system pressure boundary piping leak. The unit was taken off-line 02/16/00 at 1906 to repair reactor coolant system pressure boundary piping leak. On 02/22/00 at approximately 0600 the reactor coolant pump seals on 3 reactor coolant pumps were replaced. The unit was in the outage the remainder of the month.

(1) 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)

(2) Method

1 - Manual

3 - Automatic Trip/Scram

5 - Other (Explain)

2 - Manual Trip/Scram

4 - Continuation

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee Unit 1
2. Scheduled next refueling shutdown: November, 2000
3. Scheduled restart following refueling: January, 2001

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: 177
(b) in the spent fuel pool: 1070*
(c) in the ISFSI: 1176****
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 license capacity: March 2013***

DUKE POWER COMPANY

DATE: March 14, 2000

Name of Contact: R. A. Williams

Phone: (704) - 382-5346

* Represents the combined total for Units 1 and 2

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

*** This date is based on 88 Dry Storage Modules. We currently have 48 modules (1152 spaces). Additional modules will be built on an as-needed basis.

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

Operating Data Report

| | |
|--------------|----------------|
| Docket No. | 50-270 |
| Date | March 14, 2000 |
| Completed By | Roger Williams |
| Telephone | 704-382-5346 |

Operating Status

1. Unit Name: Oconee 2
2. Reporting Period: February 1, 2000 - February 29, 2000
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 Occured in Capacity Ratings (Items Number 3-7) 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 | YTD | Cumulative |
|---|------------|---------|------------|
| 11. Hours in Reporting Period | 696.0 | 1440.0 | 223321.0 |
| 12. Number of Hours Reactor was Critical | 696.0 | 1440.0 | 177997.3 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator On-Line | 696.0 | 1440.0 | 175571.5 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 1787328 | 6576751 | 434801557 |
| 17. Gross Electrical Energy Generated (MWH) | 624451 | 1295513 | 148221856 |
| 18. Net Electrical Energy Generated (MWH) | 599462 | 1243182 | 141175082 |
| 19. Unit Service Factor | 100.0 | 100.0 | 78.6 |
| 20. Unit Availability Factor | 100.0 | 100.0 | 78.6 |
| 21. Unit Capacity Factor (Using MDC Net) | 101.8 | 102.0 | 74.0 |
| 22. Unit Capacity Factor (Using DER Net) | 97.2 | 97.4 | 71.4 |
| 23. Unit Forced Outage Rate | 0.0 | 0.0 | 9.6 |
| 24. Shutdown Scheduled Over Next 6 Months (Type, Date and Duration of Each) | | | |

25. If ShutDown 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

UNIT SHUTDOWNS

DOCKET NO. 50-270

UNIT NAME: Oconee 2

DATE: March 14, 2000

COMPLETED BY: Roger Williams

TELEPHONE: 704-382-5346

REPORT MONTH: February, 2000

| No. | Date: | Type F - Forced S - Scheduled | Duration Hours | (1) Reason | (2) Method of Shutdown R/X | Licensed Event Report No. | Cause and Corrective Action to Prevent Recurrence |
|-----|-------|-------------------------------------|-------------------|----------------|-------------------------------|---------------------------------|---|
| | | | No | Outages | for the Month | | |

Summary:

(1) 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)

(2) Method

- 1 - Manual
- 2 - Manual Trip/Scram
- 3 - Automatic Trip/Scram
- 4 - Continuation
- 5 - Other (Explain)

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee Unit 2
2. Scheduled next refueling shutdown: April, 2001
3. Scheduled restart following refueling: June, 2001

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: 177
(b) in the spent fuel pool: 1070*
(c) in the ISFSI: See unit 1 ****
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 license capacity: October 2013***

DUKE POWER COMPANY

DATE: March 14, 2000

Name of Contact: R. A. Williams

Phone: (704) - 382-5346

* 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 48 modules (1152 spaces). Additional modules will be built on an as needed basis.

**** See footnote on Unit 1

Operating Data Report

| | |
|--------------|-----------------------|
| Docket No. | <u>50-287</u> |
| Date | <u>March 14, 2000</u> |
| Completed By | <u>Roger Williams</u> |
| Telephone | <u>704-382-5346</u> |

Operating Status

1. Unit Name: Oconee 3
2. Reporting Period: February 1, 2000 - February 29, 2000
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 Occured in Capacity Ratings (Items Number 3-7) 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 | YTD | Cumulative |
|---|------------|----------|------------|
| 11. Hours in Reporting Period | 696.0 | 1440.0 | 220968.0 |
| 12. Number of Hours Reactor was Critical | 696.0 | 1411.0 | 173463.1 |
| 13. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. Hours Generator On-Line | 696.0 | 1403.3 | 171034.4 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. Gross Thermal Energy Generated (MWH) | 1787328 | 10118126 | 433181028 |
| 17. Gross Electrical Energy Generated (MWH) | 628886 | 1256179 | 147473306 |
| 18. Net Electrical Energy Generated (MWH) | 603868 | 1203687 | 140665878 |
| 19. Unit Service Factor | 100.0 | 97.4 | 77.4 |
| 20. Unit Availability Factor | 100.0 | 97.4 | 77.4 |
| 21. Unit Capacity Factor (Using MDC Net) | 102.6 | 98.8 | 74.5 |
| 22. Unit Capacity Factor (Using DER Net) | 97.9 | 94.3 | 71.8 |
| 23. Unit Forced Outage Rate | 0.0 | 2.6 | 9.9 |
| 24. Shutdown Scheduled Over Next 6 Months (Type, Date and Duration of Each) | | | |

25. If ShutDown 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

UNIT SHUTDOWNS

DOCKET NO. 50-287

UNIT NAME: Oconee 3

DATE: March 14, 2000

COMPLETED BY: Roger Williams

TELEPHONE: 704-382-5346

REPORT MONTH: February, 2000

| No. | Date: | Type F - Forced S - Scheduled | Duration Hours | (1) Reason | (2) Method of Shutdown R/X | Licensed Event Report No. | Cause and Corrective Action to Prevent Recurrence |
|-----|-------|-------------------------------------|-------------------|----------------|-------------------------------|---------------------------------|---|
| | | | No | Outages | for the Month | | |

Summary:

(1) 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)

(2) Method

- 1 - Manual
- 2 - Manual Trip/Scram
- 3 - Automatic Trip/Scram
- 4 - Continuation
- 5 - Other (Explain)

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Oconee Unit 3
2. Scheduled next refueling shutdown: April 2000
3. Scheduled restart following refueling: May 2000

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: 177
 (b) in the spent fuel pool: 540
 (c) in the ISFSI: See Unit 1 ****
8. Present licensed fuel pool capacity: 825
Size of requested or planned increase: **
9. Projected date of last refueling which can be accommodated by present license capacity: July 2014***

DUKE POWER COMPANY

DATE: March 14, 2000

Name of Contact: R. A. Williams

Phone: (704) - 382-5346

** See footnote of Unit 1

*** This date is based on 88 Dry Storage Modules. We currently have 48 modules (1152 spaces). Additional modules will be built on an as needed basis.

**** See footnote on Unit 1

OCONEE NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

JANUARY 2000

1. Personnel Exposure -

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.