



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

March 13, 2002

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

Subject: Duke Energy Corporation  
McGuire Nuclear Station, Units 1 and 2  
Docket Numbers 50-369 and 50-370  
Monthly Performance and Operation Status-February, 2002

Please find attached information concerning the performance and operation status of the McGuire Nuclear Station for the month of February, 2002.

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

Sincerely,

Terry Dimmery, Manager  
Nuclear Business Support

Attachment  
XC:

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

Frank Rinaldi, Project Manager  
USNRC, ONRR

INPO Records Center

Ms. Margaret Aucoin  
Nuclear Assurance Corporation

Dottie Sherman, ANI Library  
American Nuclear Insurers

Scott Schaeffer, Senior Resident Inspector

IE24

Document Control Desk  
U.S. NRC - McGuire

bxc:

C. J. Thomas (MG01RC)  
RGC Site Licensing File  
ELL (EC050)

# Operating Data Report

Docket No.	<u>50-369</u>
Date	<u>March 13, 2002</u>
Completed By	<u>Roger Williams</u>
Telephone	<u>704-382-5346</u>

## Operating Status

- |   |                                      |
|---|--------------------------------------|
| 1. Unit Name:   | McGuire 1                            |
| 2. Reporting Period:  | February 1, 2002 - February 28, 2002 |
| 3. Licensed Thermal Power (MWt):  | 3411                                 |
| 4. Nameplate Rating (Gross MWe):  | 1305 *                               |
| 5. Design Electrical Rating (Net Mwe):  | 1180                                 |
| 6. Maximum Dependable Capacity (Gross MWe):   | 1144                                 |
| 7. Maximum Dependable Capacity (Net MWe):   | 1100                                 |
| 8. If Changes Occured in Capacity Ratings (Items Number 3-7) Since Last Report, Give Reasons: |                                      |

**Notes: \*Nameplate Rating (Gross MWe) calculated as 1450.000 MVA \* .90 power factor per Page iii, NUREG-0020.**

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	672.0	1416.0	177480.0
12. Number of Hours Reactor was Critical	672.0	1416.0	136347.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	672.0	1416.0	135096.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2290779	15728912	445380658
17. Gross Electrical Energy Generated (MWH)	806200	1698951	149752701
18. Net Electrical Energy Generated (MWH)	778005	1640781	143455791
19. Unit Service Factor	100.0	100.0	76.1
20. Unit Availability Factor	100.0	100.0	76.1
21. Unit Capacity Factor (Using MDC Net)	105.2	105.3	71.2
22. Unit Capacity Factor (Using DER Net)	98.1	98.2	68.5
23. Unit Forced Outage Rate	0.0	0.0	9.7
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	_____	_____

**UNIT SHUTDOWNS**

**DOCKET NO.** 50-369

**UNIT NAME:** McGuire 1

**DATE:** March 13, 2002

**COMPLETED BY:** Roger Williams

**TELEPHONE:** 704-382-5346

**REPORT MONTH:** February, 2002

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
			<b>No</b>	<b>Outages</b>	<b>for the Month</b>		

**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)



# Operating Data Report

Docket No.	50-370
Date	March 13, 2002
Completed By	Roger Williams
Telephone	704-382-5346

## Operating Status

1. Unit Name: McGuire 2
2. Reporting Period: February 1, 2002 - February 28, 2002
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1305 \*
5. Design Electrical Rating (Net MWe): 1180
6. Maximum Dependable Capacity (Gross MWe): 1144
7. Maximum Dependable Capacity (Net MWe): 1100
8. If Changes Occured in Capacity Ratings (Items Number 3-7) Since Last Report, Give Reasons:

**Notes: \*Nameplate Rating (Gross MWe) calculated as 1450.000 MVA \* .90 power factor per Page iii, NUREG-0020.**

- 
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	672.0	1416.0	157776.0
12. Number of Hours Reactor was Critical	527.0	1271.0	129089.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	527.0	1271.0	127862.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1765305	20029535	437420526
17. Gross Electrical Energy Generated (MWH)	618881	1507261	146803800
18. Net Electrical Energy Generated (MWH)	595590	1453413	140922692
19. Unit Service Factor	78.4	89.8	81.0
20. Unit Availability Factor	78.4	89.8	81.0
21. Unit Capacity Factor (Using MDC Net)	80.6	93.3	79.1
22. Unit Capacity Factor (Using DER Net)	75.1	87.0	75.7
23. Unit Forced Outage Rate	0.0	0.0	5.7
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	_____	_____

**UNIT SHUTDOWNS**

**DOCKET NO.** 50-370  
**UNIT NAME:** McGuire 2  
**DATE:** March 13, 2002  
**COMPLETED BY:** Roger Williams  
**TELEPHONE:** 704-382-5346

**REPORT MONTH:** February, 2002

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	02/22/02	S	145.00	C	1		END-OF-CYCLE 14 REFUELING OUTAGE

**Summary:**  
 McGuire unit 2 began the month of February operating at approximately 100% full power. The unit began coasting down to end-of-cycle 14 refueling outage on 02/16/02 at 1000. The unit held at 98% power from 1300 to 02/18/02 at 0028. The unit continued load decrease and held at 97% power from 02/18/02 at 0230 to 02/22/02 at 1200. The unit commenced load decrease to begin the end-of-cycle 14 refueling outage. The unit was taken off-line 02/22/02 at 2300 to begin end-of-cycle 14 refueling outage. The unit was in the refueling 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
- 2 - Manual Trip/Scram
- 3 - Automatic Trip/Scram
- 4 - Continuation
- 5 - Other (Explain)

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: McGuire Unit 2
2. Scheduled next refueling shutdown: Currently Refueling
3. Scheduled restart following refueling: March 2002

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: 193  
   (b)     in the spent fuel pool: 1041  
   (c)     in the ISFSI: 160
8. Present licensed fuel pool capacity: 1463  
Size of requested or planned increase: ---
9. Projected date of last refueling which can be accommodated by present license capacity:  
June 2003

DUKE POWER COMPANY

DATE: March 13, 2002

Name of Contact: R. A. Williams

Phone: (704) - 382-5346

McGUIRE NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

JANUARY 2002

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.