

# OPERATING DATA REPORT

DOCKET NO. 50-369  
 DATE 12-15-83  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

## OPERATING STATUS

1. Unit Name: McGuire Unit 1
2. Reporting Period: November 1, 1983-November 30, 1983
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): \_\_\_\_\_
7. Maximum Dependable Capacity (Net MWe): 1180
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: \_\_\_\_\_

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

9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720.0	8 016.0	17 520.0
12. Number Of Hours Reactor Was Critical	540.3	4 237.5	11 375.6
13. Reactor Reserve Shutdown Hours	-	-	-
14. Hours Generator On-Line	532.0	4 169.5	11 261.8
15. Unit Reserve Shutdown Hours	-	-	-
16. Gross Thermal Energy Generated (MWH)	1 623 905	11 923 264	25 425 682
17. Gross Electrical Energy Generated (MWH)	574 272	4 176 661	8 803 252
18. Net Electrical Energy Generated (MWH)	548 076	3 950 543	8 271 866
19. Unit Service Factor	73.9	52.0	64.3
20. Unit Availability Factor	73.9	52.0	64.3
21. Unit Capacity Factor (Using MDC Net)	64.5	41.8	40.0
22. Unit Capacity Factor (Using DER Net)	64.5	41.8	40.0
23. Unit Forced Outage Rate	0.6	19.1	21.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refueling - February 26, 1984 - 7 Weeks

25. If Shut Down At End Of Report Period, Estimated Date of Startup: \_\_\_\_\_

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

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast

Achieved

8312200543 831130  
 PDR ADDOCK 05000369  
 R PDR

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-369  
 UNIT McGuire Unit 1  
 DATE 12-15-83  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

MONTH November, 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1106</u>
2	<u>1125</u>
3	<u>1113</u>
4	<u>1084</u>
5	<u>1084</u>
6	<u>1060</u>
7	<u>969</u>
8	<u>1088</u>
9	<u>1085</u>
10	<u>1085</u>
11	<u>1017</u>
12	<u>458</u>
13	<u>-</u>
14	<u>-</u>
15	<u>-</u>
16	<u>-</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>-</u>
18	<u>-</u>
19	<u>-</u>
20	<u>132</u>
21	<u>930</u>
22	<u>1042</u>
23	<u>1074</u>
24	<u>1075</u>
25	<u>1075</u>
26	<u>1075</u>
27	<u>1075</u>
28	<u>1096</u>
29	<u>1111</u>
30	<u>1027</u>
31	<u>-</u>

## 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.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November, 1983

DOCKET NO. 50-369  
 UNIT NAME McGuire 1  
 DATE 12/15/83  
 COMPLETED BY J.A. Reavis  
 TELEPHONE 704-373-7567

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
37-P	83-11-01	F	--	A	-		CC	VALVEX	#4 governor valve isolated.
38-P	83-11-01	F	--	A	-		CC	VALVEX	#4 governor valve isolated, elevated temperature.
39-P	83-11-03	F	--	A	-		CC	VALVEX	#4 governor valve isolated.
40-P	83-11-07	F	--	A	-		SB	PUMPXX	Repair mister pump to reduce lower containment temperature.
41-P	83-11-07	F	--	A	-		CC	VALVEX	#4 governor valve isolated.
19	83-11-12	S	184.62	H	1		XX	ELECON	Seal electrical connections in containment.
20	83-11-20	F	3.42	A	*		HA	CKTBRK	Generator breaker 1A opened due to malfunctioning relay. Reactor remained critical.
42-P	83-11-20	F	--	B	-		1E	ZZZZZZ	Incore/Excore calibration due to realigned power range detector.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit C - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November, 1983

DOCKET NO. 50-369  
 UNIT NAME McGuire 1  
 DATE 12/15/83  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
43-P	83-11-21	F	--	A	-		CC	VALVEX	#4 governor valve isolated.
44-P	83-11-21	F	--	B	-		IE	ZZZZZZ	Incore/Excore calibration
45-P	83-11-23	F	--	A	-		CC	VALVEX	#4 governor valve isolated.
46-P	83-11-28	F	--	A	-		CC	VALVEX	#4 governor valve isolated.
47-P	83-11-30	F	--	A	-		CH	PUMPXX	Repair B feedwater pump controls.

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 (NURLG-  
 0161)

5  
 Exhibit I - Same Source

DOCKET NO: 50-369

UNIT: McGuire 1

DATE: 12/15/83

#### NARRATIVE SUMMARY

Month: November, 1983

McGuire unit 1 entered the month limited to between 93 and 96 percent power due to problems with the number 4 governor valve. Repairs will be completed in the re-fueling outage next spring.

Power was also reduced on the 7th to repair a lower containment mister pump used to help control lower containment temperature.

The unit was shutdown on the 12th. to seal electrical connections within the reactor building and returned to service on the 20th. The turbine-generator tripped about three hours after being placed on-line. The cause was a damaged relay operating the 1A generator breaker. The reactor was not shutdown and the unit returned to service within 3½ hours.

Incore/Excore Nuclear Instrumentation was calibrated on November 20 and 21 requiring power output to be reduced.

McGuire 1 ended the month at 50% while repairs were being made to the 1B feed-water pump control oil system.



MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: McGuire Unit 1.
2. Scheduled next refueling shutdown: February , 1984.
3. Scheduled restart following refueling: April , 1984.
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes.  
If yes, what will these be? Technical Specification change needed to support transition to optimized fuel.
- If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions? No.
5. Scheduled date(s) for submitting proposed licensing action and supporting information: December 12, 1983.
6. Important licensing considerations (new or different design or supplier, unreviewed design or performance analysis methods, significant changes in design or new operating procedures). Optimized fuel to be used.  
Improved thermal design procedure used in safety analysis.
7. Number of fuel assemblies (a) in the core: 193.  
(b) in the spent fuel pool: 31.
8. Present licensed fuel pool capacity: 500.  
Size of requested or planned increase: .
9. Projected date of last refueling which can be accommodated by present licensed capacity: .

DUKE POWER COMPANY

Date: December 15, 1983.

Name of Contact: J. A. Reavis

Phone: 704-373-7567

# OPERATING DATA REPORT

CORRECTED COPY

DOCKET NO. 50-369  
 DATE 11-15-83  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

## OPERATING STATUS

1. Unit Name: McGuire Unit 1
2. Reporting Period: October 1, 1983 - October 31, 1983
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): \_\_\_\_\_
7. Maximum Dependable Capacity (Net MWe): 1180
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: \_\_\_\_\_

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

9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>745.0</u>	<u>7 296. 0</u>	<u>16 800.0</u>
12. Number Of Hours Reactor Was Critical	<u>672.6</u>	<u>3 697.2</u>	<u>10 835.4</u>
13. Reactor Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
14. Hours Generator On-Line	<u>664.5</u>	<u>3 637.6</u>	<u>10 729.8</u>
15. Unit Reserve Shutdown Hours	<u>-</u>	<u>-</u>	<u>-</u>
16. Gross Thermal Energy Generated (MWH)	<u>1 935 163</u>	<u>10 299 359</u>	<u>23 801 777</u>
17. Gross Electrical Energy Generated (MWH)	<u>682 916</u>	<u>3 602 389</u>	<u>8 228 980</u>
18. Net Electrical Energy Generated (MWH)	<u>652 350</u>	<u>3 402 467</u>	<u>7 723 790</u>
19. Unit Service Factor	<u>89.2</u>	<u>49.9</u>	<u>63.9</u>
20. Unit Availability Factor	<u>89.2</u>	<u>49.9</u>	<u>63.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>74.2</u>	<u>39.5</u>	<u>39.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>74.2</u>	<u>39.5</u>	<u>39.0</u>
23. Unit Forced Outage Rate	<u>10.8</u>	<u>21.2</u>	<u>22.0</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
Refueling - February 26, 1984 - 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	_____	_____

# OPERATING DATA REPORT

DOCKET NO. 50-370  
 DATE 12-15-83  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

## OPERATING STATUS

1. Unit Name: McGuire Unit 2
2. Reporting Period: November 1, 1983-November 30, 1983
3. Licensed Thermal Power (MWt): 170
4. Nameplate Rating (Gross MWe): 1305\*
5. Design Electrical Rating (Net MWe): 1180
6. Maximum Dependable Capacity (Gross MWe):
7. Maximum Dependable Capacity (Net MWe): 1180
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes: Nameplate Rating  
 (Gross Mwe) calculated as  
 1450.000 MVA x .90 power  
 factor per page iii,  
 NUREG-0020.

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

This Month Yr.-to-Date Cumulative

11. Hours In Reporting Period
12. Number Of Hours Reactor Was Critical
13. Reactor Reserve Shutdown Hours
14. Hours Generator On-Line
15. Unit Reserve Shutdown Hours
16. Gross Thermal Energy Generated (MWH)
17. Gross Electrical Energy Generated (MWH)
18. Net Electrical Energy Generated (MWH)
19. Unit Service Factor
20. Unit Availability Factor
21. Unit Capacity Factor (Using MDC Net)
22. Unit Capacity Factor (Using DER Net)
23. Unit Forced Outage Rate
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

NOT IN COMMERCIAL OPERATION

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

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast	Achieved
_____	_____
_____	_____
_____	_____



McGuire Nuclear Station

Pressurizer Power Operated Relief Valve (PORV)  
and Safety Valve Challenges

<u>Unit</u>	<u>Date</u>	<u>Valve No. (*)</u>	<u>No. of Challenges</u>
2	11/16/83	2NC36 (P)	1
2	11/16/83	2NC32 (P)	1

\*S - Safety Valve  
P - PORV

## McGUIRE NUCLEAR STATION

### Operating Status Report

#### 1. Personnel Exposure

For the month of October, no individual(s) exceeded 10 percent of their allowable annual radiation dose limit.

#### 2. The total station liquid release contribution to whole body dose for October has been compared with the Technical Specifications annual value of 3 mrem, the total release for October was less than 10 percent.

The total station gaseous release contribution to any organ dose for October has been compared with the Technical Specifications annual value of 15 mrem; the total release for October 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

December 15, 1983

Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Document Control Desk

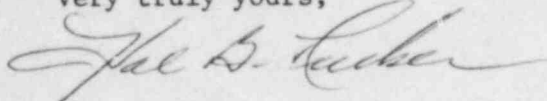
Re: McGuire Nuclear Station  
Docket No. 50-369, -370

Dear Sir:

Please find attached information concerning the performance and operating status of the McGuire Nuclear Station for the month of November, 1983.

Also attached is a corrected copy of the Operating Data Report for Unit 1.

Very truly yours,



Hal B. Tucker

JAR:scs

Attachments

cc: Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30303

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

INPO Records Center  
Suite 1500  
1100 Circle 75 Parkway  
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Mr. Ralph Birkel  
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P. O. Box 10412  
Palo Alto, California 94303

Senior Resident Inspector  
McGuire Nuclear Station

IK24  
1/1