

Duke Power Company  
Wachovia Center  
P.O. Box 1007  
Charlotte, N.C. 28201-1007



**DUKE POWER**

January 15, 1992

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

RE: McGuire Nuclear Station  
Docket No. 50-369 and 50-370

Dear Sir:

Please find attached information concerning the performance and operating status of the McGuire Nuclear Station for the month of December, 1991.

Very truly yours,

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

EOM/sdg  
Attachments

xc: Stewart D. Ebnetter  
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  
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T. A. Reed, Project Manager  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

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Germantown, MD 20874

American Nuclear Insurers  
c/o Dottie Sherman, ANI Library  
The Exchange, Suite 245  
270 Farmington Avenue  
Farmington, CT 06032

Ms. Vickie White  
Nuclear Assurance Corporation  
6251 Crooked Creek Road  
Norcross, GA 30092

P. K. VanDoorn  
Senior Resident Inspector  
McGuire Nuclear Station

US NRC - McGuire

Jan. 15, 1992

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bc. D. A. Braatz (PDS)  
D. R. Bradshaw (WC25A)  
K. S. Canady (EC08H)  
B. T. Faulkenberry (WC25I)  
R. O. Sharpe (MNS)  
D. E. Bortz (EC08G)  
T. E. Mooney  
B. J. Horsley - Catawba Contracts (WCi8C)  
N. A. Rutherford (WC25D)  
R. C. Norcutt (MNS)  
R. A. Williams (WC25A) (3)  
J. C. Wimbish (WC23C)  
E. C. Fisher (MNS)  
B. W. Walsh (PB02L)  
J. Roth (MNS)  
S. D. Galloway (CNS)  
C. D. Denton (PO05E)  
R. L. Gill (WC26A)

# OPERATING DATA REPORT

## OPERATING STATUS

DOCKET NO 50-369

DATE January 15, 1992

COMPLETED BY R.A. Williams

TELEPHONE 764-373-5987

1. Unit Name: McGuire 1
2. Reporting Period: December 1, 1991-December 31, 1991
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1305\*
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1171
7. Maximum Dependable Capacity (Net MWe): 1129
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. Reason For Restrictions, If any: \_\_\_\_\_

This Month Yr.-to-Date Cumulative

11. Hours In Reporting Period	744.0	8760.0	88392.0
12. Number Of Hours Reactor Was Critical	560.5	6327.6	61993.5
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	509.2	6260.9	61280.9
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1566100	20750099	186985661
17. Gross Electrical Energy Generated (MWH)	532234	7137390	64359825
18. Net Electrical Energy Generated (MWH)	504978	6842865	61431053
19. Unit Service Factor	68.4	71.5	69.3
20. Unit Availability Factor	68.4	71.5	69.3
21. Unit Capacity Factor (Using MDC Net)	60.1	69.2	60.2
22. Unit Capacity Factor (Using DER Net)	57.5	66.2	58.9
23. Unit Forced Outage Rate	14.0	9.1	12.5

24. Shutdown 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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# OPERATING DATA REPORT

DOCKET NO 50-269  
UNIT McGuire 1  
DATE January 15, 1991  
COMPLETED BY R.A. Williams  
TELEPHONE 704-373-5987

MONTH December, 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>116</u>
12	<u>324</u>
13	<u>635</u>
14	<u>916</u>
15	<u>1125</u>
16	<u>1134</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1143</u>
18	<u>1151</u>
19	<u>1150</u>
20	<u>1149</u>
21	<u>1113</u>
22	<u>1102</u>
23	<u>1126</u>
24	<u>1118</u>
25	<u>1107</u>
26	<u>1148</u>
27	<u>1147</u>
28	<u>1147</u>
29	<u>1148</u>
30	<u>1149</u>
31	<u>1140</u>

# UNIT SHUTDOWNS AND POWER REDUCTIONS

PAGE 1 OF 2

MONTH December 1991

DOCKET NO. 50-369  
UNIT NAME MCGUIRE 1  
DATE 01/15/92  
COMPLETED BY S. W. MOSER  
TELEPHONE (704)-373-5762

N O	DATE	(1) T Y P E	DURATION HOURS	(2) R E A S O N	(3) M E T H O D O F S H U T D O W N R/X	LICENSE EVENT REPORT NO.	(4) S Y S T E M C O D E	(5) C O M P O N E N T C O D E	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
5	91-12- 1	S	150.57	C	1		RC	FUELXX	END-OF-CYCLE '7' REFUELING OUTAGE
6	91-12- 7	F	82.53	A	--		CA	VESSEL	3.5 DAY OUTAGE EXTENSION DUE TO INSERVICE INSPECTION PROBLEMS
9-P	91-12-10	F	--	A	--		HA	INSTRU	RUNBACK - TURBINE CONTROL SYSTEM
10-P	91-12-10	F	--	A	--		HA	INSTRU	CORRECTION OF TURBINE CONTROL SYSTEM SETPOINT
11-P	91-12-10	S	--	B	--		HA	TURBIN	TURBINE SOAK
7	91-12-11	S	1.75	B	3		HA	TURBIN	TURBINE OVERSPEED TRIP TEST
12-P	91-12-11	S	--	B	--		RC	FUELXX	CORE FLUX MAPPING
13-P	91-12-12	S	--	B	--		RC	FUELXX	CORE FUEL MAPPING

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

(5)  
Exhibit I - Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

PAGE 2 OF 2

REPORT MONTH December 1991

DOCKET NO. 50-369  
 UNIT NAME MCGUIRE 1  
 DATE 01/15/92  
 COMPLETED BY S. W. MOSER  
 TELEPHONE (704)-373-5762

N O .	DATE	(1) T Y P E	DURATION HOURS	(2) R E A S O N	(3) M E T H O D O F S H U T D O W N R/X	LICENSE EVENT REPORT NO.	(4) S Y S - T E M C O D E	(5) C O M P O N E N T C O D E	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
14-P	91-12-13	S	--	B	--		IA	INSTRU	NUCLEAR INSTRUMENTATION CALIBRATION TESTING
15-P	91-12-14	F	--	A	--		HH	PUMPXX	LOW CONDENSATE BOOSTER PUMP SUCTION PRESSURE
16-P	91-12-14	F	--	A	--		HG	XXXXXX	HIGH OXYGEN LEVEL IN HOTWELL

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

(5)  
 Exhibit I - Same Source



DOCKET NO: 50-569

UNIT: McGuire 1

DATE: 1/15/92

#### NARRATIVE SUMMARY

MONTH: December 1991

McGuire Unit 1 began the month of December shut down for its end-of-cycle '7' refueling outage. The unit was placed on-line at 1706 on 12/10 to end the refueling outage. The outage extended approximately 3.5 days over its scheduled 78 day duration due to problems encountered during the 10-year inservice inspection of the reactor vessel. At 1900 on 12/10, with the unit at 10% power, a digital electro-hydraulic (DEH) turbine control runback alarm was received, and the unit ran back to 5% power. After a DEH setpoint adjustment, the unit began a power increase at 2136 on 12/10. The unit was held at 10% power from 2223 on 12/10 to 0626 on 12/11 for a turbine soak in preparation for a turbine overspeed trip test. The unit was tripped at 0841 on 12/11 for the test. At 1026 on 12/11, the unit was placed back on-line, and power escalation was commenced. During this increase, the unit was held at 30% power from 2000 on 12/11 to 0046 on 12/12 and at 40% power from 0453 on 12/12 to 0224 on 12/13 for core flux mapping. The next hold was at 77% power from 1935 on 12/13 to 0930 on 12/14 for nuclear instrumentation calibration. The unit was then held at 80% power from 1035 to 1204 on 12/14 due to condensate booster pump low suction pressure. At 1510 on 12/14, a load reduction was commenced due to a high oxygen level in the hotwell. The unit was held at 79% from 1544 to 1620 on 12/14. A power increase was then begun, and the unit reached 100% full power at 0713 on 12/15. The unit ran at or near 100% full power for the remainder of the month, and ended the month operating at 95% power for reactor protection system testing.

Prepared by: S. W. Moser  
Telephone: 704-373-5762

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: McGuire, Unit 1
2. Scheduled next refueling shutdown: January 1993
3. Scheduled restart following refueling: March 1993

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: 519
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 licensed capacity: March 2006

DUKE POWER COMPA

DATE: January 15, 1991

Name of Contact: R. A. Williams

Phone: 704-373-5987



# OPERATING DATA REPORT

## OPERATING STATUS

1. Unit Name: McGuire 2
2. Reporting Period: December 1, 1991-December 31, 1991
3. Licensed Thermal Power (MWe): 3411
4. Nameplate Rating (Gross MWe): 13054
5. Design Electrical Rating (Net MWe): 1180
6. Maximum Dependable Capacity (Gross MWe): 1171
7. Maximum Dependable Capacity (Net MWe): 1129
8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) Since Last Report, Give Reasons: \_\_\_\_\_

DOCKET NO. 50-370  
 DATE January 15, 1992  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

Notes: \*Nameplate Rating (Gross MWe) calculated as 1450,000 MVA x .90 power factor per Page iii, WUREG-0020.

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	744.0	8760.0	58688.0
12. Number Of Hours " " or Was Critical	744.0	9561.3	53201.4
13. Reactor Reserve "n Hours	--0--	--0--	--0--
14. Hours Generator On	744.0	8550.2	52352.9
15. Unit Reserve Shuts "hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2500590	28411639	171016430
17. Gross Electrical Energy Generated (MWH)	886122	9901714	59830915
18. Net Electrical Energy Generated (MWH)	852618	9515965	57380411
19. Unit Service Factor	100.0	97.6	76.2
20. Unit Availability Factor	100.0	97.6	76.2
21. Unit Capacity Factor (Using MDC Net)	101.5	96.2	72.9
22. Unit Capacity Factor (Using DER Net)	97.1	92.1	70.8
23. Unit Forced Outage Rate	0.0	2.4	8.1

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

Refueling - January 9, 1992, 65 days

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  
 UNIT McGuire 2  
 DATE January 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-878-5987

MONTH December, 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1148</u>
2	<u>1147</u>
3	<u>1181</u>
4	<u>1181</u>
5	<u>1145</u>
6	<u>1137</u>
7	<u>1144</u>
8	<u>1147</u>
9	<u>1146</u>
10	<u>1147</u>
11	<u>1148</u>
12	<u>1151</u>
13	<u>1146</u>
14	<u>1110</u>
15	<u>1153</u>
16	<u>1151</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1156</u>
18	<u>1151</u>
19	<u>1150</u>
20	<u>1152</u>
21	<u>1152</u>
22	<u>1152</u>
23	<u>1154</u>
24	<u>1153</u>
25	<u>1152</u>
26	<u>1152</u>
27	<u>1145</u>
28	<u>1140</u>
29	<u>1151</u>
30	<u>1152</u>
31	<u>1152</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1991

DOCKET NO. 50-370  
 UNIT NAME MCGUIRE 2  
 DATE 01/15/92  
 COMPLETED BY S. W. MOSER  
 TELEPHONE (704)-373-5762

N O .	DATE	(1) T Y P E	DURATION HOURS	(2) R E A S O N	(3) M E T H O D O F S H U T D O W N R/X	LICENSE EVENT REPORT NO.	(4) S Y S T E M C O D E	(5) C O M P O N E N T C O D E	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
		NO	SHUTDOWNS	OR		REDUCTIONS			

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

(5)  
 Exhibit I - Same Source

DOCKET NO: 50-370

UNIT: McGuire 2

DATE: 1/15/92

NARRATIVE SUMMARY

MONTH: December 1991

McGuire Unit 2 began the month of December operating at 100% full power. The unit operated at or near 100% full power for the entire month, and ended the month operating at 100% full power.

Prepared by: S. W. Moser  
Telephone: 704-373-5762

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: McGuire, Unit 2
2. Scheduled next refueling shutdown: Currently Refueling
3. Scheduled restart following refueling: March 1992

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: 665
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 licensed capacity: December 2003

DUKE POWER COMPANY

DATE: January 15, 1991

Name of Contact: R. A. Williams

Phone: 704-270-2257

McGUIRE NUCLEAR STATION  
MONTHLY OPERATING STATUS REPORT

November 1991

1. Personnel Exposure -

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

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