

Duke Power Company  
Nuclear Production Dept.  
Box 1007  
Charlotte, N.C. 28201-1007

M.S. TUCKMAN  
Vice President  
Nuclear Operations  
(704) 373-3851



**DUKE POWER**

March 15, 1991

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 February 1991.

Very truly yours,

M.S. Tuckman

JAR/15/jar

Attachment

cc: Mr. Stewart D. Ebnetter  
Regional Administrator/Region II  
U. S. Nuclear Regulatory Commission  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

INPO Records Center  
Suite 1500  
1100 Circle 75 Parkway  
Atlanta, Georgia 30323

Mr. Tim Reed, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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

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

Mr. Richard G. Oehl, NE-44  
U.S. Department of Energy  
19901 Germantown Road  
Germantown, Maryland 20874

Mr. P. K. VanDoorn  
NRC Resident Inspector  
McGuire Nuclear Station

190047  
9103200172  
PDR ADOCK 910228  
05000369  
PDR

IE24  
1/1

# OPERATING DATA REPORT

## OPERATING STATUS

1. Unit Name: McGuire 1
2. Reporting Period: February 1, 1991-February 28, 1991
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): 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: \_\_\_\_\_

JOCKET NO 50-369  
 DATE March 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

Notes \*Nameplate Rating  
 (Gross MWe) calculated as  
 1451,000 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	672.0	1416.0	81048.0
12. Number Of Hours Rea. Was Critical	595.3	1339.6	57005.6
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	589.3	1333.3	56353.3
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1818751	4338639	170574201
17. Gross Electrical Energy Generated (MWH)	629393	1512877	58735312
18. Net Electrical Energy Generated (MWH)	602697	1453056	56041244
19. Unit Service Factor	87.7	94.2	69.7
20. Unit Availability Factor	87.7	94.2	69.3
21. Unit Capacity Factor (Using MDC Net)	79.4	90.9	59.8
22. Unit Capacity Factor (Using DER Net)	76.0	87.0	56.6
23. Unit Forced Outage Rate	12.3	5.8	12.7

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 Start-up: \_\_\_\_\_
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast	Achieved
_____	_____
_____	_____
_____	_____

# OPERATING DATA REPORT

DOCKET NO 50-369  
 UNIT McGuire 1  
 DATE March 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 204-373-5987

MONTH February, 1991

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1143</u>
2	<u>1144</u>
3	<u>1145</u>
4	<u>1144</u>
5	<u>1144</u>
6	<u>1144</u>
7	<u>1147</u>
8	<u>1141</u>
9	<u>1143</u>
10	<u>1144</u>
11	<u>655</u>
12	<u>0</u>
13	<u>260</u>
14	<u>865</u>
15	<u>1143</u>
16	<u>1144</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>1144</u>
18	<u>1144</u>
19	<u>1000</u>
20	<u>0</u>
21	<u>16</u>
22	<u>442</u>
23	<u>456</u>
24	<u>856</u>
25	<u>1139</u>
26	<u>1144</u>
27	<u>1144</u>
28	<u>1144</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

PAGE 1 OF 2

REPORT MONTH February 1991

DOCKET NO. 50-369  
 UNIT NAME MCGUIRE 1  
 DATE 03/15/91  
 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
1	91- 2-11	F	37.82	A	3		EA	TRANSF	LOSS OF OFF-SITE POWER DUE TO IMPROPER TESTING PROCEDURE ON AUTOBANK TRANSFORMERS
1-P	91- 2-13	F	--	B	--		IE	INSTRU	HOLDING POWER FOR NUCLEAR INSTRUMENTATION CALIBRATION
2-P	91- 2-13	F	--	B	--		HG	XXXXXX	HOLDING POWER FOR CHEMISTRY
3-P	91- 2-13	F	--	B	--		IE	INSTRU	HOLDING POWER FOR NUCLEAR INSTRUMENTATION CALIBRATION
4-P	91- 2-13	F	--	B	--		CB	INSTRU	HOLDING POWER FOR REACTOR COOLANT SYSTEM LEAKAGE CALCULATION
2	91- 2-19	F	44.88	A	3		ZZ	CKTBKR	INADVERTENT REACTOR TRIP DURING TROUBLESHOOTING OF REACTOR TRIP BREAKER ENCLOSURE

(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 February 1991

DOCKET NO. 50-369  
 UNIT NAME MCGUIRE 1  
 DATE 03/15/91  
 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) METH- OD OF SHUT DOWN R/X	LICENSE EVENT REPORT NO.	(4) SYS- TEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
5-P	91- 2-21	F	--	B	--		HG	XXXXXX	HOLDING POWER FOR CHEMISTRY
6-P	91- 2-22	F	--	A	--		HA	TURBIN	HOLDING POWER DUE TO HIGH PRESSURE TURBINE STEAM LEAK

(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  
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 Event Report (LER)  
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(5)  
 Exhibit I - Same Source



DOCKET NO: 50-369

UNIT: McGuire 1

DATE: 3/15/91

#### NARRATIVE SUMMARY

MONTH: February 1991

McGuire Unit 1 began the month of February operating at 100% full power. The unit operated at 100% full power until 1355 on 02/11, when the unit tripped off-line due to loss of off-site power due to an improper testing procedure on the autobank transformers. The unit returned on-line at 0344 on 02/13. During the power increase, the unit was held at 10% power from 0510 to 0613 on 02/13 for nuclear instrumentation calibration, at 25% power from 0842 to 1100 on 02/13 for chemistry concerns, at 30% power from 1345 to 1521 on 02/13 for nuclear instrumentation calibration, and at 40% power from 2038 to 2124 on 02/13 for reactor coolant system leakage calculation. The unit reached 100% full power at 0126 on 02/15. The unit operated at 100% full power until 2143 on 02/19, when an inadvertent reactor trip occurred during troubleshooting of a reactor trip breaker enclosure. The unit returned on-line at 1836 on 02/21. During the power increase, the unit was held at 20% from 2130 to 2200 on 02/21 for chemistry concerns and at 40% power from 0537 on 02/22 to 2110 on 02/23 due to a high pressure turbine steam leak. The unit reached 100% full power at 0415 on 02/25, and operated at 100% full power for the remainder of the month.

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

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: McGuire, Unit 1
2. Scheduled next refueling shutdown: September 1991
3. Scheduled restart following refueling: November 1991

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: 443
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 COMPANY

DATE: March 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

# OPERATING DATA REPORT

## OPERATING STATUS

DOCKET NO 50-370

DATE March 15, 1991

COMPLETED BY R.A. Williams

TELEPHONE 704-373-5987

1. Unit Name: McGuire 2
2. Reporting Period: February 1, 1991-February 28, 1991
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): 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	672.0	1416.0	61344.0
12. Number Of Hours Reactor Was Critical	672.0	1416.0	46056.1
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	672.0	1416.0	45218.8
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MMWh)	2231028	4636853	147261644
17. Gross Electrical Energy Generated (MMWh)	784630	1639411	51568612
18. Net Electrical Energy Generated (MMWh)	756349	1580297	49444743
19. Unit Service Factor	100.0	100.0	73.7
20. Unit Availability Factor	100.0	100.0	73.7
21. Unit Capacity Factor (Using MDC Net)	99.7	98.8	70.2
22. Unit Capacity Factor (Using DER Net)	95.4	94.6	68.3
23. Unit Forced Outage Rate	0.0	0.0	8.8
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 ELECTRICAL  
COMMERCIAL OPERATION

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



# OPERATING DATA REPORT

DOCKET NO 50-370  
 UNIT McGuire 2  
 DATE March 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

MONTH February, 1991

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1163</u>
2	<u>911</u>
3	<u>804</u>
4	<u>1151</u>
5	<u>1165</u>
6	<u>1164</u>
7	<u>1164</u>
8	<u>1157</u>
9	<u>1155</u>
10	<u>1163</u>
11	<u>1125</u>
12	<u>1094</u>
13	<u>1127</u>
14	<u>1162</u>
15	<u>1162</u>
16	<u>1155</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>1161</u>
18	<u>1162</u>
19	<u>1162</u>
20	<u>1159</u>
21	<u>1159</u>
22	<u>1161</u>
23	<u>1161</u>
24	<u>1159</u>
25	<u>1161</u>
26	<u>1160</u>
27	<u>1148</u>
28	<u>1173</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1991

DOCKET NO. 50-370  
 UNIT NAME MCGUIRE 2  
 DATE 03/15/91  
 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) MET- HOD OF SHUT DOWN R/X	LICENSE EVENT REPORT NO.	(4)  SYS- TEM CODE	(5)  COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVINT RECURRENCE
10-P	91- 2- 2	S	--	B	--		HA	TURBIN	TURBINE PERFORMANCE TESTING
11-P	91- 2- 3	F	--	A	--		SD	VALVEX	MAIN FEEDWATER ISOLATION VALVE '2CF-28' INOPERABLE

(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: 3/15/91

#### NARRATIVE SUMMARY

MONTH: February 1991

McGuire Unit 2 began the month of February operating at 100% full power. The unit operated at 100% full power until 0230 on 02/02, when a load reduction was commenced for turbine performance testing. The unit was held at 55% power from 0655 to 1254 on 02/02 for the testing. The unit was returned to 100% full power at 0205 on 02/03, and operated at 100% full power until 0618 on 02/03, when a load reduction was commenced due to the inoperability of main feedwater isolation valve "2CF-28". The unit was held at 15% from 0710 to 1636 on 02/03 while repairs were made to the valve. The unit was returned to 100% full power at 0517 on 02/04, and operated at or near 100% full power for the remainder of the month.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: McGuire, Unit 2
2. Scheduled next refueling shutdown: January 1992
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: 589
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: March 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

McGUIRE NUCLEAR STATION  
MONTHLY OPERATING STATUS REPORT  
January 1991

1. Personnel Exposure -

For the month of January, no individual(s) 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 .0 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 list.