

# OPERATING DATA REPORT

## OPERATING STATUS

DOCKET NO 50-413  
 DATE July 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

1. Unit Name: Catawba 1
2. Reporting Period: June 1, 1991-June 30, 1991
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1305\*
5. Design Electrical Rating (Net MWe): 1145
6. Maximum Dependable Capacity (Gross MWe): 1192
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	720.0	4343.0	52632.0
12. Number Of Hours Reactor Was Critical	386.7	2051.4	38069.1
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	333.6	1938.5	37103.4
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	813021	5945413	119247057
17. Gross Electrical Energy Generated (MWH)	265144	2094126	41858610
18. Net Electrical Energy Generated (MWH)	228329	1929565	39195794
19. Unit Service Factor	46.3	44.6	70.5
20. Unit Availability Factor	46.3	44.6	70.5
21. Unit Capacity Factor (Using MDC Net)	28.1	39.4	65.6
22. Unit Capacity Factor (Using DER Net)	27.7	38.8	65.0
23. Unit Forced Outage Rate	13.3	6.8	12.4
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 50-413  
 UNIT Catawba 1  
 DATE July 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

MONTH June, 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>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>1</u>
15	<u>70</u>
16	<u>137</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>0</u>
18	<u>234</u>
19	<u>525</u>
20	<u>203</u>
21	<u>121</u>
22	<u>611</u>
23	<u>896</u>
24	<u>1111</u>
25	<u>1113</u>
26	<u>1127</u>
27	<u>1124</u>
28	<u>1094</u>
29	<u>598</u>
30	<u>1116</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

PAGE 1 OF 3

REPORT MONTH June 1991

DOCKET NO. 50-413  
 UNIT NAME CATAWBA I  
 DATE 07/15/91  
 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
4	91- 6- 1	S	326.30	C	1		RC	FUELXX	END OF CYCLE 5 REFUELING OUTAGE
12-P	91- 6-14	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING
5	91- 6-15	S	3.48	B	1		HA	TURBIN	TURBINE OVERSPEED TRIP TEST
13-P	91- 6-15	S	--	B	--		RC	XXXXXX	LOW POWER TESTING
14-P	91- 6-15	S	--	A	--		CH	HTEXCH	STEAM GENERATOR NOZZLE SWAP
15-P	91- 6-15	S	--	B	--		HG	HTEXCH	SECONDARY SIDE BORON SOAK
16-P	91- 6-16	S	--	B	--		HG	HTEXCH	SECONDARY SIDE BORON SOAK
6	91- 6-16	F	29.90	A	3		HB	CKTBKR	PROBLEMS SWITCHING FROM MANUAL TO EMERGENCY MANUAL AND BACK
17-P	91- 6-19	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING

(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 3

REPORT MONTH June 1991

DOCKET NO. 50-413  
 UNIT NAME CATAWBA 1  
 DATE 07/15/91  
 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
18-P	91- 6-19	F	--	A	--		IE	XXXXXX	OVER POWER DELTA T NOT RESETTING
7	91- 6-20	F	21.40	A	3		CB	PUMPXX	REACTOR TRIP DUE TO FAILED RELAY ON 'A' REACTOR COOLANT PUMP
19-P	91- 6-21	F	--	B	--		HG	HTEXCH	SECONDARY SIDE BORON SOAK
20-P	91- 6-22	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING
21-P	91- 6-22	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING
22-P	91- 6-28	S	--	B	--		HB	INSTRU	DIGITAL FEEDWATER CONTROL SYSTEM TESTING
8	91- 6-29	S	5.32	B	--		HB	INSTRU	DIGITAL FEEDWATER CONTROL SYSTEM TESTING
23-P	91- 6-29	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING

(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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 Entry Sheets For Licensee  
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 File (NUREG-0161)

(5)  
 Exhibit I - Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

PAGE 3 OF 3

REPORT MONTH June 1991

DOCKET NO. 50-413  
 UNIT NAME CATAWBA 1  
 DATE 07/15/91  
 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
24-P	91- 6-29	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING
25-P	91- 6-29	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TESTING

(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: 50-413

UNIT: Catawba 1

DATE: 7/15/91

#### NARRATIVE SUMMARY

MONTH: June 1991

Catawba Unit 1 began the month of June shut down for its end-of-cycle "5" refueling outage. The unit was placed on-line to end the outage at 1418 on 06/14. The unit was taken back off-line at 0330 on 06/15 for a turbine overspeed trip test, and was back on-line at 0659 on 0330. During the power increase the unit was held at various low power levels for core physics testing, steam generator nozzle swap, steam generator secondary side boron soak, and digital feedwater control system testing. The unit tripped off-line from 20% power at 1418 on 06/16 due to feedwater control problems, and was placed back on-line at 2012 on 06/17. During this power increase, the unit was held at various power levels for feedwater control system testing, control valve movement testing, and a nuclear instrumentation problem. The unit tripped off-line from approximately 65% power at 0823 on 06/20 due to a failed relay on the 'A' reactor coolant pump. The unit was placed on-line at 0547 on 06/21. After holds for steam generator boron soak, control valve movement testing, and nuclear instrumentation calibrations, the unit reached 100% full power at 2200 on 06/25. The unit operated at 100% power until 2250 on 06/28, when testing of the digital feedwater control system was commenced. As part of the test, the unit was taken off-line at 0056 on 06/29. It was returned on-line at 0615 on 06/29. After holds for control valve movement testing, the unit reached 100% full power at 0100 on 06/30, 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: Catawba, Unit 1
2. Scheduled next refueling shutdown: May 1992
3. Scheduled restart following refueling: July 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: 336
8. Present licensed fuel pool capacity: 1418  
Size of requested or planned increase: -
9. Projected date of last refueling which can be accommodated by present licensed capacity: September 2009

DUKE POWER COMPANY

DATE: July 15, 1991

Name of Contact: J. A. Reavis

Phone: 704-373-7567

# OPERATING DATA REPORT

DOCKET NO 50-414  
 DATE July 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5987

## OPERATING STATUS

1. Unit Name: Catawba 2
2. Reporting Period: June 1, 1991-June 30, 1991
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1305\*
5. Design Electrical Rating (Net MWe): 1145
6. Maximum Dependable Capacity (Gross MWe): 1192
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 MWt x .90 power factor per Page iii, NUREG-7020.

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	720.0	4343.0	42648.0
12. Number Of Hours Reactor Was Critical	720.0	4082.8	31680.7
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	720.0	4048.5	30989.5
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2436205	13373222	96742302
17. Gross Electrical Energy Generated (MWH)	857430	4759801	34223226
18. Net Electrical Energy Generated (MWH)	814597	4502727	32085340
19. Unit Service Factor	100.0	93.2	72.7
20. Unit Availability Factor	100.0	93.2	72.7
21. Unit Capacity Factor (Using MDC Net)	100.2	91.8	66.4
22. Unit Capacity Factor (Using DER Net)	98.8	90.6	65.7
23. Unit Forced Outage Rate	0.0	4.5	13.4

24. Shutdown Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
 Refueling - October 18, 1991 - 9 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 50-414  
 UNIT Catawba 2  
 DATE July 15, 1991  
 COMPLETED BY R.A. Williams  
 TELEPHONE 704-373-5967

MONTH June, 1991

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1126</u>
2	<u>1131</u>
3	<u>1129</u>
4	<u>1129</u>
5	<u>1142</u>
6	<u>1142</u>
7	<u>1142</u>
8	<u>1142</u>
9	<u>1138</u>
10	<u>1138</u>
11	<u>1137</u>
12	<u>1128</u>
13	<u>1133</u>
14	<u>1134</u>
15	<u>1136</u>
16	<u>1133</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>1132</u>
18	<u>1128</u>
19	<u>1130</u>
20	<u>1127</u>
21	<u>1127</u>
22	<u>1129</u>
23	<u>1127</u>
24	<u>1135</u>
25	<u>1138</u>
26	<u>1126</u>
27	<u>1113</u>
28	<u>1128</u>
29	<u>1122</u>
30	<u>1119</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June 1991

DOCKET NO. 50-414  
 UNIT NAME CATAWBA  
 DATE 07/15/91  
 COMPLETED BY S. W. MOSER  
 TELEPHONE (704)-373-5762

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUT DOWN R/X	LICENSE EVENT REPORT NO.	(4) SYS- TEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
		NO	SHUTDOWNS	OR		REDUCTION	S		

(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: 50-414

UNIT: Catawba 2

DATE: 7/15/91

#### NARRATIVE SUMMARY

MONTH: June 1991

Catawba Unit 2 began the month of June 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: Catawba, Unit 2
2. Scheduled next refueling shutdown: October 1991
3. Scheduled restart following refueling: December 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: 204
8. Present licensed fuel pool capacity: 1418  
Size of requested or planned increase: ---
9. Projected date of last refueling which can be accommodated by present licensed capacity: September 2011

DUKE POWER COMPANY

Name of Contact: J. A. Reavis

DATE: July 15, 1991

Phone: 704-373-7567