

OPERATING DATA REPORT

DOCKET NO 50-413

DATE September 15, 1988

COMPLETED BY J. A. Reavis

TELEPHONE 704-373-7567

OPERATING STATUS

1. Unit Name: Catawba 1
2. Reporting Period: August 1, 1988-August 31, 1988
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	744.0	5855.0	27840.0
12. Number Of Hours Reactor Was Critical	717.2	5041.9	20155.6
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	200.0	4981.5	19580.7
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	616248	16201026	62255890
17. Gross Electrical Energy Generated (MWH)	214522	5741724	21832946
18. Net Electrical Energy Generated (MWH)	186897	5407684	20408529
19. Unit Service Factor	26.9	85.1	70.3
20. Unit Availability Factor	26.9	85.1	70.3
21. Unit Capacity Factor (Using MDC Net)	22.3	81.8	64.2
22. Unit Capacity Factor (Using DER Net)	21.9	80.7	64.0
23. Unit Forced Outage Rate	73.1	14.9	17.4

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

Refueling - November 21, 1988 - 8 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 50-413  
 UNIT Catawba 1  
 DATE September 15, 1988  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

MONTH August, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1117</u>	17	<u>0</u>
2	<u>1114</u>	18	<u>0</u>
3	<u>1114</u>	19	<u>0</u>
4	<u>1115</u>	20	<u>0</u>
5	<u>1085</u>	21	<u>0</u>
6	<u>29</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>588</u>
14	<u>0</u>	30	<u>1089</u>
15	<u>0</u>	31	<u>1129</u>
16	<u>0</u>		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-413  
 UNIT NAME CATAWBA 1  
 DATE 09/15/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH August 1988

Page 1 of 3

NO.	DATE	(1)	DURATION HOURS	(2)	(3)	LICENSE EVENT REPORT NO.	(4)	(5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENT
		T Y P E		R E A S O N	MET- HOD OF SHUT DOWN R/X		SYS- TEM CODE	COMPONENT CODE	
49-p	88- 9- 5	F	--	A	--		CH	HTEXCH	POWER REDUCTION DUE TO S/G '1D' TUBE LEAK
8	88- 8- 6	F	152.60	A	1		CH	HTEXCH	MANUAL REACTOR TRIP DUE TO S/G '1D' TUBE LEAK REPAIR (CONTROLLED SHUTDOWN)
9	88- 8-12	F	83.00	A	3		CF	PUMPXX	REPAIR AND TESTING OF RESIDUAL HEAT REMOVAL PUMP '1B'
10	88- 8-16	F	84.22	A	3		CH	HTEXCH	REPAIR OF S/G '1D' TUBE LEAK
11	88- 8-19	F	105.53	A	3		CB	VALVEX	REPAIR OF PRESSURIZER POWER OPERATED RELIEF ISOLATION VALVE
12	88- 8-23	F	57.25	B	3		CB	VALVEX	PRESSURE BOUNDARY VALVE LEAK RATE TESTING (MODE 3 REQUIREMENT)

(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

DOCKET NO. 50-413  
 UNIT NAME CATAWBA 1  
 DATE 09/25/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH August 1988

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
14	88- 8-27	F	42.38	B	3		CH	XXXXXX	AUXILIARY FEEDWATER FLOW BALANCE (MODE 3 REQUIREMENT)
50-p	88- 8-28	F	--	H	--		CH	XXXXXX	HOLDING POWER FOR S/G FEEDWATER NOZZLE SWAP
51-p	88- 8-29	S	--	B	--		IE	INSTRU	HOLDING POWER FOR EXCORE NUCLEAR INSTRUMENTATION CALIBRATION
52-p	88- 8-29	S	--	B	--		IE	INSTRU	HOLDING POWER FOR NUCLEAR INSTRUMENTATION CALIBRATION
53-P	88- 8-29	F	--	H	--		HH	PUMPXX	HOLDING POWER TO PLACE FEEDWATER PUMP '1A' IN-SERVICE

- (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)

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 Entry Sheets For Licensee  
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- (5)  
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-413  
 UNIT NAME CATAWBA 1  
 DATE 09/15/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH August 1988

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
55-p	83- 8-30	S	--	F	--		ZZ	ZZZZZZ	HOLDING POWER PER DISPATCHER
56-p	88- 8-30	S	--	B	--		IE	INSTRU	HOLDING POWER FOR DELTA-T CALCULATIONS

- (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)

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 Method:  
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 File (NURSG-0161)

- (5)  
 Exhibit I - Same Source

DOCKET NO: 50-413  
UNIT: Catawba 1  
DATE: 09/15/88

NARRATIVE SUMMARY

Month: August, 1988

Catawba Unit 1 began the month of August operating at 100% full power. On 8/05 the unit began a controlled shutdown, and the unit was removed from service at 0524 on 8/06, due to a Steam Generator tube leak. The unit remained off line for Residual Heat Removal Pump work, Pressurizer Power Operated Relief Valve work, Pressure Boundary Valve leak rate testing, Turbine and motor driven auxiliary Feedwater Pump testing, and auxiliary Feedwater flow balancing. The unit returned to service on 8/28 at 2123, and returned to 100% full power at 1500 on 8/31, following several startup related power holds and one Dispatch related power hold. The unit then operated at 100% for the remainder of the month.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 1
2. Scheduled next refueling shutdown: November, 1988
3. Scheduled restart following refueling: January, 1989
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? No

If yes, what will these be? \_\_\_\_\_

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions? N/A

5. Scheduled date(s) for submitting proposed licensing action and supporting information: N/A
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: 132
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

DATE: September 15, 1988

Name of Contact: J. A. Reavis

Phone: 704-373-7567

OPERATING DATA REPORT

DOCKET NO 50-414

DATE September 15, 1988

COMPLETED BY J. A. Reavis

TELEPHONE 704-373-7367

OPERATING STATUS

1. Unit Name: Catawba 2
2. Reporting Period: August 1, 1988-August 31, 1988
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	744.0	5855.0	17856.0
12. Number Of Hours Reactor Was Critical	744.0	3641.4	12246.9
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	744.0	3478.6	11823.1
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2404965	10159728	35887219
17. Gross Electrical Energy Generated (MWH)	846737	3543536	12620564
18. Net Electrical Energy Generated (MWH)	801577	3276342	11743039
19. Unit Service Factor	100.0	59.4	66.2
20. Unit Availability Factor	100.0	59.4	66.2
21. Unit Capacity Factor (Using MDC Net)	95.4	49.6	57.7
22. Unit Capacity Factor (Using DER Net)	94.1	48.9	57.4
23. Unit Forced Outage Rate	0.0	17.6	25.9

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 50-414  
 UNIT Catawba 2  
 DATE September 15, 1988  
 COMPLETED BY J. A. Reavis  
 TELEPHONE 704-373-7567

MONTH August, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1038</u>	17	<u>1051</u>
2	<u>1119</u>	18	<u>1050</u>
3	<u>1127</u>	19	<u>1052</u>
4	<u>1128</u>	20	<u>1052</u>
5	<u>1129</u>	21	<u>1052</u>
6	<u>1128</u>	22	<u>1054</u>
7	<u>1128</u>	23	<u>1056</u>
8	<u>1108</u>	24	<u>1051</u>
9	<u>1101</u>	25	<u>1057</u>
10	<u>1084</u>	26	<u>1066</u>
11	<u>1082</u>	27	<u>1074</u>
12	<u>1078</u>	28	<u>1071</u>
13	<u>1061</u>	29	<u>1066</u>
14	<u>1061</u>	30	<u>1075</u>
15	<u>1059</u>	31	<u>1086</u>
16	<u>1051</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414  
 UNIT NAME CATAWBA 2  
 DATE 09/15/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH August 1988

NO	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD- NO. OF SHUT DOWN R/X	LICENSE EVENT REPORT NO.	(4) SYS- TEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
79-p	88- 8- 1	F	--	F	--		HG	XXXXXX	POWER REDUCTION DUE TO FEEDWATER CHEMISTRY OUT OF SPEC
80-p	88- 8- 8	F	--	A	--		HH	VALVEX	REDUCTION DUE TO S/G '2C' FEEDWATER CONTROL VALVE OPERATING PROBLEMS
81-p	88- 8- 9	F	--	A	--		HH	VALVEX	FURTHER REDUCTION DUE TO S/G '2C' FEEDWATER CONTROL VALVE PROBLEMS
82-p	88- 8-12	F	--	A	--		HH	VALVEX	FURTHER REDUCTION DUE TO S/G '2C' FEEDWATER CONTROL VALVE PROBLEMS
83-p	88- 8-14	F	--	A	--		HH	VALVEX	FURTHER REDUCTION DUE TO S/G '2C' FEEDWATER CONTROL VALVE PROBLEMS
84-p	88- 8-15	F	--	A	--		HH	VALVEX	FURTHER REDUCTION DUE TO S/G '2C' FEEDWATER CONTROL VALVE PROBLEMS

- (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 License  
 Event Report (LER)  
 File (NUREG-0161)
- (5)  
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414  
 UNIT NAME CATAWBA 2  
 DATE 09/15/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH August 1988

N O .	DATE	(1)	DURATION HOURS	(2)	(3)	LICENSE EVENT REPORT NO.	(4)	(5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
		T Y P E		R E A S O N	MET- HOD OF SHUT DOWN R/X		SYS- TEM CODE	COMPONENT CODE	
85-p	88- 8-26	S	--	B	--		HB	VALVEX	POWER REDUCTION DUE TO CONTROL VALVE MOVEMENT TEST
86-p	88- 8-26	F	--	\	--		HH	VALVEX	HOLDING POWER DUE TO S/G '2C' FEEDWATER CONTROL VALVE PROBLEMS
87-p	88- 8-31	F	--	A	--		XX	XXXXXX	HOLDING POWER DUE TO COMPUTER SCANNER PROBLEMS
88-p	88- 8-31	F	--	A	--		HH	VALVEX	HOLDING POWER DUE TO S/G '2C' FEEDWATER CONTROL VALVE PROBLEMS

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

(5)  
 Exhibit I - Same Source

DOCKET NO: 50-414  
UNIT: Catawba 2  
DATE: 09/15/88

NARRATIVE SUMMARY

Month: August, 1988

Catawba Unit 2 began the month of August at 100% full power. On 8/01 at 0700 the unit reduced power to 78% due to Feedwater chemistry problems. The unit returned to 100% power at 2320 on 8/01. At 0100 on 8/08, the unit began reducing power due to Steam Generator Main Feedwater Control Valve problems. The unit then experienced a succession of power reductions due to the control valve problems, to 93% power. The unit operated at 93% power until 8/26, when power was reduced to 91% for a Control Valve Movement Test. The unit then returned to 95% power, limited by the Feedwater Control Valve problems. The unit increased power to 96% power at 1530 on 8/31, following a brief hold at 95% due to Operator Aid Computer problems. The unit then operated at 96% power the remainder of the month, limited by Feedwater Control Valve problems.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 2
2. Scheduled next refueling shutdown: March, 1989
3. Scheduled restart following refueling: May, 1989
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? No

If yes, what will these be? \_\_\_\_\_

If no, has reload design and core configuration been reviewed by Safety Review Committee regarding unreviewed safety questions? N/A

5. Scheduled date(s) for submitting proposed licensing action and supporting information: N/A
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: 64
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: January, 2013

DUKE POWER COMPANY

DATE: September 15, 1988

Name of Contact: J. A. Reavis

Phone: 704-373-7567

CATAWBA NUCLEAR STATION  
MONTHLY OPERATING STATUS REPORT

1. Personnel Exposure

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

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