

OPERATING DATA REPORT

DOCKET 50-413

DATE 5-13-88

COMPLETED BY J. A. Reavis

TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: CATAWBA 1
2. Reporting Period: APRIL 1, 1988-APRIL 30, 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):
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 Restr. Applied, If Any (Net MWe): \_\_\_\_\_

10. Reason For Restrictions, If any: \_\_\_\_\_

This Month Yr.-to-Date Cumulative

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	719.0	2,903.0	24,888.0
12. Number Of Hours Reactor Was Critical	719.0	2,616.7	17,730.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	719.0	2,573.5	17,172.6
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2,413,567	8,292,891	54,347,755
17. Gross Electrical Energy Generated (MWH)	860,692	2,945,762	19,036,884
18. Net Electrical Energy Generated (MWH)	816,617	2,776,677	17,777,522
19. Unit Service Factor	100.0	88.7	69.0
20. Unit Availability Factor	100.0	88.7	69.0
21. Unit Capacity Factor (Using MDC Net)	100.6	84.7	62.5
22. Unit Capacity Factor (Using DER Net)	99.2	83.5	62.4
23. Unit Forced Outage Rate	0.0	11.3	17.3
24. Shutdowns 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

*Handwritten initials/signature*

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-413  
 -----  
 UNIT Catawba 1  
 -----  
 DATE May 13, 1988  
 -----  
 COMPLETED BY J. A. Reavis  
 -----  
 TELEPHONE 704-373-7567  
 -----

MONTH APRIL, 1988  
 -----

DAY ---	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	1138
2	1136
3	1133
4	1134
5	1137
6	1139
7	1142
8	1140
9	1141
10	1138
11	1136
12	1140
13	1140
14	1137
15	1135
16	1117

DAY ---	AVERAGE DAILY POWER LEVEL (MWE-Net)
17	1138
18	1134
19	1136
20	1140
21	1131
22	1132
23	1132
24	1130
25	1136
26	1137
27	1134
28	1137
29	1137
30	1135

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-413  
 UNIT NAME CATAWBA 1  
 DATE 05/13/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH April 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	L I C E N S E E V E N T R E P O R T N O.	(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	C A U S E A N D C O R R E C T I V E A C T I O N T O P R E V E N T R E C U R R E N C E
31-P	88- 4-14	F	--	A	--		HH	PIPEXX	POWER REDUCTION DUE TO MAIN STEAM LINE WELD LEAKING, CAUSING LOSS OF VACUUM
32-P	88- 4-16	S	--	B	--		HB	VALVEX	REDUCTION DUE TO CONTROL VALVE MOVEMENT TEST

(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: 05/13/88

NARRATIVE SUMMARY

Month: April, 1988

Catawba Unit 1 began the month of April operating at 100% full power. On 4/14 at 1030, power was reduced to 99% due to a loss of vacuum caused by a leaking main steam line weld. The unit returned to 100% power at 1154 on 4/14. Power was then reduced to 90% on 4/16 from 1948 to 2037, to conduct a Control Valve Movement Test. The unit returned to 100% power at 0137 on 4/17, where it operated 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: May 13, 1988

Name of Contact: J. A. Reavis

Phone: 704-373-7567

OPERATING DATA REPORT

DOCKET 50-414

DATE 5-13-88

COMPLETED BY J. A. Reavis

TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: CATAWBA 2
2. Reporting Period: APRIL 1, 1988-APRIL 30, 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):
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	719.0	2,903.0	14,904.0
12. Number Of Hours Reactor Was Critical	566.4	944.1	9,549.6
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	556.6	871.6	9,216.2
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1,523,048	2,363,133	28,090,626
17. Gross Electrical Energy Generated (MWH)	530,403	821,690	9,898,718
18. Net Electrical Energy Generated (MWH)	491,127	726,799	9,193,496
19. Unit Service Factor	77.4	30.0	61.8
20. Unit Availability Factor	77.4	30.0	61.8
21. Unit Capacity Factor (Using MDC Net)	60.5	22.2	54.0
22. Unit Capacity Factor (Using DER Net)	59.7	21.9	53.9
23. Unit Forced Outage Rate	0.0	34.7	29.5

24. Shutdowns 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: May 3, 1988

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

	Forecast	Achieved
INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-414  
 -----  
 UNIT Catawba 2  
 -----  
 DATE May 13, 1988  
 -----  
 COMPLETED BY J. A. Reavis  
 -----  
 TELEPHONE 704-373-7567  
 -----

MONTH APRIL, 1988  
 -----

DAY ---	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	166
2	123
3	118
4	549
5	1104
6	1075
7	1123
8	1128
9	701
10	644
11	807
12	1143
13	1144
14	1143
15	1141
16	1148

DAY ---	AVERAGE DAILY POWER LEVEL (MWE-Net)
17	1147
18	1139
19	1144
20	1147
21	1141
22	1070
23	645
24	2
25	0
26	0
27	0
28	0
29	0
30	0

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414  
 UNIT NAME CATAWBA 2  
 DATE 05/13/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH April 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	M E T H O D O F S H U T D O W N R, X		S Y S T E M C O D E	C O M P O N E N T C O D E	
18-P	88- 4- 1	F	--	B	--		HH	VALVEX	POWER DECREASE TO REPAIR STEAM GENERATOR '2A' FEEDWATER CONTROL VALVE
19-P	88- 4- 1	F	--	B	--		HH	VALVEX	HOLDING POWER TO REPAIR STEAM GENERATOR '2A' FEEDWATER CONTROL VALVE
20-P	88- 4- 4	S	--	B	--		CB	INSTRU	HOLDING POWER FOR REACTOR COOLANT SYSTEM LEAKAGE CALCULATION
21-P	88- 4- 4	S	--	B	--		HB	VALVEX	HOLDING POWER FOR CONTROL VALVE MOVEMENT TEST
22-P	88- 4- 4	S	--	B	--		IE	INSTRU	HOLDING POWER FOR NUCLEAR INSTRUMENTATION CALIBRATION
23-P	88- 4- 5	F	--	H	--		CB	XXXXXX	POWER DECREASE DUE TO LOW SUBCOOLING ON TRAIN A INADEQUATE CORE COOLING SYSTEM MONITOR

(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. 50-414  
 UNIT NAME CATAWBA 2  
 DATE 05/13/88  
 COMPLETED BY J. A. REAVIS  
 TELEPHONE (704)-373-7567

REPORT MONTH April 1983

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	
24-P	88- 4- 5	F	--	B	--		HJ	VALVEX	HOLDING POWER FOR FEEDWATER HEATER DRAIN TO CONDENSER VALVE REPAIR
25-P	88- 4- 6	S	--	B	--		ZZ	INSTRU	HOLDING POWER FOR PRECISION CALORIMETRICS
26-P	88- 4- 8	F	--	B	--		HH	HTEXCH	REPAIR '2B' CONDENSATE FEEDWATER PUMP TURBINE
27-P	88- 4-11	S	--	B	--		IE	INSTRU	POWER INCREASE DELAY DUE TO NUCLEAR INSTRUMENTATION CALIBRATION
28-P	88- 4-22	S	--	F	--		ZZ	ZZZZZZ	POWER DECREASE PER DISPATCHER REQUEST
29-P	88- 4-23	F	--	A	--		HA	XXXXXX	POWER REDUCTION DUE TO GROUND FAULT ON EXCITER FIELD

(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. 50-414

UNIT NAME CATAWBA 2

DATE 05/13/88

COMPLETED BY J. A. REAVIS

TELEPHONE (704)-373-7567

REPORT MONTH April 1988

NO.	DATE	(1)	DURATION HOURS	(2)	(3)	LICENSE EVENT REPORT NO.	(4)	(5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
		TYPE		REASON	METHOD OF SHUT DOWN R/X		SYSTEM CODE	COMPONENT CODE	
8	88- 4-24	S	162.38	B	1		HA	XXXXXX	UNIT REMOVED FROM SERVICE TO REPAIR EXCITER GROUND FAULT

(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: 05/13/88

NARRATIVE SUMMARY

Month: April, 1988

Catawba Unit 2 began the month of April at 45% and decreasing, to repair a S/G Feedwater Control Valve. The repair was completed and power escalation was begun at 0405 on 4/04. The unit reached 100% power on 4/05 at 0310, following power holds at 65%, 90%, and 98%, for a Reactor Coolant System Leakage Calculation, a Control Valve Movement Test, and Nuclear Instrumentation Calibration, respectively. The unit reduced power to 90% at 1830 on 4/05, due to an indication of low subcooling margin on Train "A" of the Inadequate Core Cooling System. The unit then began increasing power at 2144 on 4/05, and held power at 95% to repair a Feedwater Heater Drain to Condenser Valve. The unit returned to 100% power at 1755 on 4/07, following a power hold at 98% for precision calorimetrics. On 4/08 at 2236, power was reduced to 60% to repair the "2B" condensate Feedwater Pump Turbine. The unit returned to 100% power at 2237 on 4/11, following a hold at 90% power for Nuclear Instrumentation Calibration. At 1645 on 4/22, a power reduction to 60% was commenced due to low system load. The unit then operated at 60% power until 4/23 at 2015, when a unit shutdown was commenced to repair an Exciter Field Ground. The unit was removed from service at 0537 on 4/24, and finished the month of April in a Maintenance Outage.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 2
2. Scheduled next refueling shutdown: Currently Refueling
3. Scheduled restart following refueling: May, 1988
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: May 13, 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 March, no individual(s) exceeded 10 percent of their allowable annual radiation dose limit.

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

DUKE POWER COMPANY  
P.O. BOX 33189  
CHARLOTTE, N.C. 28242

TELEPHONE  
(704) 379-4531

HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

May 13, 1988

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

Re: Catawba Nuclear Station  
Docket No. 50-413 and 50-414

Dear Sir:

Please find attached information concerning the performance and operating status of the Catawba Nuclear Station for the month of April, 1988.

Very truly yours,

*H. B. Tucker*

Hal B. Tucker

JAR/6/sbn

Attachment

xc: Dr. J. Nelson Grace  
Regional Administrator, Region II  
U. S. Nuclear Regulatory Commission  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

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

Dr. K. Jabbour, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. P. K. Van Doorn  
NRC Resident Inspector  
Catawba Nuclear Station

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

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

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

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