

OPERATING DATA REPORT

DOCKET 50-413

DATE 2-15-88

OPERATING STATUS

COMPLETED BY J. A. Reavis

TELEPHONE 704/373-7567

1. Unit Name: CATAWBA 1
2. Reporting Period: JANUARY 1, 1988-JANUARY 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):
7. Maximum Dependable Capacity (Net MW) 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,	
MUREG-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	744.0	22,729.0
12. Number Of Hours Reactor Was Critical	559.1	559.1	15,672.8
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	530.8	530.8	15,129.9
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1,575,665	1,575,665	47,630,529
17. Gross Electrical Energy Generated (MWH)	549,266	549,266	16,640,388
18. Net Electrical Energy Generated (MWH)	509,443	509,443	15,510,288
19. Unit Service Factor	71.3	71.3	66.6
20. Unit Availability Factor	71.3	71.3	66.6
21. Unit Capacity Factor (Using MDC Net)	60.7	60.7	59.6
22. Unit Capacity Factor (Using DER Net)	59.8	59.8	59.6
23. Unit Forced Outage Rate	28.6	28.6	18.7
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

8802230022 880131
PDR ADOCK 05000413
R DCD

IE 24/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-413

UNIT Catawba 1

DATE February 15, 1988

COMPLETED J. A. Reavis

TELEPHONE 704-373-7567

MONTH JANUARY, 1988

DAY AVERAGE DAILY POWER LEVEL
--- (MWE-Net)

1	61
2	171
3	518
4	851
5	952
6	1078
7	1117
8	1121
9	1126
10	1135
11	1137
12	1137
13	1153
14	1158
15	1152
16	73

DAY AVERAGE DAILY POWER LEVEL
--- (MWE-Net)

17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	762
26	1134
27	1130
28	1131
29	1134
30	1101
31	1116

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January 1988

DOCKET NO. 50-413
 UNIT NAME CATAWBA 1
 DATE 02/15/88
 COMPLETED BY J. A. REAVIS
 TELEPHONE (704)-373-7567

Page 1 of 4

NO.	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	
1	88- 1- 1	S	0.50	B	1		HA	TURBIN	TURBINE GENERATOR TRIP FOR TURBINE OVERSPEED TRIP TEST
1-p	88- 1- 1	F	--	B	--		HB	INSTRU	HOLDING POWER FOR TROUBLESHOOTING LOW TEMP INDICATION ON A&C FEEDWATER LINES
2-p	88- 1- 1	F	--	A	--		CH	HTEXCH	UNABLE TO ATTAIN 25% POWER LEVEL DUE TO UPPER NOZZLE RESTRICTION
2	88- 1- 1	F	9.22	H	1		CH	HTEXCH	UNIT SHUTDOWN DUE TO INABILITY TO ESTABLISH REVERSE PURGE PRIOR TO NOZZLE SWAP
3-p	88- 1- 2	S	--	B	--		RC	ZZZZZZ	HOLDING POWER FOR CORE PHYSICS TESTING
4-p	88- 1- 3	S	--	B	--		RC	ZZZZZZ	HOLDING POWER FOR CORE PHYSICS TESTING

(1)
 F Forced
 S Scheduled

(2)
 Reasons:
 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 02/15/88
 COMPLETED BY J. A. REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH January 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	
5-p	88- 1- 4	S	--	H	--		RC	ZZZZZZ	HOLDING POWER FOR CORE PHYSICS TESTING
6-p	88- 1- 4	F	--	A	--		HB	HTEXCH	POWER REDUCTION DUE TO SECOND STAGE REHEATER STEAM LEAK
7-p	88- 1- 4	S	--	B	--		RC	ZZZZZZ	HOLDING POWER FOR CORE PHYSICS TESTING
8-p	88- 1- 4	F	--	A	--		HH	HTEXCH	POWER REDUCITON DUE TO LOSS OF CONDENSER VACUUM
9-p	88- 1- 4	S	--	B	--		RC	ZZZZZZ	HOLDING POWER FOR CORE PHYSICS TESTING
10-p	88- 1- 5	S	--	B	--		CB	ZZZZZZ	HOLDING POWER FOR REACTOR COOLANT SYSTEM LEAKAGE CALCULATION

- (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)
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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-413

UNIT NAME CATAWBA 1

DATE 02/15/88

COMPLETED BY J. A. REAVIS

TELEPHONE (704)-373-7567

REPORT MONTH January 1988

NO.	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	
11-p	88- 1- 5	S	--	B	--		IE	INSTRU	HOLDING POWER FOR NUCLEAR INSTRUMENTATION CALIBRATION
12-p	88- 1- 5	F	--	A	--		HB	HTEXCH	MOISTURE SEPARATOR REHEATERS OUT OF SERVICE
13-p	88- 1- 6	F	--	B	--		HB	HTEXCH	PREPARATION TO RETURN MOISTURE SEPARATOR REHEATERS INTO SERVICE
14-p	88- 1- 9	F	--	H	--		ZZ	ZZZZZZ	SECONDARY SIDE THERMAL OUTPUT UNCERTAINTIES
3	88- 1-16	F	7.55	A	1		IF	INSTRU	REACTOR COOLANT SYSTEM THERMOCOUPLE PROBLEM
4	88- 1-16	F	166.15	A	2		HF	HTEXCH	CONDENSER CIRCULATING WATER PIPE BREAK REPAIR

- (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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- (5)
Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-413
 UNIT NAME CATAWBA 1
 DATE 02/15/88
 COMPLETED BY J. A. REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH January 1988

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD SHUT DOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
15-p	88- 1-25	F	--	F	--		HG	ZZZZZZ	HOTWELL DISSOLVED OXYGEN OUT OF SPEC
16-p	88- 1-25	S	--	B	--		HB	VALVEX	CONTROL VALVE MOVEMENT TEST
17-p	88- 1-26	F	--	F	--		CB	ZZZZZZ	REACTOR COOLANT FLOW OUT OF SPEC
18-p	88- 1-30	F	--	A	--		HJ	VALVEX	'1C2' HEATER DRAIN PUMP DISCHARGE RELIEF VALVE FAILED CLOSED
19-p	88- 1-30	F	--	F	--		CB	ZZZZZZ	REACTOR COOLANT FLOW OUT OF SPEC

- (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: 50-413

UNIT: Catawba 1

DATE: 02/15/88

NARRATIVE SUMMARY

Month: January, 1988

Catawba Unit 1 began the month of January out of service due to a Turbine Overspeed Trip Test. The unit returned to service at 0030 on 01/01, and held power at 22% to investigate low temperature indications on the "A" and "C" Feedwater lines. The unit was then held at 23% power due to a restriction in an upper steam generator nozzle. The unit was removed from service at 1749 on 01/01, due to an inability to establish reverse purge prior to steam generator nozzle swap. The unit returned to service at 0302 on 01/02, and following several startup related power holds, reached 100% full power at 2220 on 01/06. On 01/09 at 1625, power was reduced to 98% due to secondary side thermal output uncertainties. The unit returned to 100% power at 2114 on 01/12. The unit was removed from service at 0457 on 01/16, due to a Reactor Coolant System thermocouple problem. While the unit was off line, a pipe break was found in the Condenser Circulating Water System, which kept the unit off line until 01/23. While returning the unit to service on 01/23, the Reactor tripped due to low main steam pressure during startup. The unit returned to service at 1629 on 01/24, and following several power holds, reached 98% power, limited in output by out of spec reactor coolant flow.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 1
2. Scheduled next refueling shutdown: December, 1988
3. Scheduled restart following refueling: February, 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 license 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: February 15, 1988

Name of Contact: J. A. Reavis

Phone: 704-373-7567

OPERATING DATA REPORT

DOCKET 50-414

DATE 2-15-88

COMPLETED BY J. A. Reavis

TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: CATAWBA 2
2. Reporting Period: JANUARY 1, 1988-JANUARY 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):
7. Maximum Dependable Capacity (Net MW) 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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.0	744.0	12,745.0
12. Number Of Hours Reactor Was Critical	0.0	0.0	8,605.5
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	0.0	0.0	8,344.6
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	0	0	25,727,493
17. Gross Electrical Energy Generated (MWH)	0	0	9,077,028
18. Net Electrical Energy Generated (MWH)	(4,336)	(4,336)	8,462,361
19. Unit Service Factor	0.0	0.0	65.5
20. Unit Availability Factor	0.0	0.0	65.5
21. Unit Capacity Factor (Using MDC Net)	0.0	0.0	58.0
22. Unit Capacity Factor (Using DER Net)	0.0	0.0	58.0
23. Unit Forced Outage Rate	0.0	0.0	28.9

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

Currently Refueling

25. If Shut Down At End Of Report Period. Estimated Date of Startup: February 29, 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 February 15, 1988

COMPLETED J. A. Reavis

TELEPHONE 704-373-7567

MONTH JANUARY, 1988

DAY AVERAGE DAILY POWER LEVEL
--- (MWE-Net)

1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY AVERAGE DAILY POWER LEVEL
--- (MWE-Net)

17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414
 UNIT NAME CATAWBA 2
 DATE 02/15/88
 COMPLETED BY J. A. REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH January 1988

NO.	DATE	(1) TYPE	DURATION HOURS	(2) REASON	(3) METHOD OF SHUTDOWN R/X	LICENSE EVENT REPORT NO.	(4) SYSTEM CODE	(5) COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
1	88- 1- 1	S	744.00	C 1			RC	FUELXX	END OF CYCLE 1 REFUELING OUTAGE

(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: 02/15/88

NARRATIVE SUMMARY

Month: January, 1988

Catawba Unit 2 was out of service for the entire month of January due to its
End of Cycle 1 Refueling Outage.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 2
2. Scheduled next refueling shutdown: Currently Refueling
3. Scheduled restart following refueling: February, 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: February 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 December, no individuals exceeded 10 percent of their allowable annual radiation dose limit.

2. The total station liquid release for December 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 December 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 32189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

February 15, 1988

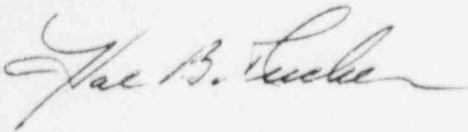
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

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 January, 1988.

Very truly yours,



Hal B. Tucker

JAR/1392/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
HNBB-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

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