

OPERATING DATA REPORT

DOCKET 50-413

DATE 3-13-87

COMPLETED BY J. A. Reavis

TELEPHONE 704/373-7567

OPERATING STATUS

1. Unit Name: CATAWBA 1
2. Reporting Period: FEBRUARY 1, 1987-FEBRUARY 26, 1987
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): 1145
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	1,416.0	14,641.0
12. Number Of Hours Reactor Was Critical	662.3	1,301.0	10,338.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	659.9	1,297.3	9,958.0
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	2,217,281	4,204,957	30,777,179
17. Gross Electrical Energy Generated (MWH)	781,425	1,481,035	10,761,767
18. Net Electrical Energy Generated (MWH)	739,962	1,396,840	10,019,846
19. Unit Service Factor	98.2	90.9	68.0
20. Unit Availability Factor	98.2	90.9	68.0
21. Unit Capacity Factor (Using MDC Net)	96.2	86.2	59.8
22. Unit Capacity Factor (Using DER Net)	96.2	86.2	59.8
23. Unit Forced Outage Rate	1.8	9.1	18.6

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	-----	-----

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-413

 UNIT Catawba 1

 DATE March 13, 1987

 COMPLETED J. A. Reavis

 TELEPHONE 704-373-7567

MONTH FEBRUARY, 1987

DAY ---	AVERAGE DAILY POWER LEVEL (MWE-Net)	DAY ---	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	106	17	1139
2	980	18	1143
3	1137	19	1145
4	1149	20	1144
5	1148	21	1144
6	1145	22	1145
7	1144	23	1142
8	1145	24	1143
9	1144	25	1141
10	1144	26	1142
11	1147	27	1140
12	1144	28	1142
13	1145		
14	1146		
15	1146		
16	1145		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-413
 UNIT NAME CATAWBA 1
 DATE 03/13/87
 COMPLETED BY GERALD REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH February 1987

N O .	DATE	T Y P E	DURATION HOURS	R E A S O N	MET- HOD OF SHU- TING DOWN R/X	LICENSE EVENT REPORT NO.	SYS- TEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3	87- 2-01	F	12.07	A	4		IE	INSTRU	REACTOR TRIP DUE TO HIGH FLUX LOW POWER RANGE SETPOINT
9-p	87- 2- 1	F	--	F	--		HG	XXXXXX	POWER INCREASE DELAY DUE TO HOTWELL OXYGEN CONTENT OUT OF SPEC
10-p	87- 2- 1	F	--	B	--		IE	INSTRU	POWER INCREASE DELAY DUE TO NUCLEAR INSTRUMENTATION CALIBRATION (CHANNEL MISMATCH)
11-p	87- 2- 2	S	--	B	--		HA	TURBIN	TURBINE TRIP TEST
12-p	87- 2- 2	F	--	B	--		IE	INSTRU	NUCLEAR INSTRUMENTATION RECALIBRATION TO CORRECT POWER MISMATCH

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: 03/13/87

NARRATIVE SUMMARY

Month: February, 1987

Catawba Unit 1 began the month returning to service after an outage to correct a design deficiency on the Containment Air Return Fans, when the unit tripped due to a setpoint not being blocked. The unit was back on line that day. Following several holds during the power escalation due to chemistry, testing, and instrument problems, the unit operated at 100% for the remainder of the month.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 1
2. Scheduled next refueling shutdown: October, 1987
3. Scheduled restart following refueling: December, 1987
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes

If yes, what will these be? Technical Specification Revision

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: August, 2008

DUKE POWER COMPANY

DATE: March 13, 1987

Name of Contact: J. A. Reavis

Phone: 704-373-7567

OPERATING DATA REPORT

DOCKET 50-414

DATE 3-13-87

OPERATING STATUS

COMPLETED BY J. A. Reavis

TELEPHONE 704/373-7567

1. Unit Name: CATAWBA 2
2. Reporting Period: FEBRUARY 1, 1987-FEBRUARY 28, 1987
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): 1145
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
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11. Hours In Reporting Period	672.0	1,416.0	4,657.0
12. Number Of Hours Reactor Was Critical	608.4	1,291.6	2,684.4
13. Reactor Reserve Shutdown Hours	--0--	--0--	--0--
14. Hours Generator On-Line	574.9	1,241.3	2,567.0
15. Unit Reserve Shutdown Hours	--0--	--0--	--0--
16. Gross Thermal Energy Generated (MWH)	1,746,995	3,924,863	7,969,477
17. Gross Electrical Energy Generated (MWH)	602,950	1,365,550	2,788,692
18. Net Electrical Energy Generated (MWH)	564,821	1,282,913	2,580,115
19. Unit Service Factor	85.6	87.7	55.1
20. Unit Availability Factor	85.6	87.7	55.1
21. Unit Capacity Factor (Using MDC Net)	73.4	79.1	48.4
22. Unit Capacity Factor (Using DER Net)	73.4	79.1	48.4
23. Unit Forced Outage Rate	10.4	7.8	44.0
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
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INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-414
 UNIT Catawba 2
 DATE March 13, 1987
 COMPLETED J. A. Reavis
 TELEPHONE 704-373-7567

MONTH FEBRUARY, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)
1	0
2	164
3	697
4	1115
5	1118
6	1116
7	1113
8	1096
9	1116
10	1119
11	1120
12	1102
13	1115
14	1124
15	1122
16	1123

DAY	AVERAGE DAILY POWER LEVEL (MWE-Net)
17	1118
18	1125
19	1137
20	823
21	697
22	1105
23	1100
24	649
25	0
26	0
27	56
28	494

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414
 UNIT NAME CATAWBA 2
 DATE 03/13/87
 COMPLETED BY GERALD REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH February 1987

N O .	DATE	T Y P E	DURATION HOURS	R E A S O N	MET- HOD OF SHU- TING DOWN R/X	LICENSE EVENT REPORT NO.	SYS- TEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3	87- 2-01	S	30.20	A	4		CB	HTEXCH	REACTOR COOLANT DRAIN TANK HEAT EXCHANGER LEAK REPAIR
11-p	87- 2- 2	F	--	A	--		HA	INSTRU	POWER INCREASE DELAY DUE TO TURBINE GENERATOR CONTROL PROBLEMS
12-p	87- 2- 3	S	--	B	--		HA	TURBIN	POWER INCREASE DELAY DUE TO TURBINE TRIP TEST
13-p	87- 2- 3	F	--	B	--		HA	INSTRU	POWER INCREASE DELAY DUE TO POWER LOAD UNBALANCE CIRCUIT CALIBRATION
14-p	87- 2- 4	F	--	A	--		HJ	PUMPXX	HEATER DRAIN PUMP '2C1' SEAL REPAIR (RX POWER AT 100%)
15-p	87- 2- 8	S	--	F	--		ZZ	ZZZZZZ	POWER REDUCTION PER DISPATCHER REQUEST

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 03/13/87
 COMPLETED BY GERALD REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH February 1987

N O .	DATE	T Y P E	DURATION HOURS	R E A S O N	MET- HOD OF SHU- TING DOWN R/X	LICENSE EVENT REPORT NO.	SYS- TEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
16-p	87- 2- 8	F	--	A	--		HJ	PUMPXX	HEATER DRAIN PUMP '2C1' SEAL REPAIR (RX AT 100% POWER)
17-p	87- 2-12	S	--	B	--		HB	VALVEX	POWER REDUCTION DUE TO CONTROL VALVE MOVEMENT TEST
18-p	87- 2-12	F	--	A	--		HJ	PUMPXX	HEATER DRAIN PUMP '2C2' SEAL REPAIR (RX POWER AT 100%)
19-p	87- 2-20	F	--	A	--		HH	VALVEX	POWER REDUCTION DUE TO STEAM GENER- ATOR '2D' FEEDWATER CONTROL VALVE REPAIR
20-p	87- 2-21	F	--	F	--		HG	HTEXCH	POWER INCREASE DELAY DUE TO STEAM GENERATOR SULFATE CHEMISTRY VERIFI- CATION
21-p	87- 2-21	F	--	H	--		RC	FUELXX	POWER INCREASE DELAY DUE TO QUADRANT POWER TILT RATIO 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)

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 Method:
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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414
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 DATE 03/13/87
 COMPLETED BY GERALD REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH February 1987

N O	DATE	T Y P E	DURATION HOURS	R E A S O N	MET- HOD OF SHU- TING DOWN R/X	LICENSE EVENT REPORT NO.	SYS- TEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
22-p	87- 2-21	F	--	H	--		RC	FUELXX	POWER INCREASE DELAY DUE TO QUADRANT POWER TILT RATIO OUT OF SPEC
23-p	87- 2-22	F	--	H	--		RC	FUELXX	POWER INCREASE DELAY DUE TO QUADRANT POWER TILT RATIO OUT OF SPEC.
24-p	87- 2-23	S	--	B	--		HA	TURBIN	POWER REDUCTION DUE TO TURBINE ACCEPTANCE TESTING
25-p	87- 2-23	S	--	B	--		HA	TURBIN	POWER INCREASE DELAY DUE TO TURBINE ACCEPTANCE TESTING
4	87- 2-24	F	66.92	A	3		EC	CKTBKR	TURBINE AND REACTOR TRIP DUE TO LOSS OF 125 VOLT DC VITAL FEEDER BREAKER
26-p	87- 2-27	F	--	F	--		CG	HTEXCH	POWER INCREASE DELAY DUE TO STEAM GENERATOR CAT CON LEVELS 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)

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-414
 UNIT NAME CATAWBA 2
 DATE 03/13/87
 COMPLETED BY GERALD REAVIS
 TELEPHONE (704)-373-7567

REPORT MONTH February 1987

N O .	DATE	T Y P E	DURATION HOURS	R E A S O N	MET- HOD OF SHU- TING DOWN R/X	LICENSE EVENT REPORT NO.	SYS- TEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
27-p	87- 2-27	F	--	F	--		CG	HTEXCH	POWER INCREASE DELAY DUE TO STEAM GENERATOR SULFITE OUT OF SPEC
28-p	87- 2-28	F	--	A	--		HA	CKTBKR	GENERATOR BREAKER 'B' TRIP, MOISTURE IN MOTOR OPERATED DISCONNECT CABINET
29-p	87- 2-28	F	--	A	--		HA	CKTBKR	GENERATOR BREAKER 'B' TRIP MOTOR OPERATED DISCONNECT
30-p	87- 2-28	F	--	A	--		HA	CKTBKR	GENERATOR BREAKER 'B' 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)

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File (NUREG-0161)

5
Exhibit I - Same Source

DOCKET NO: 50-414

UNIT: Catawba 2

DATE: 03/13/87

NARRATIVE SUMMARY

Month: February, 1987

Catawba Unit 2 began the month returning to service from an outage to repair its Reactor Coolant Drain Tank. The power increase was delayed by turbine control circuitry problems and testing. On 2/04 the unit's efficiency was reduced after its "2C1" Heater Drain Pump was removed from service for repairs. On 2/20 a power reduction to 25% was made so that the "D" Steam Generator Feedwater Regulating valve could be repaired. During the power increase following repairs, several holds were encountered due to chemistry and core power distribution limits. Power was reduced from 100% on 2/23 for Turbine Acceptance testing. The unit tripped off line on 2/24 after a breaker was inadvertently opened that interrupted vital instrumentation power. The unit was back in service on 2/27 but had several holds in its power increase due to chemistry restrictions. On 2/28 a runback occurred while the unit was increasing power towards 100%. Micro switches in the "B" generator breaker Motor Operated Disconnect had malfunctioned and the unit remained at approximately 50% power through the end of the month.

CORRECTED COPY

DOCKET NO: 50-414
UNIT: Catawba 2
DATE: 02-16-87

NARRATIVE SUMMARY

Month: January, 1987

Catawba Unit 2 began the month at 100% power, but on January 6 power was reduced to 88% to remove a Heater Drain pump from service. Flux mapping was also performed which required the unit to maintain 88% power until January 9. On January 10, the unit reduced power from 100% to 17% to repair a Steam Generator Feedwater regulating valve. The valve repairs were completed the same day and the unit began to increase power. A hold was necessary at 82% power due to Power Tilt limits in the core. The unit was back at 100% on January 12. The unit reduced power to 85% on January 15 to remove a Heater Drain pump from service, but was able to return to 100% on January 16 at reduced megawatt output (1066 MWe) due to the loss of the Heater Drain pump. On January 28, the unit tripped after a Steam Generator Feedwater regulating valve failed closed. The unit returned to service on January 29, but the turbine tripped on January 30 due to high Moisture Separator Reheater levels. The unit remained off line for the remainder of the month.

MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba, Unit 2
2. Scheduled next refueling shutdown: December, 1987
3. Scheduled restart following refueling: March, 1988
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes

If yes, what will these be? Technical Specification Revision

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: -0-
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: August, 2008

DUKE POWER COMPANY

DATE: March 13, 1987

Name of Contact: J. A. Reavis

Phone: 704-373-7567

CATAWBA NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

1. Personnel Exposure

For the month of January, no individual 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 10 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 limit.

DUKE POWER COMPANY

P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

March 13, 1987

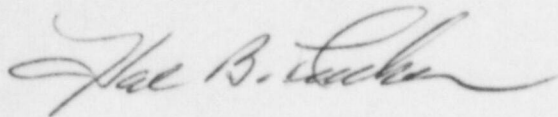
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

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 February, 1987. Also attached is a corrected copy of the Catawba Unit 2 Narrative Summary.

Very truly yours,



Hal B. Tucker

JAR/03/sbn

Attachment

xc: Dr. J. Nelson Grace, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
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

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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