



Duke Power Company  
A Duke Energy Company  
Energy Center  
P.O. Box 1006  
Charlotte, NC 28201-1006

January 13, 2000

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

Subject: Duke Energy Corporation  
Catawba Nuclear Station, Units 1, and 2  
Docket Numbers 50-413 and 50-414  
Monthly Performance and Operation Status-December, 1999

Please find attached information concerning the performance and operation status of the Catawba Nuclear Station for the month of December, 1999.

Any questions or comments may be directed to Roger A. Williams at (704) 382-5346.

Sincerely,

Terry Dimmery, Manager  
Nuclear Business Support

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# Operating Data Report

Docket No.	<u>50-413</u>
Date	<u>January 13, 2000</u>
Completed By	<u>Roger Williams</u>
Telephone	<u>704-382-5346</u>

## Operating Status

- |   |                                      |
|---|--------------------------------------|
| 1. Unit Name:   | Catawba 1                            |
| 2. Reporting Period:  | December 1, 1999 - December 31, 1999 |
| 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 Occured in Capacity Ratings (Items Number 3-7) Since Last Report, Give Reasons: |                                      |

Notes: \*Nameplate Rating (GrossMWe) calculated as 1450.000 MVA \* .90 power factor per Page llii, NUREG-0020.

9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

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

	This Month	YTD	Cumulative
11. Hours in Reporting Period	744.0	8760.0	127177.0
12. Number of Hours Reactor was Critical	744.0	8006.1	102216.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	7988.3	100777.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2533937	137752347	442010551
17. Gross Electrical Energy Generated (MWH)	913206	9575290	117310427
18. Net Electrical Energy Generated (MWH)	867689	9073741	110516108
19. Unit Service Factor	100.0	91.2	79.2
20. Unit Availability Factor	100.0	91.2	79.2
21. Unit Capacity Factor (Using MDC Net)	103.3	91.7	76.8
22. Unit Capacity Factor (Using DER Net)	101.9	90.5	75.9
23. Unit Forced Outage Rate	0.0	0.0	6.8
24. Shutdown Scheduled Over Next 6 Months (Type, Date and Duration of Each)			

25. If ShutDown 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	_____	_____

### UNIT SHUTDOWNS

**DOCKET NO.** 50-413

**UNIT NAME:** Catawba 1

**DATE:** January 13, 2000

**COMPLETED BY:** Roger Williams

**TELEPHONE:** 704-382-5346

**REPORT MONTH:** December, 1999

No.	Date:	Type F - Forced S - Scheduled	Duration Hours	(1) Reason	(2) Method of Shutdown R/X	Licensed Event Report No.	Cause and Corrective Action to Prevent Recurrence
			No	Outages	for the Month		

**Summary:**

**(1) 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)

**(2) Method**

- 1 - Manual
- 2 - Manual Trip/Scram
- 3 - Automatic Trip/Scram
- 4 - Continuation
- 5 - Other (Explain)

## MONTHLY REFUELING INFORMATION REQUEST

1. Facility name: Catawba Unit 1
2. Scheduled next refueling shutdown: October 2000
3. Scheduled restart following refueling: November 2000

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: <u>193</u>
(b)	in the spent fuel pool: <u>784</u>
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 license capacity:  
November 2009

**DUKE POWER COMPANY**

DATE: January 13, 2000

Name of Contact: R. A. Williams

Phone: (704) - 382-5346

# Operating Data Report

Docket No. 50-414  
 Date January 13, 2000  
 Completed By Roger Williams  
 Telephone 704-382-5346

## Operating Status

- 1. Unit Name: Catawba 2
- 2. Reporting Period: December 1, 1999 - December 31, 1999
- 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 Occured in Capacity Ratings (Items Number 3-7) Since Last Report, Give Reasons:

Notes: \*Nameplate Rating (Gross MWe) calculated as 1450.000 MVA \* .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	YTD	Cumulative
11. Hours in Reporting Period	744.0	8760.0	117193.0
12. Number of Hours Reactor was Critical	714.4	7795.5	95522.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	714.4	7727.8	94180.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2299135	163802288	445352223
17. Gross Electrical Energy Generated (MWH)	829937	9360217	109415923
18. Net Electrical Energy Generated (MWH)	786459	8855376	103256996
19. Unit Service Factor	96.0	88.2	80.4
20. Unit Availability Factor	96.0	88.2	80.4
21. Unit Capacity Factor (Using MDC Net)	93.6	89.5	77.9
22. Unit Capacity Factor (Using DER Net)	92.3	88.3	77.0
23. Unit Forced Outage Rate	4.0	11.8	8.0
24. Shutdown Scheduled Over Next 6 Months (Type, Date and Duration of Each)			

25. If ShutDown 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	_____	_____

## UNIT SHUTDOWNS

DOCKET NO. 50-414UNIT NAME: Catawba 2DATE: January 13, 2000COMPLETED BY: Roger WilliamsTELEPHONE: 704-382-5346REPORT MONTH: December, 1999

No.	Date:	Type F - Forced S - Scheduled	Duration Hours	(1) Reason	(2) Method of Shutdown R/X	Licensed Event Report No.	Cause and Corrective Action to Prevent Recurrence
3	12/30/99	F	29.63	A	3		(TURBINE/REACTOR TRIP) SPURIOUS MAIN TURBINE TRIP SIGNAL DUE TO TURBINE EMERGENCY TRIP SOLENOID PROBLEM

**Summary:**

Catawba unit 2 began the month of December, 1999 operating at 100% full power. The unit operated at or near 100% full power until 12/30/99 at 1821, when a turbine/reactor trip occurred due to a spurious main turbine trip signal due to turbine emergency trip solenoid problem. The unit remained in the outage the remainder of the month.

**(1) 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)

**(2) Method**

1 - Manual  
 2 - Manual Trip/Scram  
 3 - Automatic Trip/Scram  
 4 - Continuation  
 5 - Other (Explain)

**MONTHLY REFUELING INFORMATION REQUEST**

1. Facility name: Catawba Unit 2
2. Scheduled next refueling shutdown: March 2000
3. Scheduled restart following refueling: April 2000

**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: 684
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 license capacity:  
May 2012

**DUKE POWER COMPANY**

**DATE: January 13, 2000**

**Name of Contact: R. A. Williams**

**Phone: (704) - 382-5346**



CATAWBA NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

NOVEMBER 1999

1. Personnel Exposure -

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