



Duke Energy Corporation  
526 South Church Street  
PO Box 1006  
Charlotte, NC 28201-1006

April 15, 2003

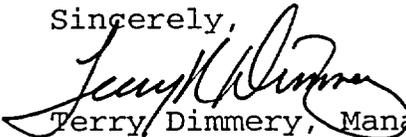
U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Subject: Duke Energy Corporation  
Catawba Nuclear Station, Units 1, and 2  
Docket Numbers 50-413 and 50-414  
Monthly Performance and Operation Status-March, 2003

Please find attached information concerning the performance and operation status of the Catawba Nuclear Station for the month of March, 2003 and REVISION 1 of the Unit Shutdowns page narrative section for Catawba Unit 2 for the month of February, 2003.

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

Sincerely,

  
Terry Dimmery, Manager  
Nuclear Business Support

Attachment

XC:

L. A. Reyes, Regional Administrator  
USNRC, Region II

R. E. Martin, Project Manager  
USNRC, ONRR

INPO Records Center

Ms. Margaret Aucoin  
Nuclear Assurance Corporation

Dottie Sherman, ANI Library  
American Nuclear Insurers

E. F. Guthrie, Senior Resident Inspector

JE24

Document Control Desk  
U.S. NRC - Catawba

bxc:

Gary Gilbert (CN01RC)  
K. E. Nicholson (CN01RC)  
RGC Site Licensing File  
ELL (EC050)



**UNIT SHUTDOWNS**

DOCKET NO. 50-413  
 UNIT NAME: Catawba 1  
 DATE: April 15, 2003  
 COMPLETED BY: Roger Williams  
 TELEPHONE: 704-382-5346

REPORT MONTH: March, 2003

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
			<b>No</b>	<b>Outages</b>	<b>for the Month</b>		

**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)



# Operating Data Report

Docket No.	50-414
Date	April 15, 2003
Completed By	Roger Williams
Telephone	704-382-5346

## Operating Status

- |   |                                |
|---|--------------------------------|
| 1. Unit Name:   | Catawba 2                      |
| 2. Reporting Period:  | March 1, 2003 - March 31, 2003 |
| 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	2160.0	145657.0
12. Number of Hours Reactor was Critical	132.5	1548.5	121353.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	101.0	1517.0	119897.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	201699	43346419	432316246
17. Gross Electrical Energy Generated (MWH)	64532	1807083	140453132
18. Net Electrical Energy Generated (MWH)	51791	1710429	132695244
19. Unit Service Factor	13.6	70.2	82.3
20. Unit Availability Factor	13.6	70.2	82.3
21. Unit Capacity Factor (Using MDC Net)	6.2	70.1	80.6
22. Unit Capacity Factor (Using DER Net)	6.1	69.2	79.6
23. Unit Forced Outage Rate	9.9	0.7	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.** 50-414  
**UNIT NAME:** Catawba 2  
**DATE:** April 15, 2003  
**COMPLETED BY:** Roger Williams  
**TELEPHONE:** 704-382-5346

**REPORT MONTH:** March, 2003

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
1	03/01/03	S	629.22	C	--		END-OF-CYCLE 12 REFUELING OUTAGE
2	03/27/03	S	2.75	B	--		MAIN TURBINE OVERSPEED TRIP TEST
3	03/28/03	F	11.05	A	--		REPAIR FEEDWATER VALVE (2CA-42)

**Summary:**  
 Catawba unit 2 began the month of March operating at approximately 14% power and decreasing to begin end-of-cycle 12 refueling outage. The unit was taken off-line 03/01/03 at 0056 to begin end-of-cycle 12 refueling outage. The end-of-cycle 12 refueling outage spanned 26.22 days. The unit was placed on-line 03/27/03 at 0609. During power escalation, the unit held at 11% power from 03/27/03 at 0622 to 03/27/03 at 0658 due to shift turnover. The unit increased power and held at 19% power from 0757 to 1411 due to main turbine soak. The turbine overspeed trip test was performed 03/27/03 at 0411. The unit was placed on-line 03/27/03 at 1656. The unit held at 19% power from 1751 to 03/28/03 at 1650 due to main feedwater nozzle swap. The unit began decreasing power on 03/28/03 at 1650 and was taken off-line 03/28/03 at 1835 to repair feedwater valve (2CA-42) and turbine intercept valve #2. The unit was placed on-line 03/29/03 at 0538. On 03/29/03 at 0717 the unit held at 19% power until 1154 (Cont'd)

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- H - Other (Explain)

**(2) Method**

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

**UNIT SHUTDOWNS**

**DOCKET NO.** 50-414  
**UNIT NAME:** Catawba 2  
**DATE:** April 15, 2003  
**COMPLETED BY:** Roger Williams  
**TELEPHONE:** 704-382-5346

**REPORT MONTH:** March, 2003

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

**Summary:**  
 due to main feedwater nozzle swap. The unit held at 76% power from 03/30/03 at 0632 to 0840 due to power ascension testing. The unit held at 90% power due to nuclear instrumentation calibration from 1511 to 1640. The unit held at 94% power from 03/30/03 at 1829 to 03/31/03 at 0256 due to process cabinet delta T channel calibrations. The unit returned to 100% full power on 03/31/03 at 1037 and operated at or near 100% full power the remainder of the month.

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CATAWBA NUCLEAR STATION

MONTHLY OPERATING STATUS REPORT

FEBRUARY 2003

1. Personnel Exposure -

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

UNIT SHUTDOWNS

DOCKET NO. 50-413

UNIT NAME: Catawba 1

DATE: March 13, 2003

COMPLETED BY: Roger Williams

TELEPHONE: 704-382-5346

REPORT MONTH: February, 2003

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
1	02/04/03	F	37.10	A	3		MAIN TURBINE TRIP GENERATED BY HI HI STEAM GENERATOR 1B LEVEL

**Summary:**

Catawba unit 1 began the month of February operating at approximately 100% full power. On 02/04/02 at 1005 a automatic reactor trip was initiated from 100% full power by a main turbine trip generated by Hi Hi steam generator 1B level. The unit was placed on-line 02/05/03 at 2311. During power escalation, the unit held at 18% power from 02/06/03 at 0013 to 0103 due to main feedwater nozzle swap. The unit held at 55% power from 0520 to 0550 to place second main feedwater pump in service. The unit held at 87% power from 1044 to 1207 to perform the main turbine control valve movement test. The unit returned to 100% full power on 02/06/03 at 1700 and operated at or near 100% full power the remainder of the month.

**(1) Reason**

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- H - Other (Explain)

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