Duke Power
A Duke Energy Company

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February 16, 2001

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 Nos.: 50-413, 50-414
Core Operating Limits Report (COLR)

Attached, pursuant to Catawba Technical Specification 5.6.5, is an information copy of the Core Operating Limits Report for Catawba Unit 1 Cycle 13 Revision 19 and Catawba Unit 2 Cycle 11 Revision 18. The revision increases the Boric Acid Storage System volume limits as follows:

	New Limit	Previous Limit	Increase
Mode 5 - 6	12,054 gallons	12,000 gallons	+ 54 gallons
Mode 5 - 6 to maintain SDM	639 gallons	585 gallons	+ 54 gallons
Mode 1 - 4	24,720 gallons	24,000 gallons	+ 720 gallons
Mode 1 - 4 to maintain SDM	13,020 gallons	12,300 gallons (Unit 1) 11,851 gallons (Unit 2)	+ 720 gallons (Unit 1) + 1,169 gallons (Unit 2)

A001

The increase in the Boric Acid Storage System volume limits is to account for a revision to the previous calculation initial conditions and assumptions:

- higher pressurizer level during cooldown
- lower Reactor Coolant System final cooldown temperature
- include the volume of attached systems to the Reactor Coolant System such as the Chemical and Volume Control System

Please direct any questions or concerns to George Strickland at (803) 831-3585.

Sincerely,

G. R. Peterson

Attachment

xc w/att: L. A. Reyes, Regional, Administrator
USNRC, Region II

C. P. Patel, Project Manager
USNRC, ONRR

D. J. Roberts
Senior Resident Inspector (CNS)

Catawba Unit 1 Cycle 13

Core Operating Limits Report
Revision 19

February 2001

Duke Power Company

		Date
Prepared By:	Sandra D Davis	Feb. 01, 2001
Checked By:	Scott B. Thomas	2/1/01
Checked By:	Raj Al-Ifft	2/1/01
Approved By:	P. M. Abraham	2/1/01

QA Condition 1

The information presented in this report has been prepared and issued in accordance with Catawba Technical Specification 5.6.5.

Catawba 1 Cycle 13 Core Operating Limits Report

IMPLEMENTATION INSTRUCTIONS FOR REVISION 19

Revision 19 of the Catawba Unit 1 COLR should be implemented immediately.

Catawba 1 Cycle 13 Core Operating Limits Report

REVISION LOG

Revision	EI Date	Pages Affected	COLR
0 – 1	Superceded	N/A	C1C07
2 – 5	Superceded	N/A	C1C08
6 – 8	Superceded	N/A	C1C09
9 – 11	Superceded	N/A	C1C10
12 - 14	Superceded	N/A	C1C11
15 – 17	Superceded	N/A	C1C12
18	October 2000	1 – 26 Appendix A	C1C13 (orig. issue)
19	February 2001	1-4, 25, 26	C1C13 (revision)

Catawba 1 Cycle 13 Core Operating Limits Report

INSERTION SHEET FOR REVISION 19

Remove pages	Insert Rev. 19 pages
Pages 1-4, 25 and 26	Pages 1-4, 25 and 26

Catawba 1 Cycle 13 Core Operating Limits Report

2.15 Standby Shutdown System - Standby Makeup Pump Water Supply - (SLC-16.7-9.3)

2.15.1 Minimum boron concentration limit for the spent fuel pool. Applicable for modes 1, 2, and 3.

Parameter	Limit
Spent fuel pool minimum boron concentration for surveillance SLC-16.7-9.3.	2,700 ppm

2.16 Borated Water Source – Shutdown (SLC 16.9-11)

2.16.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during mode 4 with any RCS cold leg temperature $\leq 285^{O}F$, and modes 5 and 6.

Parameter	Limit
Boric Acid Storage System minimum contained borated water volume	12,054 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	639 gallons
Refueling Water Storage Tank minimum contained borated water volume	45,000 gallons
Refueling Water Storage Tank minimum boron concentration	2,700 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,700 ppm	3,500 gallons

Catawba 1 Cycle 13 Core Operating Limits Report

2.17 Borated Water Source - Operating (SLC 16.9-12)

2.17.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during modes 1, 2, 3, and mode 4 with all RCS cold leg temperatures > 285°F.

Parameter	Limit
Boric Acid Storage System minimum contained borated water volume	24,720 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	13,020 gallons
Refueling Water Storage Tank minimum contained borated water volume	98,607 gallons
Refueling Water Storage Tank minimum boron concentration	2,700 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,700 ppm	57,107 gallons

NOTE: Data contained in the Appendix to this document was generated in the Catawba 1 Cycle 13 Maneuvering Analysis calculation file, CNC-1553.05-00-0337. The Plant Nuclear Engineering Section will control this information via computer file(s) and should be contacted if there is a need to access this information.

Catawba Unit 2 Cycle 11

Core Operating Limits Report
Revision 18

February 2001

Duke Power Company

		Date
Prepared By:	Sandra D Bost	Feb. 1, 2001
Checked By:	Scott B. Thomas	2/1/01
Checked By:	R J Al-Light	2/1/01
Approved By:	P. M. Abraham	2/1/01

QA Condition 1

The information presented in this report has been prepared and issued in accordance with Catawba Technical Specification 5.6.5.

Catawba 2 Cycle 11 Core Operating Limits Report

IMPLEMENTATION INSTRUCTIONS FOR REVISION 18

Revision 18 of the Catawba Unit 2 COLR should be implemented immediately.

Catawba 2 Cycle 11 Core Operating Limits Report

REVISION LOG

Revision	Effective Date	Pages Affected	COLR
Original Issue	February 1993	N/A	C2C06 COLR
Revision 1	April 1994	N/A	C2C06 COLR rev 1
Revision 2	May 1994	N/A	C2C07 COLR
Revision 3	October 1994	N/A	C2C07 COLR rev 1
Revision 4	April 1995	N/A	C2C07 COLR rev 2
Revision 5	September 1995	N/A	C2C07 COLR rev 3
Revision 6	October 1995	N/A	C2C08 COLR
Revision 7	September 1996	N/A	C2C08 COLR rev 1
Revision 8	March 1997	N/A	C2C08 COLR rev 2
Revision 9	March 1997	N/A	C2C09 COLR
Revision 10	April 1997	N/A	C2C09 COLR rev 1
Revision 11	June 1997	N/A	C2C09 COLR rev 2
Revision 12	July 1997	N/A	C2C09 COLR rev 3
Revision 13	August 1997	N/A	C2C09 COLR rev 4
Revision 14	August 1998	N/A	C2C10 COLR
Revision 15	October 1998	N/A	C2C10 COLR rev 1
Revision 16	December 1998	N/A	C2C10 COLR rev 2
Revision 17	February 2000	1-25	C2C11 COLR
Revision 18	February 2001	1-4, 24, 25	C2C11 COLR rev 1

Catawba 2 Cycle 11 Core Operating Limits Report

INSERTION SHEET FOR REVISION 18

Remove pages	Insert Rev. 18 pages
Pages 1-4, 24 and 25	Pages 1-4, 24 and 25

Catawba 2 Cycle 11 Core Operating Limits Report

2.15 Standby Makeup Pump Water Supply - Boron Concentration (SLC-16.7-9.3)

2.15.1 Minimum boron concentration limit for the spent fuel pool. Applicable for modes 1, 2, and 3.

Parameter	Limit
Spent fuel pool minimum boron concentration for surveillance SLC-16.7-9.3.	2,700 ppm

2.16 Borated Water Source – Shutdown (SLC 16.9-11)

2.16.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during mode 4 with any RCS cold leg temperature $\leq 285^{O}F$, and modes 5 and 6.

Parameter	Limit
Boric Acid Storage System minimum contained borated water volume	12,054 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	639 gallons
Refueling Water Storage Tank minimum contained borated water volume	45,000 gallons
Refueling Water Storage Tank minimum boron concentration	2,700 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,700 ppm	3,500 gallons

Catawba 2 Cycle 11 Core Operating Limits Report

2.17 Borated Water Source - Operating (SLC 16.9-12)

2.17.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during modes 1, 2, 3, and mode 4 with all RCS cold leg temperatures > 285°F.

Parameter	Limit
Boric Acid Storage System minimum contained borated water volume	24,720 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	13,020 gallons
Refueling Water Storage Tank minimum contained borated water volume	98,607 gallons
Refueling Water Storage Tank minimum boron concentration	2,700 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,700 ppm	57,107 gallons

NOTE: Data contained in the Appendix to this document was generated in the Catawba 2 Cycle 11 Maneuvering Analysis calculation file, CNC-1553.05-00-0322. The Plant Nuclear Engineering Section will control this information via computer file(s) and should be contacted if there is a need to access this information.