

Catawba Unit 2 Cycle 7
Core Operating Limits Report
October 1994

Duke Power Company

		DATE
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QA CONDITION 1

NOTE

This document does not contain information that affects the results and conclusions presented in the C2C7 Reload Report, Safety Analysis.

INSERTION SHEET

Remove

pages 1-302; rev. 1
pages 1-4, 19; rev 2

Insert

pages 1-19; rev. 2
pages 1-4, 19; rev 3

REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Comment</u>
Original Issue	15 February 1993	C2C6 COLR
Revision 1	14 April 1994	C2C6 COLR rev.
Revision 2	19 May 1994	C2C7 COLR
Revision 3	24-October 1994	C2C7 COLR rev

1.0 Core Operating Limits Report

This Core Operating Limits Report (COLR) for Catawba Unit 2, Cycle 7 has been prepared in accordance with the requirements of Technical Specification 6.9.1.9.

The Technical Specifications affected by this report are listed below:

- 2.2.1 Reactor Trip System Instrumentation Setpoints
- 3/4.1.1.3 Moderator Temperature Coefficient
- 3/4.1.2.5 Borated Water Source - Shutdown
- 3/4.1.2.6 Borated Water Source - Operating
- 3/4.1.3.5 Shutdown Rod Insertion Limit
- 3/4.1.3.6 Control Rod Insertion Limit
- 3/4.2.1 Axial Flux Difference
- 3/4.2.2 Heat Flux Hot Channel Factor
- 3/4.2.3 Nuclear Enthalpy Rise Hot Channel Factor
- 3/4.3.3.11 Boron Dilution Mitigation System
- 3/4.5.1 Accumulators
- 3/4.5.4 Refueling Water Storage Tank
- 4.7.13.3 Standby Makeup Pump water supply - Boron Concentration
- 3/4.9.1 Refueling Operations - Boron Concentration
- 3/4.9.2 Instrumentation

Refueling Water Storage Tank maximum boron concentration, for LCO 3.5.4b 2,275 ppm

3.11 Instrumentation (Specification 3/4.9.2)

3.11.1 Reactor Makeup Water Pump Flowrate Limit:

Applicable Mode

Mode 6

Limits

≤ 70 gpm

3.12 Refueling Operations - Boron Concentration (Specification 3/4.9.1)

3.12.1 Minimum boron concentrations for the filled portions of the Reactor Coolant System and the refueling canal. Applicable for mode 6 with the reactor vessel head closure bolts less than fully tensioned, or with the head removed.

Parameter

Refueling boron concentration for the filled portions of the Reactor Coolant System and the refueling canal, for LCO 3.9.1.b.

Limit

2175 ppm

3.13 Standby Makeup Pump Water Supply - Boron Concentration (Specification 4.7.13.3)

3.13.1 Minimum boron concentration limit for the spent fuel pool, or a contained borated water volume (meeting additional requirements of surveillance 4.7.13.3.a.2). Applicable for modes 1, 2, and 3.

Parameter

Spent fuel pool minimum boron concentration, for surveillance 4.7.13.3.a.1

Contained borated water volume, for surveillance 4.7.13.3.a.2

Limits

2175 ppm

2175 ppm

* Values provided as Tables in the Appendix to this document were generated in the C2C07 Maneuvering Analysis calculational file (CNC-1553.05-00-0177). The CNS Nuclear Engineering Group will control this information via computer file(s) and should be contacted if there is a need to access this information.