

Catawba Unit 1 Cycle 8
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 C1C8 Reload Report, Safety Analysis.

INSERTION SHEET

Remove

pages 1-15; rev. 2

pages 1-4, 15E; rev 3

Insert

pages 1-14, 15A, 15B,
15C, 15D, 15E; rev. 3

pages 1-4, 15E; rev. 4

REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Comment</u>
Original Issue	8 September 1992	C1C7 COLR
Revision 1	10 October 1992	C1C7 COLR rev.
Revision 2	1 December 1993	C1C8 COLR
Revision 3	14 April 1994	C1C8 COLR rev
Revision 4	24 October 1994	C1C8 COLR rev

1.0 Core Operating Limits Report

This Core Operating Limits Report (COLR) for Catawba Unit 1, Cycle 8 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:

<u>Applicable Mode</u>	<u>Limits</u>
Mode 6	≤ 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.

<u>Parameter</u>	<u>Limit</u>
Refueling boron concentration for the filled portions of the Reactor Coolant System and the refueling canal, for LCO 3.9.1.b.	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.

<u>Parameter</u>	<u>Limits</u>
Spent fuel pool minimum boron concentration, for surveillance 4.7.13.3.a.1	2175 ppm
Contained borated water volume, for surveillance 4.7.13.3.a.2	2175 ppm