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September 14, 2000

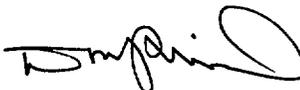
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: McGuire Nuclear Station, Unit 2
Docket No.50-370
Core Operating Limits Report (COLR)

Pursuant to McGuire Technical Specification 5.6.5.d, please find enclosed a revision to the McGuire Unit 2, Cycle 13 Core Operating Limits Report (COLR).

The requirement for refueling operations boron concentration of the Reactor Coolant System (NC) was changed from 2675 to 2500 ppmb for core offload purposes.

Questions regarding this submittal should be directed to Kay Crane, McGuire Regulatory Compliance at (704) 875-4306.

 for HBB

H. B. Barron, Vice President
McGuire Nuclear Station

Attachment

A001

U. S. Nuclear Regulatory Commission
September 14, 2000
Page 2

cc: Mr. Frank Rinaldi, Project Manager
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. Luis Reyes, Regional Administrator
U. S. Nuclear Regulatory Commission
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Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30323

Mr. Scott Shaeffer
Senior Resident Inspector
McGuire Nuclear Station

McGuire Unit 2 Cycle 13
Core Operating Limits Report
Revision 17

September 2000

Calculation Number: MCC-1553.05-00-0298, Rev. 2

Duke Power Company

		Date
Prepared By:	<u>Daniel E. Brady</u>	<u>9/6/00</u>
Checked By:	<u>Scott B. Thomas</u>	<u>9/6/00</u>
Checked By:	<u>NA</u>	<u></u>
Approved By:	<u>P. M. Abraham</u>	<u>9/6/00</u>

QA Condition 1

The contents of this document have been reviewed to verify that no material herein either directly or indirectly invalidates the results and conclusions presented in the 10CFR50.59 McGuire 2 Cycle 13 Reload Safety Evaluation (Calculation File: MCC-1552.08-00-0294.)

McGuire 2 Cycle 13 Core Operating Limits Report

IMPLEMENTATION INSTRUCTIONS FOR REVISION 17

Revision 17 of the McGuire Unit 2 COLR revises the refueling operations boron concentration NC system requirement from 2675 to 2500 ppmb. This revision can be implemented upon receipt.

McGuire 2 Cycle 13 Core Operating Limits Report

REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Effective Pages</u>	<u>COLR</u>
Revisions 0-2	Superseded	N/A	M2C09
Revisions 3-6	Superseded	N/A	M2C10
Revisions 7-12	Superseded	N/A	M2C11
Revision 13-15	Superseded	N/A	M2C12
Revision 16	March 12, 1999	5-20, 22 and 23	M2C13
Revision 17	September 6, 2000	1-4 and 21	M2C13 – Rev. 1

McGuire 2 Cycle 13 Core Operating Limits Report

INSERTION SHEET FOR REVISION 17

Remove pages

Pages 1-4 and 21

Insert Rev. 17 pages

Pages 1-4 and 21

McGuire 2 Cycle 13 Core Operating Limits Report

2.12 Spent Fuel Pool Boron Concentration (TS 3.7.14)

2.12.1 Minimum boron concentration limit for the spent fuel pool. Applicable when fuel assemblies are stored in the spent fuel pool.

<u>Parameter</u>	<u>Limit</u>
Spent fuel pool minimum boron concentration.	2,675 ppm

2.13 Refueling Operations - Boron Concentration (TS 3.9.1)

2.13.1 Minimum boron concentration limit for the filled portions of the Reactor Coolant System, refueling canal, and refueling cavity for mode 6 conditions. The minimum boron concentration limit and plant refueling procedures ensure that the K_{eff} of the core will remain within the mode 6 reactivity requirement of $K_{eff} \leq 0.95$.

<u>Parameter</u>	<u>Limit</u>
Minimum Boron concentration of the Reactor Coolant System, the refueling canal, and the refueling cavity.	2,675 ppm+

+ A minimum boron concentration of ≥ 2500 ppmb is acceptable in the NC system to ensure a $K_{eff} \leq 0.95$.