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August 14, 2006

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

Subject: McGuire Nuclear Station,  
Docket Nos. 50-369  
Unit 1, Cycle 18, Revision 29  
Core Operating Limits Report (COLR)

Pursuant to McGuire Technical Specification (TS) 5.6.5.d, please find enclosed Revision 29 to the McGuire Unit 1 Cycle 18 Core Operating Limits Report (COLR). The timeliness of this submittal is not consistent with the subject TS and is being addressed in the corrective action program via PIP M06-2954.

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

Gary R. Peterson

Attachment

A001

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

Mr. W. D. Travers, Regional Administrator  
U. S. Nuclear Regulatory Commission, Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, GA 30323

Mr. Joe Brady  
Senior Resident Inspector  
McGuire Nuclear Station

McGuire Unit 1 Cycle 18  
Core Operating Limits Report  
Revision 29

May 2006

Calculation Number: MCC-1553.05-00-0428, Rev. 1

Duke Power Company

		Date
Prepared By:	<u>Nicholas R Hager</u>	<u>5/19/2006</u>
Checked By:	<u>[Signature]</u>	<u>5/19/2006</u>
Checked By:	<u>[Signature]</u> (Sections 2.2 and 2.10 – 2.17)	<u>5/19/2006</u>
Approved By:	<u>RC Harney</u>	<u>5/22/06</u>

QA Condition 1

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

## McGuire 1 Cycle 18 Core Operating Limits Report

## INSPECTION OF ENGINEERING INSTRUCTIONS

Inspection Waived By: RC Harvey  
(Sponsor)Date: 5/22/06CATAWBAInspection  
Waived

MCE (Mechanical & Civil)	<input type="checkbox"/>	Inspected By/Date: _____
RES (Electrical Only)	<input type="checkbox"/>	Inspected By/Date: _____
RES (Reactor)	<input type="checkbox"/>	Inspected By/Date: _____
MOD	<input type="checkbox"/>	Inspected By/Date: _____
Other ( _____ )	<input type="checkbox"/>	Inspected By/Date: _____

OCONEEInspection  
Waived

MCE (Mechanical & Civil)	<input type="checkbox"/>	Inspected By/Date: _____
RES (Electrical Only)	<input type="checkbox"/>	Inspected By/Date: _____
RES (Reactor)	<input type="checkbox"/>	Inspected By/Date: _____
MOD	<input type="checkbox"/>	Inspected By/Date: _____
Other ( _____ )	<input type="checkbox"/>	Inspected By/Date: _____

MCGUIREInspection  
Waived

MCE (Mechanical & Civil)	<input checked="" type="checkbox"/>	Inspected By/Date: _____
RES (Electrical Only)	<input checked="" type="checkbox"/>	Inspected By/Date: _____
RES (Reactor)	<input checked="" type="checkbox"/>	Inspected By/Date: _____
MOD	<input checked="" type="checkbox"/>	Inspected By/Date: _____
Other ( _____ )	<input type="checkbox"/>	Inspected By/Date: _____

## McGuire 1 Cycle 18 Core Operating Limits Report

### Implementation Instructions for Revision 29

#### Revision Description and PIP Tracking

Revision 29 of the McGuire Unit 1 COLR revises the RCS Total Flow Rate for the McGuire 1 Cycle 18 reload core as described in PIP #M-06-01971. There are no other COLR changes.

#### Implementation Schedule

Revision 29 may become effective at site Compliance's earliest possible convenience, or as prescribed in PIP #M-06-01971.

#### Data files to be Implemented

No data files are transmitted as part of this document.

#### Insertion/Deletion Instructions

Remove	Insert
pages 1- 4, 27 of rev 28	pages 1- 4, 27 of rev 29

## McGuire 1 Cycle 18 Core Operating Limits Report

## REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Effective Pages</u>	<u>COLR</u>
Revisions 0-3	Superseded	N/A	M1C09
Revisions 4-8	Superseded	N/A	M1C10
Revisions 9-11	Superseded	N/A	M1C11
Revisions 12-15	Superseded	N/A	M1C12
Revisions 16-17	Superseded	N/A	M1C13
Revision 18-20	Superseded	N/A	M1C14
Revision 21-23	Superseded	N/A	M1C15
Revision 24-26	Superseded	N/A	M1C16
Revision 27	March 12, 2004	1 - 32	M1C17 (Original Issue)
Revision 28	August 31, 2005	1 - 32	M1C18 (Original Issue)
Revision 29	May 19, 2006	1 - 4, 27	M1C18 (Revision 1)

## McGuire 1 Cycle 18 Core Operating Limits Report

Table 4

## Reactor Coolant System DNB Parameters

PARAMETER	INDICATION	No. Operable CHANNELS	LIMITS
1. Indicated RCS Average Temperature	meter	4	$\leq 587.2$ °F
	meter	3	$\leq 586.9$ °F
	computer	4	$\leq 587.7$ °F
	computer	3	$\leq 587.5$ °F
2. Indicated Pressurizer Pressure	meter	4	$\geq 2219.8$ psig
	meter	3	$\geq 2222.1$ psig
	computer	4	$\geq 2215.8$ psig
	computer	3	$\geq 2217.5$ psig
3. RCS Total Flow Rate			$\geq 390,000$ gpm*

\*Note: The RCS minimum coolant flow rate assumed in the licensing analyses for the M1C18 core is 388,000 gpm. However, the flow is set at 390,000 gpm, which is conservative