



Entergy Operations, Inc.
Waterloo Road
P.O. Box 756
Port Gibson, MS 39150
Tel 601 437 6299

Charles A. Bottemiller
Manager
Plant Licensing

GNRO-2005/00013

April 7, 2005

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Core Operating Limits Report Cycle 14 Mid-cycle Revision -
LDC 05009

Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29

Ladies and Gentlemen:

Entergy Operations, Inc. is submitting revised pages to the Core Operating Limits Report (COLR) for Grand Gulf Nuclear Station (GGNS) (reference: Licensing Document Change LDC 05009) as required by GGNS Technical Specification 5.6.5. for a Cycle 14 mid-cycle Revision. The analytical methods used to determine the Cycle 14 Core Operating Limits were previously approved by the NRC and are listed in GGNS Technical Specification 5.6.5. **This letter does not contain any commitments.** If you have any questions or require additional information, please contact Mike Larson (601) 437-6685.

Yours truly,

A handwritten signature in black ink, appearing to be "CAB/MJL".

CAB/MJL

attachment: GGNS Core Operating Limits Report

cc: see next page

April 7, 2005
GNRO-2005/00013
Page 2 of 2

cc: NRC Senior Resident Inspector
Grand Gulf Nuclear Station
Port Gibson, MS 39150

U. S. Nuclear Regulatory Commission
ATTN: Dr. Bruce S. Mallet (w/2)
Regional Administrator, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

U. S. Nuclear Regulatory Commission
ATTN: Mr. Bhalchandra Vaidya, NRR/DLPM (w/2)
ATTN: ADDRESSEE ONLY
ATTN: U. S. Postal Delivery Address Only
Mail Stop OWFN/7D-1
Washington, DC 20555-0001

Mr. D. E. Levanway (Wise Carter)
Mr. L. J. Smith (Wise Carter)
Mr. N. S. Reynolds
Mr. H. L. Thomas

CORE OPERATING LIMITS REPORT

REASON FOR REVISION

This revision provides the updated cycle 14 operating limits to account for the SPCB critical power correlation coding errors identified in CR-GGN-2005-00365 and CR-GGN-2005-00492. These limits are based on a core power of 3898 MWt.

TABLE OF CONTENTS

1.0	PURPOSE	3
2.0	SCOPE	3
3.0	REFERENCES	4-6
3.1	Background References	4
3.2	Current Cycle References	4
3.3	Methodology References	5-6
4.0	DEFINITIONS	7
5.0	GENERAL REQUIREMENTS	8-9
5.1	Average Planar Linear Heat Generation Rates	8
5.2	Minimum Critical Power Ratio	8
5.3	Linear Heat Generation Rate	8
5.4	Stability	8
5.5	Applicability	8-9
Figure(s) 1	APLHGR Operating Limits	10-13
Figure(s) 2	MCPR Operating Limits	14-17
Figure(s) 3	LHGR Operating Limits	18-21
Figure(s) 4	E1A Stability Limits	22-26

CORE OPERATING LIMITS REPORT

3.0 REFERENCES

This section contains the background, cycle-specific, and methodology references used in the safety analysis of Grand Gulf Cycle 14.

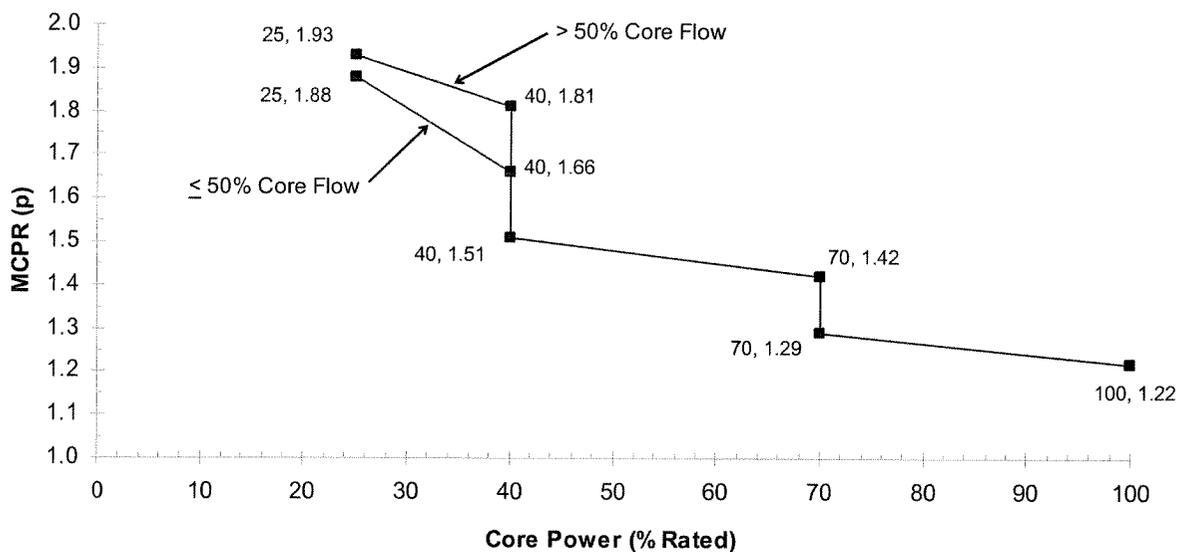
3.1 Background References

- 3.1.1 MAEC-88/0313, Generic Letter 88-16, "Removal of Cycle-Specific Parameter Limits from Technical Specifications", October 4, 1988.
- 3.1.2 GNRO-92-00093, Proposed Amendment to Grand Gulf Operating License, PCOL-92/07, dated October 29, 1992.
- 3.1.3 GNRI-93-0008, Amendment 106 to Grand Gulf Operating License, January 21, 1993.

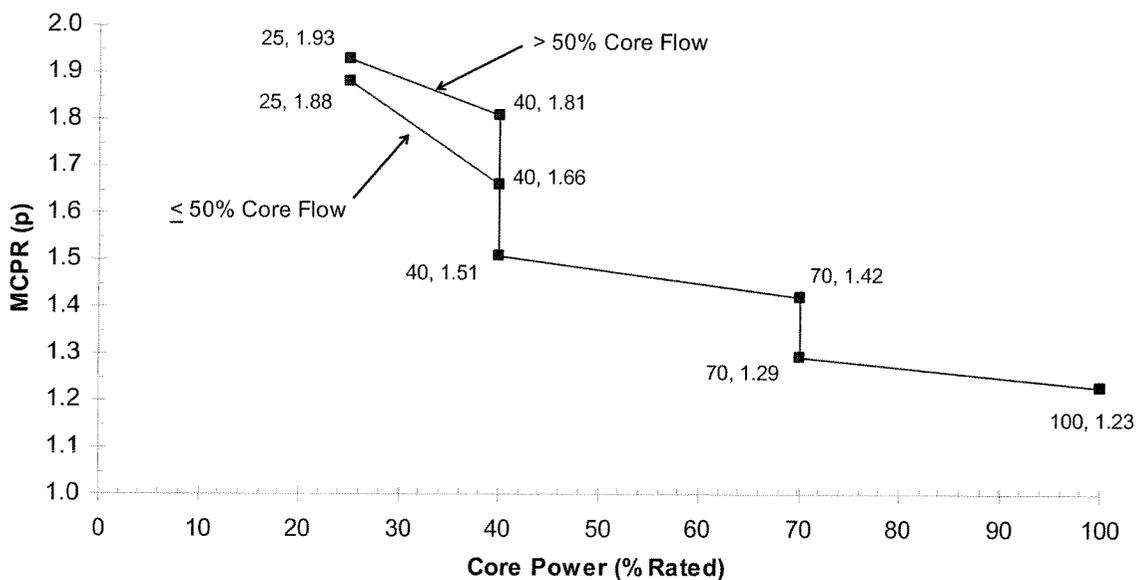
3.2 Current Cycle References

- 3.2.1 FAB05-258, J.L. Raklios to J.A. Elam, "Revised Licensing Reports for Grand Gulf Nuclear Station Cycle 14," dated March 4, 2005.
- 3.2.2 GEXI 2000-00043, R.E. Kingston to J.B. Lee, "Transmittal of GGNS LHGR/MAPLHGR Relaxation Results," dated October 23, 2000.
- 3.2.3 FAB04-072, J.L. Raklios to J.B. Lee, "Grand Gulf Cycle 14 Final Core Loading Report - Revision 1," dated March 8, 2004.
- 3.2.4 GEXI 97-00035, R.E. Kingston to J.B. Lee, "Utilization of Power and Flow Dependent MAPLHGR and LHGR Limits," dated June 27, 1997.
- 3.2.5 NEDC-32910P, "Grand Gulf Nuclear Station SAFER/GESTR-LOCA Loss-of-Coolant Accident Analysis with Relaxed ECCS Parameters," dated September 1999.
- 3.2.6 CEO 2000-00094, Jim Head to M.D. Withrow, "Revised EIA Related COLR Input," dated April 20, 2000.
- 3.2.7 Deleted
- 3.2.8 GEXI 2000-00116, K.V. Walters to J.B. Lee, "Technical Specification and COLR References for Grand Gulf Nuclear Station and River Bend Station," November 3, 2000.

CORE OPERATING LIMITS REPORT

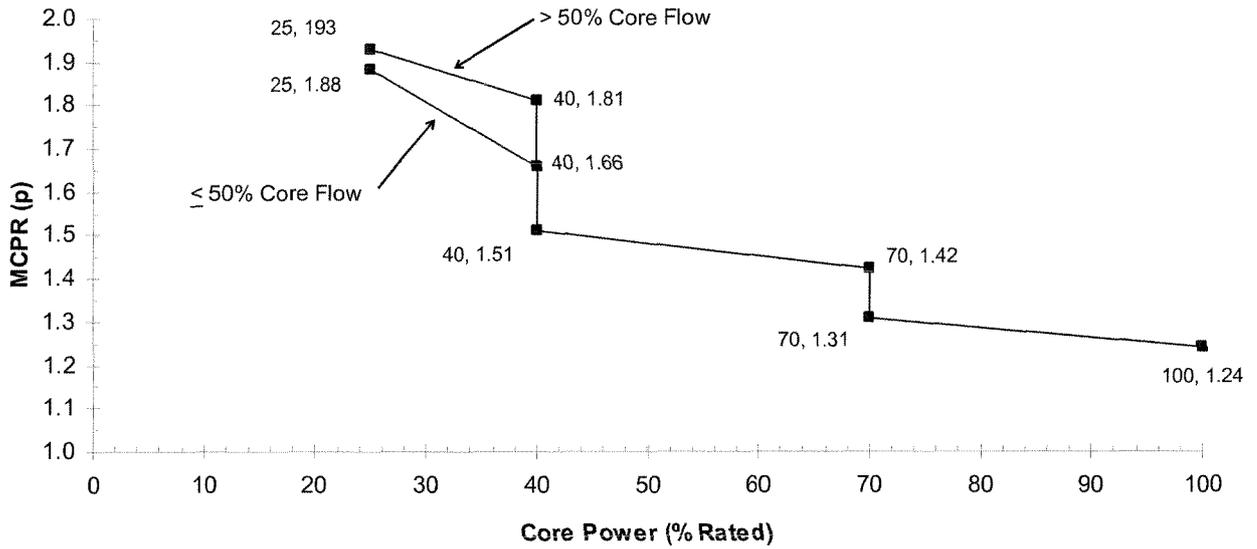


**Figure 2-1 Cycle 14 Power-Dependent MCPR Limits
BOC to MOC**

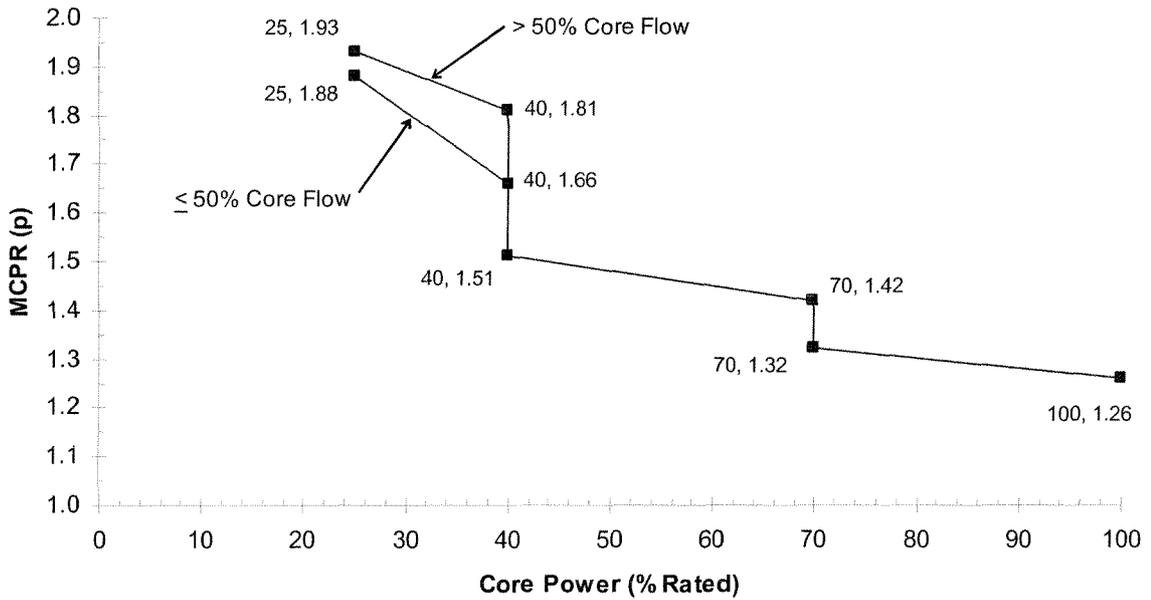


**Figure 2-2 Cycle 14 Power-Dependent MCPR Limits
BOC to MOC with EOC-RPT Inoperable**

CORE OPERATING LIMITS REPORT

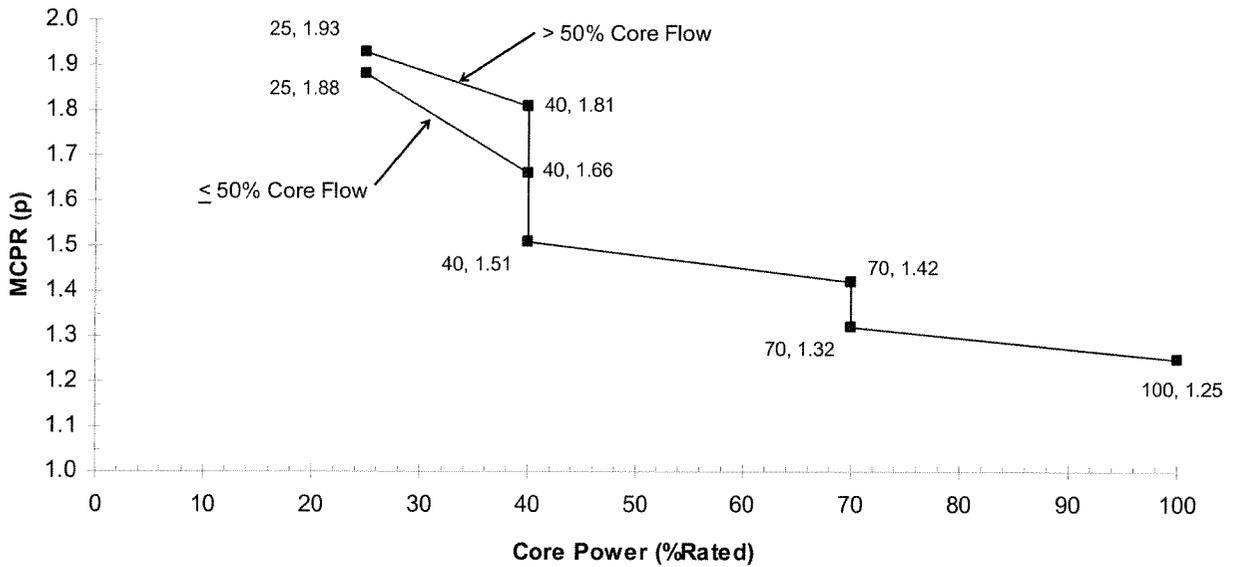


**Figure 2-3 Cycle 14 Power-Dependent MCPR Limits
MOC to EOC**

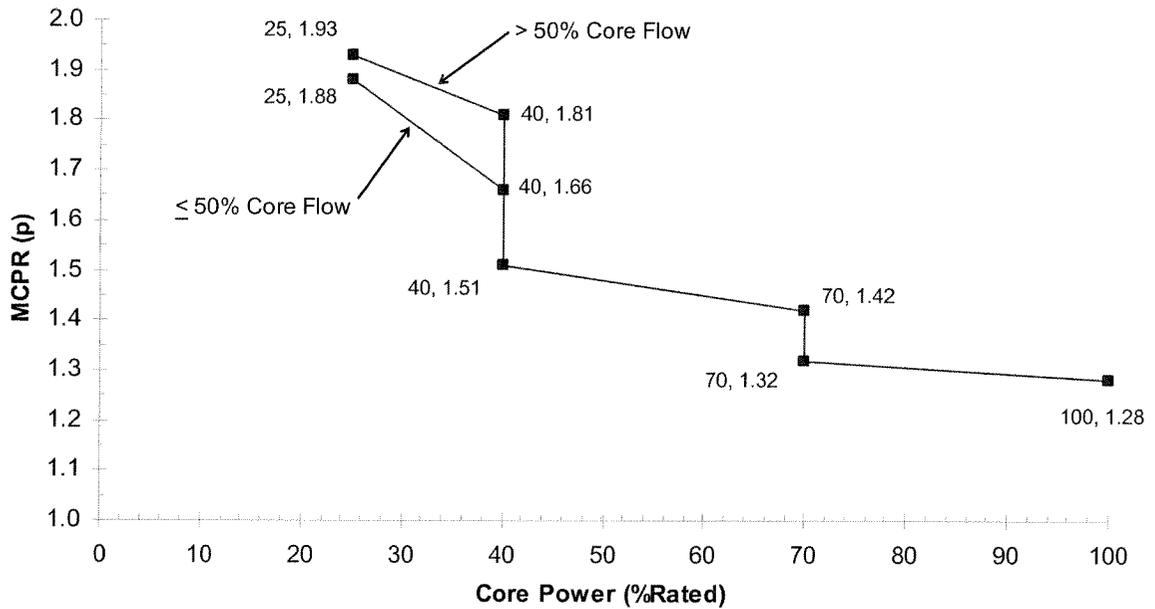


**Figure 2-4 Cycle 14 Power-Dependent MCPR Limits
MOC to EOC with EOC-RPT Inoperable**

CORE OPERATING LIMITS REPORT



**Figure 2-5 Cycle 14 Power-Dependent MCPR Limits
EOC to EEOC**



**Figure 2-6 Cycle 14 Power-Dependent MCPR Limits
EOC to EEOC with EOC-RPT Inoperable**