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W3F1-2003-0097

November 20, 2003

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Core Operating Limits Report – Cycle 13 Revision 1, Change 1
Waterford Steam Electric Station, Unit 3 (Waterford 3)
Docket No. 50-382
License No. NPF-38

Dear Sir or Madam:

Waterford 3 Technical Specification 6.9.1.11.3 requires submittal of the Core Operating Limits Report (COLR) for each reload cycle. Revision 1 of the COLR for Waterford 3 Cycle 13 was submitted on November 17, 2003, by letter W3F1-2003-0094.

The attached COLR Cycle 13 Revision 1, Change 1 revises Section 3.2.7, Axial Shape Index (ASI), to implement a 0.03 positive bias to the lower limit of the allowed ASI range (changed from -0.22 to -0.19) for $\geq 70\%$ power. This change was necessary due to the upward shift of incore instrumentation due to a modification performed in Refueling Outage 12.

If you have any questions concerning this submittal please contact P.M. Melancon at (504) 739-6614.

There are no new commitments contained in this submittal.

Sincerely,

A handwritten signature in cursive script that reads "G. Sen".

G. Sen
Licensing Manager

GS/TMM/cbh

Attachment(s)

A001

cc: Mr. Thomas P. Gwynn
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Attachment 1

W3F1-2003-0097

**Waterford 3 Core Operating Limits Report
Cycle 13, Revision 1, Change 1**

CORE OPERATING LIMITS REPORT
CYCLE 13 REVISION 1 CHANGE NO. 1 REPLACEMENT PAGE(S)
(4 pages)

Replace the following pages of the Waterford 3 Core Operating Limits Report with the attached pages. The revised pages are identified by Revision Number 1, Change Number 1 in the bottom footer and contain a vertical line indicating the areas of change.

Remove

1

2

5

3/4 2-12

Insert

1

2

5

3/4 2-12

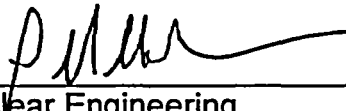
ENTERGY OPERATIONS

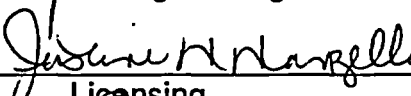
WATERFORD 3

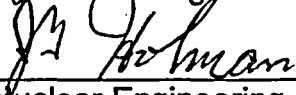
CORE OPERATING LIMITS REPORT

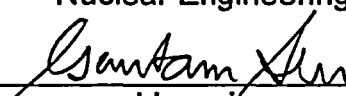
FOR CYCLE 13

REVISION 1, CHG. 1

Prepared by: P.M. Melancon  11/19/03
Nuclear Engineering

Reviewed by: J.M. Manzella  11/19/03
Licensing

Approved by: J. B. Holman  11/19/03
Nuclear Engineering

Approved by: G. Sen  11/19/03
Licensing

WATERFORD 3

CORE OPERATING LIMITS REPORT

CYCLE 13, REVISION 1, CHG. 1

<u>INDEX</u>	<u>PAGE</u>
I. INTRODUCTION	5
II. AFFECTED TECHNICAL SPECIFICATIONS	6
3.1.1.1 Shutdown Margin - Any CEA Withdrawn	COLR 3/4 1-1
3.1.1.2 Shutdown Margin - All CEAs Fully Inserted	COLR 3/4 1-3
3.1.1.3 Moderator Temperature Coefficient	COLR 3/4 1-4
3.1.2.9 Boron Dilution	COLR 3/4 1-15
3.1.3.1 Movable Control Assemblies - CEA Position	COLR 3/4 1-18
3.1.3.6 Regulating and Group P CEA Insertion Limits	COLR 3/4 1-25
3.2.1 Linear Heat Rate	COLR 3/4 2-1
3.2.3 Azimuthal Power Tilt - T_q	COLR 3/4 2-4
3.2.4 DNBR Margin	COLR 3/4 2-6
3.2.7 Axial Shape Index	COLR 3/4 2-12
3.9.1 Boron Concentration	COLR 3/4 9-1
III. METHODOLOGIES	33

LIST OF EFFECTIVE PAGES	
Revision 0	Pages 1-6, COLR 3/4 1-1 through COLR 3/4 9-1 and Page 33
Revision 1	Pages 1-6, COLR 3/4 1-1 through COLR 3/4 9-1 and Page 33
Revision 1 Chg. 1	Pages 1, 2, 5, and COLR 3 /4 2-12

WATERFORD 3

CORE OPERATING LIMITS REPORT CYCLE 13, REVISION 1, CHG. 1

I. INTRODUCTION

This CORE OPERATING LIMITS REPORT (COLR) has been prepared in accordance with the requirements of Waterford 3 Technical Specification 6.9.1.11 for Waterford 3 Cycle 13. The core operating limits have been developed using the NRC approved methodologies specified in Section III. This is Revision 1 of the Cycle 13 COLR.

The major changes between the Cycle 13 Revision 0 COLR and the Cycle 12 COLR are listed below:

- The Table of Contents List of Effective Pages was updated.
- The List of Figures were revised to add COLR Figure 8A and to update the List of Effective Figure Pages
- This Introduction section was revised to reflect the changes for Cycle 13.
- The surveillance requirements for Section 3.1.2.9 were changed based on results of a corrective action of Condition Report CR-WF3-2003-02844.
- Clarifying notes were added below Sections 3.1.3.1.a and 3.1.3.1.b regarding the correspondence of these sections to Technical Specifications.
- The title for Section 3.1.3.6 was revised to match references in Section III and the Table of Contents
- Figures 6 & 7 were revised to provide vertical lines from the endpoints of the plotted line to the temperature axis. Also, the equation for the plotted line was added.
- Section 3.2.4.b was revised to allow use of Figure 8A
- Notes below the text of Section 3.2.4 for use with Figures 8, 8A & 9 were updated and new notes were added.
- Figure 8, was revised to incorporate cycle-specific limits for Cycle 13.
- Figure 8A, was added to provide better resolution for the three power ranges in the lower portion of Figure 8.
- Figure 9, was revised to incorporate cycle-specific limits for Cycle 13.
- Section III.7 was revised to add the document date.
- Section III.8 was added in accordance with License Amendment 191.

The changes between the Cycle 13 Revision 1 COLR and the Cycle 13 Revision 0 COLR are listed below:

- Figures 6 & 7 were revised to implement a 0.1 KW/FT reduction for the specified temperature range to account for greater than 500 but less than 600 plugged tubes in Steam Generator #1 (Ref. ER-WF3-2003-0117-000)

The change between the Cycle 13 Revision 1 COLR and the Cycle 13 Revision 1 Chg. 1 COLR is listed below:

- Section 3.2.7, Axial Shape Index, was revised to implement a 0.03 positive bias to the lower limit of the allowed ASI range (changed from -0.22 to -0.19) for $\geq 70\%$ power. This change was necessary due to the upward shift of incore instrumentation due to a modification performed in Refueling Outage 12 (Ref. Westinghouse Letter CWTR-03-190, dated 11/17/03).

CORE OPERATING LIMITS REPORT
AXIAL SHAPE INDEX

3.2.7 The AXIAL SHAPE INDEX (ASI) shall be maintained within the following limits:

COLSS Operable

$-0.19 \leq \text{ASI} \leq +0.26$ for THERMAL POWERS $\geq 70\%$ of RATED THERMAL POWER

$-0.26 \leq \text{ASI} \leq +0.26$ for THERMAL POWERS from 20% to 70% of RATED THERMAL POWER

COLSS Out of Service

$-0.17 \leq \text{ASI} \leq +0.22$ for THERMAL POWERS from 20% to 100% of RATED THERMAL POWER