

Chapter 4 Table of Contents

<u>Section</u>	<u>Title</u>	<u>Page</u>
Chapter 4	Reactor	4-1
4.1	Summary Description	4-1
4.2	Fuel System Design	4-1
4.2.6	COL Information	4-1
4.3	Nuclear Design	4-1
4.3.5	COL Information	4-1
4.4	Thermal and Hydraulic Design	4-1
4.5	Reactor Materials	4-1
4.6	Functional Design of Reactivity Control System	4-2
Appendix 4A	Typical Control Rod Patterns and Associated Power Distribution for ESBWR	4-2
4A.1	Introduction	4-2
4A.3	COL Information	4-2
Appendix 4B	Fuel Licensing Acceptance Criteria	4-2
Appendix 4C	Control Rod Licensing Acceptance Criteria	4-2
Appendix 4D	Stability Evaluation	4-2

Chapter 4 Reactor

4.1 Summary Description

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

4.2 Fuel System Design

This [section](#) of the referenced DCD is incorporated by reference with the following departures and/or supplements.

	Add the following paragraph after the third paragraph:
STD COL 4.2.6	There are no changes to the design of the fuel assembly or control rods from that presented in the certified design.
STD COL 4.2.6	4.2.6 COL Information This COL item is addressed in Section 4.1.
	4.3 Nuclear Design This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.
STD COL 4.3-1-A	Add the following paragraph after the first paragraph: There are no changes to the fuel or core design from that described in the referenced certified design.
STD COL 4.3-1-A	4.3.5 COL Information 4.3-1-A Variances from Certified Design This COL Item is addressed in Section 4.3.
	4.4 Thermal and Hydraulic Design This section of the referenced DCD is incorporated by reference with no departures or supplements.
	4.5 Reactor Materials This section of the referenced DCD is incorporated by reference with no departures or supplements.

4.6 Functional Design of Reactivity Control System

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

Appendix 4A Typical Control Rod Patterns and Associated Power Distribution for ESBWR

This [section](#) of the referenced DCD is incorporated by reference with the following departures and/or supplements.

4A.1 Introduction

Add the following at the end of the first paragraph.

STD COL 4A-1-A

There are no changes to the fuel or core design from that described in the referenced certified design.

4A.3 COL Information

4A-1-A Variances from Certified Design

STD COL 4A-1-A

This COL item is addressed in Appendix 4A.

Appendix 4B Fuel Licensing Acceptance Criteria

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

Appendix 4C Control Rod Licensing Acceptance Criteria

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.

Appendix 4D Stability Evaluation

This [section](#) of the referenced DCD is incorporated by reference with no departures or supplements.