CHAPTER 4

REACTOR

TABLE OF CONTENTS

Section	Title	Page
4.1	SUMMARY DESCRIPTION	4.1-1
4.2	FUEL SYSTEM DESIGN	4.2-1
4.3	NUCLEAR DESIGN	4.3-1
4.4	THERMAL AND HYDRAULIC DESIGN	4.4-1
4.4.7	COMBINED LICENSE INFORMATION	4.4-1
4.5	REACTOR MATERIALS	4.5-1
4.6	FUNCTIONAL DESIGN OF REACTIVITY CONTROL SYSTEMS	4.6-1

LIST OF TABLES

Number	Title
None	

LIST OF FIGURES

Number	Title
None	

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 no departures or supplements.

4.3 NUCLEAR DESIGN

This section of the referenced DCD is incorporated by reference with no departures or supplements.

4.4 THERMAL AND HYDRAULIC DESIGN

This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

4.4.7 COMBINED LICENSE INFORMATION

STD COL 4.4-2 Replace the second paragraph in DCD Subsection 4.4.7 with the following:

Following selection of the actual plant operating instrumentation and calculation of the instrumentation uncertainties of the operating plant parameters as discussed in DCD Subsection 7.1.6, the design limit DNBR values will be calculated. The calculations will be completed using the RTDP with these instrumentation uncertainties and confirm that either the design limit DNBR values as described in DCD Section 4.4 remain valid or that the safety analysis minimum DNBR bounds the new design limit DNBR values plus DNBR penalties, such as rod bow penalty. This will be completed prior to fuel load.

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 SYSTEMS

This section of the referenced DCD is incorporated by reference with no departures or supplements.