

CHAPTER 7
INSTRUMENTATION AND CONTROLS

TABLE OF CONTENTS

| <u>Section</u> | <u>Title</u> | <u>Page</u> |
|----------------|--|-------------|
| 7.1 | INTRODUCTION | 7.1-1 |
| 7.1.6.1 | Setpoint Calculations for Protective Functions | 7.1-1 |
| 7.2 | REACTOR TRIP | 7.2-1 |
| 7.3 | ENGINEERED SAFETY FEATURES..... | 7.3-1 |
| 7.4 | SYSTEMS REQUIRED FOR SAFE SHUTDOWN | 7.4-1 |
| 7.5 | SAFETY-RELATED DISPLAY INFORMATION | 7.5-1 |
| 7.5.2 | VARIABLE CLASSIFICATIONS AND REQUIREMENTS..... | 7.5-1 |
| 7.5.3.5 | Type E Variables | 7.5-1 |
| 7.5.5 | COMBINED LICENSE INFORMATION..... | 7.5-1 |
| 7.6 | INTERLOCK SYSTEMS IMPORTANT TO SAFETY..... | 7.6-1 |
| 7.7 | CONTROL AND INSTRUMENTATION SYSTEMS..... | 7.7-1 |

LIST OF TABLES

| <u>Number</u> | <u>Title</u> |
|---------------|----------------------------------|
| 7.5-201 | Post-Accident Monitoring Systems |
| 7.5-202 | Deleted |

CHAPTER 7**INSTRUMENTATION AND CONTROLS****7.1 INTRODUCTION**

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

7.1.6.1 Setpoint Calculations for Protective Functions

STD COL 7.1-1 The Setpoint Program described in Technical Specifications Section 5.5 provides the appropriate controls for update of the instrumentation setpoints following completion of the calculation of setpoints for protective functions and the reconciliation of the setpoints against the final design.

7.2 REACTOR TRIP

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

7.3 ENGINEERED SAFETY FEATURES

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

7.4 SYSTEMS REQUIRED FOR SAFE SHUTDOWN

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

7.5 SAFETY-RELATED DISPLAY INFORMATION

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

7.5.2 VARIABLE CLASSIFICATIONS AND REQUIREMENTS

Add the following paragraph at the end of DCD Subsection 7.5.2.

STD COL 7.5-1 FSAR **Table 7.5-201** supplements **DCD Table 7.5-1** and provides variable data shown in the DCD table as “site specific.”

7.5.3.5 Type E Variables

Add the following paragraph at the end of DCD Subsection 7.5.3.5.

STD COL 7.5-1 FSAR **Table 7.5-201** supplements **DCD Table 7.5-8** and provides variable data shown in the DCD table as “site specific.”

7.5.5 COMBINED LICENSE INFORMATION

STD COL 7.5-1 This COL item is addressed in **Subsection 7.5.2** and **Table 7.5-201**, and in
WLS COL 7.5-1 **Subsection 7.5.3.5**.

WLS COL 7.5-1

TABLE 7.5-201
POST-ACCIDENT MONITORING SYSTEMS^(a)

| Variable | Range/ Status | Number of Instruments Required | Remarks |
|---|---|--------------------------------|---|
| Boundary environs radiation <ul style="list-style-type: none"> Airborne Radiohalogens and Particulates (portable sampling with onsite analysis capability) Radiation (portable instrumentation) Radioactivity (portable instrumentation) | 10^{-9} to 10^{-3} $\mu\text{Ci/cc}$ 10^{-3} to 10^4 R/hr, photons 10^{-3} to 10^4 rads/hr, beta radiations and low energy photons Isotopic Analysis | NA | Conforms to RG 1.97 ^(b) |
| Meteorological parameters <ul style="list-style-type: none"> Wind Speed Wind Direction Differential Temperature | See Remarks | NA | Conforms to RG 1.97 ^(b) and RG 1.23; see FSAR Subsection 2.3.3 and Table 2.3-281 |

a) This table supplements **DCD Tables 7.5-1** and **7.5-8** and provides the site specific information noted in the "Remarks" column of **DCD Table 7.5-1** and in the "Variable" column of **DCD Table 7.5-8**.

b) Conformance to Regulatory Guide 1.97 is described in **Appendix 1AA**. Variables and ranges are defined consistent with Regulatory Guide 1.97, Revision 3.

TABLE 7.5-202
Deleted

7.6 INTERLOCK SYSTEMS IMPORTANT TO SAFETY

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

7.7 CONTROL AND INSTRUMENTATION SYSTEMS

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