CHAPTER 7

INSTRUMENTATION AND CONTROLS

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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 7.5-202 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
HAR COL 7.5-1

This COL item is addressed in Subsection 7.5.2 and Table 7.5-201, and in Subsection 7.5.3.5 and Table 7.5-202.

HAR COL 7.5-1

Table 7.5-201
Post-Accident Monitoring System[a]

Variable	Range / Status	Type/ Category	Qualification		Number of Instruments Required	Power Supply	QDPS Indication	Remarks
			Environmental	Seismic				
Boundary environs radiation								
• Airborne Radiohalogens and Particulates (Portable sampling with onsite analysis capability)	10^{-9} to 10^{-3} µCi/cc	C3, E3	None	None	N/A	Non-1E	No	taken from RG 1.97 Revision 3
• Radiation (portable instrumentation)	10^{-3} to 10^{4} R/hr, photons; 10^{-3} to 10^{4} rads/hr, beta and low-energy photons							
• Radioactivity (portable instruments)	Multichannel gamma ray spectrometer							
Meteorological parameters	See Remarks							
• Wind Speed		E3	None	None	2 (1 @ 12 m and 1 @ 61 m)	Non-1E	No	See FSAR Subsection 2.3.3 and Tables 2.3.3-201, 2.3.3-202
• Wind Direction					2 (1 @ 12 m and 1 @ 61 m)			
• Differential Temperature					2 (10 - 61 m)			

a) This Table supplements DCD Table 7.5-1 and provides the site specific information noted in remarks column of DCD Table 7.5-1.

HAR COL 7.5-1

Table 7.5-202
Summary of Type E Variables[(a)]

Function Monitored	Variable	Type/Category
Environs Radiation and Radioactivity	Plant Environs radiation levels and airborne radioactivity	E3
Meteorology	Wind speed, wind direction, and estimation of atmospheric stability (based on vertical temperature difference)	E3

a) This Table supplements DCD Table 7.5-8 and provides the site specific information noted in the variable remarks column of DCD Table 7.5-8.

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.