

**CHAPTER 7: INSTRUMENTATION AND CONTROLS
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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.

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7.2 REACTOR TRIP

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

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7.3 ENGINEERED SAFETY FEATURES

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

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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

PTN 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**.

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PTN COL 7.5-1

**Table 7.5-201
Post-Accident Monitoring System^(a)**

Variable	Range/Status ^(b)	Type/ Category	Qualification		Number of Instruments Required	Power Supply	QDPS	Remarks
			Environmental	Seismic			Indication	
Boundary environs radiation								
• Airborne Radiohalogens and Particulates (portable sampling with onsite analysis capability)	10 ⁻⁹ to 10 ⁻³ micro Ci/cc				A sufficient number of instruments and onsite analysis capability is provided to support the Emergency Planning Field Teams.	Non-1E	No	
• Radiation (portable instrumentation)	10 ⁻³ to 10 ⁴ R/hr photons and 10 ⁻³ to 10 ⁴ rads/hr beta and low-energy photons	C3,E3	None	None				
• Radioactivity (portable instrumentation)	Multichannel gamma ray spectrometer							
Meteorological parameters								
• Wind Speed	0 to 145 mph ^(c)				2 (1 @ 10 m and 1 @ 60m)			Differential temperature calculated from temperature measurements at 10 and 60 meters.
• Wind Direction	0 - 360° ^(d)	E3	None	None	2 (1 @ 10 m and 1 @ 60m)	Non-1E	No	
• Differential Temperature	-22.0° to 122.0°F ^(e)				2 (1 @ 10 m and 1 @ 60m)			

(a) This table supplements DCD Table 7.5-1 and provides the site-specific information to address the note in the remarks column of DCD Table 7.5-1.

(b) These instruments conform to Regulatory Guide 1.97, Revision 3.

(c) System accuracy ±0.15 mph.

(d) System accuracy ±2°.

(e) System accuracy ±0.27°F. (Range specified is for individual temperature instruments.)

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PTN 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 column of [DCD Table 7.5-8](#).

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7.6 INTERLOCK SYSTEMS IMPORTANT TO SAFETY

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

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7.7 CONTROL AND INSTRUMENTATION SYSTEMS

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