

**Levy Nuclear Plant Units 1 and 2  
COL Application  
Part 2, Final Safety Analysis Report**

**CHAPTER 7  
INSTRUMENTATION AND CONTROLS**

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Title

None

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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.

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**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.

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**7.5 SAFETY-RELATED DISPLAY INFORMATION**

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

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**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 <b>Table 7.5-201</b> supplements DCD <b>Table 7.5-1</b> and provides variable data shown in the DCD Table as “site-specific.”
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**7.5.3.5 Type E Variables**

Add the following paragraphs at the end of DCD **Subsection 7.5.3.5**.

STD COL 7.5-1	FSAR <b>Table 7.5-202</b> supplements DCD <b>Table 7.5-8</b> and provides variable data shown in the DCD Table as “site-specific.”
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**7.5.5 COMBINED LICENSE INFORMATION**

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STD COL 7.5-1 LNP COL 7.5-1	This COL item is addressed in <b>Subsection 7.5.2</b> and <b>Table 7.5-201</b> , and in <b>Subsection 7.5.3.5</b> and <b>Table 7.5-202</b> .
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LNP COL 7.5-1

**Table 7.5-201  
Post-Accident Monitoring System<sup>(a)</sup>**

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 $10^{-3}$ $\mu\text{Ci/cc}$	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 instrumentation)	Multichannel gamma ray spectrometer							
Meteorological parameters	See Remarks							
• Wind speed		E3	None	None	2 (1 @ 10 m and 1 @ 60 m)	Non-1E	No	See FSAR Subsection 2.3.3 and Tables 2.3.3-201, 2.3.3-202
• Wind Direction					2 (1 @ 10 m and 1 @ 60 m)			
• Differential Temperature					2 (10 – 60 m)			

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

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**Table 7.5-202  
Summary of Type E Variables<sup>(a)</sup>**

LNP COL 7.5-1

<b>Function Monitored</b>	<b>Variable</b>	<b>Type/ Category</b>
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

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- 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.