

FINAL SAFETY ANALYSIS REPORT

CHAPTER 7

INSTRUMENTATION AND CONTROLS

7.0 INSTRUMENTATION AND CONTROLS

This chapter of the U.S. EPR Final Safety Analysis Report (FSAR) is incorporated by reference with supplements as identified in the following sections with supplements as identified in the following sections. |

7.1 INTRODUCTION

This section of the U.S. EPR FSAR is incorporated by reference.

7.2 REACTOR TRIP SYSTEM

This section of the U.S. EPR FSAR is incorporated by reference.

7.3 ENGINEERED SAFETY FEATURES SYSTEMS

This section of the U.S. EPR FSAR is incorporated by reference.

7.4 SYSTEMS REQUIRED FOR SAFE SHUTDOWN

This section of the U.S. EPR FSAR is incorporated by reference.

7.5 INFORMATION SYSTEMS IMPORTANT TO SAFETY

This section of the U.S. EPR FSAR is incorporated by reference with the following supplements. |

{Table 7.5-1 of the U.S. EPR FSAR is supplemented with the following CCNPP Unit 3 site-specific Post-Accident Monitoring Variables.} |

7.5.1 Description

No departures or supplements.

7.5.2 Analysis

No departures or supplements.

7.5.2.1 Acceptance Criteria

No departures or supplements.

7.5.2.2 Discussion

No departures or supplements.

7.5.2.2.1 Conformance with Regulatory Guide 1.97 and BTP 7-10

The U.S. EPR FSAR includes the following COL Item in Section 7.5.2.2.1:

A COL applicant that references the U.S. EPR design certification will update the initial inventory list of accident monitoring variables in Table 7.5-1, with a final list upon completion of the emergency operating and abnormal operating procedures prior to fuel loading. |

This COL Item is addressed as follows:

{Calvert Cliffs 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC} shall update the initial inventory list of accident monitoring variables in U.S. EPR FSAR, Table 7.5-1, with a final list upon completion of the emergency operating and abnormal operating procedures prior to fuel loading. |

7.5.2.2.2 Use of Digital Systems

No departures or supplements.

7.5.2.2.3 Monitoring for Severe Accidents

No departures or supplements.

7.5.2.2.4 Conformance to Regulatory Guide 1.47

No departures or supplements.

7.5.2.2.5 Scope of Bypassed and Inoperable Status Indications

No departures or supplements.

7.5.2.2.6 Redundancy and Diversity of Display

No departures or supplements.

7.5.2.2.7 Independence and Compliance with IEEE Std 603-1998

No departures or supplements.

7.5.2.2.8 Self Test Provisions

No departures or supplements.

7.5.3 References

No departures or supplements.

Table 7.5-1— {Initial Inventory of Post Accident Monitoring Variables}

No.	Variable	Range	Minimum Channel Required	Duration	Safety Class	EQ per IEEE Std. 323-1974	Seismic Qualification	Type					
								A	B	C	D	E	
1	Essential Service Water System (ESWS) Cooling Tower Basin Level	9' to 26'	2	30 days	S	No	I	x					
2	Meteorological Monitoring System Wind Speed - 10 meters	0-100 mph	1	30 days	NS	No	NSC						x
3	Meteorological Monitoring System Wind Speed - 60 meters	0-100 mph	1	30 days	NS	No	NSC						x
4	Meteorological Monitoring System Wind Direction - 10 meters	0° - 360°	1	30 days	NS	No	NSC						x
5	Meteorological Monitoring System Wind Direction - 60 meters	0° - 360°	1	30 days	NS	No	NSC						x
6	Meteorological Monitoring System Vertical Temperature Difference - between 10 and 60 meters	-50°C to +50°C	1	30 days	NS	No	NSC						x

7.6 INTERLOCK SYSTEMS IMPORTANT TO SAFETY

This section of the U.S. EPR FSAR is incorporated by reference.

7.7 CONTROL SYSTEMS NOT REQUIRED FOR SAFETY

This section of the U.S. EPR FSAR is incorporated by reference.

7.8 DIVERSE I&C SYSTEMS

This section of the U.S. EPR FSAR is incorporated by reference.

7.9 DATA COMMUNICATION SYSTEMS

This section of the U.S. EPR FSAR is incorporated by reference.