Table of Contents

15.0 Transient and Accident Analysis 15–2
15.0.1 Radiological Consequence Analysis 15–2
15.0.2 Computer Codes Used in Analysis 15–2
15.0.3 Radiological Consequences of Design Basis Accidents 15–2
15.0.4 Post Chapter 15 Events Cooldown 15–2
15.0.5 Compliance with Section C.I.15, "Transient and Accident Analyses," of Regulatory Guide 1.206 15–2
15.0.6 References 15–2
15.1 Increase in Heat Removal by the Secondary System 15–2
15.2 Decrease in Heat Removal by the Secondary System 15–2
15.3 Decrease in Reactor Coolant System Flow Rate 15–2
15.4 Reactivity and Power Distribution Anomalies 15–2
15.5 Increase in Reactor Coolant Inventory 15–2
15.6 Decrease in Reactor Coolant Inventory Events 15–3
15.7 Radioactive Release from a Subsystem or Component 15–3
15.8 Anticipated Transients Without Scram 15–3
15.9 Boiling Water Reactor Stability 15–3
15.10 Spent Fuel Pool Criticality and Boron Dilution Analysis 15–3
15.10.1 References 15–3

© 2007-2008 UniStar Nuclear Services, LLC in and to the Reference COLA, namely all text not in brackets
© 2007-2008 Union Electric Company d/b/a AmerenUE in and to all Callaway site specific and
AmerenUE specific COLA material, namely all text in brackets.
All rights reserved. COPYRIGHT PROTECTED

15.0 TRANSIENT AND ACCIDENT ANALYSIS

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

15.0.1 RADIOLOGICAL CONSEQUENCE ANALYSIS

No departures or supplements.

15.0.2 COMPUTER CODES USED IN ANALYSIS

No departures or supplements.

15.0.3 RADIOLOGICAL CONSEQUENCES OF DESIGN BASIS ACCIDENTS

{No departures or supplements.}

15.0.4 POST CHAPTER 15 EVENTS COOLDOWN

No departures or supplements.

15.0.5 COMPLIANCE WITH SECTION C.I.15, "TRANSIENT AND ACCIDENT ANALYSES," OF REGULATORY GUIDE 1.206

No departures or supplements.

15.0.6 REFERENCES

No departures or supplements.

15.1 INCREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM

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

15.2 DECREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM

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

15.3 DECREASE IN REACTOR COOLANT SYSTEM FLOW RATE

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

15.4 REACTIVITY AND POWER DISTRIBUTION ANOMALIES

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

15.5 INCREASE IN REACTOR COOLANT INVENTORY

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

© 2007-2008 UniStar Nuclear Services, LLC in and to the Reference COLA, namely all text not in brackets
© 2007-2008 Union Electric Company d/b/a AmerenUE in and to all Callaway site specific and
AmerenUE specific COLA material, namely all text in brackets.
All rights reserved. COPYRIGHT PROTECTED

15.6 DECREASE IN REACTOR COOLANT INVENTORY EVENTS

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

15.7 RADIOACTIVE RELEASE FROM A SUBSYSTEM OR COMPONENT

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

15.8 ANTICIPATED TRANSIENTS WITHOUT SCRAM

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

15.9 BOILING WATER REACTOR STABILITY

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

15.10 SPENT FUEL POOL CRITICALITY AND BORON DILUTION ANALYSIS

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

The spent fuel pool criticality analysis will be incorporated into a future revision to the U.S. EPR FSAR which will incorporate additional analyses to bound the site-specific conditions at {Callaway Plant Unit 2}

15.10.1 REFERENCES

{No departures or supplements}

© 2007-2008 UniStar Nuclear Services, LLC in and to the Reference COLA, namely all text not in brackets
© 2007-2008 Union Electric Company d/b/a AmerenUE in and to all Callaway site specific and
AmerenUE specific COLA material, namely all text in brackets.
All rights reserved. COPYRIGHT PROTECTED