

Table of Contents

11.0 Radioactive Waste Management 11-2

11.1 Source Terms 11-2

11.2 Liquid Waste Management System 11-2

11.3 Gaseous Waste Management Systems 11-2

11.4 Solid Waste Management Systems 11-2

 11.4.1 Design Basis 11-2

 11.4.2 System Description 11-2

 11.4.3 Radioactive Effluent Releases 11-2

 11.4.4 Solid Waste Management System Cost-Benefit Analysis 11-2

 11.4.5 Failure Tolerance 11-3

 11.4.6 References 11-3

11.5 Process and Effluent Radiological Monitoring and Sampling Systems 11-3

 11.5.1 Design Basis 11-3

 11.5.2 System Description 11-3

 11.5.3 Effluent Monitoring and Sampling 11-3

 11.5.4 Process Monitoring and Sampling 11-3

 11.5.5 References 11-3

11.0 RADIOACTIVE WASTE MANAGEMENT

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

11.1 SOURCE TERMS

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

11.2 LIQUID WASTE MANAGEMENT SYSTEM

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

11.3 GASEOUS WASTE MANAGEMENT SYSTEMS

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

11.4 SOLID WASTE MANAGEMENT SYSTEMS

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

11.4.1 DESIGN BASIS

No departures or supplements.

11.4.2 SYSTEM DESCRIPTION

No departures or supplements.

11.4.3 RADIOACTIVE EFFLUENT RELEASES

The U.S. EPR FSAR includes the following COL Item in Section 11.4.3:

A COL applicant that references the U.S. EPR will fully describe, at the functional level, elements of the Process Control Program (PCP). This program description will identify the administrative and operational controls for waste processing process parameters and surveillance requirements which demonstrate that the final waste products meet the requirements of applicable federal, state, and disposal site waste form requirements for burial at a 10 CFR Part 61 licensed low level waste (LLW) disposal site and will be in accordance with the guidance provided in RG 1.21, NUREG-0800, BTP 11-3, ANSI/ANS-55.1-1992 and Generic Letters 80-09, 81-38, and 81-39.

This COL item is addressed as follows:

NEI 07-10, "Generic FSAR Template Guidance for Process Control Program (PCP) Description," (NEI, 2008a) is under review by the NRC. {Callaway Plant Unit 2} will adopt the revision of NEI 07-10 that is approved by the NRC. The milestone for development and implementation of the PCP is addressed in [Table 13.4-1](#).

11.4.4 SOLID WASTE MANAGEMENT SYSTEM COST-BENEFIT ANALYSIS

No departures or supplements.

11.4.5 FAILURE TOLERANCE

No departures or supplements.

11.4.6 REFERENCES

No departures or supplements.

11.5 PROCESS AND EFFLUENT RADIOLOGICAL MONITORING AND SAMPLING SYSTEMS

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

11.5.1 DESIGN BASIS

No departures or supplements.

11.5.2 SYSTEM DESCRIPTION

The U.S. EPR FSAR includes the following COL Item in Section 11.5.2:

A COL applicant that references the U.S. EPR will fully describe, at the functional level, elements of the process and effluent monitoring and sampling programs required by 10 CFR Part 50, Appendix I and 10 CFR 52.79(a)(16). This program description, Offsite Dose Calculation Manual (ODCM), will specify how a licensee controls, monitors, and performs radiological evaluations of releases. The program will also document and report radiological effluents discharged to the environment.

This COL Item is addressed as follows:

NEI 07-09, "Generic FSAR Template Guidance for Offsite Dose Calculation Manual (ODCM) Program Description," (NEI, 2008b) is under review by the NRC. {Callaway Plant Unit 2} will adopt the revision of NEI 07-09 that is approved by the NRC. The milestone for development and implementation of the ODCM is addressed in [Table 13.4-1](#).

11.5.3 EFFLUENT MONITORING AND SAMPLING

No departures or supplements.

11.5.4 PROCESS MONITORING AND SAMPLING

No departures or supplements.

11.5.5 REFERENCES

{**CFR, 2008a.** Domestic Licensing of Production and Utilization Facilities, Title 10, Code of Federal Regulations, Part 50, U.S. Nuclear Regulatory Commission, 2008.

CFR, 2008b. Contents of Applications; Technical Information in Final Safety Analysis Report, Title 10, Code of Federal Regulations, Part 52.79, U.S. Nuclear Regulatory Commission, 2008.

NEI, 2008a. NEI 07-10, "Generic FSAR Template Guidance for Process Control Program (PCP) Description," Revision 3, Nuclear Energy Institute, May 2008.

NEI, 2008b. NEI 07-09, "Generic FSAR Template Guidance for Offsite Dose Calculation Manual (ODCM) Program Description," Revision 3, Nuclear Energy Institute, May 2008.}