

## Table of Contents

Executive Summary .....	1
The Challenge .....	3
Projected Scope, Schedule, and Cost .....	6
Meeting Programmatic Challenges .....	8
A Management System to Support the EM Program .....	10
Stakeholder, Regulator, and Tribal Nation Involvement.....	11
1. Introduction .....	13
1.1 Overview of <i>Paths to Closure</i> .....	16
1.2 Background of the Environmental Management Program and Mission .....	19
1.2.1 What is the Environmental Management Program? .....	19
1.2.2 Historical Management: From the Cold War to Environmental Cleanup ....	20
1.3 Safety and Health and Regulatory Compliance .....	21
1.3.1 Safety and Health .....	21
1.3.2 Regulatory Compliance .....	22
2. Baseline Scope, Schedule, and Cost .....	25
2.1 The Development of Site Baselines .....	27
2.2 Operations/Field Office Estimates of Cost and Closure .....	29
2.3 Details of Life-Cycle Costs .....	31
2.3.1 Cost by Category of the Environmental Management Work Scope .....	31
2.3.2 Other Scope and Costs .....	33
2.3.3 Cost by Category of Project Completion Date .....	35
2.4 Completion Schedule for the Environmental Management Program .....	36
2.5 Maintaining Schedules .....	38
2.6 Comparison with Estimates in the Discussion Draft .....	40

3.	Environmental Management Cleanup Strategy Summaries .....	43
3.1	Rocky Flats Field Office Summary .....	48
3.1.1	End State .....	48
3.1.2	Cost and Completion Dates .....	49
3.1.3	Work Scope Summary.....	52
3.1.4	Critical Closure Path and Programmatic Risk .....	55
3.2	Richland Operations Office Summary .....	60
3.2.1	End State .....	60
3.2.2	Cost And Completion Dates .....	62
3.2.3	Work Scope Summary.....	66
3.2.4	Critical Closure Path and Programmatic Risk .....	68
3.3	Savannah River Operations Office Summary .....	74
3.3.1	End State .....	74
3.3.2	Cost And Completion Dates .....	75
3.3.3	Work Scope Summary.....	75
3.3.4	Critical Closure Path and Programmatic Risk .....	83
4.	Meeting Programmatic Challenges .....	91
4.1	Relationship Between Baselines and Assumed Funding Levels .....	93
4.2	Reducing Costs and Maintaining Schedules .....	96
4.2.1	Enhanced Performance Mechanisms .....	98
4.2.2	Implementing Enhanced Performance .....	103
4.2.3	Requesting Additional Funds .....	105
4.2.4	Meeting Immediate Health and Safety Needs .....	105
4.2.5	Addressing Small, Projected Funding Differences .....	106
4.2.6	Addressing Larger Funding Differences in the Future .....	106
5.	A Management System to Support the Environmental Management Program .....	107
5.1	Baseline Management .....	110
5.1.1	Integrated Site Baselines .....	110

5.1.2	Baseline Validation and Change Control .....	111
5.2	Program Management Tools .....	112
5.2.1	Project Baseline Summaries .....	112
5.2.2	Waste and Material Disposition Maps .....	113
5.2.3	Critical Closure Paths .....	113
5.2.4	Programmatic Risk Assessments .....	113
5.3	Performance Measurement .....	114
5.4	Budget Formulation .....	115
5.5	Management Initiatives .....	115
5.5.1	Clarifying Management Responsibilities .....	116
5.5.2	Establishing Management Commitments .....	116
5.5.3	Improving Contract Management .....	116
5.6	Program Evaluation .....	117
6.	Stakeholder, Regulator, and Tribal Nation Involvement .....	119
6.1	Overview .....	121
6.2	Data Quality .....	123
6.3	End States and Long-Term Stewardship .....	123
6.4	Groundwater Contamination .....	125
6.5	Public Participation .....	126
6.6	Other Concerns of Stakeholders and Tribal Nations .....	127
6.7	The Public Comment Process .....	128
	Appendix A .....	A-1
	Appendix B .....	B-1
	Appendix C .....	C-1
	Appendix D .....	D-1
	Appendix E .....	E-1
	Albuquerque Operations Office .....	E-6

Carlsbad Area Office .....	E-23
Chicago Operations Office .....	E-28
Idaho Operations Office .....	E-40
Nevada Operations Office .....	E-54
Oak Ridge Operations Office .....	E-65
Oakland Operations Office .....	E-81
Ohio Field Office.....	E-95
Appendix F .....	F-1
Appendix G .....	G-1