

Contents

List of Figures	ix
List of Tables	xi
Acronyms and Abbreviations	xiii
Sampling Location Information	xvii
Chapter 1 Introduction	1
Mission	1
Site Location, Demographics, and Environment	1
Primary Site Activities	1
Chapter 2 Environmental Compliance	5
Compliance Activities	5
Environmental Release Response and Reporting	16
Assessments/Inspections	17
Environmental Training	18
Site Decommissioning and Demolition	18
Environmental Permits	18
Chapter 3 Effluent Monitoring	21
Radiological Monitoring	21
Nonradiological Monitoring	24
Chapter 4 Environmental Surveillance	29
Radiological Surveillance	29
Nonradiological Surveillance	37
Chapter 5 Potential Radiation Doses	39
Calculating Dose	39
Dose Calculation Results	40

Chapter 6 Groundwater	51
Groundwater at SRS	51
Groundwater Protection Program at SRS	53
Groundwater Monitoring Results	57
Chapter 7 Quality Assurance	61
QA for EMA Laboratories	61
QA for Subcontracted Laboratories/EMA Laboratories	62
Appendix A Applicable Guidelines, Standards, and Regulations	67
Air Effluent Discharges	67
(Process) Liquid Effluent Discharges	69
Site Streams	70
Savannah River	70
Drinking Water	71
Groundwater	71
Potential Dose	72
Environmental Management	73
Quality Assurance/Quality Control	74
Reporting	74
ISO 14001 Environmental Management System	76
Appendix B Radionuclide and Chemical Nomenclature	79
Glossary	83
References	93