

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Savannah River**

Site Summary Level: **Savannah River Site**

Project **SR-ER06 / Upper Three Runs Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0056**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Purpose/Scope

The Upper Three Runs Watershed Project is one of six geographical divisions of SRS established with the purpose of implementing the Federal Facility Agreement (FFA). The Upper Three Runs Watershed Project contains five primary SRS operational areas, in part or in whole: A/M Area, B-Area, E-Area, F-Area, and H-Area. The A/M Area houses SRSs main administrative functions and manufacturing area. Contamination (primarily volatile organic compounds (VOC), heavy metals, and radionuclides) sources were from the production of fuel and target assemblies and research and developments operations. In the general location of B-Area is found several long abandoned debris disposal sites, one closed non-radioactive disposal facility, and one active sanitary landfill. The principal contaminants are VOCs found in the groundwater in the vicinity of the closed and active landfills. E-Area consists of several adjacent facilities that are current or former disposal sites for hazardous and radioactive waste and spent solvents generated from plant processes. F- and H-Areas are part of the general separations operations where plutonium was separated for irradiated assemblies for refinement into metal buttons. H-Area was also used to process tritium and uranium and to produce plutonium-238. Major contaminants for the sites in this area are strontium, cesium, cobalt, tritium, heavy metals, and VOCs.

Definition of Scope: Remediation of the Upper Three Runs and Operations Project will consist of the following:

- preliminary evaluation of known suspect areas to determine if action is necessary,
- investigation and analysis of the identified waste units and any suspect areas identified through preliminary evaluations to determine further investigation and possible required remediation,
- implementation of remediation technologies to mitigate the impact of contaminants of concern on human health and the environment, and
- post action monitoring to ensure that the implemented technology was effective.

Remediation of the Upper Three Runs Watershed Project in accordance with RCRA and CERCLA will decrease human and environmental risks to acceptable levels. The Upper Three Runs Watershed Project will require remediation of:

- primary source material,
- affected soils,
- affected surface water pathways, and
- affected groundwater.

Technical Approach

The technical approach to the preliminary evaluations and investigations will consist of sampling soil, surface water, and groundwater to determine the nature, extent, and mobility of the contaminants associated with the waste units. Once the sampling has been completed, analysis of the data will be performed to evaluate the current and future impacts to human health and the environment due to the waste unit. This information will be used to screen remediation technologies to identify the most effective remedy. The remedy will then be implemented and post action monitoring initiated to ensure that it is effective. The types of remedies anticipated to be used or currently in use on the Upper Three Runs Watershed Project are

- capping (using either natural or synthetic materials),

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- removal and proper disposal of contaminated soil and sediments,
- operation of air strippers (both in situ and ex situ) for removal or destruction of VOCs from the vadose zone and groundwater,
- employment of bioremediation for the destruction of VOCs, or
- employment of oxydation for the in situ destruction of dense non-aqueous phase liquids (DNAPL).

In addition to these standard technologies, the Environmental Restoration Division is aggressively pursuing innovative technologies that will either enhance the effectiveness of the remedy or minimize the cost. These technologies to be deployed in this project are the following DNAPL characterization and remediation methods

- Alcohol micro injection/extraction
- Partitioning gas trace
- Laser induced fluorescence
- Rapid hydrophobic sampling
- Spectral gamma probe radon
- 2-D and 3-D analysis
- Fenton process effect
- Hydrophobic membrane
- Fluorescence
- Precision injection/extraction

Additional technologies to be deployed are

- Phytoremediation to attenuate VOC's at shallow subsurface depths at the A/M Area groundwater plume and SCAPS logistics
- CPT well installation
- Well-head analyzer methods as alternate sample collection and well installation technologies that eliminate or significantly reduce aqueous or non-aqueous Investigative Derived Waste (IDW)

The following technology needs have been identified for this PBS:

1. Innovative alternative in-situ technologies to replace pump and treat for radionuclides, metals, and/or VOC contaminants.
2. Long term closure cover system for a humid climate.
3. Additional alternate sample collection and well installation technologies that eliminate or significantly reduce aqueous or non-aqueous Investigative Derived Waste (IDW).

Project Status in FY 2006:

"Just in time" compliance is depicted in "Planning Case." ("Just in time" is defined as adherence to compliance direction in a manner that is "Just in time" to meet regulatory deliverables and avoid fines and penalties.) Certain projects are unfunded at target level of funding and will cause enforceable milestones to be missed therefore attract fines and delay project completion.

Due to insufficient funding at the target level, the following projects are unfunded

- 1202 A-Area IHMU 731-6A

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- 1205 F-Area IHMU
- 1407 MCB/Metals IHMU
- 1411 Georgia Fields
- 1901 Non-Radioactive Disposal Facility Groundwater

The majority of the A&M surface and surface release sites will be remediated by FY06 with major groundwater plumes associated with A&M surface release sites being in active remediation. F-Area IHMU if unfunded, surveillance and maintenance will not be performed. Stormwater Outfall A-002 and A-024 and Outfall Drainage Ditch X-001 will complete characterization and assessment by FY06.

Post-2006 Project Scope:

"Just in time" compliance is depicted in "Planning Case." Certain portions of projects (A-Area Isolated Hazardous Material Unit 731-6A and 2A, Misc. Chemical Basin/Metal Isolated Hazardous Material Unit and Georgia Fields) are unfunded at target level of funding and could impact completion.

SRL 904-A Process Trench, Stormwater Outfall A-002 and A-024, and Outfall Drainage Ditch X-001 will complete remediation by FY09. Inactive Clay Process Sewers to Tims Branch (313-M & 320-M), 211-FB Pu-239 Release, A-Area and H-Area Coal Pile Runoff Basins will complete remedial actions by FY13. Steed Pond and Low Level Rad. Waste Disposal Facility (Cap A-D) will complete in FY15. Post-closure activities such as maintenance and monitoring will continue.

Project End State

The Upper Three Runs Watershed Project will meet the EM site end state after the completion of the remediation and monitoring described in the technical approach. After remediation has been completed, the sites will be subject to periodic five-year reviews of the ROD. Portions of the project where institutional controls were implemented will continue to require oversight until the property is transferred with appropriate deed restrictions.

Cost Baseline Comments:

- "Just In Time" compliance is depicted in "Planning Case."
- Target Funding for FY01 is insufficient for current regulatory requirements.
- Certain projects are unfunded at target level of funding and could impact completion.
- The Cost Baseline reflects fully utilized target funding in outyears (FY02 - FY06) for existing and anticipated regulatory requirements.
- Budget for regulatory driven Low Level Waste disposal will be included in Solid Waste Division's Program Baseline Summaries (PBS).

The following projects have been identified as compliance work in FY00, however, they are unfunded at the current target level.

- 1202 A-Area IHMU 731-6A (FY01= \$470,080)
- 1205 F-Area IHMU (FY01= \$65,493)
- 1407 MCB/Metals IHMU (FY01= \$1,234,021)
- 1411 Georgia Fields (FY01= \$345,586)
- 1901 Non-Radioactive Disposal Facility Groundwater (FY01= \$1,580,812)

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, , NOTE: Cost includes ESS, Site Overhead, & Additional Surcharges

Safety & Health Hazards:

The criteria for determining the radiological hazard categories are provided in DOE-STD-1027-92 and the criteria for determining the chemical hazard categorization are provided in WSRC-MS-92-206. Chemical inventory is controlled in accordance with RDP 14.1, Chemical Management Program and Chemicals and Nonradioactive Hazardous Materials Control (U), DPSOL 105-1845-K.

Safety & Health Work Performance:

Activities and checkpoints are described by the Integrated Management System Description. The conditions and requirements are clearly established and agreed upon prior to the start of any project, and those requirements are contractually binding upon WSRC. The key elements of the WSRC Integrated Safety Program are to define the scope of work, identify and analyze hazards associated with the work, develop and implement hazard controls, perform work within controls, provide feedback on adequacy of controls, and continue to improve safety management. The WSRC Integrated Procedures Management System (IPMS) is the primary mechanism for implementing the objective, principles and functions of the Safety Management System. This system establishes company-level, division-level, and program-specific procedures consistent with organizational roles and ensures a consistent, discipline site wide approach to safety while performing work. The resource description, costs, and skill mix are defined in the following Sections: Costs D.2.2, Costs D.3, FTEs D.2.5, and FTEs D.2.7 of the IPMS.

PBS Comments:

The remediation of the Upper Three Runs Watershed Project is monitored very closely by both EPA Region IV and SCDHEC through the implementation of the FFA. If progress in this watershed is not made in accordance with the FFA, RCRA permits, and settlement agreements then DOE could be subject to fines and penalties from both regulatory agencies. In addition, portions of the Upper Three Runs Watershed Project have been identified as areas that could be developed for industrial purposes in the future. This future industrial use of the site could be impeded if remediation of the watershed is not conducted as planned.

Baseline Validation Narrative:

ERD's Baseline Validation History

The Environmental Restoration (ER) Department was established in 1990 with the mission to clean up (remediate) the environmental damage incurred during past operations. Although the scope of cleanup was not clearly defined at that time, DOE, through its contractors, initially identified 420 waste units. In 1992, the ER Department defined and bounded this scope of work via the Federal Facilities Agreement (FFA), a legally binding agreement between the Department of Energy (DOE), the U.S. Environmental Protection Agency, and the State of South Carolina. However, ER and DOE management realized the need to continue refining the scope defined in the FFA. A tool to manage the work in terms of scope, schedule, and cost was also needed. This realization led to the development of Baseline 93 (BL93).

To accomplish the scope of work found in the approved FFA, the ER Department realized that the scope of work had to be more clearly defined. BL 93 was organized by scope, schedule, and cost in accordance with the EM-40 "Project Management Notebook".

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The first baseline was prepared using the "Balanced Program Strategy". This strategy considered the needs and requirements of worker and public health and safety, environmental concerns (risk), regulatory compliance and funding considerations. A mixture of high-, medium-, and low-risk waste units was scheduled at the same time. This balanced approach would later be changed to schedule the higher-risk units prior to lower-risk units.

The cost estimates in this baseline were in FY93 dollars. Escalation (to accommodate rising costs) was applied beginning in FY95. Neither contingency nor management reserve were built in to the cost estimate at this time. The baseline time frame extended only to FY99 per DOE direction and did not account for the full Life Cycle Cost. In early 1994, an Independent Cost Estimating (ICE) team reviewed BL93 and verified the building blocks used in development of BL93 were accurate.

Baseline 93 Highlights

- The parametric model template was developed for the SRS from a baselining model used at DOE Hanford. DOE approved this model.
- This first ER baseline used parametric modeling to estimate the cost of a project.
- The baseline reflected target values through FY99.
- The scope of work encompassed 420 waste units identified in the FFA, including the RCRA scope of work.
- Schedules were developed using legal drivers (i.e., settlement agreements, FFA and court orders).
- BL93 was endorsed by Savannah River Operations Office and EM-42 as a quality document.
- BL93 included data for FY93 to FY99 only per DOE direction.
- BL93 with the ICE comments included was utilized to request future funding.

In FY94, Congress required that DOE provide a Baseline Environmental Management Report (BEMR) with annual updates.

The ER Department used this request as an opportunity to update the FY93 baseline. This report used the Life Cycle Cost Estimate (LCCE) for the first time. The LCCEs were not fully complete at the first request of the BEMR so parametric modeling in conjunction with LCCEs were used to develop the cost estimates for BEMR 94. Using legal drivers, BEMR 94 schedules indicated the life cycle of the ER program (including surveillance and monitoring) would extend to FY2045.

This was the first SRS ER baseline that included a full life cycle cost schedule for FFA Appendix C waste units. An estimated cost, for assessment only, was applied to FFA Appendix G waste units that had not been characterized or estimated in BL93. The estimates to cleanup Appendix G waste units were not included to capture the total cost of the ER program because there was not enough information to make an educated guess.

In the absence of a formal future land use designation, BEMR 94 assumed a base case that closely followed industrial criteria for remediation of waste units. All budgets were in constant FY95 dollars. No contingency or escalation was applied.

BEMR 94 Highlights

- Estimates were taken from a combination of modeled LCCEs and parametric estimates.
- Schedules were developed from legal drivers (FFA). The end date for all ER activity was estimated to be FY2045.
- The number of waste units could increase due to new discoveries.
- An estimate was included to cover the assessment of Appendix G waste units; no remediation costs were included.

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BEMR 96 was the next update required by congress. In this update, technology approaches that would lead to productivity improvements were assumed. Remediation of FFA Appendix G waste units were now included and was the major contributor to the increase in cost from BEMR 94 to BEMR 96. These costs were developed using a model that assumed past experience that would continue for future site evaluation activities and cost. It was also assumed that 25% of the waste units in the Site Evaluation (SE) Program would be classified as high-risk sites and move into the base program. This assumption later proved to be incorrect.

BEMR 96 Highlights

- Estimates were taken from modeled LCCEs.
- Schedules were developed from legal drivers (FFA).
- With new waste unit discoveries, in addition to the split of existing waste units for tracking purposes, the scope of work was increased to 478 waste units.

Changing technologies and assumptions in land use demonstrated a need to further define the ERD scope of work, schedule, and cost. In April of 1996, ER issued the most inclusive baseline to date. The assumptions were clearly documented, with contingency derived from risk analysis and escalation applied in a logical manner (not straight-lined).

- BL96 used the information taken from LCCEs. These estimates were activity-based estimates with specific resources identified and applied to work scope.
- Schedules were then developed by applying regulatory drivers (i.e., FFA, primary agreements, other agreements and drivers).
- After further evaluation, some waste units were combined, dropping the population of waste units to 467.
- Although BEMR 96 included order of magnitude costs for remediation of waste units in Appendix G, they were not included in BL96. BL96 did not include any planning estimates.
- Schedules used the same regulatory drivers as BEMR 96.

In order to validate BL96, an ICE review was conducted.

The ICE team comments centered on the LCCEs. The cost delta between BL96 and BL96 ICE is primarily attributed to changes in scheduling and costs for program support. The agreed-to ICE comments significantly reduced the cost of this scope in the outyears. This review concluded with preparation of a baseline change package addendum to BL96 in April 1997. The ICE comments were incorporated into revised LCCE beginning in FY97.

A primary objective of the Ten Year Plan was to cleanup as many waste units as possible within ten years. The ER Program planned to complete remediation of the majority of high- and medium- risk waste units within ten years assuming regulatory flexibility with rescheduling of work and that funding would be available to support the work.

The concept of organizing work scope into areas (PBS) was first introduced in the Ten Year Plan. The SRS ER Program chose to utilize the natural occurrence of watersheds (areas) to summarize the projects. This PBS is a product of this WBS change.

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Ten Year Plan Highlights

- Basis for the existing WBS configuration.
- Most high-risk units in cleanup by FY2006.
- 25% of Appendix G units were assumed to require further assessment and remediation.
- Scope of work was 467 sites.

The "Accelerating Cleanup: Paths to Closure" report was built on the concepts of the Ten Year Plan. Expanding on the area format, data requirements were further refined to produce an integrated management strategy for Environmental Restoration efforts across the DOE Complex. The ER program at SRS was also streamlining the regulatory process to accelerate remediation. One streamlining concept, the Plug-in Record of Decision (ROD) was also introduced. The Plug-in ROD is designed to reduce the time from characterization to actual remediation for sites with similar contamination where the same remediation technology is applied. Work scope was also re-evaluated to achieve maximum remediation results and cost reductions. Included in this update was the addition of the Integrator Operable Units (IOUs) that extended the schedule for cleanup after all the waste units in that area had been remediated.

Accelerated Cleanup: Paths to Closure Highlights

- Approved LCCEs were used to develop ACP Cost.
- Schedules were based on a new FFA, which reflected the cleanup of high-risk waste units first, followed by sites of lower risk.
- Scope of work was 477 waste units.

During FY97 and FY98, LCCEs were updated yearly to include the latest technologies used to clean up the waste units, which greatly increased the productivity of the ERD Program.

Incorporation of technological advances resulted in increased savings from BL96 though the scope increased since BL96, due to site evaluation units moving into the base program.

During FY98, ER's Technical baseline was reviewed by TetraTech EM, Inc. and in November 1998 validated with minimal recommendations. These recommendations are under review and are being incorporated in future revisions to the LCCEs.

Current Baseline Estimate Highlights

- Most comprehensive baseline
- Integration of Strategic Planning
- Environmental Risk Analyses and Assignment of waste units.
- Business Risk Analyses
- Baseline developed by consensus building by ERD, DOE, Regulators and the Public
- LCCEs reviewed and approved by DOE
- FFA is primary driver of program
- Changes from BL96 to current estimates reconciled
- Recognition of new technologies

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- Again, some waste units were split apart and newly discovered, increasing the ER program scope to 477 waste units.
- The ER program completion date moved from FY2045 to FY2038.

During the last six years, ERD has undergone significant improvement in defining work scope and estimating the cost to complete this scope. LCCEs and schedules have evolved to definitive documents that will more accurately measure future changes in scope, schedule, and cost. A configuration control process is used to manage this baseline.

General PBS Information

Project Validated? Yes **Date Validated:** 10/3/1996
Has Headquarters reviewed and approved project? No
Date Project was Added: 12/1/1997
Baseline Submission Date: 7/3/1999
FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	Y	N	Y	Y	Y

Project Identification Information

DOE Project Manager: Cynthia V. Anderson
DOE Project Manager Phone Number: 803-725-3966
DOE Project Manager Fax Number: 803-725-7548
DOE Project Manager e-mail address: cynthia-v.anderson@srs.gov
Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
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	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	215,194	398,088	613,282	22,078	22,078	22,498	22,498	20,961	29,074	20,013	16,704	21,550	21,287	15,636	25,393	
PBS Baseline (constant 1999 dollars)	198,551	266,780	465,331	22,078	22,078	22,498	22,498	20,961	28,064	18,646	15,154	19,036	18,310	13,096	20,708	
PBS EM Baseline (current year dollars)	215,194	398,088	613,282	22,078	22,078	22,498	22,498	20,961	29,074	20,013	16,704	21,550	21,287	15,636	25,393	
PBS EM Baseline (constant 1999 dollars)	198,551	266,780	465,331	22,078	22,078	22,498	22,498	20,961	28,064	18,646	15,154	19,036	18,310	13,096	20,708	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	25,885	27,695	28,213	56,604	131,543	91,607	33,531	1,644	1,366	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	20,554	21,414	21,241	41,495	89,087	54,303	17,398	745	543	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	25,885	27,695	28,213	56,604	131,543	91,607	33,531	1,644	1,366	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	20,554	21,414	21,241	41,495	89,087	54,303	17,398	745	543	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	3.60%	3.60%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/11/2017
 Current Projected End Date of Project: 9/30/2038
 Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	430,681	Actual 1997 Cost:	22,078	Actual 1998 Cost:	22,498
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	386,105	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			10,425
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	396,530				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):	23,437	Regulatory changes, updated estimates, & scope changes resulted in a net cost growth.
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	419,967	
Additional Amount to Reconcile (+):	788	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	420,755	

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
211FB Pu-239 Release Field Start	SR-ER06-068		9/30/2007	9/30/2007			Y				
211FB Pu-239 Release ROD Submittal	SR-ER06-069		9/30/2010	9/30/2010			Y			Y	
211FB Pu-239 Release Remedial Action Start	SR-ER06-070		12/30/2011	12/30/2011			Y				
A Area Coal Pile Runoff Basin Field Start	SR-ER06-073		9/30/2008	9/30/2008			Y				
A Area Coal Pile Runoff Basin ROD Submittal	SR-ER06-074		9/30/2011	9/30/2011			Y			Y	
A Area Coal Pile Runoff Basin Remedial Action Start	SR-ER06-075		12/30/2012	12/30/2012			Y				
A Area Miscellaneous Rubble Pile (731-6A) ROD Submittal	SR-ER06-077		12/30/2001	12/30/2001			Y			Y	
A Area Miscellaneous Rubble Pile (731-6A) Remedial Action Start	SR-ER06-078		3/30/2003	3/30/2003			Y				
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (7	SR-ER06-021		3/14/1999	3/14/1999			Y				
A-Area Coal Pile Runoff Basin (788-3A) Field Start	SR-ER06-025		9/30/2008	9/30/2008			Y				
F Area Canyon Groundwater Field Start	SR-ER06-047		12/30/2007	12/30/2007			Y				
F Area Canyon Groundwater ROD Submittal	SR-ER06-048		12/30/2010	12/30/2010			Y			Y	
F Area Canyon Groundwater Remedial Action Start	SR-ER06-049		3/30/2012	3/30/2012			Y				
F Retention Basin 281-8F Groundwater Field Start	SR-ER06-057		12/30/2008	12/30/2008			Y				
F Retention Basin 281-8F Groundwater Remedial Action Start	SR-ER06-059		3/30/2013	3/30/2013			Y				
F Retention Basin 281-8F Groundwater ROD Submittal	SR-ER06-058		12/30/2011	12/30/2011			Y			Y	
F Retention Basin 281-8F Source Remedial Action Start	SR-ER06-060		12/30/2004	12/30/2004			Y				
H Area Canyon Groundwater Field Start	SR-ER06-050		12/30/2007	12/30/2007			Y				
H Area Canyon Groundwater ROD Submittal	SR-ER06-051		12/30/2010	12/30/2010			Y			Y	

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
H Area Canyon Groundwater Remedial Action Start	SR-ER06-052		3/30/2012	3/30/2012			Y				
H Retention Basin 281-1H, -2H, -8H Groundwater Remedial Action Start	SR-ER06-055		3/30/2013	3/30/2013			Y				
H Retention Basin 281-1H, -2H, -8H Groundwater Field Start	SR-ER06-053		12/30/2008	12/30/2008			Y				
H Retention Basin 281-1H, -2H, -8H Groundwater ROD Submittal	SR-ER06-054		12/30/2011	12/30/2011			Y			Y	
H Retention Basin 281-1H, -2H Source Remedial Action Start	SR-ER06-056		9/30/2004	9/30/2004			Y				
H Retention Basin 281-8H Groundwater Field Start	SR-ER06-061		12/30/2005	12/30/2005			Y				
H Retention Basin 281-8H Groundwater ROD Submittal	SR-ER06-062		12/30/2008	12/30/2008			Y			Y	
H Retention Basin 281-8H Groundwater Remedial Action Start	SR-ER06-063		3/30/2006	3/30/2006			Y				
H Retention Basin 281-8H Source Unit Remedial Action Start	SR-ER06-064		9/30/2004	9/30/2004			Y				
H-Area Coal Pile Runoff Basin (289-H) Field Start	SR-ER06-024		9/30/2008	9/30/2008			Y				
H-Area Coal Pile Runoff Basin (289-H) RA Start	SR-ER06-023		12/30/2012	12/30/2012			Y			Y	
H-Area Coal Pile Runoff Basin (289-H) ROD	SR-ER06-022		9/30/2011	9/30/2011			Y			Y	
HP52 Ponds Field Start	SR-ER06-040		12/30/2001	12/30/2001			Y				
HP52 Ponds ROD Submittal	SR-ER06-041		12/30/2004	12/30/2004			Y			Y	
HP52 Ponds Remedial Action Start	SR-ER06-042		3/30/2006	3/30/2006			Y				
HP52 Ponds Source Remedial Action Start	SR-ER06-043		9/30/2001	9/30/2001			Y				
LT S&M Completion (If applicable)	SR-ER06-003		9/30/2038	9/30/2038							
Low Level Rad Waste Disposal Facility Field Start	SR-ER06-028		12/30/2009	12/30/2009			Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Low Level Rad Waste Disposal Facility ROD Submittal	SR-ER06-029		12/30/2012	12/30/2012			Y			Y	
Low Level Rad Waste Disposal Facility Remedial Action Start	SR-ER06-030		3/30/2014	3/30/2014			Y				
M Area Inactive Process Sewer Lines Field Start	SR-ER06-044		6/30/2007	6/30/2007			Y				
M Area Inactive Process Sewer Lines ROD Submittal	SR-ER06-045		6/30/2010	6/30/2010			Y			Y	
M Area Inactive Process Sewer Lines Remedial Action Start	SR-ER06-046		9/30/2011	9/30/2011			Y				
Outfalls A-24 Field Start	SR-ER06-065		12/30/2002	12/30/2002			Y				
Outfalls A-24 ROD Submittal	SR-ER06-066		12/30/2005	12/30/2005			Y			Y	
Outfalls A-24 Remedial Action Start	SR-ER06-067		3/30/2007	3/30/2007			Y				
Project Mission Complete	SR-ER06-002		9/11/2017	9/11/2017							
SRL 904A Process Trench Field Start	SR-ER06-031		3/30/2005	3/30/2005			Y				
SRL 904A Process Trench ROD Submittal	SR-ER06-032		3/30/2008	3/30/2008			Y			Y	
SRL 904A Process Trench Remedial Action Start	SR-ER06-033		6/30/2009	6/30/2009			Y				
SRL Seepage Basin ROD Submittal	SR-ER06-071		11/13/1999	11/13/1999			Y			Y	
SRL Seepage Basin Remedial Action Start	SR-ER06-072		2/17/2001	2/17/2001			Y				
Steed Pond Remedial Action Start	SR-ER06-039		12/30/2014	12/30/2014			Y				
Steed Pond Field Start	SR-ER06-037		9/30/2010	9/30/2010			Y				
Steed Pond ROD Submittal	SR-ER06-038		9/30/2013	9/30/2013			Y			Y	
Upper Three Runs IOU Monitoring Field Start	SR-ER06-111		9/30/2002	9/30/2002			Y				
Upper Three Runs Integrator Operable Unit Field Start	SR-ER06-079		12/30/2013	12/30/2013			Y				
Upper Three Runs Integrator Operable Unit Remedial Action Start	SR-ER06-081		3/30/2018	3/30/2018			Y				
Upper Three Runs Integrator Operable Unit ROD	SR-ER06-080		12/30/2016	12/30/2016			Y			Y	

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Submittal											
West of SREL "Georgia Fields" ROD	SR-ER06-035		9/30/2002	9/30/2002			Y			Y	
West of SREL "Georgia Fields" RA Start	SR-ER06-036		12/30/2003	12/30/2003			Y				
716-A Motor Shop Seepage Basin (904-101G)	SR-ER06-090		12/18/1999	12/18/1999			Y				
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A)	SR-ER06-091		4/12/2000	4/12/2000			Y				
F-Area Tank Farm Groundwater Operable Unit	SR-ER06-092		9/30/2007	9/30/2007			Y				
F-Area Tank Farm Groundwater Operable Unit	SR-ER06-093		9/30/2010	9/30/2010			Y				
F-Area Tank Farm Groundwater Operable Unit	SR-ER06-096		12/30/2011	12/30/2011			Y				
Misc. Chemical Basin/Metals Burning Pit(731-4A, -5A) RA Start	SR-ER06-097		12/30/2006	12/30/2006			Y				
SRL Oil Test Site (080-16G)	SR-ER06-099		12/30/2003	12/30/2003			Y				
SRL Oil Test Site (080-16G)	SR-ER06-101		12/30/2006	12/30/2006			Y				
SRL Oil Test Site (080-16G)	SR-ER06-102		3/30/2008	3/30/2008			Y				
West of SREL "Georgia Fields" Field Start	SR-ER06-104		9/30/1999	9/30/1999			Y				
Misc. Chemical Basin/Metals Burning Pit (731-4A,-5A) ROD	SR-ER06-100		9/30/2005	9/30/2005			Y				
Project Start	SR-ER06-001		10/1/1996								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
211FB Pu-239 Release Field Start	SR-ER06-068										
211FB Pu-239 Release ROD Submittal	SR-ER06-069										

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
211FB Pu-239 Release Remedial Action Start	SR-ER06-070										
A Area Coal Pile Runoff Basin Field Start	SR-ER06-073										
A Area Coal Pile Runoff Basin ROD Submittal	SR-ER06-074										
A Area Coal Pile Runoff Basin Remedial Action Start	SR-ER06-075										
A Area Miscellaneous Rubble Pile (731-6A) ROD Submittal	SR-ER06-077										Unfunded at Target
A Area Miscellaneous Rubble Pile (731-6A) Remedial Action Start	SR-ER06-078										Unfunded at Target
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (7	SR-ER06-021										
A-Area Coal Pile Runoff Basin (788-3A) Field Start	SR-ER06-025									Y	
F Area Canyon Groundwater Field Start	SR-ER06-047										
F Area Canyon Groundwater ROD Submittal	SR-ER06-048										
F Area Canyon Groundwater Remedial Action Start	SR-ER06-049										
F Retention Basin 281-8F Groundwater Field Start	SR-ER06-057										
F Retention Basin 281-8F Groundwater Remedial Action Start	SR-ER06-059										
F Retention Basin 281-8F	SR-ER06-058										

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Groundwater ROD Submittal											
F Retention Basin 281-8F Source Remedial Action Start	SR-ER06-060									Y	
H Area Canyon Groundwater Field Start	SR-ER06-050										
H Area Canyon Groundwater ROD Submittal	SR-ER06-051										
H Area Canyon Groundwater Remedial Action Start	SR-ER06-052										
H Retention Basin 281-1H, -2H, -8H Groundwater Remedial Action Start	SR-ER06-055										
H Retention Basin 281-1H, -2H, -8H Groundwater Field Start	SR-ER06-053										
H Retention Basin 281-1H, -2H, -8H Groundwater ROD Submittal	SR-ER06-054										
H Retention Basin 281-1H, -2H Source Remedial Action Start	SR-ER06-056									Y	
H Retention Basin 281-8H Groundwater Field Start	SR-ER06-061									Y	
H Retention Basin 281-8H Groundwater ROD Submittal	SR-ER06-062									Y	
H Retention Basin 281-8H Groundwater Remedial Action Start	SR-ER06-063									Y	
H Retention Basin 281-8H Source Unit Remedial Action Start	SR-ER06-064									Y	
H-Area Coal Pile Runoff Basin (289-H) Field Start	SR-ER06-024										

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
H-Area Coal Pile Runoff Basin (289-H) RA Start	SR-ER06-023										
H-Area Coal Pile Runoff Basin (289-H) ROD	SR-ER06-022										
HP52 Ponds Field Start	SR-ER06-040									Y	
HP52 Ponds ROD Submittal	SR-ER06-041									Y	
HP52 Ponds Remedial Action Start	SR-ER06-042									Y	
HP52 Ponds Source Remedial Action Start	SR-ER06-043									Y	
LT S&M Completion (If applicable)	SR-ER06-003				Y						
Low Level Rad Waste Disposal Facility Field Start	SR-ER06-028										
Low Level Rad Waste Disposal Facility ROD Submittal	SR-ER06-029										
Low Level Rad Waste Disposal Facility Remedial Action Start	SR-ER06-030										
M Area Inactive Process Sewer Lines Field Start	SR-ER06-044										
M Area Inactive Process Sewer Lines ROD Submittal	SR-ER06-045										
M Area Inactive Process Sewer Lines Remedial Action Start	SR-ER06-046										
Outfalls A-24 Field Start	SR-ER06-065										
Outfalls A-24 ROD Submittal	SR-ER06-066										
Outfalls A-24 Remedial Action Start	SR-ER06-067										

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Project Mission Complete	SR-ER06-002										
SRL 904A Process Trench Field Start	SR-ER06-031										
SRL 904A Process Trench ROD Submittal	SR-ER06-032										
SRL 904A Process Trench Remedial Action Start	SR-ER06-033										
SRL Seepage Basin ROD Submittal	SR-ER06-071										
SRL Seepage Basin Remedial Action Start	SR-ER06-072										
Steed Pond Remedial Action Start	SR-ER06-039										
Steed Pond Field Start	SR-ER06-037										
Steed Pond ROD Submittal	SR-ER06-038										
Upper Three Runs IOU Monitoring Field Start	SR-ER06-111										
Upper Three Runs Integrator Operable Unit Field Start	SR-ER06-079										
Upper Three Runs Integrator Operable Unit Remedial Action Start	SR-ER06-081										
Upper Three Runs Integrator Operable Unit ROD Submittal	SR-ER06-080										
West of SREL "Georgia Fields" ROD	SR-ER06-035										Unfunded at Target
West of SREL "Georgia Fields" RA Start	SR-ER06-036										Unfunded at Target
716-A Motor Shop Seepage Basin	SR-ER06-090										

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
(904-101G)											
A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A)	SR-ER06-091										
F-Area Tank Farm Groundwater Operable Unit	SR-ER06-092										
F-Area Tank Farm Groundwater Operable Unit	SR-ER06-093										
F-Area Tank Farm Groundwater Operable Unit	SR-ER06-096										
Misc. Chemical Basin/Metals Burning Pit(731-4A, -5A) RA Start	SR-ER06-097										Unfunded at Target
SRL Oil Test Site (080-16G)	SR-ER06-099										
SRL Oil Test Site (080-16G)	SR-ER06-101										
SRL Oil Test Site (080-16G)	SR-ER06-102										
West of SREL "Georgia Fields" Field Start	SR-ER06-104										
Misc. Chemical Basin/Metals Burning Pit (731-4A,-5A) ROD	SR-ER06-100										Unfunded at Target
Project Start	SR-ER06-001										Y

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	55.00	55.00	110.00	7.00	11.00	11.00	10.00	11.00		1.00	1.00	3.00	1.00

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Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Cleanup	NR	38.00	76.00	114.00	1.00	11.00	11.00	6.00	7.00				2.00	8.00
Tech.														
Deployed	Ntd	6.00	0.00	6.00					5.00	1.00				
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
RS														
Assess.	NR	1.00	7.00	10.00	7.00	8.00	8.00	7.00	25.00					
RS														
Cleanup	NR	8.00	3.00	1.00	3.00	1.00	7.00	10.00	39.00	16.00				
Tech.														
Deployed	Ntd													
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total				
RS														
Assess.	NR								2.00	144.00				
RS														
Cleanup	NR								1.00	144.00				
Tech.														
Deployed	Ntd								6.00	8.00				

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
SARS	0019		F/H Groundwater	Above Ground Material / Waste/Debris Piles	2006	2006		2010	2010		1993	N		N
SARS	0020		643-7E \ Low Level Rad. Waste Disposal Facility Cap A-D	Waste/Landfills	1996	1996	10/18/1995	1999	1999	8/3/1999	1993	N		Y
SARS	0021		740-G \ Nonradioactive Waste Disposal Facility	Waste/Landfills	1995		9/30/1995	1997		7/7/1997		N		N
SARS	0022		Nonradioactive Waste Disposal Facility Groundwater	Surface and Groundwater/Groundwater Plumes	1995	1995	9/30/1995	2004	2000			N		Y
SARS	0023		A/M GROUNDWATER	Surface and Groundwater/Groundwater Plumes	1994	1994	9/30/1994	2004	2004			N		N
SARS	0024		A/M GROUNDWATER - SRL PORTION	Surface and Groundwater/Groundwater Plumes	1994	1994	9/30/1994	2004	2004			N		N
SARS	0034		F-AREA BURNING RUBBLE PIT 231-1F	Waste/Burn Pits	1997		11/13/1996	1997		11/13/1996		N	Pending	N
SARS	0035		F-AREA BURNING RUBBLE PIT 231-2F	Waste/Burn Pits	1997		11/13/1996	1997		11/13/1996		N	Pending	N
SARS	0036		F-AREA BURNING RUBBLE PIT	Waste/Burn Pits	1997		11/13/1996	1997		11/13/1996		N	Pending	N
SARS	0037		631-22G \ GRACE ROAD SITE	Waste/Miscellaneous Surface Debris	1997		11/13/1996	1997		11/13/1996		N	Pending	N
SARS	0038		631-24G \ GUNSITE 113 ACCESS ROAD	Spills and Leaks/Surface Spills	1997		11/13/1996	1997		11/13/1996		N	Pending	N
SARS	0040		631-16G \ GUNSITE 720 RUBBLE PILE	Waste/Miscellaneous Surface Debris	1997		11/13/1996	1997		11/13/1996		N	Pending	N
SARS	0043		081-F \ 211 - FB Pu-239 Release	Buildings & Equipment/Other	2010	2010		2014	2014		1993	N		Y

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				Buildings										
SARS	0044		904-101G \ 716-A MOTOR SHOP SEEPAGE BASIN	Liquid Surface Impoundments/Seepage Basins	1998	1998	4/23/1998	1999	1999	4/23/1998	1993	N		N
SARS	0045		731-1A \ A-AREA BURNING/RUBBLE PIT NO. 2	Waste/Burn Pits	1998	2001	9/30/1998	2005	2005		1993	N		N
SARS	0046	R	731-A \ A-AREA BURNING/RUBBLE PIT NO. 1	/	1998	2001		2005	2005		1993	N		N
SARS	0047		788-3A \ A-AREA COAL PILE RUNOFF BASIN	Liquid Surface Impoundments/Seepage Basins	2011	2011		2013	2013		1993	N		N
SARS	0048		731-6A \ A-AREA RUBBLE PILE	Waste/Pits	2001	2001		2005	2005		1993	N		N
SARS	0049		731-2A \ A-AREA RUBBLE PIT	Waste/Pits	1998	2001	9/30/1998	2005	2005		1993	N		N
SARS	0056	R	CAROLINA BAY PART OF METALLURGICAL LAB	/	2008	2008		2012	2012		1993	N		Y
SARS	0071		289-F \ F-AREA COAL PILE RUNOFF BASIN	Liquid Surface Impoundments/Seepage Basins	1998	1998	4/30/1998	2004	2004	4/30/1998	1993	N		N
SARS	0079		289-H \ H-AREA COAL PILE RUNOFF BASIN	Liquid Surface Impoundments/Seepage Basins	2011	2011		2015	2015		1993	N		N
SARS	0100		081-M \ M-AREA SETTLING BASIN INACTIVE PROCESS SEWERS TO MANHOLE 1	Spills and Leaks/Pipeline Leaks	2010	2010		2014	2014		1993	N		N
SARS	0101		731-4A \ MISCELLANEOUS CHEMICAL BASIN	Liquid Surface Impoundments/Seepage Basins	1999	1999		2003	2003		1993	N		Y
SARS	0102		731-5A \ MISCELLANEOUS CHEMICAL BASIN/METAL BURN PIT	Liquid Surface Impoundments/Seepage Basins	1999	1999		2003	2003		1993	N		Y

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				Basins										
SARS	0105		904-49G \ OLD F AREA SEEPAGE BASIN	Liquid Surface Impoundments/Seepage Basins	1997	1997	11/13/1996	1999	2000			N		Y
SARS	0131		904-A \ SRL 904-A PROCESS TRENCH	Waste/Trenches / Outfalls	2008	2008		2012	2012		1993	N		Y
SARS	0133		904-53G1 \ SRL SEEPAGE BASIN NO.1	Liquid Surface Impoundments/Seepage Basins	1999	1999	4/1/1999	2004	2004		1993	N		Y
SARS	0134		904-53G2 \ SRL SEEPAGE BASIN NO.2	Liquid Surface Impoundments/Seepage Basins	1999	1999	4/1/1999	2004	2004		1993	N		Y
SARS	0135		904-54G \ SRL SEEPAGE BASIN NO.3	Liquid Surface Impoundments/Seepage Basins	1999	1999	4/1/1999	2004	2004		1993	N		Y
SARS	0136		904-55G \ SRL SEEPAGE BASIN NO.4	Liquid Surface Impoundments/Seepage Basins	1999	1999	4/1/1999	2004	2004		1993	N		Y
SARS	0140		631-19G \ GEORGIA FIELDS	Waste/Miscellaneous Surface Debris	2002	2000		2006	2006		1993	N		N
SARS	0141		081-1F \ F-AREA INACTIVE PROCESS SEWER LINES FROM BUILDING TO THE SECURITY FENCE	Spills and Leaks/Pipeline Leaks	2005	2005		2009	2009		1993	N		Y
SARS	0142		081-1H \ H-AREA INACTIVE PROCESS SEWER LINES FROM BUILDING TO THE SECURITY FENCE	Spills and Leaks/Pipeline Leaks	2005	2005		2009	2009		1993	N		Y
SARS	0147		F AREA TANK FARM GROUNDWATER	Surface and Groundwater/Groundwater Plumes	2010	2010		2014	2014		1993	N		Y

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SARS	0149		761-1G \ LOWER KATO ROAD SITE	Miscellaneous/Other	1997		3/24/1997	1997		3/24/1997		N	Pending	N
SARS	0151		761-2G \ ORANGEBURG SITE	Miscellaneous/Other	1997		5/16/1997	1997		5/16/1997	1993	N	Pending	N
SARS	0196		SPILL ON 03/30/87 15 GAL OF ACIDIC WATER	Spills and Leaks/Surface Spills	2003	1998	6/30/1998	2003	1998	6/30/1998		N		N
SARS	0200		SPILL ON 05/01/57 125 Ft2 OF RAD LIQUID	Spills and Leaks/Surface Spills	2012	2012		2012	2012			N		Y
SARS	0234		313-M and 320-M Inactive Clay Process Sewers to Tims Branch	Waste/Trenches / Outfalls	2007	2007		2011	2011		1993	N		Y
SARS	0260		211-H \ Combined Spills from 211-H	Spills and Leaks/Surface Spills	2012	2012		2016	2016		1993	N		Y
SARS	0262		241-H \ Combined Spills from 241-H (H-Area Tank Farm)	Spills and Leaks/Surface Spills	2012	2012		2016	2016		1993	N		Y
SARS	0263		242-F \ Combined Spills from 242-F	Spills and Leaks/Surface Spills	2008	2008		2012	2012		1993	N		Y
SARS	0266		643-G \ Combined Spills from 643-G	Spills and Leaks/Surface Spills	2012	2012		2016	2016		1993	N		Y
SARS	0270		701-1F \ Combined Spills from 701-1F Spill	Spills and Leaks/Surface Spills	2011	2011		2015	2015		1993	N		Y
SARS	0276		288-0F \ F-AREA ASH BASIN, 288-0F	Liquid Surface Impoundments/Holding Ponds	2009	2009		2013	2013		1993	N		N
SARS	0277		288-1F \ F-Area Ash Basin No. 2 (Alternate) - 288-1F	Liquid Surface Impoundments/Holding Ponds	2012	2012		2016	2016		1993	N		N
SARS	0278		080-28G \ F-AREA EROSION CONTROL SITE, 080-28G	Waste/Trenches / Outfalls	1998	1998	6/30/1998	1998	1998	6/30/1998	1993	N		N
SARS	0279		F-Area Railroad Crosstie Pile	Above Ground Material / Waste/Scrap Yards	1997		3/10/1997	1997		3/10/1997	1993	N	Pending	N

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SARS	0281		F-AREA SANITARY SLUDGE LAND APPL. SITE	Waste/Landfills	1998	1998	3/31/1998	1998	1998	3/31/1998	1993	N		N
SARS	0283		241-F \ F-AREA TANK FARM, 241-F	Tanks/Underground Storage Tanks	2012	2012		2016	2016		1993	N		Y
SARS	0294		281-1H \ H-Area Retention Basin No. 1	Liquid Surface Impoundments/Seepage Basins	2012	2012		2016	2016		1993	N		Y
SARS	0295		281-2H \ H-Area Retention Basin No. 2	Liquid Surface Impoundments/Seepage Basins	2012	2012		2016	2012		1993	N		Y
SARS	0297		221-H \ H-Area Separations Facilities and Associated Spills	Buildings & Equipment/Other Buildings	2012	2012		2016	2016		1993	N		Y
SARS	0298		241-H \ H-AREA TANK FARM, 241-H	Tanks/Underground Storage Tanks	2012	2012		2016	2016		1993	N		Y
SARS	0308		772-F \ Low Level Radioactive Drain Lines	Spills and Leaks/Pipeline Leaks	2013	2013		2017	2017		1993	N		Y
SARS	0322		730-M \ Potential Release of Diesel Fuel and Benzene from 730-M	Tanks/Above Ground Storage Tanks	1998	1998	9/30/1998	1998	1998	9/30/1998	1993	N		N
SARS	0325		280-1F \ Potential Release of NaOH/H2SO4 from 280-1F	Tanks/Above Ground Storage Tanks	2001	1998	6/30/1998	2001	1998	6/30/1998	1993	N		N
SARS	0326		Potential Release of TCT, TET TCE, HNO3, U, Heavy Metals from 321-M Abandoned Sewer Line	Spills and Leaks/Pipeline Leaks	2005	2005		2009	2009		1993	N		Y
SARS	0332		244-H \ Receiving Basin for Off-Site Fuels	Liquid Surface Impoundments/Seepage Basins	2012	2012		2016	2016		1993	N		Y
SARS	0338		Rubble Pile North of SRL	Above Ground Material / Waste/Debris Piles	1998	1998	9/30/1998	1998	1998	9/30/1998	1993	N		N

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SARS	0339		S-Area Erosion Control Site	Miscellaneous/Other	2005	2005		2009	2009		1993	N		N
SARS	0340		Salvage Yard - 740-A	Above Ground Material / Waste/Scrap Yards	2006	2006		2010	2010		1993	N		N
SARS	0343		221-F \ Sandblast Area - 221F (CMF-001-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2009	2009		2013	2013		1993	N		N
SARS	0344		221-H \ Sandblast Area - 221-H (CMH-001-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2010	2010		2014	2014		1993	N		N
SARS	0345		284-H \ Sandblast Area - 284-H (CMH-003-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2008	2008		2012	2012		1993	N		N
SARS	0346		294-H/1H \ Sandblast Area - 294-H & 294-1H (CMH-002-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2009	2009		2013	2013		1993	N		N
SARS	0347		341-1M \ Sandblast Area - 341-1M (CMM-002&003-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2001	2001	9/30/1993	2004	2004			N		N
SARS	0352		704-M \ Sandblast Area - 704-M (CMM-008-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2011	2011		2015	2015		1993	N		N
SARS	0357		Sandblast Area - S-1 Laydown Yard (CMS-001-O&M Plan)	Above Ground Material / Waste/Scrap Yards	2007	2007		2011	2011		1993	N		N
SARS	0359		Small Arms Training Area (SATA)	Miscellaneous/Other	2008	2008		2012	2012		1993	N		N
SARS	0360		232-H \ Spill of <1/2 lb Mercury in Bldg.	Spills and Leaks/Surface Spills	2007	2007		2011	2011		1993	N		N
SARS	0361		780-2A \ Spill of 218 Grams Mercury Adjacent to Bldg. 780-2A	Spills and Leaks/Surface Spills	1999	2013	4/1/1999	1999	2017	4/1/1999	1993	Y		Y
SARS	0364		Spill on 01/01/78 of 600 Lbs of 50% Sodium Hydroxide	Spills and Leaks/Surface Spills	2003	2003	6/29/1999	2007	2007	6/29/1999	1993	Y		N
SARS	0367		Spill on 01/01/81 of Gal of 34% Aluminum	Spills and Leaks/Surface Spills	1999	1999	12/18/1998	1999	1999	12/18/1998	1993	Y		N
SARS	0369		Spill on 01/01/85 of 3 Gal of Aluminum	Spills and	1999	1998	6/30/1998	1999	1998	6/30/1998	1993	N		N

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			Nitrate	Leaks/Surface Spills										
SARS	0371		SPILL ON 01/01/87 5 GAL 50% SOD HYDROXIDE	Spills and Leaks/Surface Spills	2000	1998	6/30/1998	2000	1998	6/30/1998	1993	N		N
SARS	0372		Spill on 01/01/87 of Unknown of Potassium Permanganate	Spills and Leaks/Surface Spills	2001	1998	6/30/1998	2001	1998	6/30/1998	1993	N		N
SARS	0374		211-H \ Spill on 01/12/87 of <100 gm of Mercury North of 211-H	Spills and Leaks/Surface Spills	2007	2007		2011	2011		1993	N		N
SARS	0375		Spill on 01/19/80 of Unknown of Chromated Water from H-Area Pump House	Spills and Leaks/Surface Spills	2006	2006		2010	2010		1993	N		N
SARS	0376		Spill on 01/19/83 of 1000 Ft2 of Radioactive Spill	Spills and Leaks/Surface Spills	2009	2009		2013	2013		1993	N		Y
SARS	0377		Spill on 01/19/86 of Unknown of Plating Solution	Spills and Leaks/Surface Spills	1999	1999	3/17/1999	1999	1999	3/17/1999	1993	Y		N
SARS	0379		Spill on 01/07/87 of 20 Gal of Caustic	Spills and Leaks/Surface Spills	2004	1998	6/30/1998	2004	1998	6/30/1998	1993	N		N
SARS	0380		Spill on 10/01/71 of 100 Sq Ft of Flush Water - Rad	Spills and Leaks/Surface Spills	2010	2010		2014	2014		1993	N		Y
SARS	0381	R	Spill on 10/16/81 of 30 Gal of Low Level Waste from Trailer	/	2012	2012		2016	2016		1993	N		Y
SARS	0383		243-H \ Spill on 11/10/81 of 500 Gal of Chromated Water from 243-H	Spills and Leaks/Surface Spills	2006	2006		2010	2010		1993	N		N
SARS	0384		784-A \ Spill on 11/21/87 of 170 Gal of KOH, SMBS, NaPO4 from 784-A	Spills and Leaks/Surface Spills	1999	1999	3/15/1999	1999	1999	3/15/1999	1993	Y		N
SARS	0385		702-A/708-A \ Spill on 11/22/85 of Unknown of Chromated Water from Between 702-A and 708-A	Spills and Leaks/Surface Spills	2010	2010		2014	2014		1993	N		N
SARS	0387		773-A \ Spill on 12/01/71 of 1000 Gal of Rad Water from 773-A	Spills and Leaks/Surface Spills	2013	2013		2017	2017		1993	N		Y

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SARS	0388		Spill on 12/17/85 of 2 Gal of Phosphoric Acid	Spills and Leaks/Surface Spills	2004	1998	6/30/1998	2004	1998	6/30/1998	1993	N		N
SARS	0390		Spill on 02/01/69 of Unknown of Waste Tank Spill	Spills and Leaks/Surface Spills	2008	2008		2012	2012		1993	N		N
SARS	0393		S-16 \ Spill on 02/20/85 of 1 1/2 Qt of Acid Mixture from S-Area Trailer S-16	Spills and Leaks/Surface Spills	2001	1998	6/30/1998	2001	1998	6/30/1998	1993	N		N
SARS	0394		Spill on 02/25/85 of 20000 CM of Water Vapor - Rad	Spills and Leaks/Surface Spills	2007	2007		2011	2011		1993	N		Y
SARS	0395		704-8F/703-F \ Spill on 02/25/87 of 2 Liter of Sulfuric Acid Between 704-8F and 703-F Parking Lot	Spills and Leaks/Surface Spills	1999	1998	6/30/1998	1999	1998	6/30/1998	1993	N		N
SARS	0396		221-F \ Spill on 02/28/85 of 5-10 Gal of 64% Nitric Acid from 221-F	Spills and Leaks/Surface Spills			6/30/1998		1998	6/30/1998	1993	N		N
SARS	0397		Spill on 02/06/85 of 50 Gal of Caustic	Spills and Leaks/Surface Spills	2001	1998	6/30/1998	2001	1998	6/30/1998	1993	N		N
SARS	0399		Spill on 03/01/66 of 500 Sq Ft of Flush Water - Rad	Spills and Leaks/Surface Spills	2009	2009		2013	2013		1993	N		Y
SARS	0400		Spill on 03/11/87 of 1 Gal of Caustic	Spills and Leaks/Surface Spills	2001	1998	6/30/1998	2001	1998	6/30/1998	1993	N		N
SARS	0402		Spill on 03/27/80 of 3 Gal of Nitric Acid	Spills and Leaks/Surface Spills	2003	1998	6/30/1998	2003	1998	6/30/1998	1993	N		N
SARS	0403		241-24H \ Spill on 03/28/87 of <15000 Gal of Chromated Water from 241-24H	Spills and Leaks/Surface Spills	2009	2009		2013	2013		1993	N		N
SARS	0404		Spill on 03/07/86 of 10 Gal of Acid	Spills and Leaks/Surface Spills	2003	1998	6/30/1998	2003	1998	6/30/1998	1993	N		N
SARS	0406		Spill on 03/08/86 of 1/2 Pint of Water - Rad	Spills and Leaks/Surface Spills	2000	1998	3/16/1998	2000	1998	3/16/1998	1993	N		Y
SARS	0407		Spill on 03/08/86 of 10 Gal of Nitric Acid	Spills and	1998	1998	6/30/1998	1998	1998	6/30/1998	1993	N		N

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				Leaks/Surface Spills										
SARS	0408		Spill on 03/08/86 of 6 Gal of Caustic	Spills and Leaks/Surface Spills	1998	1998	6/30/1998	1998	1998	6/30/1998	1993	N		N
SARS	0409		Spill on 04/01/85 of 25 ml of Sulfuric Acid	Spills and Leaks/Surface Spills	2002	1998	6/30/1998	2002	1998	6/30/1998	1993	N		N
SARS	0410		Spill on 04/01/87 of <5 Gal of Cr III Ligno - Sulfonate	Spills and Leaks/Surface Spills	2003	2003		2007	2007		1993	N		N
SARS	0411		Spill on 04/14/81 of 3 Gal of Contaminated Flush Water	Spills and Leaks/Surface Spills	2008	2008		2012	2012		1993	N		N
SARS	0412		Spill on 04/18/80 of Unknown of Chromated Water from Valve House 3	Spills and Leaks/Surface Spills	2006	2006		2010	2010		1993	N		N
SARS	0414		Spill on 04/24/91 of .11 Ci of Pu 239	Spills and Leaks/Surface Spills	2007	2007		2011	2011		1993	N		Y
SARS	0415		Spill on 04/25/87 of 15 Gal of Water - Rad	Spills and Leaks/Surface Spills	2004	2004		2008	2008		1993	N		Y
SARS	0416		Spill on 04/07/76 of 200 Gal of 50% Nitric Acid	Spills and Leaks/Surface Spills	2006	1999	12/18/1998	2010	1999	12/18/1998	1993	Y		N
SARS	0419		779-A \ Spill on 05/01/85 of 1 Gal of Alcohol from 779-A	Spills and Leaks/Surface Spills	2002	1998	6/30/1998	2002	1998	6/30/1998	1993	N		N
SARS	0420		300-M \ Spill on 05/01/87 of 100 Gal of Water from 300-M	Spills and Leaks/Surface Spills	2010	2010	6/29/1999	2014	2014	6/29/1999	1993	Y		Y
SARS	0422		Spill on 05/19/87 of 1 Gal of 50% Sodium Hydroxide	Spills and Leaks/Surface Spills	2001	1998	6/30/1998	2001	1998	6/30/1998	1993	N		N
SARS	0424		Spill on 05/21/84 of 20 Gal of Sodium Hydroxide	Spills and Leaks/Surface Spills	1999	1998	6/30/1998	1999	1998	6/30/1998	1993	N		N
SARS	0425		Spill on 05/21/85 of 20 Gal of Acid Acid from S-Area	Spills and Leaks/Surface Spills	2002	1998	6/30/1998	2002	1998	6/30/1998	1993	N		N
SARS	0426		Spill on 05/22/86 of 2 Gal of 50% Sodium	Spills and	2000	1998	6/30/1998	2000	1998	6/30/1998	1993	N		N

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			Hydroxide	Leaks/Surface Spills										
SARS	0429		772-F \ Spill on 05/26/88 of 10 Gal of Ethylene Glycol-Rad from 772-F	Spills and Leaks/Surface Spills	2011	2011		2015	2015		1993	N		N
SARS	0431		Spill on 05/28/81 of 9000 Gal of Chromated Water	Spills and Leaks/Surface Spills	2008	2008		2012	2012		1993	N		N
SARS	0432		Spill on 05/30/78 of Unknown of Sump Overflow	Spills and Leaks/Surface Spills	2009	2009		2013	2013		1993	N		N
SARS	0435		211-F \ Spill on 06/01/59 of <1 Ci of Segregated Solvent from 211-F	Spills and Leaks/Surface Spills	2008	2008		2012	2012		1993	N		N
SARS	0436		Spill on 06/16/87 of ~1 Gal of Water - Rad	Spills and Leaks/Surface Spills	2005	2005	9/30/1999	2009	2009	9/30/1999	1993	Y		Y
SARS	0437	R	221-F \ Spill on 06/18/84 of 40-50 Gal of Chromated Water from 221-F	/	2009			2013			1993	N		N
SARS	0438		Spill on 06/26/75 of 250 Cu Ft of Rad Contaminated Soil	Spills and Leaks/Surface Spills	2007	2007		2011	2011		1993	N		Y
SARS	0440		Spill on 06/28/84 of 100 Gal of Chilled Water	Spills and Leaks/Surface Spills	2006	2006		2010	2010		1993	N		N
SARS	0442		Spill on 06/06/79 of <1 Gal of Contaminated Liquid	Spills and Leaks/Surface Spills	2005	2005		2009	2009		1993	N		Y
SARS	0446		Spill on 08/18/86 of 20 Gal of Water - Rad	Spills and Leaks/Surface Spills	2000	1998	3/16/1998	2000	1998	3/16/1998	1993	N		Y
SARS	0447		Spill on 08/29/85 of 500 gm of Uranyl Nitrate	Spills and Leaks/Surface Spills	1999	1999	6/15/1999	1999	1999	6/15/1999	1993	Y		N
SARS	0450		Spill on 09/10/86 of 1 Gal of Water - Rad	Spills and Leaks/Surface Spills	2006	2006		2010	2010		1993	N		Y
SARS	0454		Spill on 09/04/85 of 1 1/2 Gal of Nitric Acid	Spills and Leaks/Surface Spills	2002	1998	6/30/1998	2002	1998	6/30/1998	1993	N		N
SARS	0456		Steed Pond	Liquid Surface	2013	2013		2017	2017		1993	N		Y

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				Impoundments/Holding Ponds										
SARS	0457		Stormwater Outfall A-002	Waste/Trenches / Outfalls	2006	2006		2010	2010		1993	N		N
SARS	0458		Stormwater Outfall A-024	Waste/Trenches / Outfalls	2006	2006		2010	2010		1993	N		N
SARS	0463		080-27G \ Substation 51 Erosion Control Site	Miscellaneous/Other	1997		9/25/1997	1997		9/25/1997	1993	N	Pending	N
SARS	0465		Underground Sump 321 M #001	Tanks/Septic Tanks	2012	2012		2016	2016		1993	N		Y
SARS	0466		Underground Sump 321 M #002	Tanks/Septic Tanks	2012	2012		2016	2016		1993	N		Y
SARS	0474		GENERAL AREA, OTHER: PROCESS AND SEWER LINES AS ABANDONED, NBN	/	2010	2010		2014	2014			N		
SARS	0480		SANDBLAST AREA, CMM-003, NBN	/	2005	2005		2009	2009			N		
SARS	0481		A-001 OUTFALL, NBN	/	2011	2011		2015	2015			N		
SARS	0482		F-AREA CANYON GROUNDWATER, NBN	/	2011	2011		2015	2015			N		
SARS	0484		M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY	/	2003	2003		2007	2007			N		
SARS	0485		COMBINED SPILLS FROM 211-F, NBN	/	2009	2009		2013	2013			N		
SARS	0486		CONTAMINATED SOIL, 3321-M	/	2003	1993	9/30/1993	2003	1993	9/30/1993		N		
SARS	0491		SANDBLAST AREA CMB-001	/	2005	2005		2009	2009			N		
SARS	0497		SANDBLAST AREA CMM-001, NBN	/	2003	2003		2007	2007			N		
SARS	3006		H-Area Canyon Groundwater Operable Unit (Index# 501)	/	2011	2011		2015	2015			N		N
SARS	3015		Upper Three Runs Inegrator Operable Unit (Index# 510)	/	2015	2015		2019	2019			N		N

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Savannah River**

Print Date: **3/9/2000**

Site Summary Level: **Savannah River Site**

HQ ID: **0056**

Project **SR-ER06 / Upper Three Runs Project**

Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
SARS	3017		Combined Spills form 221-H, NBN (Index# 512)	/	2006	2006		2010	2010			N		N

Technology Needs

Site Need Code: SR99-3017

Site Need Name: Dense Nonaqueous Phase Liquids (DNAPL) Characterization and Remediation Technologies

Focus Area Work Package ID: SS-08

Focus Area Work Package: Saturated Zone Treatment Systems

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Dynamic Underground Stripping

Direct Sampling Ion Trap Mass Spectrometer System (DSITMS)

Innovative DNAPL Characterization Technologies

Hydrous Pyrolysis/Oxidation

Imaging System for Mapping DNAPLs in Soils using Complex Resistivity Tomography

Fenton's Reagent

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02191: AK - Hazardous Groundwater (A/S)

Y

N

Dataset Name: **FY 1999 Planning Data**

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Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Savannah River**
 Site Summary Level: **Savannah River Site**
 Project **SR-ER06 / Upper Three Runs Project**

Report Number: **GEN-01b**
 Print Date: **3/9/2000**
 HQ ID: **0056**

Technology Needs

Site Need Code: SR99-3019
Site Need Name: Long-Term Cover System for a Humid Environment
Focus Area Work Package ID: SS-04
Focus Area: SCFA
Benefits (Cost, Risk Reduction, Both): Both

Focus Area Work Package: Long-Lived Caps
Agree with Technology Link: Y

Technologies

Cost Savings (in thousands of dollars) Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree? Change?

02209: BM - LLW Soil/Rubble/Debris (Cap)	Y	N
02205: BI - HAZ Soil/Debris (Cap)	Y	N

Site Need Code: SR99-3021
Site Need Name: Alternative Sample Collection and Well Installation Technology that Eliminates or Significantly Reduces Aqueous or Non-Aqueous Investigative Derived Waste (IDW)
Focus Area Work Package ID:
Focus Area:
Benefits (Cost, Risk Reduction, Both): Both

Focus Area Work Package:
Agree with Technology Link: N

Technologies

Cost Savings (in thousands of dollars) Range of Estimate

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Savannah River**

Site Summary Level: **Savannah River Site**

Project **SR-ER06 / Upper Three Runs Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0056**

Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
Technology Name: Color Recognition CPT Probe			
Deployment Commitment	1999		
Technology Name: Multi-level Sampling in Deep Monitoring Wells			
Deployment Commitment	1999		
Technology Name: Ozone Injection in Vadose Zone (Lyntec)			
Potential Deployment	2000		
Technology Name: CPT Grout Module			
Deployment Commitment	1999		