

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Savannah River**

Site Summary Level: **Savannah River Site**

Project **SR-SW03 / Mixed Low Level Waste Project**

Report Number: **GEN-01b**

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

HQ ID: **0481**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Purpose:

The mixed waste streams at SRS were and are generated from a variety of activities and waste generators across the Site, including the Tritium Facilities, Separations, Reactors, High Level Waste Tank Farms, Reactor Materials, Solid Waste, and Construction. Due to the lack of mixed waste treatment facilities within the DOE complex and the commercial sector, the vast majority of these waste streams have been in storage well in excess of one year, and do not meet the intent of the Land Disposal Restrictions (LDR) regulations, i.e. has not been treated within 1 year of its Accumulation Start Date (ASD). As a result, SRS has entered into a compliance agreement (Consent Order, 95-22-HW) with the South Carolina Department of Health and Environmental Control (SCDHEC) concerning the treatment of these waste streams. This compliance agreement requires implementation of the SRS Site Treatment Plan (STP). This plan, along with DOE National Program direction and public involvement, will provide the basis for future direction. Currently, treatment technology remains undetermined for a limited number of waste streams. Efforts are currently underway to determine the most equitable and best technical location (complex-wide) for disposal of mixed waste.

The Mixed Waste project will be managed with the overall goal of achieving full RCRA LDR compliance such that there is no legacy or newly generated mixed waste stored within the SRS Mixed Waste Facilities for longer than one year. This will be accomplished by either developing or identifying appropriate treatment methods to meet the commitments of the STP and also developing and/or identifying appropriate disposal alternatives for the final disposition of the treated Mixed Waste.

Definition of Scope:

The Mixed Waste project encompasses those activities and resources required for the safe, environmentally sound operations of the Solid Waste Mixed Waste facilities which have an inventory of approximately 1,200 cubic meters of mixed waste. Three key activities in the management of the various Mixed Waste (MW) streams are storage, treatment (including any characterization activities required prior to treatment), and disposal. A breakdown of these activities is provided below.

Mixed waste receipt and storage activities include:

- a) Receipt of newly generated waste.
- b) Verification that the waste meets the facility waste acceptance criteria.
- c) Placement of the waste in storage and the surveillance and maintenance (S&M) of the stored waste.

Waste treatment activities are conducted to treat the waste prior to disposal to ensure that the requirements of RCRA and the FFCAct of 1992 are met. These activities include:

- a) Characterization and preparation for CIF treatment of a large portion of the legacy waste. This includes most of the following waste streams: SR W035, W078, W045, W001, W003, W071, W018, W051, W012, W055, and W070. (Numbers refer to waste stream identification in the STP.)
- b) Characterization and preparation of non-CIF waste streams for offsite shipment and treatment including Pb (SR W069), debris (SR W062 and SR W073), and Ag Saddles (SR W009)

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Disposal of treated MW activities include:

- a) Identifying the most equitable and best technical location for disposal of the entire SRS MW inventory.
- b) Characterizing, preparing, and shipment of treatment residuals for disposal.

Technical Approach:

Mixed Waste is and will continue to be stored in RCRA regulated storage facilities until it can be treated and/or disposed.

The surveillance and maintenance activities at Mixed Waste facilities are a continual effort that include container inspections as required by RCRA, effluent monitoring and verification of containment to ensure no hazardous or radioactive material releases occur, grounds and equipment maintenance and remedial actions to prevent environmental releases from degraded containers.

Characterization and waste preparation activities for treatment or disposal will be expanded to include non-CIF waste streams. Identification of an existing facility was completed in FY1998 with characterization and waste preparation activities slated to begin in FY2001. Initial waste streams to undergo characterization and offsite treatment include W062 and W069

Investigation of treatment activities for the non-incinerable MW is an on-going process, with a review of options planned to be conducted annually. This review will identify and evaluate the feasibility to use commercial vendors to treat the waste. Capabilities to treat waste onsite will be further evaluated to identify treatments that could be set up in existing permitted facilities.

Investigation of treatment activities with other sites in the DOE complex will also be performed annually. These include the use of ORNL to treat PCB and PCB contaminated waste.

An options analysis for the transport and disposal of MW is scheduled to be performed during FY1999 with this activity repeated periodically to update or optimize the disposal process. The goal for disposal of the first treated MW is planned to occur during FY2000 focusing on streams that are currently treated and in storage pending identification of an appropriate disposal site (SR W015, W023, W024, and ashcrete/blowcrete). All activities associated with meeting a disposal site's waste acceptance criterion will be completed.

Varying cost and risk reductions can be achieved through the use of technology deployment as follows:

- a) Development and deployment of treatment processes for MLLW Soils (SRS need number SR-1002). This will provide the treatment processes and equipment to remove/immobilize radiological and hazardous constituents from large quantities of MLLW soils.
- b) Development and deployment of equipment and techniques for characterization of radiological and hazardous constituents and concentrations in mixed waste streams (SRS need SR-1003).
- c) Development and deployment of processes and equipment to amalgamate large quantities of radioactive elemental mercury generated at DWPF, (SRS need SR-1006), provides significant cost and risk reduction.

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Project Status in FY 2006:

Storage of legacy waste will continue through and beyond FY 2006. Once treatment and disposal options are identified and implemented, the volume of legacy waste in storage should start to decrease with much of this waste being treated or disposed by the end of FY2006.

Space will continue to be provided for the interim storage or staging of newly generated MW awaiting treatment or disposal. This includes the storage of liquid waste in the solvent tanks.

Characterization and preparation for CIF treatment of a large portion of the legacy waste is scheduled to be completed by FY2006. This includes most of the following waste streams: SR W035, W078, W045, W001, W003, W071, W018, W051, W012, W055, and W070. Characterization and preparation for non-CIF treatment (such as W062 and W069) is also scheduled to be completed by FY2006. The treatment of the majority of the legacy waste in waste streams W062 and W069 should be completed by offsite vendor(s) by the end of FY2006.

Post-2006 Project Scope:

Storage of MW will continue beyond FY 2006 until all waste is treated and ultimately disposed. Activities will include the following:

- a) Tritiated Oil will remain in storage until the tritium decays sufficiently or until appropriate treatment technologies are developed.
- b) Space will continue to be provided for the interim storage or staging of newly generated MW awaiting treatment or disposal. The storage of existing legacy liquid waste in the solvent tanks will continue through FY2017.
- c) Surveillance and monitoring activities for all storage buildings are a continual effort. Other activities pertaining to the operation of storage buildings include but are not limited to general facility maintenance, maintenance of boundary fences, markings and notices, inspection and data collection at sumps and wells, and the maintenance of the associated records.
- d) A review of treatment options will continue to occur on an annual basis if needed.
- e) Options analysis for the transport and disposal of MW will continue to be completed periodically to update or optimize the disposal process.
- f) All activities associated with meeting a disposal site's waste acceptance criterion will be completed.
- g) The disposal of ashcrete and other newly generated waste streams will continue until all treated MW is disposed

Project End State

The MW Project is projected to reach End State by FY2032 with the exception of the continued storage and disposal of Tritiated Oil. Tritiated Oil will remain in storage until the tritium decays sufficiently or until appropriate treatment technologies are developed.

Cost Baseline Comments:

Budget is generally consistent with data in the Solid Waste Baseline. Fully funding all Site Treatment Plan (STP) is the key driver behind the cost estimates. Escalation of 2.7% is assumed in the outyear budgets.

Safety & Health Hazards:

The project is currently in the operational phase for receipt and storage of MW which contains the S&H functions necessary to maintain a safe, compliant and operable building in compliance with the authorization basis and federal and state environmental regulations. The principle hazards in these buildings are associated with the storage of radiological and chemically contaminated waste. These wastes pose a radiological and/or chemical

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Project Description Narratives

hazard to workers which could result in the spread of contamination if the containers are breached. In addition, workers can be expected to encounter normal occupational hazards, e.g., moving waste containers, electrical, lifting, tripping, or falls. These hazards will persist throughout the operational life of the buildings. In the closure and/or decommissioning of the MW storage buildings, the principle hazards include normal occupational safety hazards related to building deconstruction and soil remediation.

Safety & Health Work Performance:

Activities and check points are described by the Integrated Management System Description. The conditions and requirements are clearly established and agreed upon prior to the starting 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, and provide feedback on adequacy of controls and continue to improve safety management. The WSRC Integrated Procedures Management System 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.

PBS Comments:

Adequately covered in previous narratives.

Baseline Validation Narrative:

General PBS Information

Project Validated?

Date Validated:

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
	N	Y	N	N	N	Y	Y	N

Project Identification Information

DOE Project Manager: William L. Noll III

DOE Project Manager Phone Number: 803-725-2219

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General PBS Information

DOE Project Manager Fax Number: 803-725-1440
DOE Project Manager e-mail address: william.noll@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	
PBS Baseline (current year dollars)	66,446	195,119	261,565	7,274	7,274	2,847	2,847	4,994	5,845	5,528	6,997	7,974	7,200	10,596	7,191	
PBS Baseline (constant 1999 dollars)	60,230	106,109	166,339	7,274	7,274	2,847	2,847	4,994	5,642	5,150	6,348	7,044	6,193	8,874	5,864	
PBS EM Baseline (current year dollars)	66,446	195,119	261,565	7,274	7,274	2,847	2,847	4,994	5,845	5,528	6,997	7,974	7,200	10,596	7,191	
PBS EM Baseline (constant 1999 dollars)	60,230	106,109	166,339	7,274	7,274	2,847	2,847	4,994	5,642	5,150	6,348	7,044	6,193	8,874	5,864	
	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)	5,829	6,589	4,956	4,821	27,241	30,007	33,695	49,655	32,326	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	4,629	5,095	3,731	3,534	18,449	17,789	17,482	22,550	12,850	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	5,829	6,589	4,956	4,821	27,241	30,007	33,695	49,655	32,326	0	0	0	0	0	0	0

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	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 EM Baseline (constant 1999 dollars)	4,629	5,095	3,731	3,534	18,449	17,789	17,482	22,550	12,850	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%
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: 9/30/2032

Current Projected End Date of Project: 9/30/2032

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	238,453	Actual 1997 Cost:	7,274	Actual 1998 Cost:	2,847
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	228,332	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			6,165
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	234,497				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

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Project Reconciliation

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

Cost Growth Associated with Scope Previously Reported (+): -78,279 Revised (lower) estimates for disposal costs. Picked up smaller share of allocable PM costs.

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: 156,218

Additional Amount to Reconcile (+): 0

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **156,218**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Complete Detailed Design for MW Upgrades facility	SR-SW03-063		4/30/1999		4/30/1999						
Complete Treatment of STP Waste Stream SR-W031	SR-SW03-055		6/30/1999		6/30/1999						
Determine Feasibility of Deconning SR-WO13 on Site	SR-SW03-057		6/30/1999		6/30/1999						
Establish Disposal Path for Treated Mixed Waste	SR-SW03-028		9/30/1999		9/30/1999						
Issue RFP for Decon of SR-WO13 if Necessary	SR-SW03-060		9/30/1999		9/30/1999						
Issue RFP for Macroencapsulation of Silver Saddles	SR-SW03-056		9/30/1999		9/30/1999						
Project Mission Complete	SR-SW03-005		9/30/2032								
Submit Ship Schedule 90 day INEEL approval	SR-SW03-053		11/16/1998			11/16/1998					
Submit Ship Schedule within 90-day of OR TSCAI approval	SR-SW03-086		9/30/1999		9/30/1999						
Submit Treatment Path Forward to SCDHEC for SR-WO82	SR-SW03-059		7/30/1999		7/30/1999						
Submit Treatment Path Forward to SCDHEC for SR-WO83	SR-SW03-058		3/26/1999		7/15/1999						

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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
Submit a Treatability Variance for SR-WO73	SR-SW03-054		9/30/1999		9/30/1999						
Complete Mixed Waste Facility Upgrade Project	SR-SW03-007		9/30/2000								
Complete Decontamination of SR W013 Low Level Lead	SR-SW03-006		9/30/2006								
Complete Offsite Treatment&Disp of Contaminated Soils&Comp Treat&Disposal of Tritiated Oil w/Mercury	SR-SW03-004		9/30/2029								
Meet All STP Commitments - Annual	SR-SW03-003		9/30/2000								
Complete Mixed Waste Program Activities	SR-SW03-002		9/30/2032								
Project Start	SR-SW03-001		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
Complete Detailed Design for MW Upgrades facility	SR-SW03-063										
Complete Treatment of STP Waste Stream SR-W031	SR-SW03-055										
Determine Feasibility of Deconning SR-WO13 on Site	SR-SW03-057										
Establish Disposal Path for Treated Mixed Waste	SR-SW03-028										
Issue RFP for Decon of SR-WO13 if Necessary	SR-SW03-060										
Issue RFP for Macroencapsulation of Silver Saddles	SR-SW03-056										
Project Mission Complete	SR-SW03-005										

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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
Submit Ship Schedule 90 day INEEL approval	SR-SW03-053										
Submit Ship Schedule within 90-day of OR TSCAI approval	SR-SW03-086										
Submit Treatment Path Forward to SCDHEC for SR-WO82	SR-SW03-059										
Submit Treatment Path Forward to SCDHEC for SR-WO83	SR-SW03-058										
Submit a Treatability Variance for SR-WO73	SR-SW03-054										
Complete Mixed Waste Facility Upgrade Project	SR-SW03-007										Complete Mixed Waste Facility Upgrade Project
Complete Decontamination of SR W013 Low Level Lead	SR-SW03-006										Complete Decontamination of SR W013 Low Level Lead
Complete Offsite Treatment&Disp of Contaminated Soils&Comp Treat&Disposal of Tritiated Oil w/Mercury	SR-SW03-004										Complete Offsite Treatment and Disposal of Contaminated Soils and Complete Treatment and Disposal of Tritiated Oil with Mercury
Meet All STP Commitments - Annual	SR-SW03-003										Meet All STP Commitments - Annual
Complete Mixed Waste Program Activities	SR-SW03-002					Y					Complete Mixed Waste Program Activities
Project Start	SR-SW03-001			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

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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
MLLW														
Treatment	M3	219.20	178.66	397.86	0.00		0.00	0.00	0.00	0.00	6.00	63.70	60.60	64.40
MLLW														
Storage	M3							697.50	709.92	1,429.24	1,000.40	652.70	550.90	477.50
MLLW														
On-Site Disp.	M3	0.00	0.00	0.00	0.00		0.00							
MLLW														
Comm. Disp.	M3	0.00	0.00	0.00	0.00		0.00							
MLLW														
Ship to DOE Disp.	M3	0.00	0.00	0.00	0.00		0.00							
MLLW														
TBD Disp.	M3	1,802.81	2,206.58	4,009.39				0.00	0.00	58.00	520.02	424.90	303.85	198.50
LLW														
Storage	M3							0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tech.														
Deployed	Ntd	1.00	0.00	1.00										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	
MLLW														
Treatment	M3	64.40	17.00	7.50	2.30	40.10	2.30	9.96	27.35	27.35	27.35	41.95		
MLLW														
Storage	M3	477.30	224.70	219.50	219.70	219.78	181.50	48.80	48.20	48.20	48.20	0.00	0.00	

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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
MLLW													
On-Site Disp.	M3												
MLLW													
Comm. Disp.	M3												
MLLW													
Ship to DOE Disp.	M3												
MLLW													
TBD Disp.	M3	198.50	143.69	153.85	134.70	124.40	65.08	24.40	399.40	398.80	398.80	379.00	282.00
LLW													
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70	3.70	0.00	0.00
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			
MLLW													
Treatment	M3									702.86			
MLLW													
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
MLLW													
On-Site Disp.	M3									0.00			
MLLW													
Comm. Disp.	M3									0.00			
MLLW													
Ship to DOE Disp.	M3									0.00			

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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
MLLW										
TBD Disp.	M3									4,009.39
LLW										
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Tech.										
Deployed	Ntd									1.00

Technology Needs

Site Need Code: SR99-1002

Site Need Name: Treatment for MW Soils to Immobilize Radionuclides and RCRA Constituents for Disposal

Focus Area Work Package ID: MW-08

Focus Area Work Package: Facilitating Deployment for Unique Wastes

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01906: MAQ - Listed/char. soils/sludges

Y

N

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Technology Needs

Site Need Code: SR99-1003

Site Need Name: Improvements to Physical, Chemical, and Radionuclide Quantification of Solid Waste

Focus Area Work Package ID: MW-05

Focus Area Work Package: Payload Enhancement for Transporting TRU Waste within Restrictive Regulatory Limits

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Nondestructive Waste Assay Using Combined Thermal Epithermal Neutron Interrogation

Characterization of RCRA Material Non-Destructive Assay Development

Characterization of Remote-Handled Waste Drums using High Speed Neutron Detectors

Characterization of Remote - Handled Waste Drums using Multi Detector Analysis System

Characterization of Contact-Handled Waste Containers for RCRA Material using Pulsed Fast Thermal Neutron Analysis

Characterization of Remote-Handled Drums using Radio-Frequency Quadrupole (RFQ) Based Active Neutron Interrogation

Nondestructive Waste Assay Using Gamma-Ray Active and Passive Computed Tomography

NDA of Boxes Containing TRU Waste

Characterization - Crate Surrogates

Expert System Development for NDA Data Validation

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

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

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Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Savannah River**

Site Summary Level: **Savannah River Site**

Project **SR-SW03 / Mixed Low Level Waste Project**

Report Number: **GEN-01b**

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

HQ ID: **0481**

Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00568: TAF - Low Activity TRU HEPAs Requiring Processing	Y	N
00565: TAC - Low Activity TRU Drums Requiring Processing	Y	N
00572: TAJ - Remote Handled Waste Requiring Treatment	Y	N
00570: TAH - Carbon Steel Containers and Casks Requiring Processing	Y	N
00567: TAE - High Activity Drums Requiring Treatment	Y	N
00566: TAD - High Activity TRU Drums Requiring Processing	Y	N
00569: TAG - High Activity TRU HEPAs Requiring Treatment	Y	N
00571: TAI - Carbon Steel Containers and Casks Requiring Treatment	Y	N
00564: TAB - <100nCi/g Alpha Contaminated (mixed) Drums	Y	N
00563: TAA - <100 nCi/g Alpha Contaminated (non-mixed) Drums	Y	N

Site Need Code: SR99-1006

Site Need Name: Large-scale Treatment of DWPF Mercury (STP waste stream SR-W061)

Focus Area Work Package ID: MW-02

Focus Area Work Package: Treatment and Stabilization Alternative for Hg Bearing Mixed Waste

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Mercury Contamination - Amalgamate Mercury (contract with NFS and ADA)

Stabilization of Mercury Using Sulfur Polymer Cement

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01904: -	Y	N
01903: MAN - Hg contam. wastes	Y	N

Dataset Name: **FY 1999 Planning Data**

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

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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: **0481**

Project **SR-SW03 / Mixed Low Level Waste Project**

Technology Needs

Site Need Code: SR99-1013

Site Need Name: Capability for remote handled size reduction of large equipment Mixed/Low Level Waste

Focus Area Work Package ID: MW-03

Focus Area Work Package: Handling Mixed Waste Contaminated Materials During Characterization, Treatment, Packaging, and Disposal

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Mechanical Systems - Evaluation of Technologies for Sorting, Size-Reduction and Handling (SSH) of Mixed Wastes

Mechanical Systems - Adaptation and Development of Size Reduction Equipment for Remote Handled Waste

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00535: LAI - Contaminated Large Equip to Size Reduction

Y

N

Technology Deployments

Deployment Year

Deployment Status

Planned

Forecast

Actual Date

Technology Name: Mercury Contamination - Amalgamate Mercury (contract with NFS and ADA)

Potential Deployment

2003