

# *Project Baseline Summary Report*

Data Source: **EM CDB**  
Operations/Field Office: **Savannah River**  
Site Summary Level: **Savannah River Site**  
Project **SR-SW04 / Low Level Waste Project**

Report Number: **GEN-01b**  
Print Date: **3/9/2000**  
HQ ID: **0482**

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## **General Project Information**

### **Project Description Narratives**

#### **Purpose, Scope, and Technical Approach:**

##### Purpose:

The Low-Level 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. Also, SRS receives Low-Level Waste from the Naval Reactors Program and offsite generators for disposition.

LLW consists of radioactively contaminated materials such as miscellaneous job control waste, small and large equipment, plastic sheeting, gloves, soil and suspect contaminated materials that were used within a radioactive material management area and cannot be proven to be free of radioactive contamination.

At SRS Low Level Waste is classified as long-lived, intermediate-level waste, and low-activity waste. Long-lived waste has higher quantities of long-lived isotopes (such as carbon-14) that could cause environmental impacts if not properly controlled. Intermediate-level waste consists of waste material that radiates greater than 200 millirem per hour from an unshielded engineered metal container at 5 centimeters. Intermediate-level waste is further differentiated by the presence of tritium. Low-activity waste consists of waste material that radiates less than 200 millirem per hour from an unshielded engineered metal container at 5 centimeters. The LLW Program does not accept liquid waste, wastes containing transuranic radionuclides greater than 100 nCi/g, or mixed waste for storage and disposal.

The Low Level Waste project will be managed with the overall goal of treatment and disposal such that there is no legacy stored waste and there is capability and capacity to cost effectively treat and/or dispose of newly generated wastes. This will be accomplished by identifying, and either developing or contracting, appropriate treatment and disposal technologies where present capabilities are not adequate.

##### Definition of Scope:

The scope of Low Level Waste Project encompasses those activities and resources required for the safe, environmentally sound operations of the Solid Waste Low level Waste facilities which will receive approximately 8,000 cubic meters of low level waste annually in FY99, and 6,300 cubic meters annually thereafter, with the exception of larger volumes of ER waste (soil, rubble) forecast for FY02 and FY06/07. The primary isotopes of concern are tritium, cesium 137, iodine 139, strontium 90, and plutonium 238 & 239, which are extremely toxic.

Low level waste receipt and storage activities include:

- a) Surveillance and maintenance (S&M) of legacy waste in storage.
- b) Receipt of newly generated waste.
- c) Sort and segregate newly generated and legacy waste.
- d) Treatment of the waste, including volume reduction, as required.
- e) Verification that the waste meets the facility waste acceptance criteria.
- f) Placement of the waste in the appropriate disposal repository.
- g) Construction and operation of additional disposal capacity.
- h) Surveillance and maintenance (S&M) of the storage and disposal units.

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## **Project Description Narratives**

Note: The waste volumes managed by the Solid Waste Management Division (SWM) include wastes generated throughout the Savannah River Site. The volumes reflected in this project includes those wastes generated by divisions other than SWM.

### Technical Approach:

The E Area Vault facility (EAV) consists of a Low Activity Waste (LAW) vault, an Intermediate-Level Non-Tritium (ILNT) vault, an Intermediate-Level Tritium (ILTV) vault, a Long-Lived Waste Storage Building, and slit trenches for contaminated soil and rubble. A Sort and Segregate facility for legacy and newly generated low level wastes was completed in FY98. All Low level wastes are planned to be disposed as they are generated with the exception of Heat exchangers, Reactor deionizers, and Naval reactor components, which are being stored. In FY1999 the largest portion of stored waste is that awaiting treatment or sort and segregation. In addition material awaiting disposition (Contaminated Large Equipment) which has not been declared waste is being stored. Naval Reactor components and other large equipment are stored awaiting results of composite PA required as part of DNFSB 94-2 follow-up for shallow land disposal. Large equipment will continue to be stored until final implementation of the Savannah River Site Large Equipment Disposition Plan. Currently no disposal method exists for the long-lived waste. It is either being kept by the generator or stored on pads in the existing Solid Waste Disposal Facility until treatment and/or disposal technologies can be developed. This project includes development and implementation of this technology. The Consolidated Incineration Facility LLW ashcrete and stabilized blowdown will be disposed of in trenches.

There are two categories of soils currently disposed of in the SWDF Slightly contaminated soil and rubble is disposed of directly in slit trenches near the Intermediate Level Vault. Soil and rubble exceeding shallow land disposal acceptance criteria is containerized and disposed of in the ILTV or ILNT as appropriate.

Improved volume reduction capabilities are essential in optimizing utilization of existing disposal capacity. An on-site Super compactor facility is scheduled to begin operation in the 3rd Qtr. of FY1999. This facility will process/size reduce up to 90% of existing and newly generated Low-Level Job Control/Bulk Waste from the Waste Sort Facility. Volume reduction ratios are reasonably expected to reach or exceed 6:1. For LLW at the CIF, VR ratios of 20:1, or more, can be expected.

Surveillance and maintenance for the Low Level Waste facilities includes container inspections as required by DOE Order 5820.2A, effluent monitoring and verification of containment to ensure no radioactive material releases occur, grounds and equipment maintenance and remedial actions to prevent environmental releases from degraded containers.

Waste treatment activities are conducted to treat the waste prior to disposal to ensure that the most cost effective volume reduction is employed to reduce the total lifecycle costs. These activities include onsite treatment such as incineration (CIF), shredding and compaction and preparation for offsite shipment and treatment. This PBS assumes a SW Super-Compaction Facility is available in the 3rd Quarter of FY99. These components will contribute to significant savings of vault space when successfully completed. Low level waste disposal facilities which meet performance assessment objectives required by DOE Order 5820.2A are designed to reduce releases over the life of the facility and ensure low exposures to the workers and public.

Significant cost reduction can be achieved if the Performance Assessments Conservatism Reduction Models (SRS need number SR-1008), technical development project is successfully completed. This project will develop an alternative model for removing conservatism in existing Performance

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## Project Description Narratives

Assessment Limits for Disposal of LLW. It will reduce or eliminate the need for developing extensive design packaging requirements for some wastes to meet existing facilities disposal WACs. The plan for these activities has an FY99 scheduled completion.

Significant improvement in the handling/disposal of Contaminated Large Equipment(CLE) can be achieved by developing a capability to remote handle/size reduce CLE (SRS need number SR-1013), on site. In particular, the remote removal of lead counterweights from separations equipment (jumpers, pumps, etc.), will make this equipment amenable for treatment and disposal as LLW.

If the technical development project for Low Level Waste (SRS need number SR-1009), Spent Deionizer Resins Treatment, is successfully completed, it will provide treatment technology needed to treat/immobilize spent deionizer resins and other long lived waste to meet disposal PA requirements. No current means of disposal of this waste exists and it must be stored indefinitely

### Project Status in FY 2006:

Low Level Waste storage, treatment, and disposal activities will continue beyond FY2006.

Steady State operation is scheduled to be reached in FY2010, with the exception of legacy Contaminated Large Equipment and spent deionizers, in storage. New waste will be treated and disposed to support ongoing site missions.

### Post-2006 Project Scope:

The second generation disposal unit design and construction is scheduled to be started in FY2004. The units are to support a new site tritium production mission (if needed), and other site missions.

### Project End State

Project End State will occur following the completion of all missions at SRS that generate Low Level Waste. When all Low Level Waste has been disposed of, all facilities will be closed.

### Cost Baseline Comments:

- a. It is assumed that the CIF is funded at a level to support the incineration of LLW and the Waste Sort Facility is funded for operations. Otherwise, LLW disposal capacity will be exceeded by approximately FY2001 and a new LAW disposal unit will be required.
- b. It is assumed that the On-Site Super-Compactor Facility will be operational in the 3rd Qtr. FY1999.
- c. The Tritium Extraction Facility currently planned to startup in FY2005 will require a new ILW disposal unit to be available. This plan assumes that the EM Program will fund the TEF as planned and fund the construction of the disposal unit when required.
- d. Escalation assumed at 2.7% each year.
- e. Chargeback allocation level after FY99.

### Safety & Health Hazards:

The program is currently in the Operations phase. To ensure Safety and Health for every Low Level Waste related activity, safety documentation is developed, process hazard reviews are performed, operating procedures are put in place, and the necessary job training is provided. Hazard

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## Project Description Narratives

Assessment Documents, a Safety Analysis Report, Process Hazards Review, and Emergency Preparedness Program, and a Health and Safety Plan are elements of the Low Level Waste program. For vendors performing work for the program, the same requirements exist, as well as a vendor supplied Health and Safety Plan. The principle hazards in the Low Level Waste program are low levels of radiation in the movement and handling of low level waste containers/packages, and in the use/proximity of the equipment (trucks, fork lifts, cranes, earth movers), used to handle containers and excavate/backfill disposal trenches. Workers can also be expected to encounter normal occupational hazards in the workplace, such as tripping, falls/slips, and lifting. These hazards will exist for the life of the program. No additional hazards are anticipated during closure activities. End state hazards will involve normal occupational safety hazards related to custodial activities.

### 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

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

<b>Drivers:</b>	<b>CERCLA</b>	<b>RCRA</b>	<b>DNFSB</b>	<b>AEA</b>	<b>UMTRCA</b>	<b>State</b>	<b>DOE Orders</b>	<b>Other</b>
	N	N	Y	Y	N	N	Y	N

## Project Identification Information

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## General PBS Information

**DOE Project Manager:** William L. Noll  
**DOE Project Manager Phone Number:** 803-725-2219  
**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)

	<b>1997-2006 Total</b>	<b>2007-2070 Total</b>	<b>1997-2070 Total</b>	<b>1997</b>	<b>Actual 1997</b>	<b>1998</b>	<b>Actual 1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	
PBS Baseline (current year dollars)	142,774	662,921	805,695	7,053	7,053	7,926	7,926	12,150	9,947	12,058	35,388	10,904	12,983	12,329	22,036	
PBS Baseline (constant 1999 dollars)	129,166	361,597	490,763	7,053	7,053	7,926	7,926	12,150	9,601	11,235	32,105	9,632	11,167	10,326	17,971	
PBS EM Baseline (current year dollars)	142,774	662,921	805,695	7,053	7,053	7,926	7,926	12,150	9,947	12,058	35,388	10,904	12,983	12,329	22,036	
PBS EM Baseline (constant 1999 dollars)	129,166	361,597	490,763	7,053	7,053	7,926	7,926	12,150	9,601	11,235	32,105	9,632	11,167	10,326	17,971	
	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011- 2015</b>	<b>2016- 2020</b>	<b>2021- 2025</b>	<b>2026- 2030</b>	<b>2031- 2035</b>	<b>2036- 2040</b>	<b>2041- 2045</b>	<b>2046- 2050</b>	<b>2051- 2055</b>	<b>2056- 2060</b>	<b>2061- 2065</b>	<b>2066- 2070</b>
PBS Baseline (current year dollars)	22,825	22,872	15,159	18,533	84,967	100,983	113,427	242,963	10,498	17,430	11,053	2,211	0	0	0	0
PBS Baseline (constant 1999 dollars)	18,125	17,684	11,413	13,586	57,543	59,861	58,852	110,338	4,174	6,064	3,367	590	0	0	0	0
PBS EM Baseline (current year dollars)	22,825	22,872	15,159	18,533	84,967	100,983	113,427	242,963	10,498	17,430	11,053	2,211	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)	18,125	17,684	11,413	13,586	57,543	59,861	58,852	110,338	4,174	6,064	3,367	590	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: 3/31/2029

Current Projected End Date of Project: 3/31/2029

### Explanation of Project Completion Date Difference (if applicable):

Extended schedule to cover the Tritium Extraction Facility

### Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	275,923	Actual 1997 Cost:	7,053	Actual 1998 Cost:	7,926
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	260,944	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			7,045
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	267,989				

### 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 (+):	207,790
Cost Growth Associated with Scope Previously Reported (+):	New waste forecast and extended lifecycle schedule and costs for the Tritium Extraction Facility TEF
Cost Reductions Due to Science & Technology Efficiencies (-):	
<b>Subtotal:</b>	<b>475,779</b>
<b>Additional Amount to Reconcile (+):</b>	<b>5</b>
<hr/>	
<b>Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):</b>	<b>475,784</b>

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Complete Installation & Startup of Supercompactor	SR-SW04-079		5/31/1999		4/26/1999						
Complete Installation of VZMS Phase 1A	SR-SW04-077		9/30/1999		9/30/1999						
Complete VZMS Implementation Plan	SWC78		2/26/1999		2/26/1999						
Project Mission Complete	SR-SW04-010		3/31/2029								
Update Stored LLW Disposition Plan	SR-SW04-080		4/30/1999		4/30/1999						
Project Start	SR-SW04-001		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 Installation & Startup of Supercompactor	SR-SW04-079										
Complete Installation of VZMS Phase 1A	SR-SW04-077										
Complete VZMS Implementation	SWC78									Y	

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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
Plan											
Project Mission Complete	SR-SW04-010				Y						
Update Stored LLW Disposition Plan	SR-SW04-080										
Project Start	SR-SW04-001			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
<b>LLW</b>														
<b>Treatment</b>	M3	34,089.01	70,161.16	104,250.17	0.00		0.00	960.00	2,299.41	4,515.00	4,515.00	4,515.00	4,515.00	4,467.00
<b>LLW</b>														
<b>Storage</b>	M3							17,245.65	19,006.84	17,844.60	14,834.08	13,946.82	13,173.17	11,962.00
<b>LLW</b>														
<b>On-Site Disp.</b>	M3	39,262.54	42,552.75	81,815.29	0.00		0.00	995.48	3,600.28	2,835.65	5,080.27	7,477.80	2,543.37	2,506.50
<b>LLW</b>														
<b>Comm. Disp.</b>	M3	0.00	14,331.38	14,331.38	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Rem. Waste</b>														
<b>Disposed</b>	M3	0.00	756.01	756.01				0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Tech.</b>														
<b>Deployed</b>	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	

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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
<b>LLW</b>													
<b>Treatment</b>	M3	4,467.00	4,050.00	4,252.60	4,050.00	4,050.00	4,050.00	5,732.49	16,076.62	14,160.83	14,160.83	7,880.39	0.00
<b>LLW</b>													
<b>Storage</b>	M3	11,962.07	11,703.51	10,157.89	9,301.15	8,172.36	6,835.38	4,178.57	1,876.33	2,131.76	2,080.16	19.91	19.91
<b>LLW</b>													
<b>On-Site Disp.</b>	M3	2,506.59	2,386.49	11,836.61	11,843.49	2,192.09	1,824.05	1,908.44	7,245.58	6,718.04	6,716.54	4,104.52	
<b>LLW</b>													
<b>Comm. Disp.</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	1,504.92	3,689.05	3,689.05	3,689.05	1,759.31	
<b>Rem. Waste</b>													
<b>Disposed</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	41.86	209.30	209.30	209.30	86.25	
<b>Tech.</b>													
<b>Deployed</b>	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			
<b>LLW</b>													
<b>Treatment</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111,425.76			
<b>LLW</b>													
<b>Storage</b>	M3	19.91	19.91	19.91	19.91	19.91	19.91	19.91	19.91				
<b>LLW</b>													
<b>On-Site Disp.</b>	M3									88,382.53			
<b>LLW</b>													
<b>Comm. Disp.</b>	M3									14,331.38			
<b>Rem. Waste</b>													
<b>Disposed</b>	M3									756.01			

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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
<b>Tech.</b>										
<b>Deployed</b>	Ntd									1.00

## 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

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

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

00535: LAI - Contaminated Large Equip to Size Reduction

Y

N

**Site Need Code:** SR99-1024

**Site Need Name:** EAV Disposal Facility Monitoring System for PA Validation and Compliance with DOE Orders

**Focus Area Work Package ID:**

**Focus Area Work Package:**

**Focus Area:**

**Agree with Technology Link:** N

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

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

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## Technology Needs

Vadose Zone Monitoring System 0

## Technology Deployments

Deployment Year		
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<u>Deployment Status</u>	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
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**Technology Name:** Vadose Zone Monitoring System

Deployment Commitment	2000		
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