

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Savannah River**

Site Summary Level: **Savannah River Site**

Project **SR-FA08 / P Reactor Deactivation Project**

Report Number: **GEN-01b**

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

HQ ID: **0505**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

This PBS was recently established to capture the costs associated with the disposition life cycle phase of all surplus solid waste processing and storage facilities, such as CIF and Saltstone. Disposition costs of these facilities, which includes the deactivation and long term monitoring life cycle phases, was not considered in earlier versions of the PtC. Since the issuance of the last PtC version, WSRC has established a Facilities Disposition Council chaired by the Facilities Decommissioning Division. The solid waste program has a representative on the Council. Solid waste program facilities will be operational well beyond FY2006. The solid waste program has initiated efforts to identify the end of operations dates for all facilities now funded by the operating PBSs. As dates are established, costs for outyear surveillance and maintenance and deactivation will be estimated and added to this PBS. Future revisions to this PBS will attempt to add detail to the framework established here.

Project Status in FY 2006:

None.

Post-2006 Project Scope:

According to current plans, the solid waste program mission will end in the FY2028 - FY2032 time frame. In future revisions to the PtC, disposition of specific surplus solid waste program facilities will be addressed.

Project End State

Surplus solid waste program facilities will be deactivated and placed in a low cost surveillance and maintenance state to protect safety and health pending future decommissioning. Terminal end states for the facilities cannot yet be determined.

Cost Baseline Comments:

Safety & Health Hazards:

Safety & Health Work Performance:

PBS Comments:

As of the end of FY96, all spent fuel and irradiated targets located in the P Area disassembly basin have been relocated to K Area. In addition, all irradiated cadmium control rods have been removed and packaged, and have been moved to an interim storage location in E Area. As of the end of FY97, personnel housed in P Area have been relocated elsewhere on Site. Power use has been minimized, and domestic water and sewer, steam, and process water systems have been closed. Also in FY97, the P Area gas station tanks were excavated and staged for excess sale. The P Area

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Project Description Narratives

powerhouse has been sold to a salvage company, and should be demolished by the end of FY98.

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? No

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

Project Identification Information

DOE Project Manager:
DOE Project Manager Phone Number:
DOE Project Manager Fax Number:
DOE Project Manager e-mail address:
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)	0	16,125	16,125						0	0	0	0	0	0	0

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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	
	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 (constant 1999 dollars)	0	11,441	11,441						0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	16,125	16,125						0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	11,441	11,441						0	0	0	0	0	0	0	0
PBS Baseline (current year dollars)	770	1,033	2,145	3,029	9,148	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	611	799	1,615	2,220	6,196	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	770	1,033	2,145	3,029	9,148	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	611	799	1,615	2,220	6,196	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
			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

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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: 6/1/2012

Current Projected End Date of Project: 6/1/2012

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	11,139	Actual 1997 Cost:		Actual 1998 Cost:	
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	11,139	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			301
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	11,440				

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 (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	11,440	
Additional Amount to Reconcile (+):	1	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	11,441	

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Project **SR-FA08 / P Reactor Deactivation Project**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
P Reactor Deactivated	SR-FA08-003		12/1/2011								
Project Mission Complete	SR-FA08-011		6/1/2012								
Project Start	SR-FA08-001		10/1/2006								

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
P Reactor Deactivated	SR-FA08-003		Y				1	1	1		
Project Mission Complete	SR-FA08-011				Y						
Project Start	SR-FA08-001			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
Fac.														
Deact. During Per.	NF	0.00	3.00	3.00										
Tech.														
Deployed	Ntd	0.00	18.00	18.00										
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	Planned 2004
Fac.														
Deact. During Per.	NF								3.00					
Tech.														
Deployed	Ntd					18.00								

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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
Fac.										
Deact. During Per.	NF									3.00
Tech.										
Deployed	Ntd									18.00

Technology Needs

Site Need Code: SR99-4014

Site Need Name: Basin Cleanup Technology

Focus Area Work Package ID: DD-10

Focus Area Work Package: Production Reactor D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Membrane-Supported Particle-Bound Ligands for Cesium Removal

Specialized Separation Utilizing 3M Membrane Technology

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01915: -

Y

N

00540: LAL - Special Case Waste

Y

N

00528: LAE - Incinerable Low Activity Job Control Waste

Y

N

Technology Deployments

Deployment Year

Deployment Status

Planned

Forecast

Actual Date

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Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
Technology Name: Laser Surface Cleaning			
Potential Deployment	2008		
Technology Name: Small Pipe Characterization System (SPCS)			
Potential Deployment	2008		
Technology Name: In Situ Chemical Treatment of Asbestos			
Potential Deployment	2008		
Technology Name: Airborne Laser Induced Fluorescence Imaging			
Potential Deployment	2008		
Technology Name: Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)			
Potential Deployment	2008		
Technology Name: Portable X-Ray, K-Edge Heavy Metal Detector			
Potential Deployment	2008		
Technology Name: Thermal Conversion of Asbestos			
Potential Deployment	2008		
Technology Name: Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT			
Potential Deployment	2008		
Technology Name: 2-D Linear Motion System			
Potential Deployment	2008		

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<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
Technology Name: Portable X-Ray Fluorescence Spectrometer			
Potential Deployment	2008		
Technology Name: Mobile Automated Characterization System			
Potential Deployment	2008		
Technology Name: Pipe Crawler Internal Piping Characterization System			
Potential Deployment	2008		
Technology Name: Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)			
Potential Deployment	2008		
Technology Name: Pegasus Coating Removal			
Potential Deployment	2008		
Technology Name: Indoor Radiation Mapping Using Laser Assisted Ranging and Data System			
Potential Deployment	2008		
Technology Name: Ground Based Laser Induced Fluorescence Imaging			
Potential Deployment	2008		
Technology Name: Diamond wire cutting			
Potential Deployment	2008		
Technology Name: Reducing grout			
Potential Deployment	2008		

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