

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Savannah River**

Site Summary Level: **Savannah River Site**

Project **SR-IN01 / Plantwide Fire Protection Line Item**

Report Number: **GEN-01b**

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

HQ ID: **0100**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: The project will provide upgrades to existing facilities in various areas across the entire plant site. Upgrades include new or additional provisions to water supply and distribution systems, sprinkler suppression systems, standpipe and hose stations, manual and automatic fire alarm and detection systems, passive protection features, emergency lighting systems, and elevator recall functions. Upgrades will, or have been accomplished in 100-C, K, and L Areas; DWPF (S-Area); and miscellaneous A-Area, N-Area, G-Area and other areas of the site.

Technical Approach: Fire protection upgrades provided by this project are retrofitted installations to existing facilities. Fire Hazards Analyses have been used to identify deficiencies in major facilities; trained fire protection professionals have been used to identify technical requirements in other facilities. Design and installation of fire protection system upgrades conform to nationally accepted codes and standards. Where compliance is impossible or not considered practical, DOE-approved equivalencies and exemptions are used to document non-compliance.

Project Status in FY 2006:

Project complete

Post-2006 Project Scope:

N/A

Project End State

Project complete and turned over to operations.

Cost Baseline Comments:

The cost baseline for this project is a compilation of latest estimates for each subproject's scope of work. As the subprojects mature, estimates are upgraded to reflect current Estimates at Completion.

Safety & Health Hazards:

The Infrastructure Program facilitates use of Site general areas and provides for maintenance of common shared services such as roads, bridges, utility facilities, central sanitary facilities and etc. Infrastructure supports facilities that have chemical and radiological hazards, but does not generally participate in their control and monitoring. For Infrastructure, typically only those hazards associated with work at an industrial facility are present.

This project involves entry into contaminated areas, radiation fields, potential exposure to asbestos laden materials and other commercial/industrial hazards associated with construction in nuclear power plants. Each subproject associated with this project is subject to analysis and controls established under DOE direction and approval.

Safety & Health Work Performance:

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Project Description Narratives

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:

The mission of this project has recently been modified to provide only Life Safety upgrades, not to prevent programmatic delays or provide property protection. Some earlier installations under this project did provide features to prevent programmatic delays and property loss per the intent of the original project mission.

Baseline Validation Narrative:

Completed through DOE HQ Validation process for line items.

General PBS Information

Project Validated? Yes **Date Validated:** 6/25/1997
Has Headquarters reviewed and approved project? Yes
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	N	N	N	N	Y	Y	Y

Project Identification Information

DOE Project Manager: L. W. Tam
DOE Project Manager Phone Number: 803-725-5542
DOE Project Manager Fax Number: 803-725-3376
DOE Project Manager e-mail address: lawrence.tam@srs.gov

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General PBS Information

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)	28,947	0	28,947	8,056	8,056	5,043	5,043	11,917	3,881	50	0	0	0	0	0	
PBS Baseline (constant 1999 dollars)	28,809	0	28,809	8,056	8,056	5,043	5,043	11,917	3,746	47	0	0	0	0	0	
PBS EM Baseline (current year dollars)	28,947	0	28,947	8,056	8,056	5,043	5,043	11,917	3,881	50	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	28,809	0	28,809	8,056	8,056	5,043	5,043	11,917	3,746	47	0	0	0	0	0	
	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)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

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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: 9/1/2000

Current Projected End Date of Project: 9/30/2000

Explanation of Project Completion Date Difference (if applicable):

Difference in month accounting methods. Actual date given is 9/2000.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	29,459	Actual 1997 Cost:	8,056	Actual 1998 Cost:	5,043
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	16,360	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			442
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	16,802				

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 (+):	-5,075	Scope removed by DOE-SR in FY 1998.
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	11,727	

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Project Reconciliation

Additional Amount to Reconcile (+): 3,983

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 15,710

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Complete Separations Facilities Upgrades	SR-IN01-001		3/30/2000								
Complete Small Task Subproject	SR-IN01-002		4/28/2000								
Project Complete Line Item 90-D-149	SR-IN01-003		9/30/2000								
Project Start	SR-IN01-004		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 Separations Facilities Upgrades	SR-IN01-001						1		1		Final AFA, S-4610, Separations Facilities FP Upgrades by 03/31/00
Complete Small Task Subproject	SR-IN01-002						1		1		Final AFA, S-4827, Small Task Subproject by 4/28/00
Project Complete Line Item 90-D-149	SR-IN01-003				Y		1		1		Project Complete, Line Item 90-D-149 by 9/30/00
Project Start	SR-IN01-004			Y							