

Project Baseline Summary Report

Data Source: **EM CDB**
Operations/Field Office: **Savannah River**
Site Summary Level: **Savannah River Site**
Project **SR-DO01 / DOE Projects Line Item**

Report Number: **GEN-01b**
Print Date: **3/9/2000**
HQ ID: **0110**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: Bridges 603-2G and 603-3G are constructed on timber piles. Recent inspections show section loss on these piles ranging from 5 percent to 90 percent. The five-year inspection of SRS bridges has identified 603-2G and 603-3G to be in need of immediate replacement. Due to their inability to support designated loads, both of these bridges have been derated causing the rerouting and restriction of heavy loads including logging trucks, concrete trucks supporting ongoing construction, and the High Activity Waste Trailer that supports the Savannah River Technology Center. Currently these bridges must be monitored closely during the passage of very heavy loads and must be inspected twice yearly versus the normal AASHTO two year cycle, to assess the load carrying capacity and safety. These bridges require replacement in order to safely carry their design loads.

Annual maintenance and repair costs are estimated to be \$46,000. This includes cleaning of bridge deck, incidental striping and marking, bridge and road shoulder inspection, and maintenance of bridge bearing assemblies.

The project is projected to be complete fourth quarter, FY 1998.

1 Technical Approach: FY 1997 activities include completion of bridges 603-3G and 603-2G, second and third quarters respectively. Construction began on bridges 603-1G and 603-67G on 8/14/97. The support organizations will continue to monitor the construction progress and assess the environmental impacts due to the construction activities.

All bridge work will be completed during the second quarter of FY 1998. Closeout of all other project related activities should be completed by fourth quarter, FY 1998. Project closeout includes paying off the contractor, completing all project records (including as-built drawings) and placing them into records storage.

Project Status in FY 2006:

Project completion scheduled for fourth quarter, FY 1998.

Post-2006 Project Scope:

Project completion scheduled for fourth quarter, FY 1998.

Project End State

Project completion scheduled for fourth quarter, FY 1998.

Cost Baseline Comments:

The cost variance is due to lower construction contract spendout than anticipated. The scheduled work was based on Managing & Operating contractor's work plan which started physical work sooner. The project was assigned to the Corps of Engineers whose strategy was to perform the majority of the work in FY 1997 and FY 1998. Subsequently, the fixed-price contractor's schedule shows performing 90% of the work in FY 97.

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Project Description Narratives

Contingency of 20% was used due to previous bid history of higher than estimated prices and potential radiological concerns in the creeks.

Safety & Health Hazards:

The hazards associated with this project are typical of construction and traffic control. The Corps of Engineers along with their contractor will identify and analyze the hazards based on OSHA 29 CFR 1926, applicable portions of 29 CFR 1910, COE Safety Manual EM 385-1-1, American Association of State Highway and Transportation Official (AASHTO) standards and guidelines, South Carolina Department of Transportation standards and guidelines, and construction drawings and specifications.

Safety & Health Work Performance:

Contractor's Preparatory Inspection, Initial Inspection, Follow-Up Inspections, and Tool Box Safety Meetings.¹

PBS Comments:

The bridges are inspected in accordance with American Association of State Highway and Transportation Officials (AASHTO) standards every six months instead of the normal schedule of every two years due to their deteriorated conditions. The bridges have been de-rated causing the rerouting and restricting heavy loads including logging trucks, concrete trucks, the High Activity Waste Trailer, and supporting on-going construction.

Baseline Validation Narrative:

The project was last validated on 4/26/96 for FY98 funding. A lead validator was chosen from the Site and a peer review by SR and HQ program and project personnel was conducted on 4/3/96. Their favorable report was issued on 4/26/96.

General PBS Information

Project Validated? Yes **Date Validated:** 4/26/1996

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/3/1999

FEDPLAN Project?

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

Project Identification Information

DOE Project Manager: Franklin I. Black

DOE Project Manager Phone Number: 803-725-0374

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General PBS Information

DOE Project Manager Fax Number: 803-725-0375
DOE Project Manager e-mail address: franklin.black@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)	8,289	0	8,289	1,997	1,997	3,438	3,438	2,854	0	0	0	0	0	0	0	
PBS Baseline (constant 1999 dollars)	8,289	0	8,289	1,997	1,997	3,438	3,438	2,854	0	0	0	0	0	0	0	
PBS EM Baseline (current year dollars)	8,289	0	8,289	1,997	1,997	3,438	3,438	2,854	0	0	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	8,289	0	8,289	1,997	1,997	3,438	3,438	2,854	0	0	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

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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)	0	0	0	0	0	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
0.00%	0.00%	0.00%	3.60%	3.70%	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: 5/1/1998

Current Projected End Date of Project: 9/30/1999

Explanation of Project Completion Date Difference (if applicable):

Project closeout discussions with the Corps of Engineers are continuing. Anticipate COE's final invoice to be submitted prior to the end of the fiscal year. It is possible that the final invoice may not be submitted by the end of September, which will require the Project Completion Date to be revised once again.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	10,794	Actual 1997 Cost:	1,997	Actual 1998 Cost:	3,438
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	5,359	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			145
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	5,504				

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 (+): -2,650 Activities are being identified during project close out.
 Cost Growth Associated with Scope Previously Reported (+):
 Cost Reductions Due to Science & Technology Efficiencies (-):
 Subtotal: 2,854
 Additional Amount to Reconcile (+): 0

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **2,854**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Project Start	SR-DO01-001		10/1/1996								
Project Completion	SR-DO01-002		9/30/1999								

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
Project Start	SR-DO01-001			Y							Transition from ADS to PBS began in FY 1997.
Project Completion	SR-DO01-002				Y						Project completion.