

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Chicago**

Site Summary Level: **Ames Laboratory**

Project **CH-AMESWO / AMES Waste Operations**

Report Number: **GEN-01b**

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

HQ ID: **0026**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

This activity includes management of waste operations activities to ensure compliance with accepted practices, procedures and regulations. Waste typically includes research-level quantities of potentially hazardous chemicals and previously-contaminated duct work, drain lines and laboratory equipment.

Hazardous waste includes RCRA regulated waste and TSCA waste (PCBs and asbestos). Mixed waste includes research-level quantities of radioactive material and hazardous chemicals. Radioactive waste includes contaminated materials removed during renovation activities and waste generated as a result of research activities.

Project Status in FY 2006:

Waste management activities at AMES are very stable. The project will be on-going through Office of Science management and oversight starting in FY 2001. EM funding for FY 2001 is pending transfer to the Office of Science.

Post-2006 Project Scope:

Project scope after FY2006 will remain essentially the same as Ames Laboratory waste management activities are constant.

Project End State

For EM, the project will end in FY 2001 with the transfer of the program and funding to the waste generating organization, Office of Science.

Cost Baseline Comments:

Baselines have been updated to reflect actual costs thru FY 1998, CYWPs for FY 1999 and Congressional Budget Request for FY 2000. FY 2001 reflects the increase to implement DOE Order 435.1. The years after FY 2001, reflect increases to maintain compliance with the new Order. Escalation rates used were 2.7% for FY 2000 and 2.1% in years after FY 2000.

Safety & Health Hazards:

No dedicated direct funded safety and health functions are associated with this project. The costs of site wide safety and health support functions are paid by all direct funded activities through overhead pools. Safety and Health costs are being reported in the ES&H Management Plan. Waste collection, and disposal activities at Ames laboratory include the management of RCRA regulated waste, TSCA (asbestos and PCBs), research-level quantities of radioactive chemicals, hazardous chemicals generated in the processes which have been discontinued, contaminated materials removal during renovation activities, and radioactive wastes.

Safety & Health Work Performance:

No dedicated direct funded safety and health functions are associated with this project. The costs of site wide safety and health support functions are paid by all direct funded activities through overhead pools. Safety and Health costs are being reported in the ES&H Management Plan. Management

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Project Description Narratives

and oversight of waste operations and maintenance activities are accomplished to ensure compliance with accepted waste management practices, procedures, and regulations.

PBS Comments:

Not applicable.

Baseline Validation Narrative:

The reasonableness of the scope and cost of Waste Operations activities for CH laboratories was validated in September 1996. This validation activity was performed at CH by a team comprised of Chicago Operations Office staff, Headquarters Program Office (EM-34) staff and an independent consultant from Project Assistance Corporation who provides support to the Richland Operations Office. The team validated the use of historical data to forecast future waste quantity generation for ongoing research activities and validated the use of Activity Based Cost Estimates to determine the resources required. This scope definition was determined to be the key element in determining costs.

General PBS Information

Project Validated? Yes Date Validated: 9/30/1996

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/7/1999

FEDPLAN Project? Yes

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

Project Identification Information

DOE Project Manager: Antanas Bindokas

DOE Project Manager Phone Number: 630-252-2692

DOE Project Manager Fax Number: 630-252-2654

DOE Project Manager e-mail address: antanas.bindokas@ch.doe.gov

Is this a High Visibility Project (Y/N):

Planning Section

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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	
PBS Baseline (current year dollars)	2,766	41,673	44,439	175	224	260	257	306	260	287	282	290	296	302	308	
PBS Baseline (constant 1999 dollars)	2,591	16,970	19,561	175	224	260	257	306	253	274	263	265	265	265	265	
PBS EM Baseline (current year dollars)	1,288	0	1,288	175	224	260	257	306	260	287	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	1,268	0	1,268	175	224	260	257	306	253	274	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)	315	321	328	335	1,783	1,977	2,195	2,435	2,702	2,998	3,326	3,690	4,094	4,542	5,040	5,592
PBS Baseline (constant 1999 dollars)	265	265	265	265	1,326	1,324	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326
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

Non-EM Costs included in the Cost Baseline

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Non-EM Category: Other													
Office of Science						100	100	100	100	100	100	100	100

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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
Non-EM Category: Other													
Office of Science	100	100	100	100	100	100	100	100	100	100	100	100	100

Baseline Escalation Rates

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
	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
	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/1/1999

Current Projected End Date of Project: 10/1/2000

Explanation of Project Completion Date Difference (if applicable):

The date for transfer to the Office of Science has been changed to 10/01/2000.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	785	Actual 1997 Cost:	224	Actual 1998 Cost:	257
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	304	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			8
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	312				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

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Project Reconciliation

Cost Associated with New Scope (+): 521 FY 2000/1 were formerly non-EM funded; DOE O 435.1 implementation added.

Cost Growth Associated with Scope Previously Reported (+):

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

Subtotal: 833

Additional Amount to Reconcile (+): 0

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 833

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Transfer to Landlord (Office of Science)	CH-AMES-WO-001		10/1/2000								
Project Start	CH-AMES-WO-002		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
Transfer to Landlord (Office of Science)	CH-AMES-WO-001				Y						
Project Start	CH-AMES-WO-002			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
TRU														
Treatment	M3	0.10	0.00	0.10	0.00		0.00	0.00	0.10	0.00	0.00			

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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
TRU														
Storage	M3							0.00	0.00	0.00	0.00			
MLLW														
Storage	M3							0.50	0.50					
MLLW														
Comm. Disp.	M3	0.53	0.00	0.53	0.00		0.00	0.00	0.01	0.51	0.01			
LLW														
Treatment	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Storage	M3							3.00	0.00					
LLW														
Comm. Disp.	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Ship to DOE Disp.	M3	15.10	0.00	15.10	0.00		0.00	0.00	7.10	4.00	4.00			
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	
TRU														
Treatment	M3													
TRU														
Storage	M3													
MLLW														
Storage	M3													

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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													
Comm. Disp.	M3												
LLW													
Treatment	M3												
LLW													
Storage	M3												
LLW													
Comm. Disp.	M3												
LLW													
Ship to DOE Disp.	M3												
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			
TRU													
Treatment	M3									0.00			
TRU													
Storage	M3												
MLLW													
Storage	M3												
MLLW													
Comm. Disp.	M3									0.52			
LLW													
Treatment	M3									2.00			
LLW													
Storage	M3												

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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
LLW										
Comm. Disp.	M3									0.00
LLW										
Ship to DOE Disp.	M3									10.00

Technology Needs

Site Need Code: CH-MW04-99

Site Need Name: Treatment of PCB Contaminated Low Level Waste

Focus Area Work Package ID: MW-07

Focus Area Work Package: Alternatives to Incineration to Reduce Emission Hazards.

Focus Area: MWFA

Agree with Technology Link: Y

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

Technologies

Direct Chemical Oxidation

Cost Savings (in thousands of dollars)

Range of Estimate

0