

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

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## General Project Information

### Project Description Narratives

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

**Purpose:** This project's primary objective is to operate, maintain, and upgrade the tank farm facilities to assure the safe storage of the tank wastes until it is retrieved and disposed of; ongoing activities include: operations, maintenance, facility modifications, and capital improvements of tank farm facilities, receipt and transfer of radioactive liquid waste from other Hanford facilities.

In addition, the program is pumping interstitial liquid from the single-shell tanks (SSTs) (interim stabilization), disconnecting piping to prevent further liquid intrusion (isolation), and reducing surface contamination above the tanks to manage the tank farms within the authorization basis. Interim stabilization is scheduled to be completed in FY 2004.

**Scope:** Specific project scope from the Hanford Site technical baseline is provided below in terms of the systems that the project has responsibility for.

#### Tank Farm System

· **Maintain Safe & Compliant Tank Farm System:** The Tank Farm system is maintained in a safe, compliant condition. Safe and compliant operations will continue until the system is ready for decontamination and decommissioning (D&D).

· **Maintain Safe & Compliant Waste Within Tank Farm System:** The Tank Farm System stores and manages existing tank waste (SST and DST) and receives waste from on-site waste generators to be stored in the Double Shell Tanks (DSTs). On-site waste generators include B Plant, T Plant, the Plutonium Finishing Plant, the 222-S Laboratories, the 242-A Evaporator, the 100 K Area, the 100 N Area, the 300 Area, the 400 Area, the LAW Treatment Plant, and the LAW/HLW Treatment Plant. Managing waste in the Tank Farm System includes 1) confinement during receipt, transfer and storage of waste; and 2) monitoring and control of selected waste chemical and physical properties, system leakage, gaseous discharges, flammable gas/air bubble accumulation, and other parameters to protect workers, the public, and the environment.

Both the storage of waste and the receipt of additional waste are in progress. The storage of waste will continue until sufficient wastes have been removed from the SSTs, MUSTs, miscellaneous facilities, and DSTs, by the delivery of waste feed to the treatment plants, to meet tank farm closure requirements.

· **Transition Tank Farm Facilities:** At the completion of the Operations and Maintenance phase of the Tank Farm System, activities are performed as necessary to place the Tank Farm System into a safe, stable and environmentally sound condition pending final disposition of the system. Activities for this function are limited to those that optimize surveillance and maintenance costs for the Tank Farm System during the time between system operations and D&D. Tank Farm System elements will be placed in a de-energized state if possible.

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 1 of 32

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

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---

## Project Description Narratives

Technical Approach: The end point targets in the Hanford Strategic Plan addressed by this project include:

- Transition high cost surplus facilities in the Central Plateau Area to a low cost, stable, deactivated condition.

The technical approach and technology initiatives for the Project to accomplish the Hanford Strategic Plan end point targets are identified below.

· Technical Approach - Tank Farm Operations: The technical approach to Tank Farm Operations is to conduct all activities pertaining to the operation of a permitted treatment, storage, and disposal (TSD) facility within the boundary of the current Authorization Basis and in a manner that ensures compliance with all applicable federal, state, and local environmental regulations to ensure a safe working environment for all employees and support groups. This consists of performing all the support functions required for routine surveillance, operation, and maintenance of the 200 East Area and 200 West Area tank farms to safely monitor status and control of the underground storage of waste. These function include:

- Performing preventative and corrective maintenance (routine and non-routine)
- Waste transfers to feed tanks in support of concentrating facility operations
- Conducting health physics activities (radiological)
- Conducting routine surveillance monitoring
- Conducting industrial hygiene and safety functions
- Performing engineering and analysis (trade studies and analysis capability upgrades)
- Managing and controlling upgrades to facilities and infrastructure
- Enhancing the safety of facility operations and preparing the facilities for the eventual turnover to the Retrieval Project

This project is dependent on the Waste Management programs support from the 242-A Evaporator for the evaporation and concentration of liquid waste in support of tank space requirements management.

### Project Status in FY 2006:

Tank Farm System

- Transition of the Tank Farm System has not begun in FY2006
- It is anticipated that all project activities will be completed in fiscal year 2024 and the remaining waste and storage tanks will turned over at that time to the TWRS Retrieval Program for tank closure.

Single Shell Tank (SST) System

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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HQ ID: **0385**

---

## Project Description Narratives

- Continue safe storage of waste and operate all TWRS SST facilities within the approved safety envelope and in compliance with environmental regulations. Perform surveillance monitoring, facility maintenance and other activities in support of the safe storage of SST waste through FY 2006.

### Double Shell Tank (DST) System

- Continue operation of the DST facilities in a "ready to serve" manner to facilitate waste transfers in and out of the DST's until the DST project is turned over to the TWRS Retrieval project in 2024.

- Continue safe storage of waste and operate all TWRS DST facilities within the approved safety envelope and in compliance with environmental regulations. Perform surveillance monitoring, facility maintenance and other activities in support of the safe storage of DST waste.

Operate DST facilities in a "ready to serve" manner by providing DST storage of waste from other Site projects. Facilities will be upgraded to achieve compliance with all local, State and Federal regulations to the extent practicable.

### Post-2006 Project Scope:

#### Tank Farm System

- No SST activities are planned beyond 2006 for this project at this time.

Continue operation of the DST facilities in a "ready to serve" manner to facilitate transfer in and out of the DST's until the DST project is turned over to the TWRS Retrieval Project in 2024.

Continue safe storage of waste and operate all TWRS DST facilities within the approved safety envelope and in compliance with environmental regulations. Perform surveillance monitoring, facility maintenance, and the activities in support of the safe storage of DST waste.

Operate DST facilities in a "ready to serve" manner by providing DST storage of waste from other site projects. Facilities will be upgraded to achieve compliance with all local, State, and Federal regulations to the extent practicable.

### Project End State

Specific work activities to close the facilities under this Project to be performed by others at the end of this Project's mission are identified below. Tank Farm System

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# *Project Baseline Summary Report*

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HQ ID: **0385**

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## **Project Description Narratives**

Work associated with facility performed by Retrieval:

- Deliver Waste Feed

- D&D Tank Farm Facility

- Retrieve SST Waste

Work associated with facility performed by Tank Waste Characterization:

- Sample and Characterize Tank Waste

Work associated with facility performed by Tank Safety Issue Resolution:

- Establish & Maintain Safety Authorization Basis

### **Cost Baseline Comments:**

It should be noted that all contingencies have been removed from the budgets with the exception of contingencies required by DOE Order 4700.1 included in the line item project W-314.

Estimates supporting the Tank Waste Remediation Systems (TWRS) fiscal year (FY) 2001 Project Baseline Summaries (PBS) estimate were developed using Activity-Based Cost (ABC) estimating methodology consistent with the "Hanford Cost Estimating and Scheduling Guide," DOE/RL-97-90, Revision 0.

The TWRS (FY) 2001 PBS is a product of the development of the technical scope, schedule and cost baselines. The scope, schedule and cost baselines are interrelated and have been integrated. The Hanford Site Technical Baseline requirements have been incorporated in the TWRS Technical Baseline through development of TWRS technical specifications. Level 0 and Level 1 work logics were developed to define the activities and interfaces necessary to meet the technical requirements. For much of the TWRS work, Technical Basis Review (TBR) data packages were then prepared to decompose the Level 1 activities to a detailed, executable task level and document scope and resources necessary to complete the work. Activities and resources from the TBRs were input to Primavera (P3) to prepare the TWRS detailed baseline schedule. Pricing of the estimate was performed in P3 using standard rates and factors developed by the FDH Chief Financial Officer and approved by DOE for forward pricing purposes. The resource-loaded schedules are traceable to the TBR data packages. Costs generated by P3 were developed using the DOE-approved planning rates and were manually escalated using the DOE-approved escalation rates.

Due to significant variations in the current phases of the TWRS projects and available data and scope definition, many estimating techniques have been utilized in development of the cost estimate. They include definitive, parametric, analogy, trend analysis, level of effort and engineering judgement. ABC estimates for the scope of work have been prepared at the lowest level of detail practical. As expected, the level of scope definition and estimate detail is greatest for the near-term activities and less well defined in later years. Through the annual planning process and change control, the execution year and outyear estimate basis will continue to be refined, updated and validated.

The Estimate Basis is contained in numerous technical scope, schedule and cost baseline and supporting documents including TBR data packages.

### **Safety & Health Hazards:**

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 4 of 32

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

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---

## Project Description Narratives

The Tank Farm Operations Project exists primarily for storage of hazardous tank waste. Public health and safety risks, worker health and safety risks, and environmental protection risks associated with this project are high during interim storage.

Flammable gas tank risk sources include potentially as many as 149 SSTs, 28 DSTs and numerous ancillary tanks with potential flammable gas burn volumes ranging from a fraction of 1 cubic meter up to the bounding quantity of ~600 cubic meters. Organic tank risk sources include potentially as many as 108 SSTs with potential reaction quantities of a fraction of 1 cubic meter up to the bounding quantity of 25 cubic meters.

The worst-case scenarios during interim storage and waste retrieval activities involve either the buildup and ignition of flammable gases or a condensed phase combustion of organic complexant salts, with a subsequent fire/explosion within a tank. The accident scenario results in the eventual release of respirable-sized radiological and chemical radioactive contaminants to the atmosphere. This release would cause severe and permanent impacts on worker health and safety, significant overexposure to the public, and widespread environmental contamination.

### Safety & Health Work Performance:

#### PBS Comments:

Stabilization of the SST's is a highly visible project with the State of Washington and the Environmental Protection Agency, as commitments have been made to these agencies as parties to the Hanford Federal Facility Consent Order (Tri-Party Agreement).

The target level funding reflected in Section B.1 is different than the baseline budget contained in this PBS, and reflects reductions in scope that would be taken from this project if needed enhanced performance targets are not realized for the site to meet the overall anticipated funding level. Specific impacts in FY 1999 and their consequences would be:

FY 98 Deferral of Facility Deactivation - \$1,285K - Deferral to FY 1999 impacts 244CR eng. study will continue costs of surveillance and monitoring in FY 1998 that otherwise would not be incurred. Delays resolution of DFNSB concern by one year. Delay in resolution of 244-AR sump intrusions is noncompliant with WDOE requirements. Will have to do two deactivations in FY 1999 instead of one. The following compliance issues originally planned in FY 1999 may be impacted by the site funding gap in FY 1999 if efficiencies do not materialize:

TWRS As-Built Drawings - \$3,327K  
Mapping/Marking Underground Lines - \$1,500K  
242-T Deactivation - \$1,601K  
Tank Isolation/Abandoned Equipment - \$1,250K  
209-E Stabilization/Hazard Reduction - \$942K

A class I change request was completed that incorporates the addition and deletions to the fiscal year (FY) 1998 Multi-Year Work Plan (MYWP) baseline as directed by U.S. Department of Energy (DOE). The following were additions to the baseline: Phase I) Integrated Safety management system, Phase II) Integrated management system, revised safety equipment list, package boiler cost. It transfers the Vadose Zone work and Project W-314 to Retrieval Project. It defers 209E, 244AR, 244CR facility deactivation. It also incorporated the FY 1997 carryover for Line Item Projects W-030, and W-314. The Change Request was approved by Fluor Daniel Hanford, Inc. (FDH) Change Control Board on November 12, 1997. The FY 1998 entire budget for W-314 and the Vadose Zone were transferred. Once the new accounts are set-up in Financial Data Systems (FDS) the Year-to-

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 5 of 32

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Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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HQ ID: **0385**

---

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Date costs will then be transferred from Operations into Retrieval.

TWR-98-022 has been submitted and is pending approval by RL. The following TPA milestones from Section A.3 for the W-314 Project will be transferred to RL-TW04 when this change request is approved: M-43-00, M-43-11, M-43-12, M-43-13, M-43-14, M-43-15, M-43-16.

Also, the units of analysis (UAS) for Vadose Drilling/Mapping/Analysis (RL-TW03-009) and for TWRS Tank Farm Rstoration and Safe Operations (Project W-314) on UAS (RL-TW03-006) were both transferred to the Retrieval Project.

### Baseline Validation Narrative:

A life-cycle, activity-based cost estimate and a subsequent Independent Cost Estimate (ICE) was done for the TWRS Tank Farm Operations Project.

## General PBS Information

Project Validated?

Date Validated:

Has Headquarters reviewed and approved project?

Yes

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

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

## Project Identification Information

DOE Project Manager: J.E. Kinzer

DOE Project Manager Phone Number: 509-376-7591

DOE Project Manager Fax Number: 509-372-1215

DOE Project Manager e-mail address: jackson\_e\_kinzer@rl.gov

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

## Planning Section

### Baseline Costs (in thousands of dollars)

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Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

	<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)	1,541,997	2,022,038	3,564,035	156,948	150,625	122,874	115,042	136,624	155,219	207,423	190,037	175,244	155,760	130,066	111,802	
PBS Baseline (constant 1999 dollars)	1,456,442	1,403,511	2,859,953	156,948	150,625	122,874	115,042	136,624	152,026	198,783	178,201	160,792	139,838	114,257	96,099	
PBS EM Baseline (current year dollars)	1,541,997	2,022,038	3,564,035	156,948	150,625	122,874	115,042	136,624	155,219	207,423	190,037	175,244	155,760	130,066	111,802	
PBS EM Baseline (constant 1999 dollars)	1,456,442	1,403,511	2,859,953	156,948	150,625	122,874	115,042	136,624	152,026	198,783	178,201	160,792	139,838	114,257	96,099	
	<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)	102,388	97,583	96,805	98,869	521,313	584,032	520,225	823	0	0	0	0				
PBS Baseline (constant 1999 dollars)	86,113	80,305	77,950	77,898	384,961	386,813	309,031	440	0	0	0	0				
PBS EM Baseline (current year dollars)	102,388	97,583	96,805	98,869	521,313	584,032	520,225	823	0	0	0	0				
PBS EM Baseline (constant 1999 dollars)	86,113	80,305	77,950	77,898	384,961	386,813	309,031	440	0	0	0	0				

## Baseline Escalation Rates

<b>1997</b>	<b>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>	<b>2007</b>	<b>2008</b>	<b>2009</b>
0.00%	0.00%	0.00%	2.10%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
<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>

Dataset Name: **FY 1999 Planning Data**

Page 7 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**  
 Operations/Field Office: **River Protection**  
 Site Summary Level: **Office of River Protection**  
 Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**  
 Print Date: **3/9/2000**  
 HQ ID: **0385**

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
2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%

## Project Reconciliation

### Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2007

Current Projected End Date of Project: 9/30/2025

Explanation of Project Completion Date Difference (if applicable):

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

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	873,210	Actual 1997 Cost:	150,625	Actual 1998 Cost:	115,042
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	607,543	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			16,404
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	623,947				

### 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 (-):		
<b>Subtotal:</b>	623,947	
<b>Additional Amount to Reconcile (+):</b>	1,956,184	
<b>Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):</b>	<b>2,580,131</b>	

## Milestones

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

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Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
COMPLETE SALT WELL PUMPING OF SINGLE SHELL TANKS	T03-00-196	9/30/2000	9/30/2000	9/30/2000	12/31/2049		Y				
COMPLETE TANK FARM UPGRADES	T03-05-051	6/30/2005	6/30/2005	6/30/2005			Y				
START CONSTRUCTION FOR UPGRADES IN THE 1ST TANK FARM	T03-99-055	6/30/1999	6/30/1999	6/30/1999		3/2/1998	Y				
START CONSTRUCTION FOR UPGRADES IN THE 2ND TANK FARM	T03-00-056	6/30/2000	6/30/2000	6/30/2000			Y				
START CONSTRUCTION FOR UPGRADES IN THE 3RD TANK FARM	T03-01-057	3/31/2001	3/30/2001	3/31/2001			Y				
START CONSTRUCTION FOR UPGRADES IN THE 4TH TANK FARM	T03-02-058	3/31/2002	3/29/2002	3/31/2002			Y				
START CONSTRUCTION FOR UPGRADES IN THE 5TH TANK FARM	T03-03-059	6/30/2003	6/30/2003	6/30/2003			Y				
START INTERIM STABILIZATION OF 2 SINGLE SHELL TANKS	T03-99-192	9/30/1999	9/30/1999	9/30/1999	12/31/2049		Y				
START INTERIM STABILIZATION OF 3 SINGLE SHELL TANKS	T03-99-191	3/31/1999	12/31/2049	3/31/1999	12/31/2049		Y				
START INTERIM STABILIZATION OF 6 SINGLE SHELL TANKS	T03-97-150	9/30/1997	9/30/1997	9/30/1997	12/31/2049		Y				
START INTERIM STABILIZATION OF 8 SINGLE SHELL TANKS	T03-98-151	3/31/1998	3/31/1998	3/31/1998	12/31/2049		Y				
START INTERIM STABILIZATION OF 9 SINGLE SHELL TANKS	T03-98-152	9/30/1998	9/30/1998	9/30/1998	12/31/2049		Y				
PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY.	T2C-99-100	12/31/2049	12/31/2049	12/31/2049			Y				
COMPLETE 244-AR VAULT INTERIM STATUS TANK ACTIONS.	T03-08-206	12/31/2049	9/30/2008	12/31/2049	9/30/2008		Y				
COMPLETE GROUT INTERIM STATUS TANK ACTIONS.	T03-08-208	12/31/2049	9/30/2008	12/31/2049	9/30/2008		Y				

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Date of Dataset: **9/20/1999**

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## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
COMPLETE SINGLE-SHELL TANK INTERIM STABILIZATION	T03-00-193	9/30/2000	12/31/2049	9/30/2000	12/31/2049		Y				
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-99-102	11/30/1998	11/30/1998	11/30/1998		11/30/1998	Y				
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-00-104	11/30/1999	11/30/1999	11/30/1999			Y				
DOUBLE-SHELL TANK SPACE EVALUATION	T03-00-105	9/30/2000	9/29/2000	9/30/2000			Y				
DOUBLE-SHELL TANK SPACE EVALUATION	T03-99-103	9/30/1999	9/30/1999	9/30/1999			Y				
DOUBLE-SHELL TANK SPACE EVALUATION	T03-02-100	9/30/2002	9/30/2002	9/30/2002			Y				
DOUBLE-SHELL TANK SPACE EVALUATION	T03-01-100	9/30/2001	9/28/2001	9/30/2001			Y				
SI-4C COMPLETE ACCELERATED WALKDOWNS IN FIELD	T03-99-400	9/30/1999	9/30/1999								
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-02-104	11/30/2001	11/30/2001	11/30/2001			Y				
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-04-104	12/1/2003	12/1/2003	11/30/2003			Y				
DOUBLE-SHELL TANK SPACE EVALUATION	T03-03-100	9/30/2003	9/30/2003	9/30/2003			Y				
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-03-104	11/27/2002	11/27/2002	11/30/2002			Y				
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-01-104	11/30/2000	11/30/2000	11/30/2000			Y				
Begin Tank Farm Operations Project	PBS-97-003		2/28/1997								
PBS Mission Completion	PBS-MC-003		9/30/2025								
PBS Project End	PBS-PE-003		9/30/2025								

## Milestones - Part II

Dataset Name: **FY 1999 Planning Data**

Page 10 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

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 SALT WELL PUMPING OF SINGLE SHELL TANKS	T03-00-196										All single-shell tanks saltwell pumping is complete.
COMPLETE TANK FARM UPGRADES	T03-05-051										All W-314 tank farm systems upgrades complete and operational.
START CONSTRUCTION FOR UPGRADES IN THE 1ST TANK FARM	T03-99-055										Initiate construction-related activity in the first tank farm to be upgraded by Project W-314, Tank Restoration and Safe Operations.
START CONSTRUCTION FOR UPGRADES IN THE 2ND TANK FARM	T03-00-056										Initiate construction-related activity in the second tank farm to be upgraded by Project W-314, Tank Restoration and Safe Operations.
START CONSTRUCTION FOR UPGRADES IN THE 3RD TANK FARM	T03-01-057										Initiate construction-related activity in the third tank farm to be upgraded by Project W-314, Tank Restoration and Safe Operations.
START CONSTRUCTION FOR UPGRADES IN THE 4TH TANK FARM	T03-02-058										Initiate construction-related activity in the fourth tank farm to be upgraded by Project W-314, ATank Restoration and Safe Operations.
START CONSTRUCTION FOR UPGRADES IN THE 5TH TANK FARM	T03-03-059										Initiate construction-related activity in the fifth tank farm to be upgraded by Project W-314, Tank Restoration and Safe Operations.
START INTERIM STABILIZATION OF 2 SINGLE SHELL TANKS	T03-99-192										Start stabilization pumping of two single-shell tanks by TBD.
START INTERIM STABILIZATION OF 3 SINGLE SHELL TANKS	T03-99-191										Start stabilization pumping of three single-shell tanks by TBD.
START INTERIM	T03-97-150										Start stabilization pumping of six

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

## 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
STABILIZATION OF 6 SINGLE SHELL TANKS											single-shell tanks by TBD.
START INTERIM STABILIZATION OF 8 SINGLE SHELL TANKS	T03-98-151										Start Stabilization pumping of eight single-shell tanks by March 31, 1998.
START INTERIM STABILIZATION OF 9 SINGLE SHELL TANKS	T03-98-152										Start stabilization pumping of nine single-shell tanks by 9/30/98.
PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY.	T2C-99-100										
COMPLETE 244-AR VAULT INTERIM STATUS TANK ACTIONS.	T03-08-206										Complete interim status actions prior to restart date for 244-AR Vault.
COMPLETE GROUT INTERIM STATUS TANK ACTIONS.	T03-08-208										Complete program planning prior to processing DST waste.
COMPLETE SINGLE-SHELL TANK INTERIM STABILIZATION	T03-00-193		Y								Complete Interim Stabilization activities for all single-shell tanks (SSTs) except 241-C-106 (to be retrieved in accordance with milestone M-45-03). Complete intrusion prevention for all SSTs except 241-C-106.
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-99-102										Issue a letter that includes plans of additional tank acquisition to support TPA milestone M-46-01. The content of the letter will be based on the waste tank volume projections.  Note: This is an annual TPA milestone, which is due November 30 of each

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

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Report Number: **GEN-01b**

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

HQ ID: **0385**

## 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
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-00-104										Issue a letter that includes plans of additional tank acquisition to support TPA milestone M-46-01. The content of the letter will be based on the waste tank volume projections.  Note: This is an annual TPA milestone, which is due November 30 of each
DOUBLE-SHELL TANK SPACE EVALUATION	T03-00-105										Prepare annual Operational Waste Volume Projection (OWVP), as required TPA milestone M-46-00.  Note: This is an annual milestone, due September 30 of each fiscal year.
DOUBLE-SHELL TANK SPACE EVALUATION	T03-99-103										Prepare annual Operational Waste Volume Projection (OWVP), as required TPA milestone M-46-00.  Note: This is an annual milestone, due September 30 of each fiscal year.
DOUBLE-SHELL TANK SPACE EVALUATION	T03-02-100										Prepare annual Operational Waste Volume Projection (OWVP), as required TPA milestone M-46-00.  Note: This is an annual milestone, due September 30 of each fiscal year.
DOUBLE-SHELL TANK SPACE EVALUATION	T03-01-100										Prepare annual Operational Waste Volume Projection (OWVP), as required TPA milestone M-46-00.  Note: This is an annual milestone, due September 30 of each fiscal year.

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

## 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
SI-4C COMPLETE ACCELERATED WALKDOWNS IN FIELD	T03-99-400										<p>1) The Contractor shall complete the following requirements as demonstration of TWRS Integrated Safety Management System implementation:</p> <p>? Incorporate lessons learned resulting from the TWRS ISMS Phase I Verification, and PHMC ISMS Phase I and Phase II</p>
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-02-104										<p>Issue a letter that includes plans of additional tank acquisition to support TPA milestone M-46-01. The content of the letter will be based on the waste tank volume projections.</p> <p>Note: This is an annual TPA milestone, which is due November 30 of each</p>
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-04-104										<p>Issue a letter that includes plans of additional tank acquisition to support TPA milestone M-46-01. The content of the letter will be based on the waste tank volume projections.</p> <p>Note: This is an annual TPA milestone, which is due November 30 of each</p>
DOUBLE-SHELL TANK SPACE EVALUATION	T03-03-100										<p>Prepare annual Operational Waste Volume Projection (OWVP), as required TPA milestone M-46-00.</p> <p>Note: This is an annual milestone, due September 30 of each fiscal year.</p>

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

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Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

## 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
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-03-104										Issue a letter that includes plans of additional tank acquisition to support TPA milestone M-46-01. The content of the letter will be based on the waste tank volume projections.  Note: This is an annual TPA milestone, which is due November 30 of each
CONCURRENCE OF ADDITIONAL TANK ACQUISITION	T03-01-104										Issue a letter that includes plans of additional tank acquisition to support TPA milestone M-46-01. The content of the letter will be based on the waste tank volume projections.  Note: This is an annual TPA milestone, which is due November 30 of each
Begin Tank Farm Operations Project	PBS-97-003			Y							Administrative input to document the start of this PBS.
PBS Mission Completion	PBS-MC-003					Y					Administrative input to document the mission completion of this PBS.
PBS Project End	PBS-PE-003				Y						Administrative input to document the project end of this PBS.

## 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	146.00	146.00										

Dataset Name: **FY 1999 Planning Data**

Page 15 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## 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>HLW</b>														
Storage	M3							203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00
<b>Tech.</b>														
Deployed	Ntd	13.00	0.00	13.00					5.00	2.00	3.00	3.00		
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	
<b>Fac.</b>														
Deact. During Per.	NF						1.00				85.00	1.00	59.00	
<b>HLW</b>														
Storage	M3	203,193.00	203,193.00											
<b>Tech.</b>														
Deployed	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>Fac.</b>														
Deact. During Per.	NF									146.00				
<b>HLW</b>														
Storage	M3													
<b>Tech.</b>														
Deployed	Ntd								5.00	13.00				

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7800	R	209-E-WS-1, 209-E French Drain	/										
HASI	7801	R	209-E-WS-2, Critical Mass Lab French Drain	/										
HASI	7802	R	241-BX-302A, 241-BX-302-A Catch Tank	/										
HASI	7803	R	241-BX-302B, 241-BX-302-B Catch Tank	/										
HASI	7804	R	241-BX-302C, 241-BX-302-C Catch Tank	/										
HASI	7805	R	241-A-302B, 241-A-302-B Catch Tank	/										
HASI	7806	R	241-AX-151, 241-AX-151 Diversion Box, 241-AX-151 Diverter Station	/										
HASI	7807	R	241-B-301, 241-B-301-B Catch Tank, 241-B-301B	/										
HASI	7808	R	241-B-302B, 241-B-302-B Catch Tank, 241-B-302	/										
HASI	7809	R	241-C-301, 241-C-301-C Catch Tank, 241-C-301C	/										
HASI	7810	R	241-S-302A, 241-S-302-A Catch Tank	/										
HASI	7811	R	241-S-302B, 241-S-302-B Catch Tank	/										
HASI	7812	R	241-SX-302, 241-SX-302 Catch Tank, SX-304	/										
HASI	7813	R	241-T-301B, 241-T-301 Catch Tank, 241-T-301-B	/										
HASI	7814	R	241-TX-302B, 241-TX-302-B Catch Tank	/										
HASI	7815	R	241-TX-302C, 241-TX-302-C Catch Tank	/										
HASI	7816	R	241-TY-302B, 241-TY-302-B Catch Tank	/										
HASI	7817	R	242-S, 242-S Evaporator	/										
HASI	7818	R	242-T, 241-T-Evaporator	/										

Dataset Name: **FY 1999 Planning Data**

Page 17 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7819	R	242-T-151, 242-T-151 Diversion Box	/										
HASI	7820	R	244-A LS, 244-A Lift Station, 244-AR Lift Station, 244-AR LS	/										
HASI	7821	R	244-AR VAULT, 244-AR Vault	/										
HASI	7822	R	244-BXR VAULT, 244-BXR Vault, 244-BXR Receiving Vault. (Subsites 244-BXR-001, 244-BXR-002, 244-BXR-003, 244-BXR-011.)	/										
HASI	7823	R	244-CR VAULT, 244-CR Vault	/										
HASI	7824	R	244-CR-WS-1, 244-CR French Drain	/										
HASI	7825	R	244-U DCRT, 244-U Double-Contained Receiver Tank, 244-U RT, 244-U Receiver Tank, 244-U Receiving Vault, 244-U-TK/SMP	/										
HASI	7826	R	2607-E5	/										
HASI	7827	R	2607-E7A, 2607-E7	/										
HASI	7828	R	2607-E7B, 2607-E	/										
HASI	7829	R	2607-EA, 2607-EA Septic Tank and Drywell	/										
HASI	7830	R	2607-EB	/										
HASI	7831	R	2607-EC	/										
HASI	7832	R	2607-ED	/										
HASI	7833	R	2607-EG	/										
HASI	7834	R	2607-W9	/										
HASI	7835	R	2607-WT	/										
HASI	7836	R	2607-WTX	/										

Dataset Name: **FY 1999 Planning Data**

Page 18 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7837	R	2607-WUT	/										
HASI	7838	R	GTF, Grout Treatment Facility	/										
HASI	7839	R	GTFL, Grout Treatment Facility Landfill, GTF Vaults, PSW Vault	/										
HASI	7840	R	HWVP, Hanford Waste Vitrification Plant	/										
HASI	7841	R	UPR-200-E-100, Radioactive Spill Near 244-A Lift Station, UN-216-E-100, UN-216-E-29, UN-200-E-100	/										
HASI	7842	R	UPR-200-E-105, UN-200-E-105	/										
HASI	7843	R	UPR-200-E-107, UN-200-E-107	/										
HASI	7844	R	UPR-200-E-108, UN-200-E-108	/										
HASI	7845	R	UPR-200-E-109, UN-200-E-109	/										
HASI	7846	R	UPR-200-E-110, 241-BY Valve Pit Release, UN-200-E-110	/										
HASI	7847	R	UPR-200-E-115, UN-200-E-115	/										
HASI	7848	R	UPR-200-E-116, UN-200-E-116	/										
HASI	7849	R	UPR-200-E-118, UN-200-E-118	/										
HASI	7850	R	UPR-200-E-119, UN-200-E-119	/										
HASI	7851	R	UPR-200-E-125, UN-200-E-125	/										
HASI	7852	R	UPR-200-E-126, UN-200-E-126	/										
HASI	7853	R	UPR-200-E-127, UN-200-E-127	/										
HASI	7854	R	UPR-200-E-128, UN-200-E-128	/										
HASI	7855	R	UPR-200-E-129, UN-200-E-129	/										
HASI	7856	R	UPR-200-E-130, UN-200-E-130	/										

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7857	R	UPR-200-E-131, UN-200-E-131	/										
HASI	7858	R	UPR-200-E-132, UN-200-E-132	/										
HASI	7859	R	UPR-200-E-133, UN-200-E-133	/										
HASI	7860	R	UPR-200-E-134, UN-200-E-134	/										
HASI	7861	R	UPR-200-E-135, UN-200-E-135	/										
HASI	7862	R	UPR-200-E-136, UN-200-E-136	/										
HASI	7863	R	UPR-200-E-137, UN-200-E-137	/										
HASI	7864	R	UPR-200-E-14, UN-200-E-14, 216-B-3 Pond Dike Break	/										
HASI	7865	R	UPR-200-E-143, Contamination Adjacent to 244-AR Lift Station, UN-216-E-43	/										
HASI	7866	R	UPR-200-E-144, Soil Contamination North of 241-B, UN-216-E-44	/										
HASI	7867	R	UPR-200-E-16, UN-200-E-16	/										
HASI	7868	R	UPR-200-E-18, Contamination Release at A-8 Sampler Pit, UN-200-E-18	/										
HASI	7869	R	UPR-200-E-25, Contamination Spread from the 241-A-151 Diversion Box, UN-200-E-25	/										
HASI	7870	R	UPR-200-E-26, 241-A-151 Release, UN-200-E-26	/										
HASI	7871	R	UPR-200-E-27, UN-200-E-27	/										
HASI	7872	R	UPR-200-E-31, 241-A-151 Release, UN-200-E-31	/										
HASI	7873	R	UPR-200-E-38, Release from 241-B-152, UN-200-E-38, UN-216-E-38	/										

Dataset Name: **FY 1999 Planning Data**

Page 20 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7874	R	UPR-200-E-4, UN-200-E-4	/										
HASI	7875	R	UPR-200-E-42, 241-AX-151 Release, UN-200-E-42	/										
HASI	7876	R	UPR-200-E-47, UN-200-E-47	/										
HASI	7877	R	UPR-200-E-48, UN-200-E-48	/										
HASI	7878	R	UPR-200-E-5, UN-200-E-5	/										
HASI	7879	R	UPR-200-E-59, Contaminated Bird Nests and Mud at 216-A-40 and 244-AR Vault, UN-200-E-59	/										
HASI	7880	R	UPR-200-E-6, UN-200-E-6, Contamination Around the 241-B-153 Diversion Box	/										
HASI	7881	R	UPR-200-E-65, UN-216-E-65, 241-A-151 Diversion Box Radioactive Contamination, UN-200-E-65	/										
HASI	7882	R	UPR-200-E-67, UN-216-E-67, Radioactively Contaminated Pipe Encasement, UN-200-E-67	/										
HASI	7883	R	UPR-200-E-68, Radioactive Contamination near 244-AR Vault, UN-216-E-68, UN-200-E-68	/										
HASI	7884	R	UPR-200-E-70, Radioactive Contamination from Jumper Removal, UPR-216-E-70, UN-200-E-70	/										
HASI	7885	R	UPR-200-E-72, Radioactive Contamination from Uncovered Buried Waste, UN-200-E-72	/										
HASI	7886	R	UPR-200-E-73, UN-216-E-1, 241-B-151 Diversion Box Contamination, UN-200-E-73	/										
HASI	7887	R	UPR-200-E-74, UN-216-E-2, 241-B-152	/										

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD	
			Diversion Box Contamination, UN-200-E-74												
HASI	7888	R	UPR-200-E-75, UN-216-E-3, 241-B-153	/											
			Diversion Box Contamination, UN-200-E-75												
HASI	7889	R	UPR-200-E-76, UN-216-E-4, 241-B-153	/											
			Line Break, UN-200-E-76												
HASI	7890	R	UPR-200-E-77, UN-216-E-5, 241-B-154	/											
			Diversion Box Ground Contamination, UN-200-E-77												
HASI	7891	R	UPR-200-E-78, UN-216-E-6, 241-BX-155	/											
			Diversion Box ground contamination, UN-200-E-78												
HASI	7892	R	UPR-200-E-79, UN-216-E-7, 242-B to 207-B	/											
			Line Break, UN-200-E-79												
HASI	7893	R	UPR-200-E-81, UN-216-E-9, 241-CR-151	/											
			Line Break, UN-200-E-81												
HASI	7894	R	UPR-200-E-82, UN-216-E-10, 241-C-152	/											
			Line Break, UN-200-E-82, B Plant Ion Exchange Feed Line Leak												
HASI	7895	R	UPR-200-E-84,241-ER-151 Catch Tank	/											
			Leak, UN-200-E-84, UN-216-E-12												
HASI	7896	R	UPR-200-E-91, UN-216-E-19, UN-200-E-91	/											
HASI	7897	R	UPR-200-E-99, UN-216-E-27,	/											
			Contamination Adjacent to 244-CR Vault, UN-200-E-99												
HASI	7898	R	UPR-200-W-100, UN-216-W-8, 105-TX to	/											
			118-TX Process Line Leak, UN-200-W-100												
HASI	7899	R	UPR-200-W-12	/											
HASI	7900	R	UPR-200-W-126	/											

Dataset Name: **FY 1999 Planning Data**

Page 22 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7901	R	UPR-200-W-127, Liquid Release from 242-S Evaporator to the Ground, UN-200-W-127	/										
HASI	7902	R	UPR-200-W-128	/										
HASI	7903	R	UPR-200-W-129	/										
HASI	7904	R	UPR-200-W-130, Line Leak at 231-W-151 Sump, UN-200-W-130	/										
HASI	7905	R	UPR-200-W-131, Release from 241-TX-155	/										
HASI	7906	R	UPR-200-W-132, UN-200-W-132	/										
HASI	7907	R	UPR-200-W-135, Release from 241-TX-155, UN-200-2-135	/										
HASI	7908	R	UPR-200-W-14, Waste Line Leak at 242-T Evaporator, UN-200-W-14	/										
HASI	7909	R	UPR-200-W-140	/										
HASI	7910	R	UPR-200-W-141	/										
HASI	7911	R	UPR-200-W-142	/										
HASI	7912	R	UPR-200-W-143	/										
HASI	7913	R	UPR-200-W-144	/										
HASI	7914	R	UPR-200-W-145	/										
HASI	7915	R	UPR-200-W-146	/										
HASI	7916	R	UPR-200-W-147	/										
HASI	7917	R	UPR-200-W-148	/										
HASI	7918	R	UPR-200-W-149	/										
HASI	7919	R	UPR-200-W-150	/										
HASI	7920	R	UPR-200-W-151	/										

Dataset Name: **FY 1999 Planning Data**

Page 23 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7921	R	UPR-200-W-152	/										
HASI	7922	R	UPR-200-W-153	/										
HASI	7923	R	UPR-200-W-154	/										
HASI	7924	R	UPR-200-W-155	/										
HASI	7925	R	UPR-200-W-156	/										
HASI	7926	R	UPR-200-W-157	/										
HASI	7927	R	UPR-200-W-160, Line Break at 241-TX-302C, UPR-200-W-38, UPR-200-W-40, 216-T-30	/										
HASI	7928	R	UPR-200-W-161, UN-216-W-35, UN-200-W-161	/										
HASI	7929	R	UPR-200-W-167, Contamiantion Migration from 241-TY, UN-216-W-32	/										
HASI	7930	R	UPR-200-W-17, UN-200-W-17	/										
HASI	7931	R	UPR-200-W-20, UN-200-W-20	/										
HASI	7932	R	UPR-200-W-21, UN-200-W-21, Ground Contamination at 241-TX-154 Diversion Box	/										
HASI	7933	R	UPR-200-W-28, Release from 241-TX-155, UN-200-W-28	/										
HASI	7934	R	UPR-200-W-38, Line Break at 241-TX-302, UPR-200-W-160, UPR-200-W-40, UN-200-W-38, 216-T-30, UN-216-W-36,	/										
HASI	7935	R	UPR-200-W-40, Line Break at 241-TX-154,UPR-200-W-38, UPR-200-W-160, 216-T-30, UN-200-W-40,	/										
HASI	7936	R	UPR-200-W-49, Contamination Southeast of 241-SX, UN-200-W-49	/										

Dataset Name: **FY 1999 Planning Data**

Page 24 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7937	R	UPR-200-W-5, Overflow at 241-TX-155, UN-200-W-5	/										
HASI	7938	R	UPR-200-W-50, UN-200-W-50	/										
HASI	7939	R	UPR-200-W-51, Release from 241-S Diversion Box, UN-200-W-51, UPR-200-W-52	/										
HASI	7940	R	UPR-200-W-52, Release from 241-S Diversion Box, UN-200-W-52	/										
HASI	7941	R	UPR-200-W-6, UN-200-W-6, Contamination Spread from 241-U-151 and 152 Diversion Boxes	/										
HASI	7942	R	UPR-200-W-62, UN-200-W-62	/										
HASI	7943	R	UPR-200-W-67, Contamination near 2706-T, UN-200-W-67	/										
HASI	7944	R	UPR-200-W-7, Contamination Spread from the 241-T-151 and 241-T-152 Diversion Boxes, UN-200-W-7	/										
HASI	7945	R	UPR-200-W-76, UN-200-W-76	/										
HASI	7946	R	UPR-200-W-80, UN-200-W-80	/										
HASI	7947	R	UPR-200-W-81, UN-200-W-81	/										
HASI	7948	R	UPR-200-W-82, UN-200-W-82	/										
HASI	7949	R	UPR-600-20, UN-216-E-41, Cross Country Transfer Line	/										
HASI	7950	R	213-W, 213-W Compactor Facility	/										
HASI	7951	R	213-W-1, 213-W-TK-1, 213-W Compactor Facility Retention Tank	/										

Dataset Name: **FY 1999 Planning Data**

Page 25 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7952	R	241-TXR-151, 241-TXR-151 Diversion Box	/										
HASI	7953	R	244-TXR VAULT, 244-TXR, 244-TXR Vault (Tanks TXR-001, -002, -003)	/										
HASI	7954	R	2607-E10	/										
HASI	7955	R	2607-E12, 2607-E12 Septic System	/										
HASI	7956	R	2607-WC, 2607-WC Septic System	/										
HASI	7957	R	2607-WL, 2607-WL Septic System	/										
HASI	7958	R	270-W, 270-W Tank, 270-W Neutralization Tank	/										
HASI	7959	R	200-E-4, Critical Mass Laboratory Dry Well North, 209-E North Dry Well, Miscellaneous Stream #730	/										
HASI	7960	R	200-W-7, 246-L, 243S-TK-1, 243-S-TK1	/										
HASI	7961	R	209-E-WS-3, Critical Mass Laboratory Valve Pit and Hold Up Tank (209-E-TK-111)	/										
HASI	7962	R	241-Z-8, 241-Z-TK-8, Silica Slurry Tank, 216-Z-8	/										
HASI	7963	R	UPR-200-E-145, W049H Green Soil	/										
HASI	7964	R	216-TY-201, Supernatant Disposal Flush Tank	/										
HASI	7965	R	242-TA-R1, 242-TA, Receiver TK-Vault, 242-TA Receiver Tank Vault, Z Waste, Receiver Tank TK-R1	/										
HASI	7966	R	242-T-135	/										
HASI	7967	R	231-W-151, 231-W-151 Vault, 231-W-151-001 (Tank), 231-W-151-002 (Tank), 231-W-151 Sump, 231-Z-151 Sump	/										

Dataset Name: **FY 1999 Planning Data**

Page 26 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7968	R	241-ER-311A, 241-ER-311A Catch Tank, old 241-ER-311	/										
HASI	7969	R	216-BY-201, Flush Tank 241-BY, 216-BY-47, Supernatant Disposal Flush Tank	/										
HASI	7970	R	200-W-10, Item 10 (RCRA General Inspection), Grout Wall Test	/										
HASI	7971	R	200-W-13, 2713-WB Green Hut Complex	/										
HASI	7972	R	200-E-11, Diesel Oil Spill at BX-BY Tank Farm	/										
HASI	7973	R	200-W-34, 272-WA Septic System North of 213W	/										
HASI	7974	R	200-E-24, 6607-11, 2704-HV Septic System	/										
HASI	7975	R	200-E-27, 242AC Pipefitter Shop Lead Cutting Area	/										
HASI	7976	R	216-Z-21, 216-Z-21 Seepage Basin, PFP Cold Waste Pond	/										
HASI	7977	R	200-E-29, Unplanned Release From 241-ER-152 Diversion Box	/										
HASI	7978	R	200-W-48, 241-TX 90-Day Waste Accumulation Area	/										
HASI	7979	R	200-W-51, Septic Tank (Abandoned)	/										
HASI	7980	R	241-S-304, 241-S-304 Catch Tank	/										
HASI	7981	R	200-W-52, 216-T-7 Crib, 241-T-3 Crib	/										
HASI	7982	R	200-W-53, UPR-200-W-166, UN-216-W-31	/										
HASI	7983	R	200-W-54, Contamination Migration East of 241-SX Tank Farm	/										

Dataset Name: **FY 1999 Planning Data**

Page 27 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **River Protection**

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

Site Summary Level: **Office of River Protection**

HQ ID: **0385**

Project **RL-TW03 / Tank Farms Operations**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	7984	R	216-SX-2 Crib	/										
HASI	7985	R	2727-WA, 2727-WA SRE Sodium Storage Building	/										
HASI	7986	R	200-E-43, Tank Car Storage Area, Regulated Equipment Storage Area, TC-4 Spur Tank Car Storage Area	/										

## Technology Needs

Site Need Code: RL-WT021

Site Need Name: Cleaning, Decontaminating and Upgrading Hanford Pits

Focus Area Work Package ID: WT-04-01

Focus Area Work Package: Ancillary Tank Equipment Enhancements

Focus Area: TFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

Tank Riser Pit Decontamination System

Tank Riser Pit Decontamination System

Cost Savings (in thousands of dollars)

Range of Estimate

0

### Related CCP Milestones

### Related Waste Streams

Agree?

Change?

02113: HLW-20 - Sludge, Salt, Liquid

Y

N

Dataset Name: **FY 1999 Planning Data**

Page 28 of 32

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**  
 Operations/Field Office: **River Protection**  
 Site Summary Level: **Office of River Protection**  
 Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**  
 Print Date: **3/9/2000**  
 HQ ID: **0385**

## Technology Needs

**Site Need Code:** RL-WT022  
**Site Need Name:** Tank Knuckle NDE  
**Focus Area Work Package ID:** WT-03-01  
**Focus Area:** TFA  
**Benefits (Cost, Risk Reduction, Both):** Both

**Focus Area Work Package:** Tank Integrity and Heel Retrieval  
**Agree with Technology Link:** Y

### Technologies

Non-Destructive Examination End-Effector  
 Non-Destructive Examination End-Effector

### Cost Savings (in thousands of dollars)

0

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

02113: HLW-20 - Sludge, Salt, Liquid

### Agree?

Y

### Change?

N

**Site Need Code:** RL-WT026  
**Site Need Name:** Tank Leak Detection Systems for Underground Single-Shell Waste Storage Tanks (SSTs)  
**Focus Area Work Package ID:** WT-03-01  
**Focus Area:** TFA  
**Benefits (Cost, Risk Reduction, Both):** Both

**Focus Area Work Package:** Tank Integrity and Heel Retrieval  
**Agree with Technology Link:** Y

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

02113: HLW-20 - Sludge, Salt, Liquid

### Agree?

Y

### Change?

N

# Project Baseline Summary Report

Data Source: **EM CDB**  
 Operations/Field Office: **River Protection**  
 Site Summary Level: **Office of River Protection**  
 Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**  
 Print Date: **3/9/2000**  
 HQ ID: **0385**

## Technology Needs

**Site Need Code:** RL-WT027  
**Site Need Name:** Tank Leak Mitigation Systems  
**Focus Area Work Package ID:** WT-03-01  
**Focus Area:** TFA  
**Benefits (Cost, Risk Reduction, Both):** Both

**Focus Area Work Package:** Tank Integrity and Heel Retrieval  
**Agree with Technology Link:** Y

### Technologies

GAAT Tank Isolation

### Related CCP Milestones

**Site Need Code:** RL-WT04  
**Site Need Name:** DST Corrosion Monitoring  
**Focus Area Work Package ID:** WT-04-01  
**Focus Area:** TFA  
**Benefits (Cost, Risk Reduction, Both):** Both

### Related Waste Streams

02113: HLW-20 - Sludge, Salt, Liquid

**Focus Area Work Package:** Ancillary Tank Equipment Enhancements  
**Agree with Technology Link:** Y

### Technologies

Corrosion Probe  
 Corrosion Probe

### Related CCP Milestones

### Related Waste Streams

02113: HLW-20 - Sludge, Salt, Liquid

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
---	--------------------------

<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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<u>Agree?</u>	<u>Change?</u>
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Y	N
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<u>Agree?</u>	<u>Change?</u>
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Y	N
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	0
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# Project Baseline Summary Report

Data Source: **EM CDB**  
 Operations/Field Office: **River Protection**  
 Site Summary Level: **Office of River Protection**  
 Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**  
 Print Date: **3/9/2000**  
 HQ ID: **0385**

## Technology Needs

**Site Need Code:** RL-WT05  
**Site Need Name:** Remote Inspection of High-Level Waste Single-Shell Tanks  
**Focus Area Work Package ID:** WT-03-01      **Focus Area Work Package:** Tank Integrity and Heel Retrieval  
**Focus Area:** TFA      **Agree with Technology Link:** Y  
**Benefits (Cost, Risk Reduction, Both):** Both

Technologies      Cost Savings (in thousands of dollars)      Range of Estimate

Non-Destructive Examination End-Effector

<u>Related CCP Milestones</u>	<u>Related Waste Streams</u>	<u>Agree?</u>	<u>Change?</u>
	02113: HLW-20 - Sludge, Salt, Liquid	Y	N

## Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b> Laser Ablation/Mass Spectroscopy (LA/MS)			
Potential Deployment	2000		
<b>Technology Name:</b> Confined Sluicing End Effector			
Potential Deployment	2002		
<b>Technology Name:</b> Pulsed Air			
Potential Deployment	2002		
<b>Technology Name:</b> AEA Fluidic Pulse Jet Mixer			
Potential Deployment	2001		

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **River Protection**

Site Summary Level: **Office of River Protection**

Project **RL-TW03 / Tank Farms Operations**

Report Number: **GEN-01b**

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

HQ ID: **0385**

## Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b> Corrosion Probe Potential Deployment	1999		
<b>Technology Name:</b> SaltCake Dissolution Potential Deployment	2001		
<b>Technology Name:</b> Tank Riser Pit Decontamination System Potential Deployment	2001		
<b>Technology Name:</b> Corrosion Monitoring Potential Deployment	2000		
<b>Technology Name:</b> Enraf Densitometer in AY-102 Deployment Commitment	1999		
<b>Technology Name:</b> Saltwell Portable Exhauster Deployment Commitment	1999		
<b>Technology Name:</b> Continuous Length Leak Detector (Cross Site) Deployment Commitment	1999		
<b>Technology Name:</b> RTD Pit Leak Detectors Deployment Commitment	1999		
<b>Technology Name:</b> Russian Retrieval Technologies Potential Deployment	2002		

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**