

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: **0386**

Project **RL-TW04 / Retrieval Project**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Purpose: The mission of the Retrieval Project is, "in an environmentally sound, safe, secure, and cost-effective manner, to:

1. Retrieve wastes from single-shell tanks, double-shell tanks, and designated miscellaneous underground storage tanks;
2. Provide waste to privatization contractors for processing; and
3. Close those tanks in accordance with regulatory requirements."

The Retrieval Project will establish the functions and requirements and install the equipment needed to deliver the proper waste feed on schedule to the private immobilization contractors for Phase I Privatization, and transition the waste retrieval and treatment to private contractor for Phase II Privatization.

The Tank Waste Remediation System (TWRS) Environmental Impact Statement Record of Decision calls for retrieval of wastes from all 149 single-shell tanks (SSTs), 28 double-shell tanks (DSTs), and miscellaneous underground storage tanks (MUSTs) and to close these tanks in accordance with regulatory requirements. Until all waste is retrieved, the DSTs must function to store and prepare waste retrieved from SSTs and MUSTs for waste disposal facilities.

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

· D&D Tank Farm Facility: At the completion of the Operational mission (post transition) of the Tank Farm System, system elements are decontaminated/stabilized removing/fixing remaining radioactive and/or hazardous contamination from the facilities, equipment or soils by washing, heating, chemical action, mechanical cleaning or other techniques to meet requirements. Tank Farm operable units will be closed in an approved manner and all remaining Tank Farm System elements will be dispositioned appropriately, by dismantling, demolition, disposal, stabilization or reuse. Post closure monitoring will be initiated following closure of the Tank Farms.

Decisions on how tank farms will be closed will be reached through a NEPA process (62FR 8693, Feb 1997). Closure decisions will address tanks (including how much waste must be removed for closure), ancillary equipment, and tank farm soils. Closure decisions for TWRS tank farms must be made in the context of final decisions on the end state for the Hanford Site. Accordingly, TWRS closure has interfaces with the Hanford Site Environmental Restoration Program (ER) which has responsibility for cleanup of contaminated sites outside tank farm boundaries, and cleanup/monitoring of groundwater beneath tank farms. Although final decisions on closure of TWRS facilities have not been made, the baseline planning assumption is that tank farms will be closed as "landfill" under RCRA regulations (i.e. with residual contamination in tanks ancillary equipment, and soils), and that DOE will have regulatory responsibility for stabilization of the radioactive constituents, under its waste management

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rules and DOE Orders. Per the Record of Decision for the TWRS EIS (62FR 8693) additional vadose zone characterization and closure technology development will be required prior to initiating the NEPA process for final decisions on closure.

- Deliver Waste Feed:

DELIVER WASTE FEED (1.01.04.01.01) SCOPE OF WORK:

Scope includes Waste feed delivery system definition, verification of existing components, deployment/startup of new components, preparation (e.g., adjustments, etc.), qualification, removal, and transfers of waste from the Tank Farm System to a treatment facility. Removal of waste includes preparation and qualification of waste for transfer to the private contractor, verification that the waste is compatible with waste in the destination tank, control of the transfer route, containment of waste during transfer, cleaning of the route when the transfer is complete, and material accountability during transfer. Starts with selection of the feeds and the feed tanks. The delivery of waste feed will continue until the DST mission is complete and they are sufficiently cleaned out to allow closure.

This WBS covers work necessary to support satisfying the following technical baseline requirements for the Hanford clean up mission:

- Central Plateau tank waste shall be retrieved to the extent needed for tank closure
- Tank waste shall be separated into High Level and Low Activity fractions.
- Start construction of HLW pretreatment facility. Due Date: 07/2001

Deliver Waste Feed includes the following activities: WFD Project Management; WFD Feed/Process System Definition; WFD Retrieval System Definition; Project W-151 (AZ-101 Mixer Pump Test); Project W-211 (ITRS); Project W-521 (AZ-101, AN-102, AN-107 Retrieval); Project W-522 (Phase 1 DST Retrieval Systems); Project W-523-102-C and 104-C Retrieval; Future DST Retrieval and Transfer Projects; Phase 1 Retrieval Operations; Phase 2 DST Retrieval Operations; Phase 1 Safety Basis; and Phase 1 Characterization.

The detailed analysis required to assure 80% confidence in achieving the schedules will be performed for the rebaselining being done in FY 99. In the interim, the \$248M for risk reduction identified in the Readiness to Proceed was added to the schedule.

WFD Project Management (1.01.04.01.01.01) Scope Includes:

Preparation of strategy documents and plans; development and maintenance of cost account plans and schedules; monthly status of schedules and monitoring cost, and monthly reporting of cost/schedule performance; preparation and presentation of monthly TWR status briefings to FDH and RL; participation in various external reviews, e.g. safety reviews, regulators and oversight groups; interaction BNFL, Inc., as necessary to ensure TWRS is an integrated, life-cycle program and coordination of construction plans, including conducting reviews of program deliverables, i.e. reports, engineering studies, and other milestone media.

WFD Feed/Process System Definition (1.01.04.01.01.02) Scope Includes:

Developing waste feed staging requirements and plans, and developing the bases for project definition and criteria and includes:

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Technical Management Support
Privatization Interface Support
Process Testing
Updating TWRS Operation and Utilization Plan
Developing System Design Concept

WFD Retrieval System Definition (1.01.04.01.01.03) Scope Includes:

Preparation and maintenance of tank retrieval specification documents and plans for use by retrieval projects; defining and development of Project Design Criteria; and developing the technical bases for Phase 1 operations; implementation of System Engineering activities, support the retrieval systems technical management and integration; and preparation of feasibility studies for new projects, which will be supported by various technical analyses, alternative generation analysis, pump optimization activities and support for new technologies.

Project W-151 (AZ-101 Mixer Pump Test) (1.01.04.01.01.04) Scope Includes:

All activities associated with the completion of Project W-151, Tank 101-AZ Waste Retrieval System, and the subsequent 101-AZ mixer pump test. The project has installed two 300-hp mixer pumps, supporting system, and associated monitoring systems to demonstrate solids mobilization in this double-shell tank. There are three major sub-elements with this work; (1) completion of all readiness activities, (2) the installation of the radiation-sensitive components and engineering close-out of Project W-151, and (3) performance of the mixer pump test.

Project W-211 (ITRS) (1.01.04.01.01.05) Scope Includes:

Initial Tank Retrieval Systems (ITRS), is a fiscal year (FY) 1994 Major Systems Acquisition that will provide systems for retrieval of radioactive wastes from selected double-shell tanks (DST). The contents of these tanks are a combination of supernatant liquids and settled solids. To retrieve waste from the tanks, it is first necessary to mix the liquid and solids prior to transferring the waste to other DSTs, from which the waste will be delivered to BNFL, Inc.. The ITRS will provide systems to mobilize the settled solids and transfer the wastes out of the tanks. In so doing, ITRS provides feed for BNFL, Inc., allows for consolidation of tank solids to manage space within existing DST storage capacity, and supports continued safe storage of tank waste.

Project W-521 (AZ-101, AN-102, AN-107 Retrieval) (1.01.04.01.01.06) Scope Includes:

This project is an expense and CENRTC funded project that will provide high-level waste slurry transfer capability from 101-AZ, and low waste supernate transfer capabilities from 102-AN and 107-AN. Mixing for tank 101-AZ to suspend the sludge into a slurry is provided by the Project W-151 mixer pumps, which are currently installed in the tank and are awaiting testing.

Project W-522 (Phase I DST Retrieval Systems) (1.01.04.01.01.07) Scope Includes:

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This project is a fiscal year 2005 Line Item that will provide complete systems for the retrieval of waste from tanks 101-SY and 101-AW. The contents of the tanks are a mixture of supernate and settled solids. To retrieve waste from the tanks, it is first necessary to suspend the solids by mixing. Once mixed the waste will then be delivered to BNFL, Inc.. Project W-522 will provide systems to mobilize and transfer the wastes from these tanks to the next step in the Waste Feed Delivery System.

W-523 102-C and 104-C Retrieval (1.01.04.01.01.08) Scope Includes:

This project will provide the systems and equipment to mobilize the waste, transfer the waste through the temporary pipe line to 102-AY installed by project W-320, and detect, minimize, and respond to any tank leakage. These tanks contain high level waste sludges to provide HLW feed to BNFL, Inc..

An assumption was made that this will be an expense funded project rather than a capital line item. There is significant schedule risk if it is determined that this is not appropriate.

Future DST Retrieval and Transfer Projects (1.01.04.01.01.09) Scope Includes:

This placeholder project is reserved for any work scope which is not currently identified, but which may be identified in work underway to define the Waste Feed Delivery System.

Phase 1 Retrieval Operations (1.01.04.01.01.10) Scope Includes:

Operating the Waste Retrieval Sluicing System (WRSS) to remove the soft sludge in single shell tank 241-C-106 (C-106) in two campaigns. The WRSS will retrieve and transfer high-heat sludge from C-106 to double shell tank 241-AY-102 (AY-102), which is designed for high-heat waste storage. Removal of the first two feet (Campaign number 1) will remove enough heat generating material from C-106, and reduce the sludge thickness, such that the remaining waste in C-106 will not over-heat the tank sufficiently to cause structural failure as is currently possible if approximately 6,000 gallons of water is not added to the tank each month for evaporative cooling. This activity also performs all the operations needed to retrieve and transfer waste throughout tank farms to deliver waste feed to BNFL, Inc..

Phase 2 DST Retrieval Operations (1.01.04.01.01.11) Scope Includes:

Operation of the DST System during Phase 2 by a private contractor.

Phase 1 Safety Basis (1.01.04.01.01.12) Scope Includes:

Developing an Authorization Basis amendment that encompasses Waste Feed Delivery Phase 1B activities. HNF-1722, Tank Waste Remediation System Retrieval Authorization Basis Amendment Task Plan, identifies the scope of work, tasks and deliverables, responsibilities, and schedule for this Authorization Basis amendment.

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Phase 1 Characterization (1.01.04.01.01.13) Scope Includes:

This scope is described in Waste Characterization Project (TW01).

- Retrieve SST Waste: This function retrieves and transfers wastes from the SSTs to the DSTs for further waste processing. This function starts with system definition and includes design, construction and startup and operation of SST retrieval systems. This function is complete when tank wastes from the SSTs and MUSTs have been removed and transferred to the DSTs leaving the SSTs and MUSTs sufficiently cleaned out to permit closure.

Retrieval of wastes from SSTs in accordance with the listed technical baseline requirements assumes that DST receiver facility storage space is available to accept retrieved wastes in accordance with the required SST retrieval schedule. This assumption imposes significant risk to the program's ability to comply with the listed technical baseline requirements. The SST Program has initiated action in FY99 to resolve the uncertainties associated with this assumption by the end of the fiscal year

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

- After the waste has been retrieved from the tanks, the tank farms (including the tanks) will be closed.
- Retrieve tank wastes to the extent needed for tank closure, divide into high level and low activity fractions and immobilize.
- Remove Central Plateau (200 Area) non-essential, surplus buildings and facilities that don't have identified post-cleanup uses.

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

- Technical Approach - Retrieval Project:

The baseline technical approach for the Waste Retrieval Project during Phase I contains the following key elements:

1. Select supernatants that meet the requirements of three LAW envelopes and transfer them to BNFL, Inc., to demonstrate radio nuclide removal and immobilization of LAW.
2. Select tank sludges, that when washed with water or caustic, meet contractual HLW feed requirements. Transfer the sludges to BNFL, Inc. for pretreatment and immobilization into a form that meets the repository waste acceptance criteria.
3. Continue to explore new and innovative methods and emerging technologies that could result in significant cost and schedule savings through a combination of technology transfer from industry; lessons learned from the operations of DWPF, WVDP, and foreign experience; and limited

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technology development.

4. Participate with the other TWRS projects and TWRS systems engineering on tank retrieval sequence, blending, pretreatment, and vitrification options in a continuing effort to optimize total program costs.

The Phase II technical approach is still being defined, but current planning is to perform limited laboratory-scale testing using pretreated radioactive waste to the extent required to confirm the product specifications developed for Phase II vitrification.

Proven retrieval technology will be applied as the waste retrieval baseline for SST and DST retrieval. Technology enhancements and alternatives will be implemented to improve performance and reliability and address difficult-to-retrieve and potentially environmentally impacting technology. The Retrieval Project relies on EM-50 technology development efforts to provide for improved retrieval technologies.

Hydraulic sluicing, similar to past-practice, is the reference technology for SST waste mobilization. Sluicing will be demonstrated in tank 106-C. Sluicing will also be applied to the Initial Single-Shell Tank Retrieval System (ISSTRS). Parallel to the design of the ISSTRS is the development of leak monitoring and mitigation methods to address potential environmental impacts associated with leakage during hydraulic sluicing. Improvements to SST retrieval are needed for difficult-to-retrieve waste or for tanks that may leak beyond allowable limits. Improved retrieval technologies are to be demonstrated in tank 106-C to remove the heel following sluicing. The Hanford Tank Initiative (HTI) will provide demonstration of improved technologies as well as work toward defining closure criteria to determine acceptable waste residual following retrieval activities.

Mixer pumps are the reference technology for DST waste mobilization for retrieval. A process test will be performed in tank 101-AZ to demonstrate the capability of mixer pumps to mobilize neutralized current acid waste sludge. Concurrent with this activity, advanced design mixer pumps will be procured and tested with the goal of improved reliability and reduced life-cycle costs. Performance data obtained will be applied to other equipment used by the Initial Tank Retrieval System project, which will provide mixer pump based retrieval systems for 10 DSTs.

The following technology needs have been identified and prioritized through the Hanford Site Technology Coordination Group for the Tank Focus Area:

- Establish Retrieval Performance Criteria
- SST Alternative Retrieval Technologies
- Advanced Design Mixer Pumps for Mixer Pump Enhancement
- Tank Leak Detection and Mitigation Systems for SSTs
- Alternative to Mixer Pumps for better reliability and longer life
- High Accuracy Psychometric/Flow Measurements capability to improve process control
- Identification and management of Chromium and problem constituents for Hanford HLW vitrification
- Avoidance of formation of solids in Phase I liquid tank wastes
- Prediction of gel and precipitate formation in Hanford Tank Waste
- Enhanced sludge wash data for extended operations of Phase I and for Phase II RFP preparation

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Project Status in FY 2006:

Tank Farm System

- Waste retrieval has been initiated from 10 SSTs; all remaining SSTs, of the 35 Phase 1 SSTs, have been prepared for retrieval.

SST waste retrieval demonstrations will be complete on tank C-106 high-heat waste removal and residual heel cleanout.

- D&D of the SSTs and DSTs has not begun in FY2006

WFD Feed/Process system Definition

Feed and process systems are defined. Perform technical support as needed to maintain system configuration.

WFD Retrieval System Definition

Waste retrieval system definition is complete. Provide technical assistance to maintain waste feed configuration.

Project W-151

Complete

Project W-211

Tank AN-105; Complete construction

Tank AN-104; Start Construction

Tank AY-102; Turnover and Startup

Project W-521

Tank AN-102; Complete construction, equipment procurement, and startup

Project W-522

Tank SY-101; Begin design

Tank AW-101; Complete design, begin construction and equipment procurement

Project W-523

Tank C-102; Construction continues

Tank C-104; Construction is complete and retrieval is initiated

Future DST Retrieval and Transfer Projects

TBD

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Phase 1 Retrieval Operations

Seven DST retrieval systems are operational

Phase 1 Safety Basis

Maintain WFD Authorization Basis

Post-2006 Project Scope:

Tank Farm System

- SST and MUST waste retrieval scheduled to complete by 2018.
- Closure of the DSTs may begin as early as 2024 and is scheduled for completion by 2034. SST closure is scheduled to begin in 2014, and be completed by 2025
- WFD Feed/Process system Definition
Feed and process systems are defined. Perform technical support as needed to maintain system configuration.

WFD Retrieval System Definition

Waste retrieval system definition is complete. Provide technical assistance to maintain waste feed configuration.

Project W-151

Complete

Project W-211

Tank AN-105; Turnover and startup
Tank AN-104; Construction, turnover and startup
Tank AN-103; Construction, turnover and startup
Tank SY-102; Construction, turnover and startup
W-211 is completed in FY2011

Project W-521

Tank AN-102; Construction, turnover and startup
W-521 is complete in FY2007

Project W-522

Tank SY-101; Construction, turnover and startup

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Tank AW-101; Construction, turnover and startup
W-522 is complete in FY2010

Project W-523

Tank C-102; Construction is complete, retrieval initiated and transfer of waste complete
Tank C-104; Construction is complete, retrieval initiated and transfer of waste complete
W-522 is complete in FY2010

Future DST Retrieval and Transfer Projects
TBD

Phase 1 Retrieval Operations

All Phase 1 retrieval systems are operational by FY2011.
Order quantites of waste feed have staged and delivered to BNFL, Inc.
Retrieval operations for Phase 1 will be complete by FY2018

Phase 1 Safety Basis

Maintain WFD Authorization Basis

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

Work associated with facility performed by Tank Farm Operations:

Transition Tank Farm Facilities
Maintain Safe & Compliant Tank Farm System

Maintain Safe & Compliant Waste Within Tank Farm System

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:

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-

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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:

The Retrieval Project is in the early stages of an activity that will continue for over 50 years, including post closure monitoring. Components of the project include planning, conceptual design, detail design, construction, and operations of tank waste retrieval systems, and tank closure and post closure monitoring. The hazards that will be encountered are normal for design, construction, and operation of equipment in a radioactive mixed waste environment. The hazards associated with retrieval operations are outlined in the "Tank Waste Remediation System Basis for Interim Operation", HNF-SD-WM-BIO-001, Rev 0 which will be expanded to include Retrieval specific hazards as outlined in "TWRS Retrieval Authorization Basis Amendment Task Plan", HNF-1722, Rev 0. These hazards will be controlled by equipment design and operation within the safety basis envelope, worker safety during construction and operations, and radiation protection for workers and the public during construction and operation. In the decommissioning and tank closure phase of the project the principle hazards will involve normal occupational safety hazards related to closure barrier construction and soil remediation. Currently, the project is in the design phase for DST retrieval. Focus is on design within the safety envelope. SST retrieval is nearing completion of retrieval of waste from the first tank. Focus is on worker safety and radiation protection preparedness during operations and operations within the safety envelope.

Safety & Health Work Performance:

PBS Comments:

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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:

1. HTI (\$5,722K)

This would result in a delay which impacts the Phase II Privatization RFP by precluding the completion of a complete specification for vendor retrieval requirements. A delay prevents the completion of the SST retrieval program design with a technically defensible basis.

2. Tank Farm Closure (\$1,595K)

Delay of FY99 closure work scope will result in delay in decision making for tank farm closure and result in increased cost/schedule risk to SST retrieval.

TWR-98-022 has been submitted and is pending approval by RL. The following TPA milestones from 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.

Baseline Validation Narrative:

A life-cycle, activity based cost estimate was prepared for the TWRS Retrieval project. In addition, Construction Project Validations have been completed for each ongoing construction 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?

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	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

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Project **RL-TW04 / Retrieval Project**

General PBS Information

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)

	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)	1,086,285	5,022,542	6,108,827	33,919	31,278	67,685	55,522	51,502	75,251	127,477	144,487	174,246	119,676	135,213	156,829	
PBS Baseline (constant 1999 dollars)	1,005,364	3,471,354	4,476,718	33,919	31,278	67,685	55,522	51,502	73,703	122,167	135,488	159,876	107,443	118,779	134,802	
PBS EM Baseline (current year dollars)	1,086,285	5,022,542	6,108,827	33,919	31,278	67,685	55,522	51,502	75,251	127,477	144,487	174,246	119,676	135,213	156,829	
PBS EM Baseline (constant 1999 dollars)	1,005,364	3,471,354	4,476,718	33,919	31,278	67,685	55,522	51,502	73,703	122,167	135,488	159,876	107,443	118,779	134,802	
	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)	144,026	155,681	147,870	124,089	2,304,115	1,115,179	523,735	252,559	227,551	10,947	7,932	8,858				
PBS Baseline (constant 1999 dollars)	121,132	128,116	119,068	97,768	1,701,462	738,598	311,116	134,560	108,736	4,693	3,050	3,055				
PBS EM Baseline (current year dollars)	144,026	155,681	147,870	124,089	2,304,115	1,115,179	523,735	252,559	227,551	10,947	7,932	8,858				
PBS EM Baseline (constant 1999 dollars)	121,132	128,116	119,068	97,768	1,701,462	738,598	311,116	134,560	108,736	4,693	3,050	3,055				

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Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
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%
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: 9/30/2046

Current Projected End Date of Project: 9/30/2046

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	3,968,951	Actual 1997 Cost:	31,278	Actual 1998 Cost:	55,522
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	3,882,151	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			104,818
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	3,986,969				

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: 3,986,969

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Project **RL-TW04 / Retrieval Project**

Project Reconciliation

Additional Amount to Reconcile (+):	388,145
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Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	4,375,114
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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
C/ DEMO & INSTL OF LEAK MONITOR & MITIGATION SYS FOR INIT SST RET	T04-03-792	6/30/2003	6/30/2003	6/30/2003						Y	
C/ SYS DES & OPER STRATEGY FOR TANK LEAK MONITORING & MITIGATION	T04-00-731	12/31/2000	12/29/2000	12/31/2000						Y	
COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS	T04-24-052	9/30/2024	1/7/2025	9/30/2024						Y	
COMPLETE CLOSURE OF ALL SINGLE-SHELL TANK FARMS	T04-24-051	9/30/2024	1/7/2025	9/30/2024						Y	
EST FULL SCALE CAP FOR MITIGATION OF WASTE TANK LEAK DURING SLUIC	T04-03-791	6/30/2003	6/30/2003	6/30/2003						Y	
INITIATE SLUICING RETRIEVAL OF C-106	T04-98-161	10/31/1997	10/31/1997	10/31/1997		11/18/1998	Y			Y	
RETRIEVE WASTE FROM ALL REMAINING SINGLE-SHELL TANKS	T04-18-1B1	9/30/2018	9/28/2018	9/30/2018						Y	
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROV	T04-00-241	9/30/2000	9/29/2000	9/30/2000						Y	
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-04-241	9/30/2004	9/30/2004	9/30/2004						Y	
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-99-241	9/30/1999	9/30/1999	9/30/1999						Y	
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-99-341	9/30/1999	9/30/1999	9/30/1999						Y	
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROV	T04-01-241	9/30/2001	9/28/2001	9/30/2001						Y	

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HQ ID: **0386**

Project **RL-TW04 / Retrieval Project**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROV	T04-02-241	9/30/2002	9/30/2002	9/30/2002						Y	
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-03-241	9/30/2003	9/30/2003	9/30/2003						Y	
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-00-341	9/30/2000	9/29/2000	9/30/2000						Y	
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-01-341	9/30/2001	9/27/2001	9/30/2001						Y	
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-03-341	9/30/2003	9/30/2003	9/30/2003						Y	
SELECT C-106 RETRIEVAL VENDOR	T04-99-506	3/1/1999	3/1/1999		3/31/1999						
COMPLETE SITE UPGRADES DESIGN	T04-00-513	9/29/2000	9/29/2000								
TWR1.1.1 COMPLETE AX-104 LDUA SAMPLING CAMPAIGN	T04-98-511	6/30/1999	6/30/1999		12/31/2049						
COMPLETE CP DEMONSTRATION PUSHES AT AX-104	T04-99-525	3/31/1999	3/31/1999		12/31/2049						
ISS FIN CONCLUSION & RECOMMENDATION RPT FOR AX-104 TK FM CLOS ALT	T04-99-517	4/29/1999	4/29/1999		12/31/2049						
TWR1.1.1 COMPLETE CP VERIFICATION PUSHES AT AX-104	T04-99-526	9/30/1999	9/30/1999		12/31/2049						
Issue LDUA Sample Validated Data Report	T04-98-531	9/30/1999	9/30/1999		12/31/2049						
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-02-341	9/30/2002	9/30/2002	9/30/2002						Y	
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT	T04-05-241	9/30/2005	9/30/2005							Y	
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-06-241	9/29/2006	9/29/2006							Y	

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Project **RL-TW04 / Retrieval Project**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-07-241	9/28/2007	9/28/2007				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-08-241	9/30/2008	9/30/2008				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-09-241	9/30/2009	9/30/2009				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-10-241	9/30/2010	9/30/2010				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-11-241	9/30/2011	9/30/2011				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-12-241	9/28/2012	9/28/2012				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-13-241	9/30/2013	9/30/2013				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-14-241	9/30/2014	9/30/2014				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-15-241	9/30/2015	9/30/2015				Y				
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT	T04-16-241	9/29/2016	9/29/2016				Y				
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT	T04-17-241	9/29/2017	9/29/2017				Y				
Begin Retrieval Project	PBS-97-004		2/28/1997								
PBS Mission Completion	PBS-MC-004		9/30/2046								
PBS Project End	PBS-PE-004		9/30/2046								

Milestones - Part II

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Project **RL-TW04 / Retrieval Project**

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
C/ DEMO & INSTL OF LEAK MONITOR & MITIGATION SYS FOR INIT SST RET	T04-03-792										Complete demonstration and installation of the Leak Monitoring and Mitigation Systems for initial single-shell tank retrieval.
C/ SYS DES & OPER STRATEGY FOR TANK LEAK MONITORING & MITIGATION	T04-00-731										Complete system design and operating strategy for leak monitoring and mitigation for systems to be used in conjunction with initial retrieval systems for SSTs.
COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS	T04-24-052										Closure will follow retrieval of as many tanks as technically possible, with tank waste residue not to exceed 360 cubic feet in each of the 100 series tanks, 30 cubic feet in each of the 200 series tanks, or the limit of waste retrieval technology capability.
COMPLETE CLOSURE OF ALL SINGLE-SHELL TANK FARMS	T04-24-051										Complete closure of SST farms in 200 East and 200 West Areas in accordance with Tank Farm Closure/Post Closure Plans to be issued by the Washington State Department of Ecology in accordance with WAC 173-303 regulations.
EST FULL SCALE CAP FOR MITIGATION OF WASTE TANK LEAK DURING SLUIC	T04-03-791										Establish full-scale capability for mitigation of waste tank leakage during retrieval sluicing operations.
INITIATE SLUICING RETRIEVAL OF C-106	T04-98-161										Design, procure, construct, test, complete all required documentation, obtain all necessary permits and authorizations to initiate sluicing retrieval of tank 241-C-106 to resolve the high-heat safety issue and

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Project **RL-TW04 / Retrieval Project**

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
RETRIEVE WASTE FROM ALL REMAINING SINGLE-SHELL TANKS	T04-18-1B1										demonstrate waste retrieval.
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROV	T04-00-241										Retrieve as much tank waste as technically possible, with tank waste residues not to exceed 360 cubic feet (Cu. Ft.) in each of the 100 series tanks, 30 Cu Ft in each of the 200 series tanks, or the limit of waste retrieval technology capability, whichever
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-04-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-99-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
											Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r

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Project **RL-TW04 / Retrieval Project**

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
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-99-341										Submit annual progress report on the development of waste tank leak monitoring/detection and mitigation activities in support of M-45-08. Report will provide a description of work accomplished under M-45-08. Report will also summarize any demonstrations
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROV	T04-01-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROV	T04-02-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-03-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL PROGRESS	T04-00-341										Submit annual progress report on the

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Project **RL-TW04 / Retrieval Project**

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
RPT ON WT LEAK MONITOR/DETECT & MITIGATION											development of waste tank leak monitoring/detection and mitigation activities in support of M-45-08. Report will provide a description of work accomplished under M-45-08. Report will also summarize any demonstrations
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-01-341										Submit annual progress report on the development of waste tank leak monitoring/detection and mitigation activities in support of M-45-08. Report will provide a description of work accomplished under M-45-08. Report will also summarize any demonstrations
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-03-341										Submit annual progress report on the development of waste tank leak monitoring/detection and mitigation activities in support of M-45-08. Report will provide a description of work accomplished under M-45-08. Report will also summarize any demonstrations
SELECT C-106 RETRIEVAL VENDOR	T04-99-506										Exercise contract option with one or two vendors to authorize work on Phase 2 (design, fabrication, retrieval service), in accordance with approved specification.
COMPLETE SITE UPGRADES DESIGN	T04-00-513										Provide design of site upgrades and modifications to support the retrieval system to be installed on Tank 241-C-106 for demonstration of heel retrieval based on the design

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Project **RL-TW04 / Retrieval Project**

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
TWR1.1.1 COMPLETE AX-104 LDUA SAMPLING CAMPAIGN	T04-98-511										specification. This will include drawings, specifications, and other such items
COMPLETE CP DEMONSTRATION PUSHES AT AX-104	T04-99-525										The mission of the LDUA sampling campaign in tank AX-104 is to: 1) retrieve samples of the accessible residual waste on the tank bottom, and, if possible, the hard to reach locations that includes the waste on tank liner ribs and on the tank dome; 2) tran
ISS FIN CONCLUSION & RECOMMENDATION RPT FOR AX-104 TK FM CLOS ALT	T04-99-517										The initial hot deployment demonstration of the cone penetrometer (CP)-deployed multi-sensor probe (MSP) and soil sampler probe (SSP) will be performed in the backfill material and upper vadose zone surrounding the AX-104 tank site. The technology objec
TWR1.1.1 COMPLETE CP VERIFICATION PUSHES AT AX-104	T04-99-526										Prepare a final report that presents the conclusions and recommendations of the retrieval performance evaluation. This report will be prepared by Jacobs Engineering Group, Inc., under separate contract to RL. The final conclusions report will include app
											The performance of the cone penetrometer (CP)-deployed multi-sensor probe (MSP) and soil sample probe (SSP) technology will be demonstrated in a series of push events in close proximity to Tank

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Project **RL-TW04 / Retrieval Project**

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
Issue LDUA Sample Validated Data Report	T04-98-531										241-AX-104. The success of these push events will provide th
SUBMIT ANNUAL PROGRESS RPT ON WT LEAK MONITOR/DETECT & MITIGATION	T04-02-341										A sampling campaign in tank AX-104 using the Light-Duty Utility Arm (LDUA) is planned for in FY-99. This milestone is contingent upon and assumes delivery of residual waste samples from AX-104 to the 222-S laboratory facility by March 31, 1999. These sa
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT	T04-05-241										Submit annual progress report on the development of waste tank leak monitoring/detection and mitigation activities in support of M-45-08. Report will provide a description of work accomplished under M-45-08. Report will also summarize any demonstrations
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQ DOC FOR ECOLOGY APPROVAL	T04-06-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
											Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval

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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
SUBMIT ANNUAL UPDATE SST	T04-07-241										schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL UPDATE SST	T04-08-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											
SUBMIT ANNUAL UPDATE SST	T04-09-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											
SUBMIT ANNUAL UPDATE SST	T04-10-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											

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Project **RL-TW04 / Retrieval Project**

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
SUBMIT ANNUAL UPDATE SST	T04-11-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											
SUBMIT ANNUAL UPDATE SST	T04-12-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											
SUBMIT ANNUAL UPDATE SST	T04-13-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											
SUBMIT ANNUAL UPDATE SST	T04-14-241										Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
RETRIEVAL SEQUENCE DOCUMENT											
SUBMIT ANNUAL UPDATE SST	T04-15-241										Based on the TWRS flowsheet and

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Project **RL-TW04 / Retrieval Project**

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
RETRIEVAL SEQUENCE DOCUMENT											systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT											Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
SUBMIT ANNUAL UPDATE SST RETRIEVAL SEQUENCE DOCUMENT											Based on the TWRS flowsheet and systems models, provide a Single-Shell Tank Retrieval Sequence Document that defines the tank selection criteria, tank selection rationale, reference retrieval methods for each tank, estimated retrieval schedules, and the r
Begin Retrieval Project	PBS-97-004					Y					Administrative input to document the start of this PBS.
PBS Mission Completion	PBS-MC-004						Y				Administrative input to document the mission completion of this PBS.
PBS Project End	PBS-PE-004					Y					Administrative input to document the project end of this PBS.

Performance Measure Metrics

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Project **RL-TW04 / Retrieval Project**

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
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	
Fac.														
Decom.- Assess.	NF	0.00	2.00	2.00										
Fac.														
Decom- Cleanup	NF	0.00	166.00	166.00										
Fac.														
Deact. During Per.	NF	0.00	17.00	17.00										
HLW														
Treatment	M3	1,395.00	0.00	1,395.00							70.00	1,325.00		
HLW														
Storage	M3													
Tech.														
Deployed	Ntd	8.00	0.00	8.00						2.00	3.00	3.00		
Fac.														
Decom.- Assess.	NF								1.00	1.00				
Fac.														
Decom- Cleanup	NF								1.00		96.00	2.00	67.00	
Fac.														
Deact. During Per.	NF										11.00		6.00	
HLW														
Treatment	M3													
HLW														
Storage	M3			203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00

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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			
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						
Tech.																
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						
Fac.																
Decom.- Assess.	NF								164.00	166.00						
Fac.																
Decom- Cleanup	NF									166.00						
Fac.																
Deact. During Per.	NF									17.00						
HLW																
Treatment	M3								747,272.00	748,667.00						
HLW																
Storage	M3	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00	203,193.00							
Tech.																
Deployed	Ntd									8.00						
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	7987	R	204-AR, 204-AR Waste Unloading Station	/												
HASI	7988	R	207-T, T Plant Retention Basin, 207-T, 207-T	/ Retention Basin												
HASI	7989	R	216-A-30, 216-A-30 Crib	/												
HASI	7990	R	216-A-37-2, 216-A-37-2 Crib	/												

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HASI	7991	R	216-A-39, 216-A-39 Crib, 216-A-39 Trench	/										
HASI	7992	R	241-B-111, 241-B-TK-111	/										
HASI	7993	R	241-B-112, 241-B-TK-112	/										
HASI	7994	R	241-B-201, 241-B-TK-201	/										
HASI	7995	R	241-B-202, 241-B-TK-202	/										
HASI	7996	R	241-B-203, 241-B-TK-203	/										
HASI	7997	R	241-B-204, 241-B-TK-204	/										
HASI	7998	R	241-BR-152, 241-BR-152 Diversion Box	/										
HASI	7999	R	241-BX-153, 241-BX-153 Diversion Box	/										
HASI	8000	R	241-BX-154, 241-BX-154 Diversion Box	/										
HASI	8001	R	241-BX-155, 241-BX-155 Diversion Box	/										
HASI	8002	R	241-BX-101, 241-BX-TK-101	/										
HASI	8003	R	216-A-40 Retention Basin, 216-A-39 Crib, 216-A-39 Trench	/										
HASI	8004	R	216-A-8, 216-A-8 Crib	/										
HASI	8005	R	216-B-3A, B Pond Lobe A, B Pond First Expansion Lobe	/										
HASI	8006	R	216-B-3B, B Pond Lobe B, B Pond Second Expansion Lobe	/										
HASI	8007	R	216-B-3C, B Pond Lobe C, B Pond Third Expansion Lobe	/										
HASI	8008	R	216-B-55, 216-B-55 Enclosed Trench, 216-B-55 Crib	/										
HASI	8009	R	216-B-62, 216-B-62 Enclosed Trench, 216-B-62 Crib	/										

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HASI	8010	R	216-B-63, B Plant Chemical Sewer, 216-B-63 Trench	/										
HASI	8011	R	216-C-7, 216-C-7 Crib	/										
HASI	8012	R	216-E-28, 216-E-25, 200 East Area Contingency Pond	/										
HASI	8013	R	216-S-25, 216-S-25 Crib	/										
HASI	8014	R	216-S-26, 216-S-19 Replacement Facility, 216-S-26 Crib	/										
HASI	8015	R	216-T-1, 221-T Ditch, 221-T Trench, 216-T-1 Trench	/										
HASI	8016	R	216-T-12, 207-T Sludge Grave, 207-T Sludge Pit, 216-T-11	/										
HASI	8017	R	216-T-31	/										
HASI	8018	R	216-T-32, 241-T #1 & 2 Cribs, 216-T-6	/										
HASI	8019	R	216-T-4-2, 216-T-4-2 Ditch	/										
HASI	8020	R	216-U-16, UO3 Crib	/										
HASI	8021	R	216-U-17	/										
HASI	8022	R	216-W-LWC, 216-W-LC, Laundry Waste Crib, 216-W-LWC Crib, 216-W-1	/										
HASI	8023	R	216-Z-20, Z-19 Ditch Replacement Tile Field	/										
HASI	8024	R	240-S-151, 240-S-151 Diversion Box	/										
HASI	8025	R	240-S-152, 240-S-152 Diversion Box	/										
HASI	8026	R	240-S-302, 240-S-302 Catch Tank	/										
HASI	8027	R	241-A-151, 241-A-151 Diversion Box	/										

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HASI	8028	R	241-A-152, 241-A-152 Diversion Box	/										
HASI	8029	R	241-A-153, 241-A-153 Diversion Box, 241-A-153 Transfer Station	/										
HASI	8030	R	241-A-302A, 241-A-302-A Catch Tank	/										
HASI	8031	R	241-A-350, 241-A-350 Catch Tank, 241-A-350 Drainage Lift Station	/										
HASI	8032	R	241-A-417, 241-A-417 Condensate Tank	/										
HASI	8033	R	241-A-702-WS-1, 702-A Drain Lines	/										
HASI	8034	R	241-A-A, 241-A-A Diversion Box, 241-A-A Structural Valve Pit	/										
HASI	8035	R	241-A-B, 241-A-B Diversion Box, 241-A-B Structural Valve Pit	/										
HASI	8036	R	241-A-101, 241-A-TK-101	/										
HASI	8037	R	241-A-102, 241-A-TK-102	/										
HASI	8038	R	241-A-103, 241-A-TK-103	/										
HASI	8039	R	241-A-104, 241-A-TK-104	/										
HASI	8040	R	241-A-105, 241-A-TK-105	/										
HASI	8041	R	241-A-106, 241-A-TK-106	/										
HASI	8042	R	241-AN-A, 241-AN-A Diversion Box	/										
HASI	8043	R	241-AN-B, 241-AN-B Diversion Box	/										
HASI	8044	R	241-AN-101, 241-AN-TK-101	/										
HASI	8045	R	241-AN-102, 241-AN-TK-102	/										
HASI	8046	R	241-AN-103, 241-AN-TK-103	/										
HASI	8047	R	241-AN-104, 241-AN-TK-104	/										

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HASI	8048	R	241-AN-105, 241-AN-TK-105	/										
HASI	8049	R	241-AN-106, 241-AN-TK-106	/										
HASI	8050	R	241-AN-107, 241-AN-TK-107	/										
HASI	8051	R	241-AP VP, 241-AP Valve Pit	/										
HASI	8052	R	241-AP-101, 241-AP-TK-101	/										
HASI	8053	R	241-AP-102, 241-AP-TK-102	/										
HASI	8054	R	241-AP-103, 241-AP-TK-103	/										
HASI	8055	R	241-AP-104, 241-AP-TK-104	/										
HASI	8056	R	241-AP-105, 241-AP-TK-105	/										
HASI	8057	R	241-AP-106, 241-AP-TK-106	/										
HASI	8058	R	241-AP-107, 241-AP-TK-107	/										
HASI	8059	R	241-AP-108, 241-AP-TK-108	/										
HASI	8060	R	241-AR-151, 241-AR-151 Diversion Box	/										
HASI	8061	R	241-AW-A, 241-AW-A Valve Pit, 241-AW-A / Diversion Box	/										
HASI	8062	R	241-AW-B, 241-AW-B Valve Pit, 241-AW-B / Diversion Box	/										
HASI	8063	R	241-AW-101, 241-AW-TK-101	/										
HASI	8064	R	241-AW-102, 241-AW-TK-102	/										
HASI	8065	R	241-AW-103, 241-AW-TK-103	/										
HASI	8066	R	241-AW-104, 241-AW-TK-104	/										
HASI	8067	R	241-AW-105, 241-AW-TK-105	/										
HASI	8068	R	241-AW-106, 241-AW-TK-106	/										

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HASI	8069	R	241-AX-152CT, 241-AX-152-CT Catch Tank	/										
HASI	8070	R	241-AX-152DS, 241-AX-152 Diverter Station, 241-AX-152-DS Diverter Station	/										
HASI	8071	R	241-AX-155, 241-AX-155 Diversion Box	/										
HASI	8072	R	241-AX-501, 241-AX-501 Valve Pit, 241-AX-501 Condensate Valve Pit	/										
HASI	8073	R	241-AX-A, 241-AX-A Diversion Box, 241-AX-A Structural Valve Pit, 241-AX-A Valve Pit	/										
HASI	8074	R	241-AX-B, 241-AX-B Diversion Box, 241-AX-B Structural Valve Pit, 241-AX-B Valve Pit	/										
HASI	8075	R	241-AX-101, 241-AX-TK-101	/										
HASI	8076	R	241-AX-102, 241-AX-TK-102	/										
HASI	8077	R	241-AX-103, 241-AX-TK-103	/										
HASI	8078	R	241-AX-104, 241-AX-TK-104	/										
HASI	8079	R	241-AY-151, 241-AY-151 Diversion Box, 241-AY-151 Pump Out Pit	/										
HASI	8080	R	241-AY-152, 241-AY-152 Diverter Station, 241-AY-152 Sluice Transfer Box	/										
HASI	8081	R	241-AY-101, 241-AY-TK-101	/										
HASI	8082	R	241-AY-102, 241-AY-TK-102	/										
HASI	8083	R	241-AZ-151CT, 241-AZ-151-CT Catch Tank	/										
HASI	8084	R	241-AZ-151DS, 241-AZ-151-DS Diverter Station, 241-AZ-151 Diverter Station	/										
HASI	8085	R	241-AZ-152, 241-AZ-152 Diversion Box,	/										

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			241-AZ-152 Sluice Transfer Box											
HASI	8086	R	241-AZ-101, 241-AZ-TK-101		/									
HASI	8087	R	241-AZ-102, 241-AZ-TK-102		/									
HASI	8088	R	241-B-151, 241-B-151 Diversion Box		/									
HASI	8089	R	241-B-152, 241-B-152 Diversion Box		/									
HASI	8090	R	241-B-153, 241-B-153 Diversion Box		/									
HASI	8091	R	241-B-154, 241-B-154 Diversion Box		/									
HASI	8092	R	241-B-252, 241-B-252 Diversion Box		/									
HASI	8093	R	241-B-101, 241-B-TK-101		/									
HASI	8094	R	241-B-102, 241-B-TK-102		/									
HASI	8095	R	241-B-103, 241-B-TK-103		/									
HASI	8096	R	241-B-104, 241-B-TK-104		/									
HASI	8097	R	241-B-105, 241-B-TK-105		/									
HASI	8098	R	241-B-106, 241-B-TK-106		/									
HASI	8099	R	241-B-107, 241-B-TK-107		/									
HASI	8100	R	241-B-108, 241-B-TK-108		/									
HASI	8101	R	241-B-109, 241-B-TK-109		/									
HASI	8102	R	241-B-110, 241-B-TK-110		/									
HASI	8103	R	241-BX-102, 241-BX-TK-102		/									
HASI	8104	R	241-BX-103, 241-BX-TK-103		/									
HASI	8105	R	241-BX-104, 241-BX-TK-104		/									
HASI	8106	R	241-BX-105, 241-BX-TK-105		/									

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HASI	8107	R	241-BX-106, 241-BX-TK-106	/										
HASI	8108	R	241-BX-107, 241-BX-TK-107	/										
HASI	8109	R	241-BX-108, 241-BX-TK-108	/										
HASI	8110	R	241-BX-109, 241-BX-TK-109	/										
HASI	8111	R	241-BX-110, 241-BX-TK-110	/										
HASI	8112	R	241-BX-111, 241-BX-TK-111	/										
HASI	8113	R	241-BX-112, 241-BX-TK-112	/										
HASI	8114	R	241-BXR-151, 241-BXR-151 Diversion Box	/										
HASI	8115	R	241-BXR-152, 241-BXR-152 Diversion Box	/										
HASI	8116	R	241-BXR-153, 241-BXR-153 Diversion Box	/										
HASI	8117	R	241-BY-101, 241-BY-TK-101	/										
HASI	8118	R	241-BY-102, 241-BY-TK-102	/										
HASI	8119	R	241-BY-103, 241-BY-TK-103	/										
HASI	8120	R	241-BY-104, 241-BY-TK-104	/										
HASI	8121	R	241-BY-105, 241-BY-TK-105	/										
HASI	8122	R	241-BY-106, 241-BY-TK-106	/										
HASI	8123	R	241-BY-107, 241-BY-TK-107	/										
HASI	8124	R	241-BY-108, 241-BY-TK-108	/										
HASI	8125	R	241-BY-109, 241-BY-TK-109	/										
HASI	8126	R	241-BY-110, 241-BY-TK-110	/										
HASI	8127	R	241-BY-111, 241-BY-TK-111	/										
HASI	8128	R	241-BY-112, 241-BY-TK-112	/										

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HASI	8129	R	241-BYR-152, 241-BYR-152 Diversion Box	/										
HASI	8130	R	241-BYR-153, 241-BYR-153 Diversion Box	/										
HASI	8131	R	241-BYR-154, 241-BYR-154 Diversion Box	/										
HASI	8132	R	241-C-151, 241-C-151 Diversion Box	/										
HASI	8133	R	241-C-152, 241-C-152 Diversion Box	/										
HASI	8134	R	241-C-153, 241-C-153 Diversion Box	/										
HASI	8135	R	241-C-252, 241-C-252 Diversion Box	/										
HASI	8136	R	241-C-101, 241-C-TK-101	/										
HASI	8137	R	241-C-102, 241-C-TK-102	/										
HASI	8138	R	241-C-103, 241-C-TK-103	/										
HASI	8139	R	241-C-104, 241-C-TK-104	/										
HASI	8140	R	241-C-105, 241-C-TK-105	/										
HASI	8141	R	241-C-106, 241-C-TK-106	/										
HASI	8142	R	241-C-107, 241-C-TK-107	/										
HASI	8143	R	241-C-108, 241-C-TK-108	/										
HASI	8144	R	241-C-109, 241-C-TK-109	/										
HASI	8145	R	241-C-110, 241-C-TK-110	/										
HASI	8146	R	241-C-111, 241-C-TK-111	/										
HASI	8147	R	241-C-112, 241-C-TK-112	/										
HASI	8148	R	241-C-201, 241-C-TK-201	/										
HASI	8149	R	241-C-202, 241-C-TK-202	/										
HASI	8150	R	241-C-203, 241-C-TK-203	/										

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HASI	8151	R	241-C-204, 241-C-TK-204	/										
HASI	8152	R	241-CR-151, 241-CR-151 Diversion Box	/										
HASI	8153	R	241-CR-152, 241-CR-152 Diversion Box	/										
HASI	8154	R	241-CR-153, 241-CR-153 Diversion Box	/										
HASI	8155	R	241-ER-151, 241-ER-151 Diversion Box	/										
HASI	8156	R	241-ER-152, 241-ER-152 Diversion Box	/										
HASI	8157	R	241-ER-153, 241-ER-153 Diversion Box	/										
HASI	8158	R	241-ER-311, 241-ER-311 Catch Tank	/										
HASI	8159	R	241-EW-151, 241-EW-151 Vent Station Catch Tank, 241-EW-151 Vent Station, Vent Station, 200 Area East-West Vent Station	/										
HASI	8160	R	241-S-151, 241-S-151 Diversion Box	/										
HASI	8161	R	241-S-152, 241-S-152 Diversion Box	/										
HASI	8162	R	241-S-A, 241-S-A Valve Pit, 241-S-A Diversion Box	/										
HASI	8163	R	241-S-B, 241-S-B Valve Pit, 241-S-B Diversion Box	/										
HASI	8164	R	241-S-C, 241-S-C Valve Pit, 241-S-C Diversion Box	/										
HASI	8165	R	241-S-D, 241-S-D Valve Pit, 241-S-D Diversion Box	/										
HASI	8166	R	241-S-101, 241-S-TK-101	/										
HASI	8167	R	241-S-102, 241-S-TK-102	/										
HASI	8168	R	241-S-103, 241-S-TK-103	/										
HASI	8169	R	241-S-104, 241-S-TK-104	/										

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HASI	8170	R	241-S-105, 241-S-TK-105	/										
HASI	8171	R	241-S-106, 241-S-TK-106	/										
HASI	8172	R	241-S-107, 241-S-TK-107	/										
HASI	8173	R	241-S-108, 241-S-TK-108	/										
HASI	8174	R	241-S-109, 241-S-TK-109	/										
HASI	8175	R	241-S-110, 241-S-TK-110	/										
HASI	8176	R	241-S-111, 241-S-TK-111	/										
HASI	8177	R	241-S-112, 241-S-TK-112	/										
HASI	8178	R	241-SX-151, 241-SX-151 Diversion Box	/										
HASI	8179	R	241-SX-152, 241-SX-152 Diversion Box, 241-SX-152 Transfer Box	/										
HASI	8180	R	241-SX-101, 241-SX-TK-101	/										
HASI	8181	R	241-SX-102, 241-SX-TK-102	/										
HASI	8182	R	241-SX-103, 241-SX-TK-103	/										
HASI	8183	R	241-SX-104, 241-SX-TK-104	/										
HASI	8184	R	241-SX-105, 241-SX-TK-105	/										
HASI	8185	R	241-SX-106, 241-SX-TK-106	/										
HASI	8186	R	241-SX-107, 241-SX-TK-107	/										
HASI	8187	R	241-SX-108, 241-SX-TK-108	/										
HASI	8188	R	241-SX-109, 241-SX-TK-109	/										
HASI	8189	R	241-SX-110, 241-SX-TK-110	/										
HASI	8190	R	241-SX-111, 241-SX-TK-111	/										

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HQ ID: **0386**

Project **RL-TW04 / Retrieval Project**

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	8191	R	241-SX-112, 241-SX-TK-112	/										
HASI	8192	R	241-SX-113, 241-SX-TK-113	/										
HASI	8193	R	241-SX-114, 241-SX-TK-114	/										
HASI	8194	R	241-SX-115, 241-SX-TK-115	/										
HASI	8195	R	241-SY-A, 241-SY-A Diversion Box, 241-SY-A Valve Pit	/										
HASI	8196	R	241-SY-B, 241-SY-B Diversion Box, 241-SY-B Valve Pit	/										
HASI	8197	R	241-SY-101, 241-SY-TK-101	/										
HASI	8198	R	241-SY-102, 241-SY-TK-102	/										
HASI	8199	R	241-SY-103, 241-SY-TK-103	/										
HASI	8200	R	241-T-151, 241-T-151 Diversion Box	/										
HASI	8201	R	241-T-152, 241-T-152 Diversion Box	/										
HASI	8202	R	241-T-153, 241-T-153 Diversion Box	/										
HASI	8203	R	241-T-252, 241-T-252 Diversion Box	/										
HASI	8204	R	241-T-302	/										
HASI	8205	R	241-T-101, 241-T-TK-101	/										
HASI	8206	R	241-T-102, 241-T-TK-102	/										
HASI	8207	R	241-T-103, 241-T-TK-103	/										
HASI	8208	R	241-T-104, 241-T-TK-104	/										
HASI	8209	R	241-T-105, 241-T-TK-105	/										
HASI	8210	R	241-T-106, 241-T-TK-106	/										
HASI	8211	R	241-T-107, 241-T-TK-107	/										

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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	8212	R	241-T-108, 241-T-TK-108	/										
HASI	8213	R	241-T-109, 241-T-TK-109	/										
HASI	8214	R	241-T-110, 241-T-TK-110	/										
HASI	8215	R	241-T-111, 241-T-TK-111	/										
HASI	8216	R	241-T-112, 241-T-TK-112	/										
HASI	8217	R	241-T-201, 241-T-TK-201	/										
HASI	8218	R	241-T-202, 241-T-TK-202	/										
HASI	8219	R	241-T-203, 241-T-TK-203	/										
HASI	8220	R	241-T-204, 241-T-TK-204	/										
HASI	8221	R	241-TR-152, 241-TR-152 Diversion Box	/										
HASI	8222	R	241-TR-153, 241-TR-153 Diversion Box, 241-TR-153 Booster Pump Pit	/										
HASI	8223	R	241-TX-152, 241-TX-152 Diversion Box	/										
HASI	8224	R	241-TX-153, 241-TX-153 Diversion Box	/										
HASI	8225	R	241-TX-154, 241-TX-154 Diversion Box	/										
HASI	8226	R	241-TX-155, 241-TX-155 Diversion Box	/										
HASI	8227	R	241-TX-302A, 241-TX-302-A Catch Tank	/										
HASI	8228	R	241-TX-101, 241-TX-TK-101	/										
HASI	8229	R	241-TX-102, 241-TX-TK-102	/										
HASI	8230	R	241-TX-103, 241-TX-TK-103	/										
HASI	8231	R	241-TX-104, 241-TX-TK-104	/										
HASI	8232	R	241-TX-105, 241-TX-TK-105	/										
HASI	8233	R	241-TX-106, 241-TX-TK-106	/										

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HASI	8234	R	241-TX-107, 241-TX-TK-107	/										
HASI	8235	R	241-TX-108, 241-TX-TK-108	/										
HASI	8236	R	241-TX-109, 241-TX-TK-109	/										
HASI	8237	R	241-TX-110, 241-TX-TK-110	/										
HASI	8238	R	241-TX-111, 241-TX-TK-111	/										
HASI	8239	R	241-TX-112, 241-TX-TK-112	/										
HASI	8240	R	241-TX-113, 241-TX-TK-113	/										
HASI	8241	R	241-TX-114, 241-TX-TK-114	/										
HASI	8242	R	241-TX-115, 241-TX-TK-115	/										
HASI	8243	R	241-TX-116, 241-TX-TK-116	/										
HASI	8244	R	241-TX-117, 241-TX-TK-117	/										
HASI	8245	R	241-TX-118, 241-TX-TK-118	/										
HASI	8246	R	241-TXR-152, 241-TXR-152 Diversion Box	/										
HASI	8247	R	241-TXR-153, 241-TXR-153 Diversion Box	/										
HASI	8248	R	241-TY-153, 241-TY-153 Diversion Box	/										
HASI	8249	R	241-TY-302A, 241-TY-302-A Catch Tank	/										
HASI	8250	R	241-TY-101, 241-TY-TK-101	/										
HASI	8251	R	241-TY-102, 241-TY-TK-102	/										
HASI	8252	R	241-TY-103, 241-TY-TK-103	/										
HASI	8253	R	241-TY-104, 241-TY-TK-104	/										
HASI	8254	R	241-TY-105, 241-TY-TK-105	/										
HASI	8255	R	241-TY-106, 241-TY-TK-106	/										

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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	8256	R	241-U-151, 241-U-151 Diversion Box	/										
HASI	8257	R	241-U-152, 241-U-152 Diversion Box	/										
HASI	8258	R	241-U-153, 241-U-153 Diversion Box	/										
HASI	8259	R	241-U-252, 241-U-252 Diversion Box	/										
HASI	8260	R	241-U-301, 241-U-301B	/										
HASI	8261	R	241-U-A, 241-U-A Diversion Box, 241-U-A Valve Pit	/										
HASI	8262	R	241-U-B, 241-U-B Diversion Box, 241-U-B Valve Pit	/										
HASI	8263	R	241-U-C, 241-U-C Diversion Box, 241-U-C Valve Pit	/										
HASI	8264	R	241-U-D, 241-U-D Diversion Box, 241-U-D Valve Pit	/										
HASI	8265	R	241-U-101, 241-U-TK-101	/										
HASI	8266	R	241-U-102, 241-U-TK-102	/										
HASI	8267	R	241-U-103, 241-U-TK-103	/										
HASI	8268	R	241-U-104, 241-U-TK-104	/										
HASI	8269	R	241-U-105, 241-U-TK-105	/										
HASI	8270	R	241-U-106, 241-U-TK-106	/										
HASI	8271	R	241-U-107, 241-U-TK-107	/										
HASI	8272	R	241-U-108, 241-U-TK-108	/										
HASI	8273	R	241-U-109, 241-U-TK-109	/										
HASI	8274	R	241-U-110, 241-U-TK-110	/										
HASI	8275	R	241-U-111, 241-U-TK-111	/										

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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	8276	R	241-U-112, 241-U-TK-112	/										
HASI	8277	R	241-U-201, 241-U-TK-201	/										
HASI	8278	R	241-U-202, 241-U-TK-202	/										
HASI	8279	R	241-U-203, 241-U-TK-203	/										
HASI	8280	R	241-U-204, 241-U-TK-204	/										
HASI	8281	R	241-UR-151, 241-UR-151 Diversion Box	/										
HASI	8282	R	241-UR-152, 241-UR-152 Diversion Box	/										
HASI	8283	R	241-UR-153, 241-UR-153 Diversion Box	/										
HASI	8284	R	241-UR-154, 241-UR-154 Diversion Box	/										
HASI	8285	R	241-UX-154, 241-UX-154 Diversion Box	/										
HASI	8286	R	241-UX-302A, 241-U-302 Catch Tank, 241-UX-302 Catch Tank, 241-UX-302	/										
HASI	8287	R	242-B-151	/										
HASI	8288	R	244-A DCRT, 244-A Double-Contained Receiver Tank, 244-A RT, 244-A Receiver Tank, 244-A-TK/SMP	/										
HASI	8289	R	244-BX DCRT, 244-BX Double-Contained Receiver Tank, 244-BX RT, 244-BX Receiver Tank, 244-BX-TK/SMP, 244-BX Receiver Vault,	/										
HASI	8290	R	244-S DCRT, 244-S Double-Contained Receiver Tank, 244-S RT, 244-S Receiver Tank, 244-S Catch Station, 244-S-TK/SMP	/										
HASI	8291	R	244-TX DCRT, 244-TX Double-Contained Receiver Tank, 244-TX RT, 244-TX Receiver Tank, 244-TX Receiver Vessel, 244-TX-	/										

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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
TK/SMP														
HASI	8292	R	241-C-154, 241-C-154 Diversion Box	/										
HASI	8293	R	241-SX-A, 241-SX-A Diversion Box	/										
HASI	8294	R	241-SX-B, 241-SX-B Diversion Box	/										
HASI	8295	R	241-TX-302BR, 241-TX-302BR Catch Tank, 241-TXR-302BR	/										
HASI	8296	R	241-TX-302XB, 241-TX-302B Catch Tank, 241-TX-302-X, 241-TX-302-X (B)	/										

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	2631		TC272HV	\					2031			2034						
HASI	3224		296A043	\					2031			2034						
HASI	3225		296A042	\					2031			2034						
HASI	3270		292AR	\					2021			2024						
HASI	3292		291AR	\					2021			2024						
HASI	3328		2905R	\					2021			2024						
HASI	3340		2902HV	\					2021			2024						
HASI	3390		273EA	\					2031			2034						
HASI	3417		272WA	\					2021			2024						
HASI	3419		272HV	\					2021			2024						
HASI	3426		272AW10	\					2031			2034						

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Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3427	272AW	\						2031				2034				
HASI	3428	272A	\						2021				2024				
HASI	3431	2727WA	\						2021				2024				
HASI	3438	2724UA	\						2021				2024				
HASI	3439	2724U	\						2021				2024				
HASI	3440	2724TXB	\						2021				2024				
HASI	3441	2724TXA	\						2021				2024				
HASI	3442	2724TX	\						2021				2024				
HASI	3443	2724T	\						2021				2024				
HASI	3444	2724SY	\						2031				2034				
HASI	3445	2724SX	\						2021				2024				
HASI	3446	2724C	\						2021				2024				
HASI	3447	2724BY	\						2021				2024				
HASI	3448	2724BX	\						2021				2024				
HASI	3449	2724B	\						2021				2024				
HASI	3450	2724AZ	\						2031				2034				
HASI	3451	2724AY	\						2031				2034				
HASI	3452	2724A	\						2021				2024				
HASI	3473	271CR	\						2021				2032				
HASI	3500	2715AW	\						2031				2034				
HASI	3511	2714AR	\						2021				2031				
HASI	3515	2713WC	\						2021				2024				

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HASI	3516	2713WB	\					2021			2024						
HASI	3517	2713W	\		2010			2012			2024						
HASI	3522	2712B	\					2021			2024						
HASI	3545	2708AR	\					2021			2024						
HASI	3548	2707SX	\					2021			2024						
HASI	3550	2707AX	\					2021			2024						
HASI	3551	2707AR	\					2021			2024						
HASI	3558	2704HV	\					2031			2034						
HASI	3560	2703E	\					2021			2024						
HASI	3566	2701HV	\					2031			2034						
HASI	3573	254BY	\					2021			2031						
HASI	3593	244U1	\					2021			2024						
HASI	3594	244U	\					2021			2024						
HASI	3595	244TXR	\					2021			2024						
HASI	3596	244TX	\					2021			2024						
HASI	3597	244S271	\					2021			2024						
HASI	3598	244S	\					2021			2024						
HASI	3599	244CR	\					2021			2024						
HASI	3600	244BX	\					2021			2024						
HASI	3601	244AR715	\					2021			2024						
HASI	3602	244AR701	\					2021			2024						
HASI	3603	244AR	\					2021			2024						

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Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3604	244A	\						2021				2024				
HASI	3621	243G9	\						2031				2034				
HASI	3622	243G82	\						2031				2034				
HASI	3623	243G81	\						2031				2034				
HASI	3624	243G8	\						2031				2034				
HASI	3625	243G6	\						2031				2034				
HASI	3626	243G5	\						2031				2034				
HASI	3627	243G3	\						2031				2034				
HASI	3628	243G2	\						2031				2034				
HASI	3629	243G12	\						2031				2034				
HASI	3630	243G	\						2031				2034				
HASI	3644	242TC	\						2021				2024				
HASI	3645	242TB	\						2021				2024				
HASI	3646	242TA	\						2021				2024				
HASI	3647	242T601	\						2021				2024				
HASI	3648	242T	\						2006				2024				
HASI	3649	242S702	\						2021				2024				
HASI	3650	242S	\			2014			2016				2024				
HASI	3676	241UR	\						2021				2024				
HASI	3677	241U701	\						2021				2024				
HASI	3678	241U271	\						2021				2024				
HASI	3679	241U	\						2021	2021			2024	2024			

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HASI	3680	241TY	\					2021	2021		2024	2024					
HASI	3681	241TX701	\						2021			2024					
HASI	3682	241TX	\					2021	2021		2024	2024					
HASI	3683	241T701	\						2021			2024					
HASI	3684	241T601	\						2021			2024					
HASI	3685	241T	\					2021	2021		2024	2024					
HASI	3686	241SY701	\						2031			2034					
HASI	3687	241SY276	\						2028			2034					
HASI	3688	241SY275	\						2031			2034					
HASI	3689	241SY274	\						2031			2034					
HASI	3690	241SY273	\						2031			2034					
HASI	3691	241SY272	\						2031			2034					
HASI	3692	241SY271	\						2031			2034					
HASI	3693	241SY	\					2031	2031		2034	2034					
HASI	3694	241SX701	\						2021			2024					
HASI	3695	241SX281	\						2021			2024					
HASI	3696	241SX271	\						2021			2024					
HASI	3697	241SX	\					2021	2021		2024	2024					
HASI	3698	241S271	\						2021			2024					
HASI	3699	241S	\					2021	2021		2024	2024					
HASI	3700	241CR271	\						2021			2024					
HASI	3701	241C91	\						2021			2024					

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Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3702	241C90	\						2021				2024				
HASI	3703	241C73	\						2021				2024				
HASI	3704	241C51B	\						2021				2024				
HASI	3705	241C51A	\						2021				2024				
HASI	3706	241C51	\						2021				2024				
HASI	3707	241C	\						2021	2021			2024	2024			
HASI	3708	241BY302A	\						2021				2024				
HASI	3709	241BY302	\						2021				2024				
HASI	3710	241BY301	\						2021				2024				
HASI	3711	241BY254	\						2021				2024				
HASI	3712	241BX	\						2021	2021			2024	2024			
HASI	3713	241B701	\						2021				2024				
HASI	3714	241B	\						2021	2021			2024	2024			
HASI	3715	241AZ801A	\						2031				2034				
HASI	3716	241AZ801	\						2031				2034				
HASI	3717	241AZ702	\						2031				2034				
HASI	3718	241AZ701	\						2031				2034				
HASI	3719	241AZ402	\						2031				2034				
HASI	3720	241AZ401	\						2031				2034				
HASI	3721	241AZ274	\						2031				2034				
HASI	3722	241AZ271	\						2031				2034				
HASI	3723	241AZ156	\						2031				2034				

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: **0386**

Project **RL-TW04 / Retrieval Project**

Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3724	241AZ	\					2031	2031		2034	2034					
HASI	3725	241AY801A	\					2031			2034						
HASI	3726	241AY801	\					2031			2034						
HASI	3727	241AY51B	\					2031			2034						
HASI	3728	241AY51A	\					2031			2034						
HASI	3729	241AY51	\					2031			2034						
HASI	3730	241AY402	\					2031			2034						
HASI	3731	241AY401	\					2031			2034						
HASI	3732	241AY	\					2031	2031		2034	2034					
HASI	3733	241AX801C	\					2021			2024						
HASI	3734	241AX801B	\					2021			2024						
HASI	3735	241AX801A	\					2021			2024						
HASI	3736	241AX501	\					2021			2024						
HASI	3737	241AX	\					2021	2021		2024	2024					
HASI	3738	241AW801	\					2031			2034						
HASI	3739	241AW273	\					2031			2026						
HASI	3740	241AW271	\					2031			2034						
HASI	3741	241AW	\					2031	2031		2034	2034					
HASI	3742	241AP801	\					2031			2034						
HASI	3743	241AP273	\					2031			2034						
HASI	3744	241AP271	\					2031			2034						
HASI	3745	241AP	\					2031	2031		2034	2034					

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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: **0386**

Project **RL-TW04 / Retrieval Project**

Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3746	241AN801	\					2031			2034						
HASI	3747	241AN274	\					2031			2034						
HASI	3748	241AN273	\					2031			2034						
HASI	3749	241AN271	\					2031			2034						
HASI	3750	241AN	\					2031	2031		2034	2034					
HASI	3751	241A702	\					2021			2024						
HASI	3752	241A701	\					2021			2024						
HASI	3753	241A431	\					2021			2024						
HASI	3754	241A401	\					2021			2024						
HASI	3755	241A271A	\					2021			2024						
HASI	3756	241A271	\					2021			2024						
HASI	3757	241A	\					2021	2021		2024	2024					
HASI	3816	2404E	\					2031			2034						
HASI	3817	2403EA	\					2031			2034						
HASI	3818	2403E	\					2031			2026						
HASI	3820	2402EA	\					2021			2024						
HASI	3826	2400E	\					2031			2034						
HASI	3919	220A	\					2021			2024						
HASI	3937	216A271	\					2021			2022						
HASI	3954	213W	\					2021			2022						
HASI	3990	209A	\					2021			2024						
HASI	4004	204AR	\					2031			2034						

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HQ ID: **0386**

Project **RL-TW04 / Retrieval Project**

Facility Decommissioning

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	8676	241C801	\					2009			2012						

Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	2631	TC272HV	\					2031			2034						
HASI	3224	296A043	\					2031			2034						
HASI	3225	296A042	\					2031			2034						
HASI	3270	292AR	\					2021			2024						
HASI	3292	291AR	\					2021			2024						
HASI	3328	2905R	\					2021			2024						
HASI	3340	2902HV	\					2021			2024						
HASI	3390	273EA	\					2031			2034						
HASI	3417	272WA	\					2021			2024						
HASI	3419	272HV	\					2021			2024						
HASI	3426	272AW10	\					2031			2034						
HASI	3427	272AW	\					2031			2034						
HASI	3428	272A	\					2021			2024						
HASI	3431	2727WA	\					2021			2024						
HASI	3438	2724UA	\					2021			2024						
HASI	3439	2724U	\					2021			2024						
HASI	3440	2724TXB	\					2021			2024						

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Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3441	2724TXA	\					2021			2024						
HASI	3442	2724TX	\					2021			2024						
HASI	3443	2724T	\					2021			2024						
HASI	3444	2724SY	\					2031			2034						
HASI	3445	2724SX	\					2021			2024						
HASI	3446	2724C	\					2021			2024						
HASI	3447	2724BY	\					2021			2024						
HASI	3448	2724BX	\					2021			2024						
HASI	3449	2724B	\					2021			2024						
HASI	3450	2724AZ	\					2031			2034						
HASI	3451	2724AY	\					2031			2034						
HASI	3452	2724A	\					2021			2024						
HASI	3473	271CR	\					2021			2032						
HASI	3500	2715AW	\					2031			2034						
HASI	3511	2714AR	\					2021			2031						
HASI	3515	2713WC	\					2021			2024						
HASI	3516	2713WB	\					2021			2024						
HASI	3522	2712B	\					2021			2024						
HASI	3545	2708AR	\					2021			2024						
HASI	3548	2707SX	\					2021			2024						
HASI	3550	2707AX	\					2021			2024						
HASI	3551	2707AR	\					2021			2024						

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Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3558	2704HV	\						2031				2034				
HASI	3560	2703E	\						2021				2024				
HASI	3566	2701HV	\						2031				2034				
HASI	3573	254BY	\						2021				2031				
HASI	3593	244U1	\						2021				2024				
HASI	3594	244U	\						2021				2024				
HASI	3595	244TXR	\						2021				2024				
HASI	3596	244TX	\						2021				2024				
HASI	3597	244S271	\						2021				2024				
HASI	3598	244S	\						2021				2024				
HASI	3599	244CR	\						2021				2024				
HASI	3600	244BX	\						2021				2024				
HASI	3601	244AR715	\						2021				2024				
HASI	3602	244AR701	\						2021				2024				
HASI	3603	244AR	\						2021				2024				
HASI	3604	244A	\						2021				2024				
HASI	3621	243G9	\						2031				2034				
HASI	3622	243G82	\						2031				2034				
HASI	3623	243G81	\						2031				2034				
HASI	3624	243G8	\						2031				2034				
HASI	3625	243G6	\						2031				2034				
HASI	3626	243G5	\						2031				2034				

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Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3627	243G3	\						2031				2034				
HASI	3628	243G2	\						2031				2034				
HASI	3629	243G12	\						2031				2034				
HASI	3630	243G	\						2031				2034				
HASI	3644	242TC	\						2021				2024				
HASI	3645	242TB	\						2021				2024				
HASI	3646	242TA	\						2021				2024				
HASI	3647	242T601	\						2021				2024				
HASI	3649	242S702	\						2021				2024				
HASI	3676	241UR	\						2021				2024				
HASI	3677	241U701	\						2021				2024				
HASI	3678	241U271	\						2021				2024				
HASI	3681	241TX701	\						2021				2024				
HASI	3683	241T701	\						2021				2024				
HASI	3684	241T601	\						2021				2024				
HASI	3686	241SY701	\						2031				2034				
HASI	3687	241SY276	\						2028				2034				
HASI	3688	241SY275	\						2031				2034				
HASI	3689	241SY274	\						2031				2034				
HASI	3690	241SY273	\						2031				2034				
HASI	3691	241SY272	\						2031				2034				
HASI	3692	241SY271	\						2031				2034				

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

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Project **RL-TW04 / Retrieval Project**

Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3694	241SX701	\					2021			2024						
HASI	3695	241SX281	\					2021			2024						
HASI	3696	241SX271	\					2021			2024						
HASI	3698	241S271	\					2021			2024						
HASI	3700	241CR271	\					2021			2024						
HASI	3701	241C91	\					2021			2024						
HASI	3702	241C90	\					2021			2024						
HASI	3703	241C73	\					2021			2024						
HASI	3704	241C51B	\					2021			2024						
HASI	3705	241C51A	\					2021			2024						
HASI	3706	241C51	\					2021			2024						
HASI	3708	241BY302A	\					2021			2024						
HASI	3709	241BY302	\					2021			2024						
HASI	3710	241BY301	\					2021			2024						
HASI	3711	241BY254	\					2021			2024						
HASI	3713	241B701	\					2021			2024						
HASI	3715	241AZ801A	\					2031			2034						
HASI	3716	241AZ801	\					2031			2034						
HASI	3717	241AZ702	\					2031			2034						
HASI	3718	241AZ701	\					2031			2034						
HASI	3719	241AZ402	\					2031			2034						
HASI	3720	241AZ401	\					2031			2034						

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Project **RL-TW04 / Retrieval Project**

Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3721	241AZ274	\						2031				2034				
HASI	3722	241AZ271	\						2031				2034				
HASI	3723	241AZ156	\						2031				2034				
HASI	3725	241AY801A	\						2031				2034				
HASI	3726	241AY801	\						2031				2034				
HASI	3727	241AY51B	\						2031				2034				
HASI	3728	241AY51A	\						2031				2034				
HASI	3729	241AY51	\						2031				2034				
HASI	3730	241AY402	\						2031				2034				
HASI	3731	241AY401	\						2031				2034				
HASI	3733	241AX801C	\						2021				2024				
HASI	3734	241AX801B	\						2021				2024				
HASI	3735	241AX801A	\						2021				2024				
HASI	3736	241AX501	\						2021				2024				
HASI	3738	241AW801	\						2031				2034				
HASI	3739	241AW273	\						2031				2026				
HASI	3740	241AW271	\						2031				2034				
HASI	3742	241AP801	\						2031				2034				
HASI	3743	241AP273	\						2031				2034				
HASI	3744	241AP271	\						2031				2034				
HASI	3746	241AN801	\						2031				2034				
HASI	3747	241AN274	\						2031				2034				

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Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3748	241AN273	\						2031				2034				
HASI	3749	241AN271	\						2031				2034				
HASI	3751	241A702	\						2021				2024				
HASI	3752	241A701	\						2021				2024				
HASI	3753	241A431	\						2021				2024				
HASI	3754	241A401	\						2021				2024				
HASI	3755	241A271A	\						2021				2024				
HASI	3756	241A271	\						2021				2024				
HASI	3816	2404E	\						2031				2034				
HASI	3817	2403EA	\						2031				2034				
HASI	3818	2403E	\						2031				2026				
HASI	3820	2402EA	\						2021				2024				
HASI	3826	2400E	\						2031				2034				
HASI	3919	220A	\						2021				2024				
HASI	3937	216A271	\						2021				2022				
HASI	3954	213W	\						2021				2022				
HASI	3990	209A	\						2021				2024				
HASI	4004	204AR	\						2031				2034				

Project Baseline Summary Report

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Facility Deactivation

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HASI	3679	241U	\					2021	2021		2024	2024					
HASI	3680	241TY	\					2021	2021		2024	2024					
HASI	3682	241TX	\					2021	2021		2024	2024					
HASI	3685	241T	\					2021	2021		2024	2024					
HASI	3693	241SY	\					2031	2031		2034	2034					
HASI	3697	241SX	\					2021	2021		2024	2024					
HASI	3699	241S	\					2021	2021		2024	2024					
HASI	3707	241C	\					2021	2021		2024	2024					
HASI	3712	241BX	\					2021	2021		2024	2024					
HASI	3714	241B	\					2021	2021		2024	2024					
HASI	3724	241AZ	\					2031	2031		2034	2034					
HASI	3732	241AY	\					2031	2031		2034	2034					
HASI	3737	241AX	\					2021	2021		2024	2024					
HASI	3741	241AW	\					2031	2031		2034	2034					
HASI	3745	241AP	\					2031	2031		2034	2034					
HASI	3750	241AN	\					2031	2031		2034	2034					
HASI	3757	241A	\					2021	2021		2024	2024					

Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3517	2713W	\		2010			2012			2024						

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Facility Deactivation

Site Code	RSF ID	Change Description Flag	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
HASI	3648	242T	\						2006					2024			
HASI	3650	242S	\			2014				2016				2024			

Technology Needs

Site Need Code: RL-WT061

Site Need Name: Reactive Barriers to Contaminant Migration

Focus Area Work Package ID: WT-05-01

Focus Area Work Package: Tank Closure

Focus Area: TFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02119: HLW-30 - LAW Glass

Y N

02120: HLW-23 - Tanks

Y N

Site Need Code: RL-WT023

Site Need Name: Prediction of Solid Phase Formation in Hanford Tank Waste Solutions

Focus Area Work Package ID: WT-01-01

Focus Area Work Package: Transfer Line/Unplugging/Feed Analysis

Focus Area: TFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Project **RL-TW04 / Retrieval Project**

Technology Needs

Sludge Washing

Related CCP Milestones

Related Waste Streams

Agree? Change?

02113: HLW-20 - Sludge, Salt, Liquid

Y N

Site Need Code: RL-WT013

Site Need Name: Establish Retrieval Performance Evaluation Criteria

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

Related CCP Milestones

Related Waste Streams

Agree? Change?

02113: HLW-20 - Sludge, Salt, Liquid

Y N

Site Need Code: RL-WT060

Site Need Name: PHMC Retrieval and Closure - Hanford/SRS Waste Mixing Mobilization

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

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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: **0386**

Project **RL-TW04 / Retrieval Project**

Technology Needs

Site Need Code: RL-WT062

Site Need Name: PHMC DST Retrieval - Hanford DST Transfer Pump Improvements

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: RL-WT063

Site Need Name: PHMC Retrieval and Closure - Hanford SST Saltcake Dissolution Retrieval

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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: **0386**

Project **RL-TW04 / Retrieval Project**

Technology Needs

Site Need Code: RL-WT064

Site Need Name: PHMC Retrieval and Closure - Hanford Past Practice Sluicing Improvements

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**

Related CCP Milestones

Related Waste Streams

Agree? **Change?**

02113: HLW-20 - Sludge, Salt, Liquid

Y N

Technology Deployments

Deployment Year			
Deployment Status	Planned	Forecast	Actual Date

Technology Name: Low Activity Waste Forms

Potential Deployment 2001

Technology Name: Sludge Washing

Potential Deployment 2002

Technology Name: Confined Sluicing End Effector

Potential Deployment 2000

Technology Name: Pulsed Air

Potential Deployment 2000

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: **0386**

Project **RL-TW04 / Retrieval Project**

Technology Deployments

Deployment Status	Deployment Year		
	Planned	Forecast	Actual Date
Technology Name: AEA Fluidic Pulse Jet Mixer			
Potential Deployment	2001		
Technology Name: SaltCake Dissolution			
Potential Deployment	2001		
Technology Name: Pipe Unplugging			
Potential Deployment	2002		
Technology Name: Russian Retrieval Technologies			
Potential Deployment	2002		