### ENGINEERING CHANGE NOTICE

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**Page 1 of 2**

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**ECN (use no. from pg. 1)**

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**660087**

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A-7900-013-3 (10/87)
Programmatic Baseline Summary for Phase 1 Privatization for the Tank Farm Contractor

J. A. Diediker
CH2M HILL Hanford Group, Inc.
Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-99RL14047

EDT/ECN: 660087                          UC: 2030
Cost Center: 71300                       Charge Code: 108521/AA30
B&R Code: EW3130010                      Total Pages: 15

Key Words: River Protection Project, Retrieval and Disposal Mission baseline summary

Abstract:
The document describes the systematic integrated baseline planning process and provides a summary of the Tank Farm Contractor scope, schedule and cost analysis developed in support of the Phase 1 Privatization mission.

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Programmatic Baseline Summary for Phase 1
Privatization for the Tank Farm Contractor

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

CH2M HILL
Hanford Group, Inc.

Richland, Washington

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

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J. A. Diediker

Date Published
April 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

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EXECUTIVE SUMMARY

The Programmatic Baseline Summary for Phase 1 Privatization for the Tank Farm Contractor is one of several documents prepared to provide evidence of the readiness to proceed with Phase 1 of the U.S. Department of Energy, Office of River Protection, mission. CH2M HILL Hanford Group, Inc. (CHG), is the Tank Farm Contractor responsible for performing the planning and operations necessary for tank waste storage, retrieval, feed delivery, and disposal or shipment of the immobilized products in support of the River Protection Project.

The baseline summary provides a review of the scope, schedule, and associated costs developed to demonstrate the TFC’s ability to execute the project mission.

Key areas of the document are as follows:

• Introduction and description of the Integrated Baseline planning process used to produce the scope, schedule, and cost exhibits

• Summary scope descriptions for the Tank Farm Contractor components of the River Protection Project

• Summary cost exhibits, including the Tank Farm Contractor Phase 1 cost summary profile, the Tank Farm Contractor Phase 1 detailed cost-loading report derived from the logic-driven, resource-loaded schedule, and a summary of life-cycle costs

• Schedule descriptions and exhibits, including the River Protection Project Master Schedule, Tank Farm Contractor Project Master Baseline Schedule for Phase 1, Tank Farm Contractor Critical Path Schedule by Tank, and the Tank Farm Contractor Integrated Resource-Loaded Detailed Schedule for Phase 1

• Summary program-level description of changes for Phase 1 from the River Protection Project FY 2000 Multi-Year Work Plan Summary (CHG 2000a) to the Programmatic Baseline Summary for Phase 1 Privatization for the Tank Farm Contractor (Diediker 2000).
The overall conclusion of this document is that the scope, schedule, and estimated costs support installing and operating selected tank farm system upgrades, infrastructure improvements, and immobilized waste management facilities to successfully execute the Privatization Phase 1 mission as contracted with the Tank Farm Contractor.
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1.0 INTRODUCTION

As part of the U.S. Department of Energy, Office of River Protection (ORP), assessment of contractor readiness to proceed (RTP), the Tank Farm Contractor (TFC), CH2M HILL Hanford Group, Inc. (CHG), has prepared the Programmatic Baseline Summary for Phase 1 Privatization. This document, with additional supporting data, substantiates that the necessary systems, personnel, and equipment are ready to proceed with the Phase 1 mission.

The programmatic baseline consists of three interconnected elements: scope, schedule, and cost. All three elements are necessary to execute the following activities:

- Safely retrieve and deliver tank waste as feed for the waste treatment facilities
- Receive immobilized tank waste products for storage and disposal
- Receive secondary waste and specified byproducts for treatment or disposal
- Provide infrastructure support for the waste treatment facilities

As shown in Figure 1-1, Tank Farm Contractor Document Summary, the programmatic baseline is integrated with the mission definition and management plans, and is based on the technical baseline documented in the Technical Baseline Summary Description for the Tank Farm Contractor (HNF-1901, Rev. 2).

1.1 PURPOSE

The Programmatic Baseline Summary describes the systematic, integrated baseline planning process and provides the results of the TFC’s scope, schedule, and cost analysis for Phase 1 Privatization.
Figure 1-1. Tank Farm Contractor Document Structure.
2.0 INTEGRATED BASELINE SUMMARY

The TFC's Integrated Baseline Planning Process is a defined system and process that guides all aspects of the project to provide a consistent, efficient, and effective means for successful project development, performance, and delivery (CHG 1999a). The integrated baseline planning process includes a comprehensive set of management and control processes to identify and control risk, maintain configuration control, balance competing requirements, and integrate project work scope, providing a powerful management tool. Figure 2-1 shows the elements of the integrated baseline, their relationship to upper level guidance documents, and the River Protection Project (RPP) plans and procedures that control the integrated baseline development. The integrated baseline process is used to perform the following:

- Manage the TFC scope as a project
- Provide the foundation for integrated scope definition, estimating, and logic-driven, critical-path scheduling for all work scope
- Establish risk-based priorities
- Document the approved project scope, schedule, and cost for approval and work authorization
- Measure project progress and performance during project execution
- Incorporate changes to the baseline using strict change control procedures.

2.1 INTEGRATED BASELINE PLANNING PROCESS DETAILS

To conduct the RTP planning process, the contractor established multi-disciplined teams with technically knowledgeable and experienced representatives from Operations; Characterization; Retrieval and Disposal; Projects; Nuclear Safety & Licensing; Environmental, Safety, Health and Quality Assurance; Engineering; Planning & Integration; and Maintenance. The use of these subject matter experts ensures that performing organization interfaces are identified for each activity and series of activities and the work is integrated between the programs, projects, and operations.

The integrated baseline planning process can be subdivided into the three project management areas: (1) scope definition, (2) schedule integration, and (3) cost estimating.

The integrated baseline begins with the River Protection Project Mission Analysis Report (MAR) (ORP 2000), which captures the Hanford Site-level requirements assigned to the RPP, defines the initial and final end states, identifies major interfaces, and provides an initial assessment of activities that the RPP must execute to achieve the defined mission. The MAR is used to develop the RPP Mission Logic.
The RPP Mission Logic depicts the RPP mission as a sequence of activities necessary to meet the technical requirements. Section 3 addresses the major work that the RPP must perform, including safe storage, waste immobilization (Phase 1), waste immobilization and disposal completion (Phase 2), and closure. The RPP Mission Logic was used to define the technical scope for the TFC and is the top-level basis used for planning and traceable to lower level planning documentation.

CHG developed lower level scope activities and prepared the Tank Farm Contractor Phase 1 Feed Delivery, Storage and Disposal Mission Summary for 2006 Hot Start (RPP-5742, Rev. 1) diagram using River Protection Project Key Planning Assumptions, RPP-5993 (CHG 2000b), which defined the operating scenario, feed delivery sequence, and rates to the Privatization Contractor, with one exception. The programmatic baseline planning document is based on earlier draft assumptions, which indicated that the Privatization Contractor would deploy a sulfate-removal process and accommodate a vitrification ramp-up rate of 100 percent. The sulfate-removal assumption and vitrification ramp-up were modified just before issuance of the key enabling assumptions, which introduced the inconsistency between RPP-5993 and the integrated baseline. Preliminary analysis indicates that the net effect of these changes is within CHG’s capabilities to resolve. The post-RTP gap analysis will address these issues.

The Tank Farm Contractor Phase 1 Feed Delivery, Storage and Disposal Mission Summary diagram summarizes the Retrieval, Projects, and Operations mission activities. To update the Mission Summary, the RTP planning team evaluated projects and operation baselines to determine how well they supported the preferred waste retrieval and disposal scenarios. The RTP team assessed candidate waste feed delivery, storage, and disposal scenarios for their capability to support the requirements and assumptions. Using the Hanford Tank Waste Operation Simulator (HTWOS), the RTP team evaluated these key data to determine the overall success of executing the mission. Detailed planning assumptions and information on tank waste composition and existing or planned equipment and operational capabilities are defined in HNF-SD-WM-SP-012, Operation and Utilization Plan for the Tank Farm Contractor (Kirkbride 2000).

CHG used activity-based planning to define work scope and develop Level 1 logics that depict unique activities, logical interdependencies, and the sequence of the technical scope necessary to achieve the Retrieval and Disposal mission. Scope driven by logic development ensures that work scope is consistent with the technical requirements and each activity on the Level 1 logic correlates to the RPP work breakdown structure (WBS).

Preparation of the technical basis review (TBR) packages was initiated on completion of the Level 1 logics. The TBR process provides for development of the lower levels of the WBS, generally at Level 7, and the lower levels of the schedule logic. TBR packages define the work to be performed; document the technical basis; list the reference documents, enabling assumptions, inputs, deliverables, trade studies, decisions, risk, labor and non-labor resources required to perform the work; and document organizational responsibilities for work performance. They also define how and when the work will be executed.
Each Level 1 activity and its logic was decomposed to the next level of detail necessary to prepare the required components of the TBR package. Components of each TBR package are as follows:

- TBR control/approval log
- Technical basis review narratives
- Primavera Project Planner\(^1\) (P3)-generated subactivity (task) logic networks
- Sub-activity (task) cost-estimating input sheets (CEIS)
- P3-generated resource and cost-loading reports.

Activity-based cost estimating methodology is used to generate cost estimates, which are prepared to a level at which costs are tracked and performance is evaluated. Because of variations in the current phases of the TFC's projects, several estimating techniques are used to construct the cost estimate. Approved commercial and government estimating methods used include analogy, definitive, parametric, factored, cost review and update. In addition, formal construction project estimates are developed and maintained for the life of each line-item construction project in accordance with the U.S. Department of Energy (DOE) policy. Cost estimates are prepared in accordance with the G430.1-1, *DOE Cost Estimating Guide* (DOE 1997); DOE/RL-97-90, *Hanford Cost Estimating and Schedule Guide* (RL 1997); and RPP-PRO-585, *Cost Estimating* (CHG 1999). Each CEIS documents costs, including labor, equipment, materials, and subcontracts, and includes the estimate basis, assumptions, and exclusions for each TBR activity.

The TFC developed an integrated, resource-loaded schedule to support Phase 1 Privatization. The schedule, prepared in P3, was developed from, and is traceable to, the Level 1 logics, formal TBR package data, and the WBS. Resources from the CEISs were loaded and priced in P3 to produce the cost for each activity. The integrated resource-loaded schedule provides a time-phased plan with a logical sequence of interdependent activities, milestones, and constraints.

### 2.2 INTEGRATED BASELINE PLANNING PROCESS RESULTS

The implementation of the integrated planning process resulted in the development of the documentation described in the following paragraphs.

Electronic access can be used to view the Feed Delivery Storage and Disposal Mission Summary diagram, Level 1 logics, and TBR packages on the Hanford Intranet, RPP Technical Resources web site.

A Feed Delivery Storage and Disposal Mission Summary diagram was prepared that identifies 24 low-activity waste (LAW) feed batches and 50 high-level waste (HLW) feed batches in support of the Phase 1 mission.

\(^1\) Primavera Project Planner is a trademark of Primavera Systems, Inc.
Fifty-seven sheets of Level 1 logics were prepared for Low-Activity Waste feed, High-Level Waste Feed, Immobilized LAW, Immobilized HLW, and Infrastructure Phase 1 projects; the Single-Shell Tank Program; the Management Assessment, Waste Feed Project Definition, and Waste Feed Delivery Programs; and the RPP Tank Waste Retrieval/Disposal Division.

The integrated resource-loaded P3 schedule contains more than 12,000 activities that identify the TF C's (TFC) ability to execute the mission as required to support the Privatization Contractor.

The RTP Team developed more than 900 TBR packages that document the TFC's Phase 1 scope. The final TBR packages consist of the TBR narrative descriptions, subactivity logics, P3 cost-loading reports, and detailed cost estimates. The final packages were reconciled to the approved schedule. Each TBR package has been approved by the program and performing organization managers and placed under configuration control.
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3.0 SCOPE

3.1 RIVER PROTECTION PROJECT LOGIC

The River Protection Project Logic, TWR-2086 (see Figure 3-1), is a tool for translating the RPP mission requirements identified in the MAR (ORP 2000) into a sequence of activities necessary to achieve the mission objectives. Figure 3-1 illustrates the major work that the RPP must perform to accomplish its mission including safe storage, waste immobilization (Phase 1), waste immobilization and disposal completion (Phase 2), and closure. A diagonal line through a task boxes indicates tasks that have been completed.

3.2 RIVER PROTECTION PROJECT WORK BREAKDOWN STRUCTURE

The RPP WBS (see Figure 3-2) has been organized to provide a common framework for work planning, scope definition, and integration of the baseline for all levels and components of the project. The RPP WBS consists of 10 major elements and provides these elements to CHG and the Privatization Contractor for further decomposition. The Programmatic Baseline Summary focuses on the subset of activities in the WBS for the TFC in support of Phase 1 scope. The subset of the WBS includes the following:

- TW01  Tank Waste Characterization
- TW03  Project W-314, Tank Farm Operations
- TW04  Retrieval
- TW05  Process Waste Support
- TW08  Privatization Infrastructure
- TW09  Immobilized Tank Waste Storage & Disposal.

3.3 TANK FARM CONTRACTOR PHASE 1 FEED DELIVERY, STORAGE AND DISPOSAL MISSION SUMMARY FOR 2006 HOT START

The Tank Farm Contractor Phase 1 Feed Delivery, Storage and Disposal Mission Summary for 2006 Hot Start (see Figure 3-3) shows the Retrieval, Projects, and Operations mission activities. The Mission Summary uses planning assumptions and information on tank waste composition, existing or planned equipment, and operational capabilities as defined in HNF-SD-WM-SP-012, Tank Farm Contractor Operation and Utilization Plan (Kirkbride 2000).

The Mission Summary operational need dates are indicated in Figure 3-3 by a black dot “*”, and are used as “reference points/Operational Need Dates” (OND) for a set of key programmatic dates supporting the TFC’s retrieval of tank waste for the Privatization Contractor under ORP’s direction. The black dot represents the programmatic date when all construction upgrades to individual tanks, tank farms, and the Privatization Contractor interfaces and the startup and
turnover activities completed. At this point, Tank Waste Operations has accepted the upgrades and is maintaining the WFD systems in support of the Retrieval and Disposal mission.

The OND represents the point in time beyond which activities preceding them in the integrated schedule cannot slip without incurring programmatic risk in delivering waste to the Privatization Contractor. In addition, the OND is part of the tank backup strategy that permits the TFC to have tanks being delivered in Phase 1 backed up by succeeding tanks. The placement of the black dots represents bringing forward the next tank in sequence, certifying the waste, and delivering the waste to the Privatization Contractor in time to meet delivery requirements for the earlier waste if the waste from the primary tank is not certifiable.

3.4 LEVEL 1 LOGIC

The Level 1 Logic defines and details the Phase 1 scope and sequence of activities required to complete the Retrieval and Disposal mission as reflected in the WBS. Level 1 Logics were prepared for Low-Activity Waste Feed, High-Level Waste Feed, Immobilized LAW, and Immobilized HLW projects; Infrastructure Phase 1 activities; the Single-Shell Tank, Management Assessment, and Waste Feed Project Definition projects; the Waste Feed Delivery Program; and the RPP Tank Waste Retrieval/Disposal Division.

These logics were used to further define the scope, schedule, and cost estimates as documented in the TBR packages. Each activity on the Level 1 Logic represents a TBR package. Primary activity owners, including Operations, Projects, Environmental, Nuclear Safety & Licensing, Retrieval, Characterization, Maintenance, Management, and selected activities for ORP and the Privatization Contractor are identified on the Level 1 Logic diagram. A critical path for each feed batch is identified on the tank-specific logic diagrams.

3.5 CROSSWALK FROM THE LEVEL 1 LOGIC TO THE WORK BREAKDOWN STRUCTURE

Appendix B is a crosswalk for the Tank Waste Retrieval and Disposal Phase 1 Privatization scope as identified on the Level 1 Logic to Level 6 of the WBS.
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4.0 COST

The TFC budget requirements have been developed in accordance with ORP guidance and the PIO planning assumptions. This section provides the cost summaries, which resulted from a thorough analysis of the labor and non-labor resources needed to execute Phase 1 Privatization. Fiscal year 2001 funding has been constrained to $382.1M. Budget/fund levels are unconstrained from FY 2002 through the life cycle and are tied to full compliance requirements.

The RTP integrated planning effort has reduced the funding requirements for Phase 1 from the FY 2000 Multi-Year Work Plan (MYWP) (CHG 2000a). Section 6.0 of this document identifies the major areas of scope changes and the Financial Analysis for Phase 1 Privatization for the Tank Farm Contractor, HNF-2017, Rev. 2, further explains the financial changes and adjustments for the TFC.

4.1 PRICING BASIS

The resources specified in the TBR package cost estimates were priced in the schedule using a P3 resource rate library based on rates provided to the ORP as referenced in Contract No. DE-AC06-99RL14047; Revised Submittal of Fiscal Year 2000 Indirect Annual Work Plans dated November 30, 1999 (Barrett 2000), and Contract No. DE-AC06-99RL14047; Fiscal Year 2001 and Out-Year Pricing Rates, dated December 16, 1999 (Short 2000a).

The labor and non-labor rates in the library are fully burdened with the applicable adders except for escalation.

4.2 ESCALATION ASSUMPTIONS

Escalation has been applied to the project costs as directed by Contract No. DE-A06-99RL14047, U.S. Department of Energy, Office of River Protection (ORP) Mission Planning Guidance for Fiscal Year (FY) 2002, Revision 1, dated February 03, 2000 (Short 2000b). Outyears beyond FY 2008 are escalated at 2.0% annually.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Annual Rate (%)</th>
<th>Cumulative Rate (%)</th>
</tr>
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<td>2001</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>2002</td>
<td>2.0</td>
<td>4.0</td>
</tr>
<tr>
<td>2003</td>
<td>2.0</td>
<td>6.1</td>
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<tr>
<td>2004</td>
<td>2.0</td>
<td>8.2</td>
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<td>2005</td>
<td>2.0</td>
<td>10.4</td>
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<td>2006</td>
<td>2.0</td>
<td>12.6</td>
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<tr>
<td>2007</td>
<td>2.0</td>
<td>14.9</td>
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</table>
4.3 SUMMARY COST TABLES

The cost tables (Tables 4-2 and Figure 4-1 and Tables 4-3 through 4-5) summarize the budget requirements by fiscal year through FY 2018. The cost tables cover the following items:

- **Retrieval and Disposal Phase 1 Costs by Project Baseline Summary.** Table 4-2 represents the time-phased budget requirements (unescalated) by Project Baseline Summary for the Retrieval and Disposal Phase 1 mission from FY 2000 through FY 2018. Figure 4-1 shows the relative size of each Project Baseline Summary for Phase 1.

- **Retrieval and Disposal Phase 1 Costs by Work Breakdown Structure – Level 6.** Table 4-3 represents the time-phased budget requirements (unescalated) by the WBS-Level 6 element for the Retrieval and Disposal Phase 1 mission.

- **Life-Cycle Cost Summary for the Tank Farm Contractor.** Table 4-4 provides the life-cycle cost profile for the TFC from FY 1997 through FY 2018.

- **Retrieval and Disposal Cost Loading Report.** Table 4-5 summarizes the Retrieval and Disposal costs by fiscal year (FY 2000 through FY 2018) necessary to perform work defined in the TBR packages in support of the Phase 1 mission.

Interfaces with other essential Hanford Site facilities have been coordinated and integrated. The cost for these facilities are not included in this document, but are funded and supported through Phase 1 by Fluor Hanford, Inc. (FHI). The excluded facility base operations are as follows:

- The 222-S Laboratory base operation costs to support tank characterization
- The 242-A Evaporator operations
- The Effluent Treatment Facility, which is necessary to support treatment of the 242-A Evaporator condensate and supports the Privatization Contractor
- The Liquid Effluent Retention Facility, which is necessary for treatment of radioactive or dangerous liquid effluents generated by the Privatization Contractor
- The Treated Effluent Disposal Facility, which is necessary to provide treatment of non-radioactive, non-dangerous liquid effluents generated by the Privatization Contractor.
Table 4-2. Retrieval and Disposal Phase 1 Costs by Project Baseline Summary for Fiscal Years 2000 through 2018—Unescalated. ($ in 000’s)

<table>
<thead>
<tr>
<th>Project</th>
<th>FY00</th>
<th>FY01</th>
<th>FY02</th>
<th>FY03</th>
<th>FY04</th>
<th>FY05</th>
<th>FY06</th>
<th>FY07</th>
<th>FY08</th>
<th>Sub Total</th>
<th>FY09 - FY18</th>
<th>Total</th>
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<tr>
<td>TW01 Characterization</td>
<td>$17</td>
<td>$10</td>
<td>$8</td>
<td>$6</td>
<td>$9</td>
<td>$6</td>
<td>$8</td>
<td>$3</td>
<td>$5</td>
<td>$70</td>
<td>$36</td>
<td>$106</td>
</tr>
<tr>
<td>Support to Retrieval</td>
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<td></td>
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<tr>
<td>TW03 Project W-314</td>
<td>$26</td>
<td>$51</td>
<td>$68</td>
<td>$31</td>
<td>$31</td>
<td>$11</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$272</td>
<td>$272</td>
<td>$272</td>
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<tr>
<td>TW04 Retrieval Project</td>
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<td>$70</td>
<td>$171</td>
<td>$195</td>
<td>$132</td>
<td>$132</td>
<td>$138</td>
<td>$107</td>
<td>$93</td>
<td>$1,099</td>
<td>$637</td>
<td>$1,726</td>
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<td>Waste Feed Delivery</td>
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<td>$131</td>
<td>$247</td>
<td>$232</td>
<td>$172</td>
<td>$149</td>
<td>$144</td>
<td>$110</td>
<td>$98</td>
<td>$1,377</td>
<td>$673</td>
<td>$2,050</td>
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<tr>
<td>Subtotal</td>
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<td>TW05 Process Waste</td>
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<td>$1</td>
<td>$1</td>
<td>$2</td>
<td>$2</td>
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<td>$2</td>
<td>$2</td>
<td>$2</td>
<td>$13</td>
<td>$-</td>
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<tr>
<td>Support</td>
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<tr>
<td>TW08 Privatization</td>
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<td>$17</td>
<td>$8</td>
<td>$6</td>
<td>$11</td>
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<td>$15</td>
<td>$15</td>
<td>$139</td>
<td>$148</td>
<td>$287</td>
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<tr>
<td>Infrastructure</td>
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<tr>
<td>TW09 Immobilized Waste</td>
<td>$9</td>
<td>$10</td>
<td>$11</td>
<td>$19</td>
<td>$39</td>
<td>$65</td>
<td>$44</td>
<td>$13</td>
<td>$24</td>
<td>$234</td>
<td>$590</td>
<td>$824</td>
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<td>Storage and Disposal</td>
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<tr>
<td>Total Retrieval and</td>
<td>$123</td>
<td>$159</td>
<td>$267</td>
<td>$259</td>
<td>$224</td>
<td>$250</td>
<td>$204</td>
<td>$140</td>
<td>$137</td>
<td>$1,763</td>
<td>$1,411</td>
<td>$3,174</td>
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<td>Disposal Phase 1</td>
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</table>

Figure 4-1. Total Cost by Project Baseline Summary for Fiscal Years 2000 through 2018—Unescalated. ($ in 000’s)

Based Upon Proposed Retrieval and Disposal Phase 1 Budget ($3174M)
### Table 4.3: Retrieval and Disposal Phase 1 Costs by Work Breakdown Structure Level 6 – Unescalated. ($ in 000’s) (2 sheets)

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</tbody>
</table>

**Note:** The table contains costs for various WBS levels, with specific details for each year from FY 2004 to FY 2018, and a cumulative total (TOTAL). The costs are presented in thousands of dollars ($ in 000’s).
Table 4-3. Retrieval and Disposal Phase 1 Costs by Work Breakdown Structure Level 6 – Unescalated. ($ in 000’s) (2 sheets)

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<tbody>
<tr>
<td>TWH1</td>
<td>PHASE I INFRASTRUCTURE</td>
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<td>3,621</td>
<td>6,225</td>
<td>6,225</td>
<td>9,000</td>
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<td>101,000</td>
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<td>TWH1</td>
<td>TOTAL TWH1</td>
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<td>18,639</td>
<td>18,639</td>
<td>18,639</td>
<td>392,000</td>
</tr>
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HNF-1946 REV 2
## Table 4-4. Life-Cycle Cost Summary for the Tank Farm Contractor. ($ in 000’s).

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<thead>
<tr>
<th>Phase &amp; Costs</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHASE 1: COSTS</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>CHARACTERIZATION</strong></td>
<td>14,981</td>
<td>9,737</td>
<td>3,619</td>
<td>5,800</td>
<td>28,137</td>
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<tr>
<td><strong>W-314</strong></td>
<td>28,233</td>
<td>50,908</td>
<td>67,995</td>
<td>56,686</td>
<td>232,814</td>
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<td><strong>RETRIEVAL</strong></td>
<td>56,695</td>
<td>70,039</td>
<td>170,011</td>
<td>92,032</td>
<td>339,768</td>
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<td>1,249</td>
<td>1,788</td>
<td>7,037</td>
<td>1,068</td>
<td>9,189</td>
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<td><strong>INFRASTRUCTURE</strong></td>
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<td>17,398</td>
<td>5,050</td>
<td>15,311</td>
<td>43,291</td>
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<td><strong>IMMOB. WASTE</strong></td>
<td>9,042</td>
<td>9,981</td>
<td>10,994</td>
<td>18,570</td>
<td>58,597</td>
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<td><strong>MOMT SUPPORT</strong></td>
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<td>3,584</td>
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<td><strong>TOTAL PHASE 1 COSTS IN SCHEDULE</strong></td>
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<td>159,461</td>
<td>230,333</td>
<td>239,406</td>
<td>720,742</td>
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<td><strong>REQUIRED PHASE 1 ADJUSTMENTS</strong></td>
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<tr>
<td><strong>TOTAL PHASE 1 COSTS</strong></td>
<td>126,168</td>
<td>164,921</td>
<td>230,666</td>
<td>240,742</td>
<td>729,494</td>
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</tbody>
</table>

## BALANCE OF TFC PROGRAM & PHASE 2 COSTS

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<tr>
<th>Phase &amp; Costs</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>TOTAL</th>
</tr>
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<tbody>
<tr>
<td><strong>PHASE 1: COSTS</strong></td>
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<td>900,927</td>
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## ADJUSTMENT TO BALANCE OF TFC PROGRAM & PHASE 2 COSTS

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<th>FY 2019</th>
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<td><strong>CHARACTERIZATION</strong></td>
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<td><strong>W-314</strong></td>
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<td><strong>RETRIEVAL</strong></td>
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## TOTAL TFC ACTUALS & PROGRAM REQS

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## TOTAL TFC ACTUALS & PROGRAM REQUIREMENTS (SCHEDULED) | 346,428 | 361,962 | 361,962 | 423,541 | 372,339 | 356,048 |

Note: Values may vary slightly due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –
Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –
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| TOTAL     | 100.01/01/01/01/04 | 12513 | 7547 | 5215 | 4557 | 5735 | 3686 | 3476 | 1428 | 2395 |
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

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1.01.04.01.01  DST PROJECT MANAGEMENT & ADMINISTRATION

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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| 120.B20 | Est Dilution Reqs / Dissolution Behvr for AP-104 | 192    |         |         |         |         |         |         |         |         |
| 120.B29 | Est Dilution Reqs / Dissolution Behvr for AP-102 | 192    |         |         |         |         |         |         |         |         |
| 120.C10 | Est Dilution Reqs / Dissolution Behvr for AP-106 | 192    |         |         |         |         |         |         |         |         |
| 120.J10 | Est Dilution Reqs/Dissolution Behavior for 3AN | 191    |         |         |         |         |         |         |         |         |
| 120.K10 | Est Dilution Reqs / Dissolution Behvr for AN-107 | 73     |         |         |         |         |         |         |         |         |
| 120.L10 | Est Dilution Reqs/Dissolution Behavior for 2AN | 192    |         |         |         |         |         |         |         |         |
| 120.N10 | Est Dilution Reqs / Dissolution Behvr for AP-105 | 192    |         |         |         |         |         |         |         |         |
| 120.R10 | Est Dilution Reqs / Dissolution Behvr for SY-101 | 192    |         |         |         |         |         |         |         |         |
| 120.T10 | Est Dilution Reqs / Dissolution Behvr for SY-103 | 192    |         |         |         |         |         |         |         |         |
| 120.V10 | Est Dilution Reqs / Dissolution Behvr for AP-101 | 192    |         |         |         |         |         |         |         |         |
| 120.W10 | Est Dilution Reqs/Dissolution Behavior for 4AW | 170 22 |         |         |         |         |         |         |         |         |
| 130.028 | Perform Special Cases and Studies | 233    | 234     | 234     | 234     | 234     | 233     | 233     | 235     |         |
| 130.033 | Support DOE/BNFL Proposals and Studies | 184    | 185     | 185     | 234     | 235     | 234     | 93      | 93      | 92      |
| 130.B80 | Assess 2nd Wtr/Util/Samp Anlys Agrnt Plans (LAW) | 5      |         |         |         |         |         |         |         |         |
| 130.B90 | Prepare LAW Feed Certification DQO | 59     |         |         |         |         |         |         |         |         |
| 150.726 | Waste Feed Delivery Process Development | 814    | 466     | 530     | 772     | 775     | 772     | 769     | 769     | 775     |
| 150.B08 | WFD chlor needs matrices Specific DQOs/Samp Sched | 95     | 150     | 150     | 150     | 151     | 150     | 150     | 150     | 151     |
| 150.B22 | Maint Operations & Utilization Plan (O&UP) | 1282   | 1235    | 1414    | 1390    | 1395    | 1390    | 1384    | 1384    | 1395    |
| 150.B26 | Maintain Waste Feed Delivery ICDS 19 and 20 | 162    | 192     | 192     | 162     | 163     | 162     | 161     | 161     | 163     |
| 160.A15 | Assess 2nd Wtr/Util/Samp Anlys Agrnt Plans (HLW) | 5      |         |         |         |         |         |         |         |         |
| 160.A48 | Perf and Doc AZ-101 Samp Anlys/Rheology Testing | 293    |         |         |         |         |         |         |         |         |
| 160.A99 | Prepare HLW Feed Certification DQO | 59     |         |         |         |         |         |         |         |         |
| 160.F10 | Perf and Doc AZ-102 Samp Anlys/Rheology Testing | 293    |         |         |         |         |         |         |         |         |
| 160.H10 | Perf and Doc AY-102 Samp Anlys/Rheology Testing | 293    |         |         |         |         |         |         |         |         |
| 160.P10 | Perf and Doc SY-102 Samp Anlys/Rheology Testing | 293    |         |         |         |         |         |         |         |         |
| 160.S10 | Perf and Doc AY-101 Samp Anlys/Rheology Testing | 293    |         |         |         |         |         |         |         |         |
| 160.U10 | Perf and Doc AW-103 Samp Anlys/Rheology Testing | 294    | 557     |         |         |         |         |         |         |         |
| 160.W10 | Perf and Doc 4AW Samp Anlys/Rheology Testing | 212    | 81      |         |         |         |         |         |         |         |
| 710.711 | Waste Feed Delivery Technology Insertion Support | 81     | 81      | 81      | 81      | 81      | 81      | 81      | 81      | 81      |
| TOTAL   |                                   | 3819    | 3515    | 4224    | 3924    | 2911    | 3264    | 2973    | 2870    | 2893    |
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

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1.01.04.01.04 | W-151(AZ 101 RETRIEVAL)                          |         |         |         |         |         |         |         |         |         |
| 110.010 | Project Mgmt for AZ-101 Process Test             | 826     | 146     |         |         |         |         |         |         |         |
| 110.045 | Issue AZ-101 Process Test Plans and Procedures  | 579     |         |         |         |         |         |         |         |         |
| 110.050 | Perf Cntr Independ Ready Asmnt 1AZ Process Test | 270     |         |         |         |         |         |         |         |         |
| 110.055 | Perf Mgmt Self-Assmnt for AZ-101 Process Test   | 450     |         |         |         |         |         |         |         |         |
| 110.070 | Perform AZ-101 Process Test                      | 697     |         |         |         |         |         |         |         |         |
| 110.075 | Perform AZ-101 Suspension and Settling Test      | 19      | 71      |         |         |         |         |         |         |         |

HNF-1946 REV 2
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –
Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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**PROJECT W-211, FITS**

| 120.A00       | Project Mgmt for W-211                           | 2101    | 2934    | 2649    | 2256    | 2738    | 2181    | 1952    | 3957    | 466     |
| 120.B37       | Update Docs for AP-102 & AP-104 Mixing & Retr Sys| 424     |         |         |         |         |         |         |         |         |
| 120.B42       | Procure Eqpt for AP-102/104 Mixing & Retr Sys    | 929     | 465     |         |         |         |         |         |         |         |
| 120.B45       | Construct AP-102 & AP-104 Mixing & Retr Sys      | 12320   | 6073    | 622     |         |         |         |         |         |         |
| 120.D72       | Procure Equipment for AN-105 Mixing & Retr Sys   |         |         |         |         |         | 2854    | 1421    |         |         |
| 120.D75       | Construct AN-105 Mixing and Retrieval System     | 1463    | 275     | 130     |         |         |         |         |         |         |
| 120.D82       | Install AN-105 Mixer Pump & Related Systems      |         |         |         |         |         |         | 5604    | 6092    |         |
| 120.E50       | Design AN-104 Mixing and Retrieval System        |         |         |         |         |         |         |         |         | 1339    |
| 120.E52       | Procure Equipment for AN-104 Mixing & RetrSys    | 1000    | 2214    |         |         |         |         |         |         |         |
| 120.E55       | Construct AN-104 Mixer/Retr System                | 2133    | 6775    | 2881    |         |         |         |         |         |         |
| 120.E90       | Install AN-104 Mixer Pump & Related Systems      |         |         |         |         |         | 146     | 760     |         |         |
| 120.J50       | Design AN-103 Mixing and Retrieval System        |         |         |         |         |         | 1678    | 718     |         |         |
| 120.J52       | Procure Equipment for AN-103 Mixing & Retr Sys    |         |         |         |         |         |         | 2313    |         |         |
| 120.J55       | Construct AN-103 Mixing and Retrieval System     |         |         |         |         |         |         | 5814    |         |         |
| 120.J90       | Install AN-103 Mixer Pump & Related Systems      |         |         |         |         |         |         |         |         |         |
| 120.L50       | Design AN-102 Mixing & Retr Sys/Obt CD-3         | 1341    | 1045    | 186     |         |         |         |         |         |         |
| 120.L52       | Procure Equipment for AN-102 Mixing & Retr Sys    |         |         |         |         |         | 2422    | 461     |         |         |
| 120.L55       | Construct AN-102 Mixing and Retrieval System     |         |         |         |         |         | 5093    | 4260    | 101     |         |
| 120.P66       | Procure Eqpt for SY-102 Mixing/Retr System        |         |         |         |         |         | 3287    | 1644    |         |         |
| 160.F40       | Design AZ-102 Mixing and Retrieval System        | 1000    |         |         |         |         |         |         | 9648    | 4006    |
| 160.F50       | Construct AZ-102 Mixing and Retrieval System     | 2805    | 4465    | 4168    |         |         |         |         |         |         |
| 160.F52       | Procure Eqpt for AZ-102 Mixing/Retr System        | 1000    | 3096    |         |         |         |         |         |         |         |
| 160.H40       | Design AY-102 Mixing and Retrieval System        | 1316    | 1330    |         |         |         |         |         |         |         |
| 160.H50       | Construct AY-102 Mixing and Retrieval System     |         |         |         |         |         | 8323    | 3492    | 2577    |         |
| 160.H52       | Procure Eqpt for AY-102 Mixing/Retr System       | 2297    | 2911    |         |         |         |         |         |         |         |

**TOTAL**

| 1.01.04.01.01.05 |                                                   | 7669    | 13438   | 37606   | 29752   | 12554   | 13065   | 16199   | 14988   | 15040   |

**W-521, WFD SYSTEMS**

| 120.E31       | Procure Equipment for AN-101 Mixing/Retr System  | 3103    | 905     |         |         |         |         |         |         |         |
| 120.E33       | Construct AN-101 Mixing and Retrieval System    | 6378    | 9322    |         |         |         |         |         |         |         |
| 120.E35       | Design AN-101 Mixing & Retr Sys/Obt CD-3        | 1252    | 1505    |         |         |         |         |         |         |         |
Table 4.5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

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W-522, DST RETRIEVAL PROJECTS

120.C43  | Perform Conceptual Dsn for W-522 Retrieval Sys | 1268    | 2740    |         |         |         |         |         |         |         |
120.C50  | Design AP-106 Mixing & Retr Sys/Obt CD-3 |       |         |         |         |         |         |         |         |         |
120.C52  | Procure Equipment for AP-106 Mixing & Retr Sys |       |         |         |         |         |         |         |         |         |
120.C55  | Construct AP-106 Mixing and Retrieval System |       |         |         |         |         |         |         |         |         |
120.N50  | Design AP-105 Mixing & Retr Sys/Obt CD-3 |       |         |         |         |         |         |         |         |         |
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 — Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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1.01.04.01.09 FUTURE DST RETRIEVAL & TRANSFER PROJECT

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –
Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated (in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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1.01.04.01.14 DST RETREIVAL SYSTEM DEVELOPMENT

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –
Unscaled ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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1.01.04.01.18 W-525, TANK FARM WASTE FEED DELIVERY UPGRADES

120.D15  | Proj W-YYY Tk Farm Infrastructure & Compliance Upgd                         | 334     | 4823    | 12353   | 22589   | 10635   |         |         |         |         |
| **TOTAL**|                                                                               | 334     | 4823    | 12353   | 22589   | 10635   |         |         |         |         |

1.01.04.01.02.01 SST RETRIEVAL PROJECT MANAGEMENT & ADM.

710.716  | Manage Retrieval SST Activities                                             | 1708    | 1271    | 1696    | 1696    | 1703    | 1696    | 1690    | 1690    | 1703    |
| **TOTAL**|                                                                               | 1708    | 1271    | 1696    | 1696    | 1703    | 1696    | 1690    | 1690    | 1703    |

1.01.04.01.02.02 SST RETRIEVAL SYSTEM DEFINITION

120.A10  | Est Dilution Rqmts/Dissolutm Behavior for S-105                            | 192     |         |         |         |         |         |         |         |         |
| 120.A20  | Est Dilution Rqmts/Dissolutm Behavior for S-102                            |         |         |         |         |         |         |         |         | 1       |
| 160.Q10  | Perf and Doc C-107 Smp Anlys/ Rheology Testing                             | 276     |         |         |         |         |         |         |         | 18      |
| 270.210  | Prepare Initial SST Program Plan                                          | 176     |         |         |         |         |         |         |         | 72      |
| 270.310  | Prep SST Retr Program Test & Evaluation Plan                               | 45      |         |         |         |         |         |         |         | 132     |
| 290.005  | Retrieval System Selection AGA                                             |         |         |         |         |         |         |         | 143     | 143     |
| 290.007  | Update SST Level 1 Specification                                           | 47      |         |         |         |         |         | 700     | 697     | 686     |
| 290.010  | Retrieval Integrated Risk Studies                                         |         |         |         |         |         |         | 694     | 699     |         |
| 290.015  | Updt Prog Plan, Deployment Plan, & Risk Analysis                           |         |         |         |         |         |         |         |         |         |
| 290.A29  | Perform C Tank Farm Trade Studies                                          |         |         |         |         |         |         |         |         | 199     |
| 290.A33  | Perform S Tank Farm Trade Studies                                          |         |         |         |         |         |         |         |         | 199     |
| **TOTAL**|                                                                               | 268     | 404     | 650     | 400     | 844     | 697     | 885     | 694     | 705     |
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2000 through FY 2008). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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| 460.170      | Maintain ILAW Part 1 Performance Assessment         | 537     | 490     | 443     | 439     | 437     | 437     | 343     |         |         |
| 470.035      | Dispose of Failed Melters                          |         |         |         |         |         |         |         | 1180    | 1998    |
| 470.075      | ILAW Disposal Facility Operations                  |         |         |         |         |         |         | 479     | 11109   |         |
| 470.140      | Comp Startup/Ready for Failed Melter Disposal      |         |         |         |         |         |         |         | 2723    | 599     |
| **TOTAL**    |                                                     | 537     | 490     | 443     | 439     | 3160    | 2695    | 13450   |         |         |

| 470.080      | Close ILAW Disposal Facilities                     |         |         |         |         |         |         |         |         |         |
| **TOTAL**    |                                                     | 739     | 541     | 541     | 490     | 551     | 549     | 547     | 547     | 551     |

| 440.010      | HILW Project Mgmt                                  |         |         |         |         |         |         |         |         |         |
| **TOTAL**    |                                                     | 739     | 541     | 541     | 490     | 551     | 549     | 547     | 547     | 551     |

| 440.020      | Maintain ICDs, IPT Process, and SNF Interface      | 434     | 310     | 310     | 323     | 213     | 112     | 112     | 37      |         |
| 440.040      | Maintain Technical Requirements for HLW            | 411     | 172     | 172     | 72      | 97      | 24      | 14      | 3       |         |
| 440.044      | Define Requirements for HLW Sample Transport       | 227     | 69      | 35      | 35      | 35      |         |         |         |         |
| 440.048      | Define Requirements for HLW Meter Disposition      | 37      | 137     | 80      | 40      | 40      | 40      | 13      |         |         |
| 440.049      | Define Requirements for HLW Sample Transport System| 131     | 14      | 258     | 663     | 105     |         |         |         |         |
| 440.053      | Design/Procure HLW Sample Transport Synt           | 20      | 15      | 22      | 134     | 329     | 799     | 606     |         |         |
| **TOTAL**    |                                                     | 1129    | 702     | 750     | 617     | 971     | 1639    | 850     | 40      |         |

| 440.060      | W-464 Advanced Conceptual Design/Revalidation      | 1420    | 653     | 44      | 46      | 49      | 49      | 49      |         |         |
| 440.090      | Procure Equipment W-464 HILW Storage Facility      | 4447    | 13988   | 16777   | 4288    |         |         |         |         |         |
| 440.100      | Design W-464 HILW Storage Facility                 | 1153    | 3163    | 4100    | 5386    | 1707    | 1572    |         |         |
| 440.115      | Obtain W-464 Environmental Permits                 | 108     | 177     | 160     | 169     | 53      |         |         |         |         |
| 440.120      | W-464 Authorization Basis Development and Approval  | 441     | 1303    | 175     | 974     | 602     |         |         |         |         |
| 440.140      | Construct W-464 HILW Storage Facility              |         |         |         |         |         |         | 14931   | 10035   | 1141    |
| 450.010      | Startup and Test HILW System                       |         |         |         |         |         |         | 305     | 1651    |         |
| 450.015      | Perf Mgmt Self Assessment on HILW System           |         |         |         |         |         |         |         | 259     | 213     |
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2000 through FY 2008). (25 sheets)

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1.01.09.02.01.04  IHLW OPERATIONS

| 450.030 | Trans/Rev/Interim Storage IHLW (Part 1) in CSB |         |         |         |         |         |         |         |         | 207     |
| TOTAL   |                                                   | 1528    | 2425    | 4670    | 8762    | 19651   | 34439   | 16851   | 3051    | 678     |

1.01.09.03.01.02  IHLW FUTURE PROJECTS SYSTEM DEFINITION

| 780.010 | Define Pj Dsn Criteria for IHLW Module 1 W-XXX |         |         |         |         | 298     | 72      | 47      | 47      |
| TOTAL   |                                                   | 298     | 72      | 47      | 47      |          |         |         |         |

1.01.09.03.01.03  IHLW FUTURE PROJECTS

| 780.020 | IHLW Module 1 W-XXX Conceptual Design |         |         |         |         | 3403    | 4600    | 4780    |         |
| 780.050 | IHLW Module 1 W-XXX Design           |         |         |         |         |         |         |         |         |
| 780.060 | IHLW Module 1 W-XXX Construction     |         |         |         |         |         |         |         |         |
| 780.070 | Obtain Permits for IHLW Module 1 W-XXX |         |         |         |         | 61      | 81      | 82      |         |
| 780.080 | IHLW Module 1 W-XXX Authorization Basis |         |         |         |         |         |         |         |         |
| TOTAL   |                                                   | 3581    | 4681    | 4862    |         |          |         |         |         |

1.01.09.03.01.04  IHLW FUTURE PROJECTS OPERATIONS

| 450.050 | Startup and Test Module 1 IHLW System |         |         |         |         |         |         |         |         |
| 450.060 | Perf Mgmt Self Assessment on Module 1 IHLW Sys |         |         |         |         |         |         |         |         |
| 450.070 | Perf Cntr Independent ORR on Module 1 IHLW Sys |         |         |         |         |         |         |         |         |
| 450.080 | Perf DOE-ORR ORR/Obi CD-4 on Module 1 IHLW Sys |         |         |         |         |         |         |         |         |
| TOTAL   |                                                   | 122763  | 159442  | 266584  | 258405  | 223911  | 249831  | 204405  | 140150  | 137448  |

REPORT/TOTAL
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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2009 through FY 2018). (25 sheets)

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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- Totals may be slightly different from sum of values due to rounding.
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –
Unescalated ($ in 000's) (FY 2009 through FY 2018). (25 sheets)

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250.D45 Construct 244-S DCRT Compliance Upgrades
250.D75 Startup and Test 244-S DCRT Compliance Upgrs
250.D95 Perf Mgmt Self Assmt for 244-S DCRT Compl Upgrs
250.D97 Perf Cntr Ready Assmt 244-S DCRT Comp Upgrs
250.E05 Dsn W-314 Ph 1 Wst Xfr Sys (WTS) Upgrs/Obt CD-3
250.E35 Startup/Test W-314 Master Pump Shutdown Upgrade
250.E50 Construct W-314 Ph 1 Waste Xfr Sys (WTS) Upgrs
250.E60 Perform MSA for W-314 Msp Upgrades
250.E80 Perform RA for W-314 Msp Upgrades
250.N15 Dsn W-314 Ph 2 AN Farm Upgrs and Obtain CD-3
250.N25 Startup/Test W-314 Ph1 AN (AN-101 & 4AN) Upgrs
250.N45 Construct W-314 Phase 2 AN Farm Upgrades
250.N55 Constr W-314 Ph 1 AN Upgrs for AN-101 and 4AN
250.N60 Mgmt Self-Assmt W314 Ph1 AN (AN-A/AN-B Ph) Upgr
250.N75 Startup and Test W-314 Phase 2 AN Farm Upgrs
250.N95 Perf Mgmt Self-Assmt for W-314 Ph2 AN Farm Upgrs
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 -
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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2009 through FY 2018). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2009 through FY 2018). (25 sheets)

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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1.01.04.01.09 FUTURE DST RETRIEVAL & TRANSFER PROJECT

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1.01.04.01.10 PHASE 1 DST RETRIEVAL OPERATIONS

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 –  
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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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1.01.04.01.14 DST RETRIEVAL SYSTEM DEVELOPMENT

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000's) (FY 2009 through FY 2018). (25 sheets)

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1.01.04.01.02.01 SST RETRIEVAL PROJECT MANAGEMENT & ADM.
710.716 Manage Retrieval SST Activities

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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| 270.105       | Prepare SST Retrieval Licensing Strategy                                   |         |         |         |         |         |         |         |         |         |         |
| 270.110       | Perform SST Retrieval USQ Process                                          |         |         |         |         |         |         |         |         |         |         |
| 270.C01       | Issue Criticality Sfy Eval Report for SST Retr                             |         |         |         |         |         |         |         |         |         |         |
| 270.C16       | Update or Amend Authorization Basis for SST Retr                           |         |         |         |         |         |         |         |         |         |         |
| TOTAL         | 1.01.04.01.02.12                                                             |         |         |         |         |         |         |         |         |         |         |
Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

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1.01.09.02.01 ILAW PROJECT MANAGEMENT

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1.01.09.02.03 W-464, ILHW INTERIM STORAGE FACILITY

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Table 4-5. Retrieval and Disposal Cost Loading Report by WBS Level 6 – Unescalated ($ in 000’s) (FY 2009 through FY 2018). (25 sheets)

Totals may be slightly different from sum of values due to rounding.

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| REPORT TOTAL | | 163314 | 200478 | 220974 | 212031 | 175813 | 161440 | 84260 | 67360 | 63668 | 61318 |
5.0 SCHEDULE BASELINE

The RPP Retrieval and Disposal P3 schedule has been prepared to reflect the technical and programmatic requirements necessary to execute the mission. The TFC schedules are developed in a hierarchical structure allowing for flow of performance measurement and reporting data from lower level schedules to higher level schedules.

The schedule products selected are presented in Appendix C and are discussed in Sections 5.1 through 5.4.

5.1 PROJECT MASTER BASELINE SCHEDULE

The Project Master Baseline Schedule (Appendix C) summarizes all activities and logic relationships for Phase 1. This schedule has been summarized from the lower level detail for each Level 1 Logic.

5.2 CRITICAL PATH SCHEDULE

The TFC Retrieval and Disposal P3 schedule with a critical path defined for each tank feed batch (Level 1 Logic) is provided in Appendix C. Constraining the “Provide Approval to Transfer” activity end-point for each feed batch as the “zero-float” activity generated this schedule. To create this critical path schedule, schedule contingency was removed. The P3 schedule was calculated and those activities that drive the end-point (within 60 days or less float) were selected and printed. This calculation was performed for each source tank logic sheet. (See Appendix C.)

5.3 LIFE-CYCLE INTEGRATED RESOURCE-LOADED SCHEDULE

The detailed resource-loaded schedule was developed from and can be traced to the Level 1 Logic diagrams, TBR package data, and the WBS developed to define the scope, schedule, and cost for Phase 1 activities. The schedule, prepared in P3, is task oriented, logic driven, and resource loaded. TBR cost estimates were loaded and priced in P3 to produce the labor and non-labor resources presented in this document. (See Appendix C.)

5.4 MILESTONE LIST

Table 5-1 provides a list of the major and key milestones in support of the TFC Phase 1 scope.
Table 5-1. Tank Farm Contractor Key Milestones.

<table>
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<th>Milestone Description</th>
<th>RTP P3 Target Dates</th>
<th>Tri-Party Agreement Milestone #</th>
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<td>Complete Sluicing Retrieval of Tank 241-C-106</td>
<td>31-Dec-99</td>
<td>M-45-03B</td>
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<tr>
<td>Complete Tank Farm Upgrades</td>
<td>16-Oct-03</td>
<td>M-43-00</td>
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<td>Start Construction in 2nd Farm</td>
<td>01-Oct-99</td>
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<td>Start Construction in 3rd Farm</td>
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<td>M-43-14</td>
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<tr>
<td>Start Construction in 4th Farm</td>
<td>12-Apr-01</td>
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<td>Start Construction in 5th Farm</td>
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<td>29-Sep-17</td>
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<td>Annual Update SST Retrieval Sequence</td>
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<td>M-45-02V</td>
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<td>31-Dec-99</td>
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<td>Initial Retrieval from 2 SSTs</td>
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Table 5-1. Tank Farm Contractor Key Milestones.

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<td>CD-4 Initiate Hot Operations W-520</td>
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<td>Complete W-464 Construction (including startup)</td>
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<td>Complete New AZ Pit</td>
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<td>Complete Pipeline - AN Farm to New AZ Valve</td>
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<td>Complete 200 East Area Construction</td>
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<td>Complete Site System Upgrades</td>
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Table 5-1. Tank Farm Contractor Key Milestones.

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<td>Start AP-101 Pretreat</td>
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Table 5-1. Tank Farm Contractor Key Milestones.

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<th>Phase 1 Waste Retrieval: Vitrify AP-101</th>
<th>RTP P3 Target Dates</th>
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Table 5-1. Tank Farm Contractor Key Milestones.

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Table 5-1. Tank Farm Contractor Key Milestones.

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<tr>
<th>Milestone Description</th>
<th>RTP P3 Target Dates</th>
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<td>Start AZ-101 Vitrification</td>
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### Table 5-1. Tank Farm Contractor Key Milestones.

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<th>Milestone Description</th>
<th>RTP P3 Target Dates</th>
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<td>Phase 1 Waste Retrieval: Eng/Design/Construction/Startup &amp; Turnover SY-103</td>
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<td>14-Mar-11</td>
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<td>Phase 1 Waste Retrieval: Sample/Analysis, BNFL Approval SY-103</td>
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<td>Complete Construction Power 7MW Complete for BNFL</td>
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<td>Complete Electrical Power for BNFL Operations</td>
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<td>CD 4-Initiate Hot Operations W-520</td>
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<td>Immobilized Waste: W-464 Operation</td>
<td>Operation of HLW Canister Storage</td>
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<td>Receive Last Phase IHLW for Disposal</td>
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6.0  SUMMARY OF PROGRAM-LEVEL CHANGES FOR PHASE 1

This section provides a summary-level discussion of the scope, schedule, and cost changes between the Programmatic Baseline Summary for Phase 1 for the TFC and the RPP FY 2000 Multi-Year Work Plan Summary (RPP-5044, Rev. 1). This section specifically addresses the scope directly associated with executing the Retrieval and Disposal Phase 1 in support of the Privatization mission.

The TFC has reduced Phase 1 costs by approximately $676M. This reduction is associated with the assumptions of unconstrained funding starting in FY 2001. However, because of scope shift and time phasing, as well as other programmatic adjustments, the majority of this reduction to Phase 1 is a reallocation to other program areas. The Retrieval and Disposal Mission Phase 1 Financial Analysis, HNF-2017, Rev. 2, further documents the life-cycle financial changes.

6.1  RETRIEVAL PROJECT

Based on preparation of Level 1 Logics and associated baseline review and updates, the following changes are noted.

DST Retrieval Project ($230M)

A new DST retrieval sequence was implemented in this schedule based on guidance from ORP. AP-101 retrieval was accelerated by 11 years to become the first waste delivered to the Privatization Contractor, supporting ORP direction to start processing LAW before HLW. Schedule acceleration was accompanied by a simplification in the retrieval equipment installed in this tank to support a supernatant-only transfer. Consistent with the directed retrieval sequence, two DSTs were eliminated from W-522 Phase 1 feed delivery scope and estimates were refined for the retrieval equipment needed for three of the tanks. In addition, W-525 scope was further defined, resulting in a reduction for Phase 1 activities.

Single-Shell Tank Retrieval Project ($318M)

The SST Retrieval Project made several significant changes to the FY 2000 MYWP planning basis during the RTP evaluation. The principal change driver was the directive from ORP (September 30, 1999, Work Authorization, Rev. 0) to incorporate the retrieval of tank 241-C-104 into the Phase 1, Waste Feed Delivery minimum order. This directive required the SST Retrieval Project to accelerate the retrieval of waste from Tank 241-C-104 from the MYWP date of FY 2010 to mid-FY 2007, and re-plan the balance of the Phase 1 SST retrieval projects to meet Waste Feed Delivery Phase 1 Extended Order delivery requirements.

The performance of the sluicing campaign in 241-C-106 resulted in a re-evaluation of the objectives of the “Limits of Technology” test and demonstration project. This project was planned as an alternative technology deployment to remove the anticipated hard heel from Tank 241-C-106. However, preliminary evaluation has indicated that a second retrieval campaign in Tank 241-C-106 may not be warranted. Activities have been included in RTP to
obtain a determination of operational closure for Tank 241-C-106 and the “Limits of Technology” test and demonstration project has been replanned.

In summary the major changes from the FY 2000 MYWP to the RTP-2 planning base for the SST Retrieval Project include:

1. Acceleration of Tank 241-C-104 retrieval from FY 2010 to FY 2007
2. Rescheduling of Tanks 241-C-107, 241-S-102, and 241-S-105 to meet revised feed delivery requirements
3. Replanning of the “Limits of Technology” project and elimination of the hard heel retrieval deployment in Tank 241-C-106
4. Acceleration of the Saltcake Dissolution test and demonstration project activities to support cost reduction initiatives and Phase 1 saltcake retrieval
5. Incorporation of new activities to plan and attain operational closure for Tank 241-C-106
6. Reallocation of test and deployment demonstration projects, not required to support the selected W-523 Phase 1 retrievals, to Phase 2 costs
7. Revised planning and estimating for FY 2000 W-523 and programmatic activities to support the accelerated Tank 241-C-104 schedule.

6.2 PROCESS WASTE SUPPORT

After preparation of the Level 1 Logics and associated baseline review and updates, no scope, schedule, or cost changes were made.

6.3 INFRASTRUCTURE PROJECT ($9M)

Based on preparation of the Level 1 Logics and associated baseline review and updates, no scope or schedule changes occurred. The following cost changes were made.

Costs for Privatization Infrastructure Phase 1 activities are $9.0 Million lower than those shown in the FY 2000 MYWP. The reduction is primarily attributable to a change in the labor rate table, and a reduction in the approved escalation rate table. No scope or schedule changes occurred.

6.4 IMMobilized WASTE ($59M)

Based on preparation of Level 1 Logics and associated baseline review and updates the following changes are noted.

6.4.1.1 Immobilized Low-Activity Waste Disposal Storage. CHG recommended and ORP approved cancellation of Project W-465, Interim Storage Facility, and the shift to a Remote
Handled Trench concept for disposal of ILAW. Project W-520, ILAW Disposal Facility, scope was revised to delete concrete vaults and incorporate the Remote Handled Trench architecture. Project W-520 design activities were accelerated from September 2005 to October 2002, and construction completion was accelerated from September 2010 to July 2006, with startup/turnover activities accelerated from May 2011 to June 2007. In addition, Disposal of Failed Melters was moved from the IHLW Program to ILAW Program.

6.4.1.2 Immobilized High-Level Waste Interim Storage. As a result of revised project delivery dates of IHLW to CHG, preparation and submittal of the Part B Permit for Project W-464 is deferred from FY 2000 to FY 2002 to match the revised Tri-Party Agreement milestone date. Completion of construction for Project W-464 was deferred from March 2005 to March 2007 consistent with the revised need date and startup of W-464 was deferred from March 2006 to June 2008.

6.5 CHARACTERIZATION PROJECT ($65M)

Waste feed characterization sampling and analysis scope was reduced for Phase 1. Changes to requirements contained in ICDs 19, 20, and 23 reduced the number of HLW and LAW samples and associated laboratory analysis required to certify feed delivered to the privatization contractor. Significant changes were reducing the number of core samples from 2 to 1 for HLW tanks and analyzing only the first batch instead of all batches for high-level waste transfers.
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7.0 REFERENCES


CHG, 2000b, River Protection Project Key Planning Assumptions, RPP-5993, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington.


APPENDIX A

LEVEL 1 LOGICS
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APPENDIX A

LEVEL 1 LOGICS

Level 1 Logics have been prepared for the Phase 1 Privatization mission in three media formats: 10 sets of drawings, “C” size; 10 titled CD ROMs titled “RTP II” (4/00); and electronic access via the Hanford intranet, RPP Technical Resources web site.

A.1 LOW-ACTIVITY WASTE FEED BATCHES, LEVEL 1 LOGICS

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A.2 HIGH-LEVEL WASTE FEED BATCHES, LEVEL 1 LOGICS

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A.3 IMMobilized LOW-ACTIVITY, HIGH LEVEL WASTE LOGICS AND INFRASTRUCTURE LOGICS

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A.4 WASTE FEED DELIVERY DEFINITION, PROGRAM MANAGEMENT AND SST PROGRAM LOGICS

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APPENDIX B

TANK FARM CONTRACTOR INTEGRATED RESOURCE LOADED SCHEDULE
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APPENDIX B

TANK FARM CONTRACTOR INTEGRATED RESOURCE LOADED SCHEDULE

Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>100.C03</td>
<td>Update Best Basis Inventory and Tank Characterization Report for C-104</td>
<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>100.C19</td>
<td>Obtain C-107 Core Samples and Prepare Sub-Samples and Composites</td>
<td>1.01.01.01.01.04</td>
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<td>100.C30</td>
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<td>Sample and Analyze AN-104 Feed Certification Samples per LAW Feed Cert</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<th>Level 1 Logic TBR Number</th>
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<th>WBS Level 6</th>
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<td>100.N62</td>
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<td>100.N63</td>
<td>Sample AN-105 Feed in AN-105 and Analyze for Sulfates</td>
<td>1.01.01.01.04</td>
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<td>Sample SY-101 Feed in AP-104</td>
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<td>Sample SY-102 per BNFL Requirements and Deliver Sample to BNFL</td>
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### APPENDIX B

**TANK FARM CONTRACTOR INTEGRATED RESOURCE LOADED SCHEDULE**

**Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.**

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<th>TBR Number</th>
<th>TBR Title</th>
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<td>Receive and Disposition BNFL Study Residue and Job Control Samples</td>
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<td>Sample AN-104 Feed in AN-104 and Analyze for Sulfates</td>
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### Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<td>Sample and Analyze AP-102</td>
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<td>Sample and Analyze AP-102 Feed Certification Samples per LAW Feed Cert DQO from AP-102</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.P65</td>
<td>Sample and Analyze AP-105 Feed Certification Samples per LAW Feed Cert DQO from AP-104</td>
<td>1.01.01.01.04</td>
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<td>100.P67</td>
<td>Sample and Analyze AP-105 Feed Certification Samples per LAW Feed Cert DQO from AP-105</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.P68</td>
<td>Sample and Analyze AP-101 Feed Certification Samples per LAW Feed Cert DQO from AP-101</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.P69</td>
<td>Sample AP-101 per BNFL, ORP/WIT, and RPP Requirements</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.P71</td>
<td>Sample and Analyze SY-101 Feed Certification Samples per LAW Feed Cert DQO from AP-104</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.P77</td>
<td>Sample and Analyze S-105 Feed Certification Samples per LAW Feed Cert DQO from AN-105</td>
<td>1.01.01.01.04</td>
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<td>100.S46</td>
<td>Sample and Analyze S-102 Feed Certification Samples per LAW Feed Cert DQO from AP-101</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.S47</td>
<td>Sample SY-102 per BNFL Requirements and Deliver Sample to BNFL</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.S54</td>
<td>Sample S-105</td>
<td>1.01.01.01.04</td>
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<td>100.S56</td>
<td>Sample S-102</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.S57</td>
<td>Perform S-102 Post Retrieval Verification</td>
<td>1.01.01.01.04</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<th>Level 1 Logic TBR Number</th>
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<tr>
<td>100.SAZ</td>
<td>Perform S-105 Post Retrieval Verification</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>100.SBA</td>
<td>Provide FY 2002 Sample of SY-101 per ICD 23 Schedule to BNFL</td>
<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>100.W01</td>
<td>Provide FY 2002 Sample of AW-101 per ICD 23 Schedule to BNFL</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>100.W02</td>
<td>Obtain AW-103 Core Samples and Prepare Sub-Samples and Composites</td>
<td>1.01.01.01.01.05</td>
</tr>
<tr>
<td>100.W03</td>
<td>Sample AW-103 per BNFL Requirements and Deliver Sample to BNFL</td>
<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>100.W07</td>
<td>Obtain AW-104 (HLW) Core Samples and Prepare Sub-Samples and Composites</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>100.W08</td>
<td>Sample and Analyze AW-103 Feed Certification Samples from AW-103 per HLW Feed Cert. DQO</td>
<td>1.01.01.01.01.05</td>
</tr>
<tr>
<td>100.W09</td>
<td>Analyze BNFL Provided Sample of 1st Batch of AW-104(HLW)/AW-103 Feed from AW-104 to HLW Feed Cert. DQO</td>
<td>1.01.01.01.01.05</td>
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<tr>
<td>100.W15</td>
<td>Sample and Analyze AW-104(HLW)/AW-103 Feed Certification Samples per HLW Feed Cert. DQO from AW-104</td>
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<td>100.W45</td>
<td>Sample and Analyze AW-101 Feed Certification Samples per LAW Feed Cert DQO from AN-105</td>
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<td>Sample and Analyze AW-101 Feed Certification Samples per LAW Feed Cert DQO from AW-101</td>
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<tr>
<td>100.W49</td>
<td>Sample and Analyze AW-104 (LAW) Feed Certification Samples per LAW Feed Cert DQO from AP-104</td>
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<td>100.Y05</td>
<td>Obtain SY-102 Core Samples and Prepare Sub-Samples and Composites</td>
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<td>100.Y43</td>
<td>Sample and Analyze SY-101 Feed Certification Samples per LAW Feed Cert DQO from AN-101</td>
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<td>100.Y44</td>
<td>Sample SY-103</td>
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<td>100.Y45</td>
<td>Sample and Analyze SY-103 Feed Certification Samples per LAW Feed Cert DQO from AN-101</td>
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<td>100.Z01</td>
<td>Obtain AY-102 Core Samples and Prepare Sub-Samples and Composites</td>
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<tr>
<td>100.Z03</td>
<td>Obtain AZ-102 Core Samples and Prepare Sub-Samples and Composites</td>
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<td>100.Z04</td>
<td>Core Sample AZ-101</td>
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<td>100.Z05</td>
<td>Provide Post Part B2 Sample of AZ-102 per ICD 23 Schedule to BNFL</td>
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<td>100.Z07</td>
<td>Provide FY 2002 Sample of AY-102/C-106 per ICD 23 Schedule to BNFL</td>
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<tr>
<td>100.Z09</td>
<td>Sample AZ-101 per BNFL Requirements and Deliver Sample to BNFL</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>100.Z10</td>
<td>Provide Post Part B2 Sample of AZ-101 per ICD 23 Schedule to BNFL</td>
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<tr>
<td>100.Z11</td>
<td>Sample and Analyze AZ-101 Feed Certification Samples per HLW Feed Cert.</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<td>100.Z12</td>
<td>Sample and Analyze AZ-102 Feed Certification Samples per HLW Feed Cert. DQO</td>
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<tr>
<td>100.Z13</td>
<td>Sample and Analyze AY-102/C-106 Feed Certification Samples per HLW Feed Cert. DQO</td>
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<td>100.Z16</td>
<td>Sample and Analyze AY-101/C-104 Feed Certification Samples per HLW Feed Cert. DQO</td>
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<tr>
<td>100.Z17</td>
<td>Sample and Analyze SY-102 Feed Certification Samples per HLW Feed Cert. DQO in AZ-101</td>
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<tr>
<td>100.Z18</td>
<td>Obtain AY-101 Core Samples and Prepare Sub-Samples and Composites</td>
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<tr>
<td>100.Z19</td>
<td>Sample AY-101 per BNFL Requirements and Deliver Sample to BNFL</td>
<td>1.01.01.01.04</td>
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<tr>
<td>100.Z30</td>
<td>Perform AZ-101 Process Test Sampling and Analysis</td>
<td>1.01.01.01.04</td>
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<td>100.Z33</td>
<td>Analyze BNFL Provided Sample of 1st Batch of HLW Feed From AZ-101 to HLW Feed Cert. DQO</td>
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<td>100.Z34</td>
<td>Analyze BNFL Provided Sample of 1st Batch of HLW Feed From AZ-102 to HLW Feed Cert. DQO</td>
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<td>100.Z45</td>
<td>Analyze BNFL Provided Sample of 1st Batch of AY-102/C-106 HLW Feed From AY-102 to HLW Feed Cert. DQO</td>
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<td>Analyze BNFL Provided Sample of 1st Batch of AY-101/C-104 HLW Feed From AY-101 to HLW Feed Cert. DQO</td>
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<td>100.Z87</td>
<td>Analyze BNFL Provided Sample of 1st Batch of C-107/AW-103 HLW Feed From AY-102 to HLW Feed Cert. DQO</td>
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<tr>
<td>100.ZAB</td>
<td>Sample and Analyze C-107/AW-103 Feed Certification Samples per HLW Feed Cert. DQO from AY-102</td>
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<td>100.ZAC</td>
<td>Analyze BNFL Provided Sample of 1st Batch of SY-102 HLW Feed From AZ-101 to HLW Feed Cert. DQO</td>
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<td>10S.N47</td>
<td>Provide AN-107 Samples from AN-107 to BNFL</td>
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<td>10S.N49</td>
<td>Provide AN-105 Samples from AN-102 to BNFL</td>
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<td>10S.N50</td>
<td>Provide AN-105 Samples from AN-105 to BNFL</td>
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<td>Provide AN-102 Samples from AN-102 to BNFL</td>
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<td>10S.N53</td>
<td>Provide AN-104 Samples from AN-104 to BNFL</td>
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<td>10S.N54</td>
<td>Provide AN-104 Samples from AN-101 to BNFL</td>
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<td>10S.N55</td>
<td>Provide AN-103 Samples from AN-102 to BNFL</td>
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<td>10S.N56</td>
<td>Provide AN-103 Samples from AN-103 to BNFL</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<th>Level 1 Logic TBR Number</th>
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<tr>
<td>10S.N65</td>
<td>Provide AP-106 Samples from AN-102 to BNFL</td>
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<td>10S.P03</td>
<td>Provide AP-106 Samples from AP-106 to BNFL</td>
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<td>10S.P05</td>
<td>Provide AP-108 Samples from AP-108 to BNFL</td>
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<td>10S.P65</td>
<td>Provide AP-102 Samples from AP-102 to BNFL</td>
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<tr>
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<td>Provide AP-105 Samples from AP-104 to BNFL</td>
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<td>10S.P68</td>
<td>Provide AP-105 Samples from AP-105 to BNFL</td>
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<tr>
<td>10S.P69</td>
<td>Provide AP-101 Samples from AP-101 to BNFL</td>
<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>10S.P77</td>
<td>Provide SY-101 Samples from AP-104 to BNFL</td>
<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>10S.S46</td>
<td>Provide S-105 Samples from AN-105 to BNFL</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>10S.S47</td>
<td>Provide S-102 Samples from AP-101 to BNFL</td>
<td>1.01.01.01.01.04</td>
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<td>10S.W08</td>
<td>Provide Separate AW-103 (HLW) Samples from AW-103 to BNFL</td>
<td>1.01.01.01.01.04</td>
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<td>10S.W15</td>
<td>Provide Separate AW-104( HLW)/AW-103 Samples to BNFL from AW-104</td>
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<td>Provide AW-101 Samples from AN-105 to BNFL</td>
<td>1.01.01.01.01.04</td>
</tr>
<tr>
<td>10S.W46</td>
<td>Provide AW-101 Samples from AW-101 to BNFL</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>10S.W49</td>
<td>Provide AW-104 (LAW) Samples (from AP-104) to BNFL</td>
<td>1.01.01.01.01.04</td>
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<tr>
<td>10S.Y43</td>
<td>Provide SY-101 Samples from AN-101 to BNFL</td>
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<td>10S.Y45</td>
<td>Provide SY-103 Samples from AN-101 to BNFL</td>
<td>1.01.01.01.01.04</td>
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<td>10S.Z11</td>
<td>Provide Separate AZ-101 Samples to BNFL</td>
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<tr>
<td>10S.Z12</td>
<td>Provide Separate AZ-102 Samples to BNFL</td>
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<tr>
<td>10S.Z13</td>
<td>Provide Separate AY-102/C-106 Samples to BNFL from AY-102</td>
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<td>10S.Z16</td>
<td>Provide Separate AY-101/C-104 Samples to BNFL from AY-101</td>
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<td>Provide Separate SY-102 Samples to BNFL from AZ-101</td>
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<td>Provide Separate C-107/AW-103 Samples to BNFL from AY-102</td>
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<td>110.010</td>
<td>Project Management for AZ-101 Process Test</td>
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<td>110.045</td>
<td>Issue AZ-101 Process Test Plans and Procedures</td>
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<tr>
<td>110.050</td>
<td>Perform Contractor Independent Readiness Assessment for AZ-101 Process</td>
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<td>110.055</td>
<td>Perform Management Self-Assessment for AZ-101 Process Test</td>
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<td>110.070</td>
<td>Perform AZ-101 Process Test</td>
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<tr>
<td>110.075</td>
<td>Perform AZ-101 Suspension and Settling Test</td>
<td>1.01.04.01.01.04</td>
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<td>110.090</td>
<td>Prepare AZ-101 Process Test Report</td>
<td>1.01.04.01.01.04</td>
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<tr>
<td>110.095</td>
<td>Install and Test Monitoring Equipment in AZ-101</td>
<td>1.01.04.01.01.04</td>
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<td>120.005</td>
<td>Develop and Issue the Double Shell Tank System Specification and ICDs</td>
<td>1.01.04.01.01.03</td>
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<tr>
<td>120.010</td>
<td>Update the Double Shell Tank System Specification and ICDs</td>
<td>1.01.04.01.01.03</td>
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<tr>
<td>120.015</td>
<td>Develop and Issue the Double Shell Tank Component Specifications</td>
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<td>120.020</td>
<td>Update the Double Shell Tank Component Specification</td>
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<td>120.025</td>
<td>Maintain WFD Technical Basis</td>
<td>1.01.04.01.01.14</td>
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<td>120.A00</td>
<td>Project Management for W-211</td>
<td>1.01.04.01.01.05</td>
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<tr>
<td>120.A03</td>
<td>Verify AZ Tank Farm Systems and Components Functionality</td>
<td>1.01.04.01.01.14</td>
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<tr>
<td>120.A04</td>
<td>Perform Acquisition Strategy for AZ Tank Farm</td>
<td>1.01.04.01.01.03</td>
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<tr>
<td>120.A05</td>
<td>Perform AZ Tank Farm Trade Studies</td>
<td>1.01.04.01.01.14</td>
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<tr>
<td>120.A07</td>
<td>Verify AY Tank Farm Systems and Components Functionality</td>
<td>1.01.04.01.01.14</td>
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<tr>
<td>120.A08</td>
<td>Perform Acquisition Strategy for AY Tank Farm</td>
<td>1.01.04.01.01.03</td>
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<td>120.A09</td>
<td>Perform AY Tank Farm Trade Studies</td>
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<td>120.A11</td>
<td>Verify AW Tank Farm Systems and Components Functionality</td>
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<td>120.A12</td>
<td>Perform Acquisition Strategy for AW Tank Farm</td>
<td>1.01.04.01.01.03</td>
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<td>Perform AW Tank Farm Trade Studies</td>
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<td>120.A15</td>
<td>Verify AN Tank Farm Systems and Components Functionality</td>
<td>1.01.04.01.01.14</td>
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<td>120.A16</td>
<td>Perform Acquisition Strategy for AN Tank Farm</td>
<td>1.01.04.01.01.03</td>
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<td>Perform AN Tank Farm Trade Studies</td>
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<td>120.A19</td>
<td>Verify AP Tank Farm Systems and Components Functionality</td>
<td>1.01.04.01.01.14</td>
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<tr>
<td>120.A20</td>
<td>Perform Acquisition Strategy for AP Tank Farm</td>
<td>1.01.04.01.01.03</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>Level 1 Logic TBR Number</th>
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<tr>
<td>120.A21</td>
<td>Perform AP Tank Farm Trade Studies</td>
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<td>120.A23</td>
<td>Verify SY Tank Farm Systems and Components Functionality</td>
<td>1.01.04.01.01.14</td>
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<td>120.A24</td>
<td>Perform Acquisition Strategy for SY Tank Farm</td>
<td>1.01.04.01.01.03</td>
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<td>120.A25</td>
<td>Perform SY Tank Farm Trade Studies</td>
<td>1.01.04.01.01.14</td>
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<td>120.B10</td>
<td>Define Requirements, Design, Install Central Control Room, and Shift Office</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>120.B20</td>
<td>Establish Dilution Requirements and Dissolution Behavior for AP-104</td>
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<tr>
<td>120.B29</td>
<td>Establish Dilution Requirements and Dissolution Behavior for AP-102</td>
<td>1.01.04.01.01.02</td>
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<td>120.B30</td>
<td>Provide Retrieval Program Direction to Project W-211 for AP-102 &amp; AP-104</td>
<td>1.01.04.01.01.03</td>
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<td>120.B37</td>
<td>Update the Design for the AP-102 &amp; AP-104 Mixing and Retrieval Systems &amp; Obtain CD-3</td>
<td>1.01.04.01.01.05</td>
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<tr>
<td>120.B40</td>
<td>Prepare Tanks AP-102 &amp; AP-104 for Turnover to Project for Construction</td>
<td>1.01.04.01.01.10</td>
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<tr>
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<td>Procure Equipment for the AP-102 &amp; AP-104 Mixing and Retrieval Systems</td>
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<td>Perform Contractor Standard Startup Review for AP-102 &amp; AP-104</td>
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<td>Perform Management Self-Assessment for the AP-102 and AP-104 Mixing and Retrieval Systems</td>
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<td>120.C43</td>
<td>Perform Conceptual Design for W-522 Retrieval Systems</td>
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<td>Provide Critical Decision 2 Approval for Project W-522</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<td>120.E95</td>
<td>Transfer AN-101 to AN-106</td>
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<td>120.G38</td>
<td>Adjust WFD Acquisition Strategy for Phase 1 Tanks</td>
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<td>Design AW-101 Mixing and Retrieval System and Obtain CD-3</td>
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<th>Level 1 Logic</th>
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<tr>
<td>120.V10</td>
<td>Establish Dilution Requirements and Dissolution Behavior for AP-101</td>
<td>1.01.04.01.01.02</td>
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<tr>
<td>120.V12</td>
<td>Analyze AP-101 per BNFL, ORP/WIT, and RPP Requirements</td>
<td>1.01.04.01.01.02</td>
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<tr>
<td>120.V45</td>
<td>Replace AP-101 Transfer Pump, Jumpers, and Associated Equipment</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>120.V60</td>
<td>Startup and Test the AP-101 Transfer Pump</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>120.V65</td>
<td>Complete AP-101 Transfer System Preparations and Integrated Testing</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>120.V72</td>
<td>Perform Management Self-Assessment for AP-101 Transfer System</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>120.V78</td>
<td>Perform Contractor Independent Operational Readiness Review for AP-101 Transfer System</td>
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<tr>
<td>120.V85</td>
<td>Perform DOE-ORP Operational Readiness Review and Obtain CD-4 for AP-101 Transfer System</td>
<td>1.01.04.01.01.10</td>
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<td>120.V90</td>
<td>Design the AP Farm Waste Feed Delivery Transfer System</td>
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<td>120.V92</td>
<td>Construct the AP Farm Waste Feed Delivery Transfer System</td>
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<td>120.W10</td>
<td>Establish Dilution Requirements and Dissolution Behavior for AW-104</td>
<td>1.01.04.01.01.02</td>
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<tr>
<td>120.W50</td>
<td>Design the AW-104 Mixing and Retrieval System and Obtain CD-3</td>
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<td>120.W52</td>
<td>Procure Equipment for the AW-104 Mixing and Retrieval System</td>
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<td>Construct the AW-104 Mixing and Retrieval System</td>
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<td>Startup and Test the AW-104 Mixing and Retrieval System</td>
<td>1.01.04.01.01.10</td>
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<td>120.W70</td>
<td>Perform Contractor Standard Startup Review for AW-104</td>
<td>1.01.04.01.01.10</td>
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<td>120.W75</td>
<td>Provide CD-4 Approval for AW-104</td>
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<td>120.W83</td>
<td>Perform Management Self-Assessment for AW-104 Mixing and Retrieval System</td>
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<td>120.W99</td>
<td>Project Management for W-522</td>
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<td>Establish Dilution Requirements and Dissolution Behavior for AP-108</td>
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<td>120.Y50</td>
<td>Design the AP-108 Mixing and Retrieval System and Obtain CD-3</td>
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<tr>
<td>120.Y52</td>
<td>Procure Equipment for the AP-108 Mixing and Retrieval System</td>
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<td>Construct the AP-108 Mixing and Retrieval System</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>Level 1 Logic TBR Number</th>
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<tr>
<td>120.Y60</td>
<td>Startup and Test the AP-108 Mixing and Retrieval System</td>
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<td>120.Y70</td>
<td>Perform Contractor Standard Startup Review for AP-108</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>120.Y75</td>
<td>Provide CD-4 Approval for AP-108</td>
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<tr>
<td>120.Y83</td>
<td>Perform Management Self-Assessment for AP-108 Mixing and Retrieval System</td>
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<td>120.Z10</td>
<td>Establish Dilution Requirements and Dissolution Behavior for S-102</td>
<td>1.01.04.01.02.02</td>
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<td>130.020</td>
<td>Accomplish 222-S Laboratory Upgrades for Phase 1</td>
<td>1.01.04.01.01.09</td>
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<tr>
<td>130.028</td>
<td>Perform Special Cases and Studies</td>
<td>1.01.04.01.01.02</td>
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<td>130.033</td>
<td>Support DOE/BNFL Proposals and Studies</td>
<td>1.01.04.01.01.02</td>
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<td>130.B05</td>
<td>Identify Required Spare Equipment to Support LAW/HLW Phase 1 WFD</td>
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<tr>
<td>130.B10</td>
<td>Procure Waste Feed Delivery Spare Equipment per Retrieval Specification</td>
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<td>130.B15</td>
<td>Prepare to Maintain Waste Feed Staging in the Production Mode</td>
<td>1.01.04.01.01.10</td>
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<td>130.B16</td>
<td>Maintain Waste Feed Delivery System Operable</td>
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<td>130.B20</td>
<td>Provide Authorization to Add Diluent and Waste to FG Watchlist DSTs</td>
<td>1.01.04.01.01.14</td>
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<tr>
<td>130.B22</td>
<td>Prepare Process Control Plan for AP-102/AP-104</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.B23</td>
<td>Transfer AN-105 Feed between AN-102 and AN-105 until Sulfate Analysis is Acceptable</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.B25</td>
<td>Degas AN-105 by Decanting the 1st Batch of AN-105 to AN-102</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.B55</td>
<td>Prepare Process Control Plan for AN-105</td>
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<tr>
<td>130.B65</td>
<td>Perform RPP Management Assessment of Overall Readiness to Supply LAW Feed to BNFL</td>
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<td>130.B75</td>
<td>Compare RAM and O&amp;M Concept with Operational Test Procedure Results (LAW)</td>
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<td>130.B80</td>
<td>Assess Secondary Waste, Utilities and Sample Analysis Against Plans (LAW)</td>
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<td>Prepare the LAW Feed Certification DQO</td>
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<td>Prepare Process Control Plan for AP-106</td>
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<td>130.C30</td>
<td>Mobilize and Retrieve AP-106 Waste and Receive Feed in AN-102</td>
<td>1.01.04.01.01.10</td>
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<td>130.C35</td>
<td>Acquire Cold Pump Test, Training, and Mock-Up Facility</td>
<td>1.01.04.01.01.03</td>
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<tr>
<td>130.E10</td>
<td>Degas AN-104 by Decanting 1st Batch of AN-104 to AN-101</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>Level 1 Logic TBR Number</th>
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<tr>
<td>130.E20</td>
<td>Transfer AN-104 Feed between AN-101 and AN-104 until Sulfate Analysis is Acceptable</td>
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<td>130.E35</td>
<td>Prepare Process Control Plan for AN-104</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.E40</td>
<td>Transfer AN-101 to AP-103</td>
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<td>130.G10</td>
<td>Degas AW-101 by Decanting the 1st Batch of AW-101 to AN-105</td>
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<td>130.G25</td>
<td>Prepare Process Control Plan for AW-101</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.I27</td>
<td>Transfer S-105 Feed from AN-104 to AN-105</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.I35</td>
<td>Cross-Site Transfer S-105 Feed from SY-103 to AN-105</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>130.J10</td>
<td>Degas AN-103 by Decanting 1st Batch of AN-103 to AN-102</td>
<td>1.01.04.01.01.10</td>
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<td>130.J25</td>
<td>Prepare Process Control Plan for AN-103</td>
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<td>130.K20</td>
<td>Prepare Process Control Plan for AN-107</td>
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<td>130.L20</td>
<td>Prepare Process Control Plan for AN-102</td>
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<td>Prepare Process Control Plan for AP-105</td>
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<td>Mobilize and Retrieve Waste in AP-105 and Receive Feed in AP-104</td>
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<td>130.R25</td>
<td>Prepare Process Control Plan for SY-101</td>
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<td>130.R28</td>
<td>Transfer 2nd Batch of SY-101 Feed to SY-102</td>
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<td>130.R35</td>
<td>Cross-Site Transfer 2nd Batch of SY-101 Feed from SY-102 to AN-101</td>
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<td>130.T25</td>
<td>Prepare Process Control Plan for SY-103</td>
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<td>Cross-Site Transfer SY-103 Feed to AN-101</td>
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<td>Prepare Process Control Plan for AW-104</td>
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<td>Decant AW-104 Waste and Receive (LAW) Feed in AP-104</td>
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<td>Prepare Process Control Plan for AP-108</td>
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<td>130.Z27</td>
<td>Transfer S-102 Feed from AN-104 to AP-101</td>
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<td>Cross-Site Transfer S-102 Feed from SY-103 to AN-104</td>
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<td>150.700</td>
<td>Prepare Test and Evaluation Plan for WFD Systems Verification</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>Level 1 Logic TBR Number</th>
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<tr>
<td>150.702</td>
<td>Perform WFD Operational Readiness Planning and Implementation</td>
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<td>150.704</td>
<td>Manage Waste Feed Delivery Activities</td>
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<td>150.708</td>
<td>Manage Retrieval Process Engineering</td>
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<td>150.715</td>
<td>Waste Feed Delivery Engineering Management</td>
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<td>150.718</td>
<td>Manage Retrieval Project Definition</td>
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<td>150.726</td>
<td>Waste Feed Delivery Process Development</td>
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<td>150.B05</td>
<td>Mix AP-102 Feed in AP-102</td>
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<td>150.B08</td>
<td>Maintain WFD Characterization Needs Matrices, Problem Specific DQOs, and Sample Schedule</td>
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<td>150.B14</td>
<td>Develop and Establish Technical Safety Requirements (TSRs)</td>
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<td>150.B16</td>
<td>Update or Amend Authorization Basis for DST Retrieval</td>
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<td>150.B17</td>
<td>Maintain Authorization Basis and Criticality Safety Evaluation Reports</td>
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<td>Maintain the Operations &amp; Utilization Plan (O&amp;UP)</td>
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<td>Provide AP-102 Feed Batch Info from AP-102 to DOE-ORP</td>
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<td>Maintain Waste Feed Delivery ICDs 19 and 20</td>
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<td>150.B29</td>
<td>Manage Privatization Interface (TW-05)</td>
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<td>Provide Approval to Deliver LAW Feed Batch #8</td>
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<td>150.B31</td>
<td>Provide Approval to Deliver Spare LAW Feed Batch</td>
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<tr>
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<td>Deliver AP-102 Feed from AP-102 to BNFL Facility</td>
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<td>Provide AN-105 Feed Batch Info (from AN-102) to DOE-ORP</td>
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<td>150.B44</td>
<td>Deliver 1st Batch of AN-105 Feed from AN-102 to BNFL Facility</td>
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<td>150.B48</td>
<td>Mix Remaining AN-105 Feed</td>
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<td>Decant 2nd Batch of AN-105 Feed from AN-105 to BNFL Facility</td>
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<td>150.B65</td>
<td>Provide Approval to Deliver LAW Feed Batch #9</td>
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<td>150.C01</td>
<td>Issue Criticality Safety Evaluation Report for DST Retrieval</td>
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<td>Mix AP-106 Feed in AN-102</td>
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<td>Provide AN-104 Feed Batch Info from AN-104 to DOE-ORP</td>
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<td>Provide Approval to Deliver LAW Feed Batch #5</td>
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<td>Deliver 1st Batch of AN-104 Feed from AN-104 to BNFL Facility</td>
<td>1.01.04.01.01.10</td>
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<td>Mix AN-104 Feed in AN-101</td>
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<td>Provide AN-104 Feed Batch Info (from AN-101) to DOE-ORP</td>
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<td>Provide Approval to Deliver LAW Feed Batch #6</td>
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<td>Decant 2nd Batch of AN-104 Feed from AN-101 to BNFL Facility</td>
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<tr>
<td>150.G25</td>
<td>Provide AW-101 Feed Batch Info (from AN-105) to DOE-ORP</td>
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<td>150.G30</td>
<td>Provide Approval to Deliver LAW Feed Batch #14</td>
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<tr>
<td>150.G35</td>
<td>Deliver 1st Batch of AW-101 Feed from AN-105 to BNFL Facility</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>150.G40</td>
<td>Mix Remaining AW-101 Feed</td>
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<td>150.G54</td>
<td>Repair/Upgrade Existing AW Tank Farm Systems Required for WFD Phase 1</td>
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<td>Provide Approval to Deliver LAW Feed Batch #21</td>
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<th>BNFL Inc. Phase 1 Privatization activities identified at WBS Level 3 (1.01.06).</th>
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<td>150.135</td>
<td>Deliver S-105 Feed from AN-105 to BNFL Facility</td>
<td>1.01.04.01.01.10</td>
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<td>Deliver 1st Batch of AN-103 Feed from AN-102 to BNFL Facility</td>
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<td>150.40</td>
<td>Mix Remaining AN-103 Feed</td>
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<td>Provide AN-103 Feed Batch Info (from AN-103) to DOE-ORP</td>
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<td>Provide Approval to Deliver LAW Feed Batch #13</td>
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<td>Decant 2nd Batch of AN-103 Feed from AN-103 to BNFL Facility</td>
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<td>150.75</td>
<td>Mix AN-107 Feed in AN-107</td>
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<td>150.90</td>
<td>Provide AN-107 Feed Batch Info from AN-107 to DOE-ORP</td>
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<td>150.98</td>
<td>Decant AN-107 Feed from AN-107 to BNFL Facility</td>
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<td>Repair/Upgrade Existing AN Tank Farm Systems Required for WFD Phase 1</td>
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<td>150.L05</td>
<td>Mix AN-102 Feed in AN-102</td>
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<td>150.L75</td>
<td>Clean Out AN-102 and Flush to AN-106</td>
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<td>150.N05</td>
<td>Mix AP-105 Feed in AP-104</td>
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<td>Provide Approval to Deliver LAW Feed Batch #23</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<td>150.N70</td>
<td>Deliver AP-105 Feed from AP-105 to BNFL Facility</td>
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<td>Repair/Upgrade Existing SY Tank Farm Systems Required for WFD Phase 1</td>
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<td>Provide SY-101 Feed Batch Info (from AP-104) to DOE-ORP</td>
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<td>Deliver 1st Batch of SY-101 Feed from AP-104 to BNFL Facility</td>
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<td>Provide SY-101 Feed Batch Info (from AN-101) to DOE-ORP</td>
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<td>Deliver 2nd Batch of SY-101 Feed from AN-101 to BNFL Facility</td>
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<td>Mix SY-103 Feed in AN-101</td>
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<td>Deliver AW-104 (LAW) Feed from AP-104 to BNFL Facility</td>
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<td>150.Y05</td>
<td>Mix AP-108 Feed in AP-108</td>
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<td>150.Y25</td>
<td>Provide AP-108 Feed Batch Info (from AP-108) to DOE-ORP</td>
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<td>150.Y35</td>
<td>Deliver AP-108 Feed from AP-108 to BNFL Facility</td>
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<td>150.Y54</td>
<td>Repair/Upgrade Existing AP Tank Farm Systems Required for WFD Phase 1</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<td>Deliver S-102 Feed from AP-101 to BNFL Facility</td>
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<td>Deliver 1st Batch of HLW Feed From AZ-101 to BNFL Facility</td>
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<td>Deliver 2nd Batch of HLW Feed From AZ-101 to BNFL Facility</td>
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<td>Deliver 3rd Batch of HLW Feed From AZ-101 to BNFL Facility</td>
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<td>Deliver 4th Batch of HLW Feed From AZ-101 to BNFL Facility</td>
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<td>Deliver 6th Batch of HLW Feed From AZ-102 to BNFL Facility</td>
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<td>160.250</td>
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<td>160.260</td>
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<td>160.270</td>
<td>Deliver 8th Batch of AY-101/C-104 HLW Feed From AY-101 to BNFL Facility</td>
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<td>160.280</td>
<td>Deliver 9th Batch of AY-101/C-104 HLW Feed From AY-101 to BNFL Facility</td>
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<td>160.290</td>
<td>Deliver 10th Batch of AY-101/C-104 HLW Feed From AY-101 to BNFL Facility</td>
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<td>160.320</td>
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<td>Deliver 4th Batch of SY-102 HLW Feed From AZ-101 to BNFL Facility</td>
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<td>160.360</td>
<td>Deliver 1st Batch of C-107/AW-103 HLW Feed From AY-102 to BNFL Facility</td>
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<td>Deliver 7th Batch of C-107/AW-103 HLW Feed From AY-102 to BNFL Facility</td>
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<td>160.430</td>
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<td>160.460</td>
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<td>160.470</td>
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<td>160.490</td>
<td>Deliver 5th Batch of AW-104(HLW)/AW-103 Feed From AW-104 to BNFL Facility</td>
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<td>160.500</td>
<td>Deliver 6th Batch of AW-104(HLW)/AW-103 Feed From AW-104 to BNFL Facility</td>
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<td>160.A15</td>
<td>Assess Secondary Waste, Utilities &amp; Sample Analysis Against Plans (HLW)</td>
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<td>160.A17</td>
<td>Compare RAM and O&amp;M Concept with Operational Test Procedure Results (HLW)</td>
<td>1.01.04.01.01.14</td>
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<td>160.A18</td>
<td>Perform RPP Management Assessment of Overall Readiness to Supply HLW Feed to BNFL</td>
<td>1.01.04.01.01.01</td>
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<tr>
<td>160.A22</td>
<td>Prepare Process Control Plan for AZ-101</td>
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<td>Design the AZ-101 Retrieval System and Obtain CD-3</td>
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<td>160.A34</td>
<td>Procure Equipment for the AZ-101 Retrieval System</td>
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<td>Construct the AZ-101 Retrieval System</td>
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<td>160.A38</td>
<td>Startup and Test the AZ-101 Mixing and Retrieval System</td>
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<td>160.A40</td>
<td>Perform Contractor Independent Operational Readiness Review for AZ-101</td>
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<td>160.A42</td>
<td>Perform DOE-ORP Operational Readiness Review and Obtain CD-4 for AZ-101</td>
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<td>Perform Conceptual Design for W-521 Retrieval Systems</td>
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<td>160.A48</td>
<td>Perform and Document AZ-101 Sample Analyses and Rheology Testing</td>
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<td>160.A54</td>
<td>Repair/Upgrade Existing AZ Farm Systems Required for Phase 1 WFD</td>
<td>1.01.04.01.01.09</td>
</tr>
<tr>
<td>160.A64</td>
<td>Mix AZ-101 Feed to Suspend Solids</td>
<td>1.01.04.01.01.10</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

<table>
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<tr>
<th>BNFL Inc. Phase 1 Privatization activities identified at WBS Level 3 (1.01.06).</th>
<th>TBR Title</th>
<th>WBS Level 6</th>
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<tbody>
<tr>
<td>160.A65</td>
<td>Complete AZ-101 Transfer System Preparations and Integrated Testing</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.A67</td>
<td>Provide Critical Decision 2 Approval for Project W-521</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.A70</td>
<td>Provide Approval to Deliver AZ-101 Feed</td>
<td>1.01.04.01.01.06</td>
</tr>
<tr>
<td>160.A76</td>
<td>Provide AZ-101 MT of Suspended Solids and Official Composition from AZ-101 to DOE-ORP</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.A83</td>
<td>Perform Management Self-Assessment of the AZ-101 Mixing and Retrieval System</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.A90</td>
<td>Prepare the HLW Feed Certification DQO</td>
<td>1.01.04.01.01.02</td>
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<tr>
<td>160.A99</td>
<td>Project management for W-521</td>
<td>1.01.04.01.01.06</td>
</tr>
<tr>
<td>160.B05</td>
<td>Prepare the W-521 Project Technical Baseline Document</td>
<td>1.01.04.01.01.03</td>
</tr>
<tr>
<td>160.B15</td>
<td>Prepare the W-522 Project Technical Baseline Document</td>
<td>1.01.04.01.01.03</td>
</tr>
<tr>
<td>160.F10</td>
<td>Perform and Document AZ-102 Sample Analyses and Rheology Testing</td>
<td>1.01.04.01.01.02</td>
</tr>
<tr>
<td>160.F20</td>
<td>Prepare Process Control Plan for AZ-102</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.F30</td>
<td>Provide Retrieval Program Direction to Project W-211 for AZ-102</td>
<td>1.01.04.01.01.03</td>
</tr>
<tr>
<td>160.F40</td>
<td>Design the AZ-102 Mixing and Retrieval System and Obtain CD-3</td>
<td>1.01.04.01.01.05</td>
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<tr>
<td>160.F50</td>
<td>Construct the AZ-102 Mixing and Retrieval System</td>
<td>1.01.04.01.01.05</td>
</tr>
<tr>
<td>160.F52</td>
<td>Procure Equipment for the AZ-102 Mixing and Retrieval System</td>
<td>1.01.04.01.01.05</td>
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<tr>
<td>160.F60</td>
<td>Startup and Test the AZ-102 Mixing and Retrieval System</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.F64</td>
<td>Mix AZ-102 Feed to Suspend Solids</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.F70</td>
<td>Provide Approval to Deliver AZ-102 Feed</td>
<td>1.01.06</td>
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<tr>
<td>160.F76</td>
<td>Provide AZ-102 MT of Suspended Solids and Official Composition from AZ-102 to DOE-ORP</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.F80</td>
<td>Perform Contractor Standard Startup Review for AZ-102</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.F83</td>
<td>Perform Management Self-Assessment for the AZ-102 Mixing and Retrieval System</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.F90</td>
<td>Provide CD-4 Approval for AZ-102</td>
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<tr>
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<td>Perform and Document AZ-102 Sample Analyses and Rheology Testing</td>
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<td>160.H20</td>
<td>Prepare Process Control Plan for AZ-102</td>
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<td>160.H30</td>
<td>Provide Retrieval Program Direction to Project W-211 for AZ-102</td>
<td>1.01.04.01.01.03</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<th>Level 1 Logic</th>
<th>TBR Number</th>
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<th>WBS Level 6</th>
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<td>160.H40</td>
<td></td>
<td>Design the AY-102 Mixing and Retrieval System and Obtain CD-3</td>
<td>1.01.04.01.01.05</td>
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<td>Construct the AY-102 Mixing and Retrieval System</td>
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<td>Procure Equipment for the AY-102 Mixing and Retrieval System</td>
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<td>160.H54</td>
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<td>Repair/Upgrade Existing AY Tank Farm Systems Required for WFD Phase 1</td>
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<td>Startup and Test the AY-102 Mixing and Retrieval System</td>
<td>1.01.04.01.01.10</td>
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<td>160.H64</td>
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<td>Mix AY-102/C-106 Feed to Suspend Solids</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.H70</td>
<td></td>
<td>Provide Approval to Deliver AY-102/C-106 Feed from AY-102</td>
<td>1.01.06</td>
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<tr>
<td>160.H76</td>
<td></td>
<td>Provide AY-102/C-106 MT of Suspended Solids and Official Composition from AY-101 to DOE-ORP</td>
<td>1.01.04.01.01.10</td>
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<td>160.H80</td>
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<td>Perform Contractor Standard Startup Review for AY-102</td>
<td>1.01.04.01.01.10</td>
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<td>Perform Management Self-Assessment for the AY-102 Mixing and Retrieval System</td>
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<td>Provide CD-4 Approval for AY-102</td>
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<td>160.J56</td>
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<td>160.J58</td>
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<td>160.P10</td>
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<td>Perform and Document SY-102 Sample Analyses and Rheology Testing</td>
<td>1.01.04.01.01.02</td>
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<tr>
<td>160.P25</td>
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<td>Prepare Process Control Plan for SY-102</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.P29</td>
<td></td>
<td>Mix as Necessary and Transfer SY-102 Slurry from AN-104 to AZ-101</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.P70</td>
<td></td>
<td>Provide Approval to Deliver SY-102 Feed from AZ-101</td>
<td>1.01.06</td>
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<tr>
<td>160.P72</td>
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<td>Mix as Necessary and Transfer SY-102 to AN-104 via Cross-Site Slurry Transfer Line</td>
<td>1.01.04.01.01.10</td>
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<td>160.P76</td>
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<td>Provide SY-102 MT of Suspended Solids and Official Composition from AZ-101 to DOE-ORP</td>
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<td>160.Q10</td>
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<td>Perform and Document C-107 Sample Analyses and Rheology Testing</td>
<td>1.01.04.01.02.02</td>
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<tr>
<td>160.Q64</td>
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<td>Mix C-107/AW-103 Feed in AY-102</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.Q70</td>
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<td>Provide Approval to Deliver C-107/AW-103 Feed from AY-102</td>
<td>1.01.06</td>
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<tr>
<td>160.Q76</td>
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<td>Provide C-107/AW-103 MT of Suspended Solids and Official Composition from AY-102 to DOE-ORP</td>
<td>1.01.04.01.01.10</td>
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<tr>
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<td></td>
<td>Perform and Document AY-101 Sample Analyses and Rheology Testing</td>
<td>1.01.04.01.01.02</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

<table>
<thead>
<tr>
<th>Level 1 Logic of TBR Number</th>
<th>TBR Title</th>
<th>WBS Level 6</th>
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<tr>
<td>160.S20</td>
<td>Prepare Process Control Plan for AY-101</td>
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<tr>
<td>160.S40</td>
<td>Design the AY-101 Mixing and Retrieval System and Obtain CD-3</td>
<td>1.01.04.01.01.06</td>
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<tr>
<td>160.S50</td>
<td>Construct the AY-101 Mixing and Retrieval System</td>
<td>1.01.04.01.01.06</td>
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<tr>
<td>160.S52</td>
<td>Procure Equipment for the AY-101 Mixing and Retrieval System</td>
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<td>160.S60</td>
<td>Startup and Test the AY-101 Mixing and Retrieval System</td>
<td>1.01.04.01.01.06</td>
</tr>
<tr>
<td>160.S64</td>
<td>Mix AY-101/C-104 Feed to Suspend Solids</td>
<td>1.01.04.01.01.10</td>
</tr>
<tr>
<td>160.S70</td>
<td>Provide Approval to Deliver AY-101/C-104 Feed from AY-101</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.S72</td>
<td>Mix AY-101 Feed to Suspend Solids</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.S76</td>
<td>Provide AY-101/C-104 MT of Suspended Solids and Official Composition from AY-101 to DOE-ORP</td>
<td>1.01.04.01.01.10</td>
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<td>160.S80</td>
<td>Perform Contractor Standard Startup Review for AY-101</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.S83</td>
<td>Perform Management Self-Assessment for the AY-101 Mixing and Retrieval System</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.S90</td>
<td>Provide CD-4 Approval for AY-101</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.U10</td>
<td>Perform and Document AW-103 Sample Analyses and Rheology Testing</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.U25</td>
<td>Prepare Process Control Plan for AW-103</td>
<td>1.01.04.01.01.10</td>
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<td>160.U29</td>
<td>Transfer a portion (35%) AW-103 to AY-102</td>
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<td>160.U40</td>
<td>Design the AW-103 Mixing and Retrieval System and Obtain CD-3</td>
<td>1.01.04.01.01.06</td>
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<td>160.U50</td>
<td>Construct the AW-103 Mixing and Retrieval System</td>
<td>1.01.04.01.01.06</td>
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<tr>
<td>160.U52</td>
<td>Procure Equipment for the AW-103 Mixing and Retrieval System</td>
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<td>160.U60</td>
<td>Startup and Test the AW-103 Mixing and Retrieval System</td>
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<td>160.U64</td>
<td>Mix AW-103 Waste to Suspend Solids prior to AY-102 Transfer</td>
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<td>160.U72</td>
<td>Transfer a portion (25%) AW-103 to AW-104</td>
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<td>160.U76</td>
<td>Provide AW-103 MT of Suspended Solids and Official Composition from AW-103 to DOE-ORP</td>
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<td>160.U80</td>
<td>Perform Contractor Standard Startup Review for AW-103</td>
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<td>160.U83</td>
<td>Perform Management Self-Assessment for the AW-103 Mixing and Retrieval System</td>
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<td>160.U85</td>
<td>Mix AW-103 Waste by Incrementally Lowering Mixer Pump to Suspend</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<th>BNFL Inc. Phase 1 Privatization activities identified at WBS Level 3 (1.01.06).</th>
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<th>WBS Level 6</th>
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<td>Solid prior to AW-104 Transfer</td>
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<tr>
<td>160.U90 Provide CD-4 Approval for AW-103</td>
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<td>160.W10 Perform and Document AW-104 Sample Analyses and Rheology Testing</td>
<td>1.01.04.01.01.02</td>
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<tr>
<td>160.W20 Blend AW-104(HLW)/AW-103 Feed in AW-104</td>
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<tr>
<td>160.W64 Mix AW-104 (HLW) Feed to Suspend Solids</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>160.W70 Provide Approval to Deliver AW-104(HLW)/AW-103 Feed from AW-104</td>
<td>1.01.06</td>
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<tr>
<td>160.W76 Provide AW-104(HLW)/AW-103 MT of Suspended Solids and Official Composition from AW-104 to DOE-ORP</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>210.P60 Startup and Test Cross Site Slurry Transfer System</td>
<td>1.01.04.01.01.10</td>
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<tr>
<td>210.Y50 Complete Cross Site Slurry Transfer Line</td>
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<tr>
<td>250.100 Project Management for W-314</td>
<td>1.01.03.01.01.10</td>
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<td>250.4E5 Prepare the AW Tank Farm for Construction Activities</td>
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<td>250.D15 Design the 244-S DCRT Compliance Upgrades and Obtain CD-3</td>
<td>1.01.03.01.01.10</td>
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<tr>
<td>250.D45 Construct the 244-S DCRT Compliance Upgrades</td>
<td>1.01.03.01.01.10</td>
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<tr>
<td>250.D75 Startup and Test the 244-S DCRT Compliance Upgrades</td>
<td>1.01.03.01.01.10</td>
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<tr>
<td>250.D95 Perform Management Self Assessment for 244-S DCRT Compliance Upgrades</td>
<td>1.01.03.01.01.10</td>
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<tr>
<td>250.D97 Perform Contractor Readiness Assessment for 244-S DCRT Compliance Upgrades</td>
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<td>250.E05 Design the W-314 Phase 1 Waste Transfer System (WTS) Upgrades and Obtain CD-3</td>
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<td>250.E35 Startup and Test the W-314 Master Pump Shutdown System (MPS) Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>250.E50 Construct the W-314 Phase 1 Waste Transfer System (WTS) Upgrades</td>
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<td>250.E60 Perform Management Self Assessment for W-314 MPS Upgrades</td>
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<tr>
<td>250.E80 Perform Contractor Readiness Assessment for W-314 Master Pump Shutdown System</td>
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<td>250.N15 Design the W-314 Phase 2 AN Farm Upgrades and Obtain CD-3</td>
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<td>250.N25 Startup and Test the W-314 Phase 1 AN Farm (AN-101 &amp; AN-104) Upgrades</td>
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<td>250.N45 Construct the W-314 Phase 2 AN Farm Upgrades</td>
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<td>250.N55 Construct the W-314 Phase 1 AN Farm Upgrades for AN-101 and AN-104</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>Level 1 Logic TBR Number</th>
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<th>WBS Level 6</th>
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<td>250.N60</td>
<td>Perform Management Self-Assessment for the W-314 Phase 1 AN Farm Upgrades</td>
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<td>250.N75</td>
<td>Startup and Test the W-314 Phase 2 AN Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>250.N95</td>
<td>Perform Management Self-Assessment for W-314 Phase 2 AN Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<tr>
<td>250.N97</td>
<td>Perform Contractor Readiness Assessment for W-314 Phase 2 AN Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>Design the W-314 Phase 2 AP Tank Farm Upgrades and Obtain CD-3</td>
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<td>Construct the W-314 Phase 2 AP Tank Farm Upgrades</td>
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<td>250.P75</td>
<td>Startup and Test the W-314 Phase 2 AP Tank Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>250.P95</td>
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<td>1.01.03.01.01.10</td>
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<td>250.P97</td>
<td>Perform Contractor Readiness Assessment for W-314 Phase 2 AP Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>Design the W-314 Phase 2 SY Farm Upgrades and Obtain CD-3</td>
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<td>250.S45</td>
<td>Construct the W-314 Phase 2 SY Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>Startup and Test the W-314 Phase 2 SY Farm Upgrades</td>
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<td>Design the W-314 Phase 2 AW Farm Upgrades and Obtain CD-3</td>
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<td>Startup and Test the W-314 Phase 1 AW Farm (AW-A &amp; AW-B Pit) Upgrades</td>
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<tr>
<td>250.W45</td>
<td>Construct the W-314 Phase 2 AW Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
</tr>
<tr>
<td>250.W50</td>
<td>Construct the W-314 Phase 1 AW Farm (AW-A &amp; AW-B Pit) Upgrades</td>
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<td>250.W75</td>
<td>Startup and Test the W-314 Phase 2 AW Farm Upgrades</td>
<td>1.01.03.01.01.10</td>
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<td>Design the W-314 Phase 2 AY Farm Upgrades and Obtain CD-3</td>
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<td>250.Z15</td>
<td>Design the W-314 Phase 2 AZ Tank Farm Upgrades and Obtain CD-3</td>
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<td>Startup and Test the W-314 Phase 1 AZ Tank Farm Upgrades</td>
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<td>Construct the W-314 Phase 2 AZ Farm Upgrades</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<tr>
<th>BNFL Inc. Phase 1 Privatization activities identified at WBS Level 3 (1.01.06).</th>
<th>TBR Title</th>
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<td>250.Z50</td>
<td>Construct the W-314 Phase 1 AZ Farm Upgrades</td>
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<td>Startup and Test the W-314 Phase 2 AZ Farm Upgrades</td>
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<td>270.105</td>
<td>Prepare SST Retrieval Licensing Strategy</td>
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<td>270.110</td>
<td>Perform SST Retrieval USQ Process</td>
<td>1.01.04.01.02.12</td>
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<td>270.210</td>
<td>Prepare Initial SST Program Plan</td>
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<tr>
<td>270.310</td>
<td>Prepare SST Retrieval Program Test &amp; Evaluation Plan</td>
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<td>270.610</td>
<td>Evaluate Retrieval Technology Solutions</td>
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<td>270.611</td>
<td>C-106 Residual Assessments</td>
<td>1.01.04.01.02.06</td>
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<td>270.615</td>
<td>Assess SST Tank Farm Infrastructure System Needs</td>
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<td>270.620</td>
<td>Evaluate Leak Detection Solutions</td>
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<td>270.630</td>
<td>Assess Tank Conditions</td>
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<td>Define SST Retrieval Sequences</td>
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<td>Determine Retrieval Risks</td>
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<td>270.660</td>
<td>Determine Process Improvement Breakthroughs</td>
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<td>Issue Criticality Safety Evaluation Report for SST Retrieval</td>
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<td>270.C16</td>
<td>Update or Amend Authorization Basis for SST Retrieval</td>
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<td>Perform Limits of Technology Demonstration</td>
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<td>280.205</td>
<td>SST Test &amp; Demonstration Specification</td>
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<td>Acquire Cold Test Capability</td>
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<td>Saltcake Dissolution Cold Tests</td>
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<td>Retrieval System Selection AGA</td>
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<td>290.007</td>
<td>Update SST Level 1 Specification</td>
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<td>Retrieval Integrated Risk Studies</td>
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<td>290.015</td>
<td>Update Program Plan, Deployment Plan, &amp; Risk Analysis</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>Level 1 Logic TBR Number</th>
<th>TBR Title</th>
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<td>290.A27</td>
<td>Verify C Tank Farm Systems and Components Functionality</td>
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<td>290.A28</td>
<td>Perform Acquisition Strategy for C Tank Farm</td>
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<td>290.A29</td>
<td>Perform C Tank Farm Trade Studies</td>
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<td>290.A31</td>
<td>Verify S Tank Farm Systems and Components Functionality</td>
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<td>290.A32</td>
<td>Perform Acquisition Strategy for S Tank Farm</td>
<td>1.01.04.01.02.04</td>
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<tr>
<td>290.A33</td>
<td>Perform S Tank Farm Trade Studies</td>
<td>1.01.04.01.02.02</td>
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<td>Prepare the W-523 Project Technical Baseline Document</td>
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<tr>
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<td>Design the S-105 Retrieval System and Obtain CD-3</td>
<td>1.01.04.01.02.13</td>
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<tr>
<td>290.I52</td>
<td>Procure Equipment for the S-105 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<tr>
<td>290.I55</td>
<td>Construct the S-105 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<td>290.I60</td>
<td>Startup and Test the S-105 Retrieval System</td>
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<td>290.I70</td>
<td>Perform Contractor Standard Startup Review for S-105</td>
<td>1.01.04.01.02.09</td>
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<td>290.I75</td>
<td>Provide CD-4 Approval for S-105</td>
<td>1.01.04.01.02.09</td>
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<td>290.I83</td>
<td>Perform Management Self-Assessment for the S-105 Retrieval System</td>
<td>1.01.04.01.02.09</td>
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<tr>
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<td>Design the C-104 Retrieval System and Obtain CD-3</td>
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<tr>
<td>290.J43</td>
<td>Perform Conceptual Design and Issue the SST O&amp;M Concept for the W-523 Retrieval System</td>
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<tr>
<td>290.J50</td>
<td>Construct the C-104 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<td>290.J52</td>
<td>Procure Equipment for the C-104 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<tr>
<td>290.J54</td>
<td>Repair/Upgrade Existing C Tank Farm Systems</td>
<td>1.01.04.01.02.07</td>
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<td>Startup and Test the C-104 Retrieval System</td>
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<td>290.J61</td>
<td>Prepare Project Definition, Technical Basis, and Project Definition Criteria for Project W-523</td>
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<td>290.J80</td>
<td>Perform Contractor Independent Operational Readiness Review for C-104</td>
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<td>Perform Management Self-Assessment for the C-104 Retrieval System</td>
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<td>290.J90</td>
<td>Perform DOE-ORP Operational Readiness Review and Obtain CD-4 for C-104</td>
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<td>290.J99</td>
<td>Project Management for W-523</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<thead>
<tr>
<th>Level 1 Logic / TBR Number</th>
<th>TBR Title</th>
<th>WBS Level 6</th>
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<tr>
<td>290.Q40</td>
<td>Design the C-107 Retrieval System and Obtain CD-3</td>
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<td>Construct the C-107 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<td>Procure Equipment for the C-107 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<td>Startup and Test the C-107 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<tr>
<td>290.Q80</td>
<td>Perform Contractor Standard Startup Review for C-107</td>
<td>1.01.04.01.02.09</td>
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<td>Perform Management Self-Assessment for the C-107 Retrieval System</td>
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<td>290.Q90</td>
<td>Provide CD-4 Approval for C-107</td>
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<td>Design the S-102 Retrieval System and Obtain CD-3</td>
<td>1.01.04.01.02.13</td>
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<td>290.Z52</td>
<td>Procure Equipment for S-102 Retrieval System</td>
<td>1.01.04.01.02.13</td>
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<td>290.Z54</td>
<td>Repair/Upgrade Existing S Tank Farm Systems</td>
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<td>290.Z55</td>
<td>Construct the S-102 Retrieval System</td>
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<td>Startup and Test the S-102 Retrieval System</td>
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<td>Perform Contractor Standard Startup Review for S-102</td>
<td>1.01.04.01.02.09</td>
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<td>290.Z75</td>
<td>Provide CD-4 Approval for S-102</td>
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<td>Perform Management Self-Assessment for the S-102 Retrieval System</td>
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<td>Prepare Process Control Plan for S-105</td>
<td>1.01.04.01.02.09</td>
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<td>300.I29</td>
<td>Retrieve S-105 into SY-103</td>
<td>1.01.04.01.02.09</td>
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<tr>
<td>300.I34</td>
<td>Perform S-105 Intrusion Prevention</td>
<td>1.01.04.01.02.09</td>
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<td>Prepare Process Control Plan for C-104</td>
<td>1.01.04.01.02.09</td>
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<td>300.J29</td>
<td>Retrieve C-104 into AY-101</td>
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<td>Perform C-104 Intrusion Prevention</td>
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<td>Prepare Process Control Plan for C-107</td>
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<td>Retrieve C-107 into AY-102</td>
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<td>Prepare Process Control Plan for S-102</td>
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<td>300.Z29</td>
<td>Retrieve S-102 into SY-103</td>
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<th>Level 1 Logic TBR Number</th>
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<td>300.Z34</td>
<td>Perform S-102 Intrusion Prevention</td>
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<td>Infrastructure Systems Definition</td>
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<td>Design/Construction/Startup Infrastructure Electrical Systems</td>
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<td>Design/Construction/Startup Infrastructure Utility Systems</td>
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<td>Provide Utilities for Construction</td>
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<td>Provide Utilities During Startup</td>
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<td>Provide Utilities During Production</td>
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<td>330.105</td>
<td>Provide Solid Waste Disposal During Production</td>
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<td>Provide Utilities During Deactivation</td>
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<td>Provide Vendor Training</td>
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<td>Liquid Effluent Infrastructure Support</td>
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<td>Replace 242-A Evaporator Condenser (EC-1)</td>
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<td>Design 242-A Evaporator Life-Extension Upgrades</td>
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<td>Construct 242-A Evaporator Life-Extension Upgrades</td>
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<td>Startup and Test 242-A Evaporator Life-Extension Upgrades</td>
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<tr>
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<td>1.01.08.01.01.01</td>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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<th>WBS Level 6</th>
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<tr>
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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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Table B-1. Crosswalk from the Level 1 Logic to the Work Breakdown Structure.

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Programmatic Baseline Summary for Phase 1 Privatization for the Tank Farm Contractor

Appendix C. Integrated Resource Loaded Schedule

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

CH2M HILL
Hanford Group, Inc.

Richland, Washington

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

Approved for Public Release; Further Dissemination Unlimited
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**RTP April 2000, Tank Farm Contractor, Overall Critical Path**

© Primavera Systems, Inc.
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**Provide Approval to Xth AP-108 Feed**

- Str Wst: AP-105 Feed from AP-105 to BNFL
- Str Wst: 22nd LAW Feed Batch (AP-105 1st)
- Str Wst: 23rd LAW Feed Batch (AP-105 2nd)
- Str Wst: 24th LAW Feed Batch (AP-105 2nd)

**Provide Approval to Xth AP-108 Feed**

- Str Wst: AP-108 Feed from AP-108 to BNFL
- Str Wst: 24th LAW Feed Batch (AP-108 1st)
- Str Wst: 25th LAW Feed Batch (AP-108 2nd)

**Provide Approval to Xth AP-102 Feed**

- Str Wst: 1st Batch - AZ-102 to BNFL
- Str Wst: 2nd Batch - AZ-102 to BNFL
- Str Wst: 3rd Batch - AZ-102 to BNFL

**Provide Approval to Xth HLW Feed from AZ-101**

- Start AZ-101
- Str Wst: 1st Batch - AZ-101 to BNFL
- Start AZ-101 Pretreat
- Str Wst: 1st Batch - HLW Feed from AZ-101 Pretreat
- Str Wst: 2nd Batch - AZ-101 to BNFL
- Str Wst: 2nd Batch - HLW Feed from AZ-101 Pretreat
- Str Wst: 3rd Batch - AZ-101 to BNFL
- Str Wst: 3rd Batch - HLW Feed from AZ-101 Pretreat
- Str Wst: 4th Batch - AZ-101 to BNFL
- Str Wst: 4th Batch - HLW Feed from AZ-101 Pretreat
- Str Wst: 5th Batch - AZ-101 to BNFL
- Str Wst: 5th Batch - HLW Feed from AZ-101 Pretreat
- Str Wst: 6th Batch - AZ-101 to BNFL
- Str Wst: 6th Batch - HLW Feed from AZ-101 Pretreat
- Complete AZ-101
- Start AZ-101 Vitrification
- Vitrify HLW Feed from AZ-101
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- Visit: 4th Batch SY-102 from AZ-101 to BNFL
- Visit: 5th Batch SY-102 from AZ-101 to BNFL
- Visit: 6th Batch SY-102 from AZ-101 to BNFL
- Visit: 7th Batch C-107/AW-103 to BNFL
- Visit: 8th Batch C-107/AW-103 to BNFL
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Provide Approval to Xfr: C-107/AW-103 Feed

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Provide Approval to Xr AW-104/AW-103 Feed

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dtr Wet: 2nd Btch AW3/AW4 from AW-104 to BNFL
Dtrvft 1st Btch (AW-104/AW-103) HLW frm AW-104
Dtrw at 2nd Btch (AW-104/AW-103) HLW frm AW-104
Dtr Wet: 3rd Btch AW3/AW4 from AW-104 to BNFL
Dtrw ft 2nd Btch (AW-104/AW-103) HLW frm AW-104
Dtrw ft 3rd Btch (AW-104/AW-103) HLW frm AW-104
Dtr Wet: 4th Btch AW3/AW4 from AW-104 to BNFL
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Dtr Wet: 4th Btch AW3/AW4 from AW-104 to BNFL
Dtrvft 4th Btch (AW-104/AW-103) HLW frm AW-104
Dtrw at 5th Btch (AW-104/AW-103) HLW frm AW-104
Dtr Wet: 5th Btch AW3/AW4 from AW-104 to BNFL
Dtrw ft 5th Btch (AW-104/AW-103) HLW frm AW-104
Dtrw ft 6th Btch (AW-104/AW-103) HLW frm AW-104
Dtr Wet: 6th Btch AW3/AW4 from AW-104 to BNFL
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**Critical Activities**
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**Near-Critical Activities**
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RTP April 2000,
Tank Farm Contractor,
Critical Path to Transfer of AZ-101
(Summary Representation)
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**HLW Ph 1 Tank 1 - AZ-101 Shlt 2**

- **Comp AZ-101 Xfr Sys Prep and Integrated Testing**
- **Comp AZ-101 Xfr Sys Prep and Integrated Testing**
- **Perf Mgmt Self-Asmt of AZ-101 Mixing/Retr Sys**
- **Perf Contractor Independent ODR for AZ-101**
- **Doe-ORP ODR/ODM CD-4 AZ-101**
- **RPP Mgmt Asmt Overall Ready Supply HLW Fld - BNFL**

**HLW Ph 1 Tank 1 - AZ-102 Shlt 1**

- **HLW Ph 1 Ext Other Tk 2 - AW-103 Shlt 1**

**Management Activities**

- **Comp RAM/O&M Cncept w/ Op Test Prot Results (HLW)**

**WSD Program Activities**

- **Project Mgmt for W-314**

**FY00** | **FY01** | **FY02** | **FY03** | **FY04** | **FY05** | **FY06** | **FY07**

- **Mix AZ-101 Feed to Suspend Solids**
- **Sample/Anlyz AZ-101 8mp per HLW Feed Cart DQO**
- **Provide Separate AZ-101 Samples to BNFL**
- **Assmt MT Susp Solids/Ofct Comp 1AZ to DOE-ORP**
- **Provide Approval to Deliver AZ-101 Feed**
- **Dte 1st Bich HLW Feed From AZ-101 to BNFL Fct**

- **Construct AZ-102 Mixing and Retrieval System**
- **Perf and Doc AZ-103 Smp Anlyz Rheology Testing**
- **Dte AZ-103 Mixing/Retr Sys and Obtain CD-3**
- **Procure Est for AZ-103 Mixing/Retr System**
- **Start-Up/Teas W-314 Pnt1 AW (AW-A/AW-B Plt) Uprgr**
- **Construct W-314 Ph 1 AW Fmn (AW-A/AW-B Plt) Uprgr**

**FY00**

- **04SEP01**
- **28MAY03**

**FY01**

- **04APR02**
- **15JAN03**

**FY02**

- **02OCT02**
- **12APR03**

**FY03**

- **02SEP04**
- **23DEC02**

**FY04**

- **06MAR05**
- **29MAR03**

**FY05**

- **01NOV05**
- **08SEP02**

**FY06**

- **13FEB04**

**FY07**

- **08SEP04**

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FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY06 FY07

- Issue Criticality Study Eval Report for DST Retr.
- Perform Conceptual Design for W-525 Retr Systems
- Perform and Doc AW-103 Sample Analysis Rheology Testing
- Design AW-103 Mixing/Retr Sys and Obtain CDI
- Construct AW-103 Mixing and Retrieval System
- Procure Egg for AW-103 Mixing/Retr System
- Startup/Testing W-314 Ph 1 AW (AW-A/PA-W-B Plt) Upper
- Construct W-314 Ph 1 AW Farm (AW-A/PA-W-B Plt) Upper
- Project Mgmt for W-314
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**125 V90** Design AP Farm Waste Delivery Xfer System

**T412V9001** Construct AP Farm Waste Feed Delivery Xfer System

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250.050 Construct W-314 Ph 1 Waste Xfr Sys (WTS) Upgrade

AP MPS ELECTRICAL INSTRUMENTATION
AP MPS TO AW MPS
AP MPS ELECTRICAL/INSTRUMENTATION TESTING
PUNCHLIST / WORK OFF ITEMS
DEMO
RECORDS TURNOVER
INSTALL PLC'S/SHM'S & IO's

250.060 Perform MSA for W-314 MPS Upgrade

Day Startup Notification Rpt W-314 MPS/WTS Upg
Develop POA W-314 MPS/WTS Upg
Develop Facility PRP W-314 MPS/WTS Upg
Conduct MSA & Prep for SSR W-314 MPS/WTS Upg

250.080 Perform RA for W-314 MPS Upgrade

250.P15 Den W-314 Ph 2 AP TF Upgr and Obtain CD-3

AP - Definitive Design - Phase 2
Start AP Definitive Design
Drawings
Construction Specifications
Calculation
Checking/In-Process Reviews
Interdiscipline Reviews
Client Reviews
Support Activities for Engineering

% Design Review
Drawings
Construction Specifications
Procurement Specifications
Calculations
Checking/In-Process Reviews

Sheet 6 of 14
### Activity Log

#### 250.P75 Startup and Test: W-314 Phase 2 AP TP Uppers

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**Description:**
- T415C01A: Issue Criticality Study Eval Report for DST Rate
- T415C01B: Conduct 30% Design Reviews
- T415C01C: Conduct 90% Design Reviews
- T415C01D: Project Integration

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### Diagram Description

- **W-521 CDR - Site Selection Report:**
  - Conduct 30% Design Reviews
- **W-521 CDR - Site Condition Survey:**
  - Conduct 90% Design Reviews

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### Notes

- **W-521 CDR - Conduct 90% Design Reviews:**
  - Conduct 30% Design Reviews
- **W-521 CDR - Project Integration:**
  - Conduct 30% Design Reviews
- **W-521 CDR - Project Execution Plan:**
  - Conduct 30% Design Reviews
- **W-521 CDR - Systems Engineering:**
  - Conduct 30% Design Reviews
- **W-521 CDR - Site Selection Report:**
  - Conduct 30% Design Reviews
- **W-521 CDR - Site Condition Survey:**
  - Conduct 30% Design Reviews

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**PI WFD Program Activities**

**250.100 Project Mgmt for WJ4**

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### A3A: LAW Ph 1 Tank 3 - AN-104 Sht 1

#### 120.E31 Procure Equipment for AN-101 Mixing/Rein System

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- Mixer Pump (1 ea)
- LCE Barre/Containers (3)
- LCE Removal Equip/Steel Frames (2)
- Tank Test Mod/Parts/Baggs (1)
- Start Procurement

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**Finish Date:** 23OCT99  
**Data Date:** 01OCT99  
**Run Date:** 17APR00 14:43

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**Conduct Mgmt Self-Assess Waste Transfer Sys Upg**

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120.679 Startup and Test AN-101 Mixing/Ret System
- Construction Turnover to Operations
- Prepare New Operating Procedure AN-101
- Prepare New Maintenance Procedure AN-101
- Prep Proc Chg Auth (PCA) Proces for Op AN-101
- Prep Proc Chg Auth (PCA) Proces - Maint AN-101
- Prep Startup Operational Training Mater AN-101
- Prep Startup Operational Training AN-101
- Perform Req'd Operational Tests for AN-101
- Prepare Operational Test Report for AN-101
- Perform PM Routines AN-101
- Complete ABU Checklist

120.680 Perf Cntr Indepnd ORR Wet Feed Divy X-f SYS
- Perform Independ Contr ORR for Waste Trans Sys
- Provide Tech/Admn ORR Suppl Waste Trans Syst
- Closeout ORR Comments Waste Trans Sys

120.685 Perf DOE ORR/Div CD-4 Wet Feed Divy X-f SYS
- Perform DOE ORR for Waste Transfer Sys
- Provide Tech/Admn DOE ORR Suppl Waste Transfer Sys
- Closeout DOE ORR Comments Waste Transfer Sys
- Obtain DOE CD-4 Approval for Waste Transfer Sys

120.690 Transfer AN-101 to AN-106
- Transfer Waste from AN-101 to AN-106
- Prepare Draft PCP AN-104
- Review/Comment/Scop Comments/Issus PCP AN-104

250.645 Construct W-314 Phase 2 AN Farm Upgrades
- HVAC Procurement
- Ventilation Exhaust Duct Installation
- ATP for AN Farm H&C Upgrades
- PLC Equipment
- Transmissions
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1. **Grab Sample Analysis-AN-104**
   - Acquire 1 Ltr Grab Sample-AN-104
   - Grab Sample Analysis-AN-104

2. **180% W2 Smp 4AM Feed in AN-101**
   - Acquire 1 Ltr Grab Sample-AN-101 (AN-154)
   - Grab Sample Analysis-AN-101 (AN-154)

3. **Install AN-104 Mixer Pump & Related Systems**
   - Mobilize for Mixer Pump Install AN-104
   - Stage Equipment at Cold Test Facility
   - Perform PM for LLCE Eqmt
   - Training at CTF
   - Modify CTF for Training
   - Prep WP, Review and Op's Release Package to Field
   - Install Remove Equipment - 8" Flex Rec
   - Remove Thermocouple Tree with FR
   - Remove Remove Equipment
   - Install Shield Plug
   - Transport TIC to Disposal
   - Weld End Cap
   - Grout Container
   - Op's Review and Release Package to Field
   - Install Remove Equipment - 8" Flex Rec
   - Remove MIT with FR
   - Remove Remove Equipment
   - Install Flange Cover
   - Transport MIT to Disposal
   - Weld End Cap
   - Grout Container
   - Tank Equipment Install Training at CTF
   - Prep WP, UUS Equip Install Work Pigs
   - Op's Review and Release Pig to Field
   - Test Mixer Pump-1 at MASP
   - Install Shield Ring & Temp Hose
   - Stage Two Cranes
   - Install Mixer Pump-1 - Start (XXX)

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### 120K80 Startup and Test AN-107 Mixing/Rec System

- **Construction Complete**
- **Perf Startup Operational Training AN-107**
- **Perform Drills AN-107**
- **Perform Req'd Operational Tests for AN-107**
- **Prepare Operational Test Report for AN-107**
- **Perform PM Routines AN-107**
- **Complete ABU Checklist AN-107**

### 120K70 Perf Contractor Std Startup Review for AN-107

- **Perform Contr BSR for Tank AN-107**
- **Provide Tech/Admin BSR Suppt Tank AN-107**

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- **T412D644A4**
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- **T412D644B1**
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- **T412D644G**
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**120 DB3 Xf SAN Ed b/tw 2AN/SAN 15 Buffaloe Area:**

- **T413B23B**
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- **T413B23C**
  - 4: 23AUG10 | 26AUG10 | 60 ASB

- **T413B23D**
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- **T413B23E**
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- **T413B23F**
  - 4: 03SEP10 | 09SEP10 | 60 ASB

**Notes:**

- Construction Turnover to Operations
- Prepare New Maintenance Procedure AN-105 Mix
- Prep Proc Chg Auth (PCA) Process Op AN-105 Mix
- Prep Proc Chg Auth (PCA) Process - Maint AN-105 Mix
- Prep Startup Op Training Matls AN-105 Mix
- Start Startup Operational Training AN-105 Mixer
- Perform Rdg Op Tests for AN-105 Mix
- Prepare Op Test Report for AN-105 Mixer
- Prep Form PM Routines AN-105 Mix
- Complete ABU Checklist
- Water Waste in AN-105 and Silted Solids
- Prep LLW Transfer Procedure for AN-105 to AN-102
- Transfer 300k Gallons Feed from AN-105 to AN-102
- Mix Waste in AN-102
- Prep LLW Transfer Procedure for AN-102 to AN-105
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- **T413B23G**: Degas 5AN by Decant 1st Batch 5AN to AN-102
- **T413B25A**: PCA: AN-105 to AN-102
- **T413B25B**: 300k Gallons Feed from AN-105 to AN-102
- **T413B25C**: Backfill AN-105 with 150k Gals of Dilution Water
- **T413B33A**: Provide Approval to Deliver LAW Feed Batch #9
- **T413B40A**: Provide Approval to Xyr AN-105 Feed
- **T413B40B**: Draft Transmitt Letter to DOE-ORP for AN-105
- **T413B48A**: Obtain CHG Appr for Transmitt Letters AN-105
- **T413B56A**: Part Mixing Operation Remaining Feed AN-105
- **T413B58B**: Draft Transmitt Letter to DOE-ORP for AN-105
- **T413B58B**: Obtain CHG Appr for Transmitt Letters AN-105
- **T413B58A**: Provide Approval to Deliver LAW Feed Batch #9

Provide Approval to Deliver AN-105 Feed Batch 2
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RTP April 2000,
Tank Farm Contractor,
Critical Path to SY-101 Batch 1
(T415R30A)
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**200.P45 Construct W314 Ph 2 AP Tank P/mm Upgrades**

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**ATP for AP-01A CPP**

- Demobilization
- Central Pump Pit Weather Delays
- Contingency-CPP AP-01A
- Mobilization & Setup
- Spray Fusible
- Remove Cover Block
- Demo Existing Instruments in Pits
- Clean Debris/Wash Down Pit
- CCP Coatings-Pit
- Core Drill Cover Block (1 Hole)
- Coatings for Cover Blocks
- Install LDE Sleeve
- Install Drain Plug
- Replace Cover Block
- Install LDE Probe Assembly
- ATP
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Pump Pit Weather Delays
- Inspection & Closeout
- Contingency-Pump Pit Mods AP-02D
- Mobilization & Setup
- Spray Fusible
- Remove Cover Block
- Demo Existing Instruments in Pits
- Clean Debris/Wash Down Pit
- CCP Coatings-Pit
- Core Drill Cover Block (1 Hole)
- Coatings for Cover Blocks

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Provide CD-4 Approval for AP-102/104

Cond Pit Readiness Mgmt Self Asmt AP-102/104

Write Grant TSAP AP-104 (SY-101)

Plan/Schedule/Maint for Grab AP-104 (SY-101)

Initiate 5 L (1.5 gallon) Grab Sample AP-104 (SY-101)

Grab Sample Analysis AP-104 (SY-101)

Issue Grab Data Report AP-104 (SY-101)

Start Mixing 1st Batch of SY-101 Feed in AP-104

Draft Transmittal Letter to DOE-ORR for SY-101

Obtain CHQ Approv for Transit Ltr SY-101

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Provide Approval to Deliver SY-01 Feed Batch 3

Provide Approval to Deliver SY-01 Feed Batch 2

Transmit LOI to DOE-CER for SY-01

Dish CGC App for Transmission Line SY-01

medication

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**RTP April 2000, Tank Farm Contractor, Critical Path to AN-103 Batch 2 (T415J05A)**
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Construction Turnover to Operations

- Prepare New Maintenance Procedures AN-105 Mix
- Prep Proc Chg Auth (PCA) Process Op AN-105 Mix
- Prep Proc Chg Auth (PCA) Process - Maint AN-105 Mix
- Prep Startup Op Training Mills AN-105 Mixer
- Test Startup Operational Training AN-105 Mixer
- Perform Req'd Op Tests for AN-105 Mixer
- Prepare Op Test Report for AN-105 Mixer
- Perform PM Routines AN-105 Mixer
- Complete ABU Checklist

- Waste in AN-105 and Settle Solids
  - Prep LLW Transfer Procedure for AN-105 to AN-102
  - Transfer 300k Gallons Feed from AN-105 to AN-102
  - Waste in AN-103
- Prep LLW Transfer Procedure for AN-102 to AN-105
- Transfer 300k Gallons Feed from AN-102 to AN-105
- Backfill AN-105 with 150L of Dilution Water
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### 198.MA5 Div 1st Batch AN-105 Feed AN-102 to BNFL Facility

- Draft Transm Ltr Data to DOE-GRP for AN-105
- Obtain CHG Appr for Transm Ltr AN-105
- PCA LAW Transf Procedure AN-102 to BNFL
- For Wat: AN105 Feed from AN102 to BNFL

### 198.MB5 Sample Analysis 3AN: Samples for LAW Fin Cart DOO 3AN

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### 198.MC5 Install AN-103 Mixer Pump & Related Systems

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### Notes
- Write Grab TEAP-AN-103
- Install/Equip/Maint for Grab-AN-103
- Acquire 5 Litre Grab Sample AN-103
- Grab Sample Analysis AN-103
- Issue Grab Data Report AN-103
- Stage Equipment at Cold Test Facility
- Perform Equipment Preventive Maint
- Training at CTF
- Modify CTF for Training
- Ops Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove Thermocouple Tree with FIR
- Remove Removal Equipment
- Install Shield Plug
- Transport T/C to Disposal
- Weld End Cap
- Group Container
- OPS Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove Mit with FIR
- Remove Removal Equipment
- Install Flange Cover
- Transport Mit to Disposal
- Weld End Cap
- Group Container
- Install Tank Equipment Install Training at CTF
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### 130J10 Degas AN-103 by Decent 1st Bitch AN-103 to AN-102
- **500 Gallons Feed from AN-103 to AN-102**
- **Backfill AN-103 with 1500 Gallon of Dilution Water**

### Summary of Activities:
- Prep CWPUJC Equip Install Work Pkgs
- Test Mixer Pump-1 at MASF
- Install Shield Ring & Temp. Hose
- Stage Two Cranes
- Install Mixer Pump-1 - Riser (XXI)
- Make Elec Connections - Mixer Pump-1
- Run 1/2" SW line/Connect to MP-1
- Install MP-1 Heat Tracing
- Review and Release Pig to Field
- Test Mixer Pump-2 at MASF
- Install Shield Ring & Temp. Hose
- Stage Two Cranes
- Install Mixer Pump-2 - Riser (XXI)
- Make Elec Connections - Mixer Pump-2
- Run 1/2" SW line/Connect to MP-2
- Install MP-2 Heat Tracing
- Review and Release Pig to Field
- Remove 12' Shield Plugs - Riser (XXA)
- Install Temperature Probe Assembly
- Run Cables - Temp Probe to TMC Panel
- Terminate Wires and Perform Functional Test
- Punchlist
- Sign-off
- Start Construction (Mixer Pump & Related Sys)
- Construction Complete (Mixer Pump & Related Sys)
- Prep Startup Op Training Made AN-103 Mixer
- Prep Startup Operational Training AN-103 Mixer
- Prepare Test Report for AN-103 Mixer
- Complete ABU Checklist

### Notes:
- PCA: AN-103 to AN-102
- AN-103 to AN-102
- Feed 3000 Gallons Feed from AN-103 to AN-102
- Backfill AN-103 with 1500 Gallon of Dilution Water

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- Draft Transmittal List Date to DOE-ORP for AN-103
- Obtain CHG Appr for Transmittal Lists AN-103
- Provide Approval to Xfer AN-103 Feed Batch 2
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Finish Date: 23OCT19
Data Date: 01OCT99
Run Date: 18APR00 06:07

RTP April 2000.
Tank Farm Contractor,
Critical Path to AW-101 Batch 1
(T415G30A)
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- **150.W45 Sample Analysis: LAW Sample per LAW Feed Card DDO SAN**
  - Write Grab TSAP-AN-105 (AW-101)
  - Plan Schedule Material for Grab-AN-105 (AW-101)
  - Acquire 5Litre Grab Sample-AN-105 (AW-101)
  - Grab Sample Analysis-AN-105 (AW-101)
  - Issue Grab Data Report-AN-105 (AW-101)

- **130.G10 Degas AW-101 by Decant 1st Batch AW-101 to SAN**
  - PCA AW-101 to AN-105
  - Over 300k Gallons Feed from AW-101 to AN-105

- **190.G25 Prep AW-101 Feed Batch Info (AN-105) to DOE-ORP**
  - Draft Transmit Ltr Data to DOE-ORP for AW-101
  - Obtain CHG Appr for Transmit Ltrs AW-101

- **150.G30 Provide Approval to Deliver LAW Feed Batch #14**
  - Provide Approval to Deliver LAW Feed Batch

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Finish Date | 23OCT19 |
Data Date | 01OCT99 |
Run Date | 18APR00 08:09 |

RTP April 2000,
Tank Farm Contractor,
Critical Path to AW-191 Batch 2 (T415G85A)
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Acquire 5 Litre Grab Sample-AW-101

Grab Sample Analysis-AW-101

Issue Grab Data Report-AW-101

**Mobilize**

- Prep CWPUCS Equip. Removal Work Packages
- Stage Equipment at Cold Test Facility
- Perform Equipment Preventive Maint
- Training at CTF
- Modify CTF for Training
- Dry Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove Thermocouple Tree with F/R
- Install Removal Equipment
- Install Shield Plug
- Transport TIC to Disposal
- Weld End Cap
- Grout Container
- Dry Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove MIT with F/R
- Install Flange Cover
- Transport MIT to Disposal
- Weld End Cap
- Grout Container

**In Tank Equipment Install Training at CTF**

- Prep CWPUCS Equip Install Work Pigs
- Dry Review and Release Pig to Field
- Test Mixer Pump-1 at MASF
- Install Shield Ring & Temp. Hose
- Stage Two Cerebras
- Install Mixer Pump-1 - Rear (XXX)
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**150.085 Proc AW-101 Fed Info AW-101 to DOE-ORP**

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**150.085 Provide Approval to Deliver LAW Feed Batch #15**

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- Obtain CHG Appro for Transmittal Data AW-101
- Provide Approval to Xfer AW-101 Feed Batch 2
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**Activity Descriptions:**

- **T41W49G51:** Acquire 5 Ltr Grab Sample AP-104 (AW-104)
- **T41W49G52:** Issue Grab Data Report AP-104 (AW-104)
- **T41W49G53:** Preset LAW Feed Batch (AN-105 2nd)
- **T41W49G54:** Draft Transmis Ltr Data to DOE-ORP for AW-104
- **T41W49G55:** Perform Mixing Operation on AW-104 Feed in AP-104
- **T41W50A:** Draft Transmis Ltr to DOE-ORP for AW-104
- **T41W2SA:** Obtain CH2 Appr for Transmit Ltr AW-104
- **T41W2SB:** Provide Approval to Deliver LAW Feed Batch #18
- **T41W3OA:** Provide Approval to Xhr AW-104 Feed (18th Batch)
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Data Date: 01OCT99
Run Date: 17APR00 14:59

RTP April 2000,
Tank Farm Contractor,
Critical Path to AP-106
(T415C38A/T415C66A)

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120.C70 Part Contractor Std Startup Review for AP-108

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120.C79 Provide CD-4 Approval for AP-108

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120.C83 Part Mgmt Self-Assmt for AP-108 Misting/Recycle

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E3B LAW Ph 1 Ext Order Tk 3 - AP-108 Sh 12

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100.PC3 Sample Analyte AP-108 Sample per LAW DDD AP-108

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130.C30 Mob and Rate AP-108 Wet and Receivc Feed in ZAAN

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150.C25 Mix AP-108 Feed in AN-102

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150.C25 Prov AP-108 Feed Bath Info (AN-102) to DOE-ERP

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Draft Transmitt Ltr Data to DOE-ORP for AP-106
Obtain CWG Appr for Transmitt Ltrs AP-106
Provide Approval to Xhr 2nd AP-106 Feed
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Finish Date: 01OCT99
Data Date: 23OCT99
Run Date: 17APR00 15:25

RTP April 2000,
Tank Farm Contractor,
Critical Path to S-102
(T416Z30A)
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350.998 Pretreat 8th LAW Feed Batch

350.998 Vitally 8th LAW Feed Batch

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T411R76A 5 15NOV12* 21NOV12 37 A6B

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350.100 Pretreat 10th LAW Feed Batch

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E2B LAW Ph 1 Ext Order T4 2 - SY-103 Sh1 2

120.735 Cross-Site Transfer BY-103 Feed to AN-101

T413T35A 8 28NOV12 03DEC12 40 E2B

T413T36B 10 01FEB13 10FEB13 0 E2B

B1A LAW Ph 1 Ext Order T4 - 5 - SY-102 Sh1 1

300.228 Refill/Eng 5-102 Into SY-103

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T43522BAM 0 11FEB13 30 B1A

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T43522BAC 15 22APR13 13MAY13 0 B1A

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T43522BAF 18 26JUN13 18JUL13 0 B1A

T43522BAG 15 18JUL13 08AUG13 0 B1A

T43522BAH 15 08AUG13 29AUG13 0 B1A

T43522BAJ 15 30AUG13 20SEP13 0 B1A

T43522BAK 15 23SEP13 11OCT13 0 B1A

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T410847G54 96 06APR14 07AUG14 0 B4B

T410847G55 28 08AUG14 15SEP14 0 B4B

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- Transfer Waste from AN-104 to AP-101
- Perform Cross-Site Transfer for SY-103 to AN-104
- Part Mixing Operation on S-102 Feed in AP-101
- Draft Transmittal for DOE-ORP for S-102
- Obtain CHG Appr for Transmittal Ltr S-102
- Provide Approval to Xfr S-102 Feed
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130.07 Transfer S-105 Feed from AN-104 to AN-105

130.08 Cross-Site Xfer S-105 Feed from SY-105 to AN-104

150.28 Mix S-105 Feed in AN-105

150.29 Prov S-105 Feed Xfer from AN-105 to DOE-ORP

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**Description:**
- **Activity ID** represents the unique identifier for each activity.
- **Orig Dur** indicates the original duration of the activity.
- **Early Start** and **Early Finish** show the earliest start and finish dates.
- **Total Float** represents the total amount of time an activity can be delayed without affecting the project finish date.
- **Logic Sheet** identifies the logical relationships between activities.

**Legend:**
- **A5B** indicates an activity associated with the 5th LAW Feed Batch (W-522, Design Retrieval System Tank AP-105).
- **A7B** indicates an activity associated with the 7th LAW Feed Batch (W-227, Design Retrieval System Tank AP-105).
- **B1B** indicates an activity associated with the 1st LAW Feed Batch (W-222, Design Retrieval System Tank AP-105).
- **B6A** indicates an activity associated with the last LAW Feed Batch (W-222, Design Retrieval System Tank AP-105).

**Notes:**
- The diagram illustrates the project timeline and dependencies between activities.
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**120.M80 Startup and Test AP-105 Mixing/Retrieval System**

- **Construction Turnover to Operations**
- **Prepare New Operating Procedure AP-105**
- **Prepare New Maintenance Procedure AP-105**
- **Prepare Chg Auth (PCA) Process for Op AP-105**
- **Prepare Chg Auth (PCA) Process - Maintain AP-105**
- **Prepare Operational Training Matrix AP-105**
- **Perform Drills AP-105**
- **Perform R & R Operational Tests for AP-105**
- **Prepare Operational Test Report for AP-105**
- **Perform PM Routine for AP-105**
- **Complete ABU Checklist for AP-105**

**120.M76 Perf Contractor Std Startup Review for AP-105**

- **Perform Contri SSR for Tank AP-105**
- **Provide Tech Admin SSR Suppt Tank AP-105**
- **Closeout SSR Comments Tank AP-105**

**120.M78 Provide CD-4 Approval for AP-105**

- **Provide CD-4 Approval for Tank AP-105**

**120.N82 Perf Mgmt Self-Assmt for AP-105 Mixing/Retrieval System**

- **Conduct Plant Readiness Mgmt Self Assmt AP-105**

**B6B LAC PH 1 Ext Order Tk 5 - AP-105 Shv**

**120.P17 Send/Actvl AP-105 Sample per LAW DOD AP-104**

- **Write Grab TSAP-AP-104 (AP-105)**
- **Plan/Schedule/Matt for Grab-AP-104 (AP-105)**
- **Acquire 5 Litre Grab Sample-AP-104 (AP-105)**

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Q1 WFD Project Definition

180.B15 Pref W-022 NPS Technical Baseline Document

T410B15D | 123 | 01APR11* | 25SEP11 | 8 | Q1

Revis W-022 Proj Tech Baseline Document FY11
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250.820 Startup/Stop W-314 Master Pump Shutdown Upgrade

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250.830 Construct W-314 Ph 1 Waste 2f Sys (WTS) Upgrade

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250.880 Perform MSA for W-314 M5P Upgrades

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**255.E80 Perform RA for W-314 M3P Upgrades**
- Conduct M3A & Prep for SRR W-314 MPS/WTU Upg
- Perform Contractor Standard Rev W-314 MPS/WTU Upg
- Provide TecAdmin SRR Spwt W-314 MPS/WTU Upg
- Closeout SRR Comments W-314 MPS/WTU Upg

**250.P15 Den W-314 Ph 2 AP TF Upgrs and Obtain CD-3**
- Start AP Definitive Design + Drawings
- Construction Specifications + Procurement Specifications + Calculations
- Checking/Internal Reviews + Interdiscipline Reviews + Client Reviews
- Support Activities for Engineering
- 50% Design Review + Drawings
- Construction Specifications + Procurement Specifications + Calculations
- Checking/Internal Reviews + Interdiscipline Reviews + Client Reviews
- Support Activities for Engineering
<p>| Activity ID | Orig Date | Early Start | Early Finish | Total Float | Logic Sheet | FV01 | FV02 | FV03 | FV04 | FV05 | FV06 | FV07 | FV08 | AV21 CDR - Advanced Conceptual Design |
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| T416A43D    | 10        | 17DEC90     | 04JAN91     | 12          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Conduct 50% Design Reviews |
| T416A43E    | 20        | 01FEB90     | 29FEB90     | 35          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Conduct 90% Design Reviews |
| T416A43N    | 252       | 01OCT99     | 28SEP00     | 11          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Project Integration       |
| T416A43P    | 21        | 01MAR00     | 29MAR00     | 35          | C1A         |      |      |      |      |      |      |      | W-221 CDR - LCCA                      |
| T416A43Q    | 41        | 05JAN00     | 02MAR00     | 54          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Security Plan             |
| T416A43R    | 125       | 01OCT99     | 31MAR00     | 33          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Project Execution Plan    |
| T416A43S    | 41        | 05JAN00     | 02MAR00     | 54          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Training Plan             |
| T416A43U    | 65        | 05JAN00     | 02APR00     | 54          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Permitting Plan           |
| T416A43V    | 83        | 05JAN00     | 01MAY00     | 12          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Site Plan                 |
| T416A43W    | 252       | 01OCT99     | 28SEP00     | 11          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Systems Engineering       |
| T416A43X    | 124       | 01NOV00     | 28APR00     | 13          | C1A         |      |      |      |      |      |      |      | W-221 CDR - Site Selection Report     |
| T416A43Z    | 21        | 01OCT99     | 28OCT99     | 13          | C1A         |      |      |      |      |      |      |      | W-221 CDR Site Condition Survey       |
| 180.A45 Comp AZ-101 Xiv Site Prep and Integrated Testing | | | | | | | | | | | | | | | | |
| T418A45A00  | 0         | 15JAN04     | 05JAN04     | 0           | C1A         |      |      |      |      |      |      |      | BU Turnover to Integrated Testing     |
| T418A45A1   | 84        | 15SEP03     | 15JAN04     | 0           | C1A         |      |      |      |      |      |      |      | Prepare New Operating Proc AZ-101 Integ Tst |
| T418A45A2   | 84        | 15SEP03     | 15JAN04     | 0           | C1A         |      |      |      |      |      |      | Prepare New Maintenance Proc AZ-101 Integ Tst |
| T418A45A3   | 84        | 15SEP03     | 15JAN04     | 0           | C1A         |      |      |      |      |      |      | Prep Proc Cfg Auth (PCA) Process for Op AZ-101 |
| T418A45A4   | 84        | 15SEP03     | 15JAN04     | 0           | C1A         |      |      |      |      |      |      | Prep Proc Cfg Auth (PCA) Process - Maint AZ-101 |
| T418A45B1   | 84        | 26SEP03     | 26JAN04     | 51          | C1A         |      |      |      |      |      |      | Prep Startup Op Training Mat AZ-101 Integ Tst |
| T418A45B2   | 62        | 13APR04     | 06JUL04     | 0           | C1A         |      |      |      |      |      |      | Start Startup Op Training AZ-101 Integ Test |
| T418A45C    | 21        | 10JUN04     | 06JUL04     | 0           | C1A         |      |      |      |      |      |      | Perform Drills AZ-101 Integ Test       |
| T418A45D2   | 42        | 12APR04     | 06JUN04     | 0           | C1A         |      |      |      |      |      |      | Perform Req'd Op Tests for AZ-101 Integ Tst |
| T418A45D3   | 21        | 10JUN04     | 06JUL04     | 0           | C1A         |      |      |      |      |      |      | Prepare Op Test Report for AZ-101 Integ Tst |
| T418A45E    | 80        | 18JAN04     | 06APR04     | 0           | C1A         |      |      |      |      |      |      | Perform PM Routines AZ-101 Integ Tst   |
| T418A45F    | 0         | 06JUL04     | 05JUL04     | 0           | C1A         |      |      |      |      |      |      | Complete ABU Checklist AZ-101         |
| 180.A45 Prof Mgmt Self-Assmt of AZ-101 Mgmt/Rel. Sys | | | | | | | | | | | | | | | | |
| T418A45E00  | 125       | 31JAN04     | 06JUL04     | 0           | C1A         |      |      |      |      |      |      | Conduct Plant Readiness Mgmt Self Assmt AZ-101 |
| C18 H2O Ph1 Tank 1 AZ-101 Shl 2 | | | | | | | | | | | | | | | | |
| 100.211 Smp/Anlyz AZ-101 Smp per HLW Feed Cart D20 | | | | | | | | | | | | | | | | |
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| T410Z1C1    | 10        | 23JUL04     | 05AUG04     | 40          | C1B         |      |      |      |      |      |      | Core Profile/TSA/P AZ-101            |
| T410Z1C2    | 30        | 23JUL04*    | 02SEP04     | 20          | C1B         |      |      |      |      |      |      | Plan Schedule material, Core-AZ-101   |
| T410Z1C2B   | 30        | 23JUL04*    | 02SEP04     | 20          | C1B         |      |      |      |      |      |      | Plan Schedule material, Core-AZ-101   |
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| T41SZ1C1C4  | 13 OCT 04  | 0000       | 09 MAY 05| 0000     | 11          | CIB         |      |      |      |      |      |      |      |      |      |
| T41SZ1C1C8  | 13 OCT 04  | 0000       | 09 MAY 05| 0000     | 11          | CIB         |      |      |      |      |      |      |      |      |      |
| T41SZ1C1C5  | 20 MAY 05  | 07 JUN 05  | 11 CIB   |          |             |             |      |      |      |      |      |      |      |      |      |
| T41SZ1C1PL  | 7 OCT 04   | 0000       | 09 MAY 04| 0000     | 0           | CIB         |      |      |      |      |      |      |      |      |      |
| T41SZ1C1D1  | 9 AUG 04   | 0000       | 10 AUG 06| 0000     | 0           | CIB         |      |      |      |      |      |      |      |      |      |
| T41SZ1C1BN  | 9 AUG 04   | 0000       | 10 AUG 06| 0000     | 0           | CIB         |      |      |      |      |      |      |      |      |      |
| T41SZ1A4A   | 28 SEP 04  | 03 OCT 04  | 11 CIB   |          |             |             |      |      |      |      |      |      |      |      |      |
| T41SZ1A70   | 17 JUN 05  | 18 JUL 05  | 17 CIB   |          |             |             |      |      |      |      |      |      |      |      |      |
| T41SZ1A74   | 08 JUN 05  | 08 JUN 06  | 11 CIB   |          |             |             |      |      |      |      |      |      |      |      |      |
| T41SZ1A72   | 10 JUN 05  | 18 JUN 05  | 11 CIB   |          |             |             |      |      |      |      |      |      |      |      |      |
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**180U10 Perf and Doc AW-103 Bump Assy/ Rheology Testing**

- **180U10A 40 04APR01** 30MAY01 18 D2A
- **180U10C 65 31May01** 30AUG01 18 D2A
- **180U10D1 20 31AUG01** 28SEP01 18 D2A
- **180U10D2 40 01OCT01** 27NOV01 18 D2A
- **180U10E 35 28NOV01** 18JAN02 16 D2A
- **180U10F 15 28NOV01** 18DEC01 18 D2A

**180U40 Des AW-103 Mixing/Net Sys and Other CD-3**

- **187U40A 251 18JAN02** 18JAN03 18 D2A
- **187U40B 251 02OCT05** 28SEP01 21 D2A

**180U60 Construct AW-103 Mixing and Retrieval System**

- **181U50T10 10 30OCT02** 12NOV02 43 D2A
- **181U50T11 10 26DEC02** 09JAN03 18 D2A
- **181U50T12 10 10JAN03** 23JAN03 16 D2A
- **181U50T13 10 24JAN03** 08FEB03 18 D2A
- **181U50T14 10 07FEB03** 21FEB03 18 D2A
- **181U50T15 5 24FEB03** 28FEB03 18 D2A

**AW-103 Rheology Test: Prepare Test Plan**

- **AW-103 Rheo-Install Test Equip/Perform Rheo Test**
- **AW-103 Rheology - Perform Wash Tests/Analyze**
- **AW-103 Rheology - Perform Wash Tests/Analyze**
- **AW-103 Rheology Test - Prepare Test Report**
- **AW-103 Rheology Test - Cleanup Hot Cell**

**180U50 Des AW-103 Mixing/Net Sys and Other CD-3**

- **W-521 - Design Retrieval System Tank AW-103**
- **W-521 - Design AW-103 Caustic/Diluent Addition Sys**

**180U60 Construct AW-103 Mixing and Retrieval System**

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- **181U50T15 5 24FEB03** 28FEB03 18 D2A

**Install J-Boxes/Term Boxes in AW-271**

- **Install Eject Equip in AW-271 Annex**
- **Run Conduits - 271 Annex to AW-A-B**
- **Pull Cables & Armored Cable**
- **Terminate Wires**
- **Continuity Testing**
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**F11 Management Assessment**

**180.A17 Comp RAMO&M Concept w/Op Test Proc Results (HLW)**

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**250.100 Project Mgmt for W-314**

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**F11 Management Assessment**

**180.A17 Comp RAMO&M Concept w/Op Test Proc Results (HLW)**

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**250.100 Project Mgmt for W-314**

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- Piping & Test 1/2" SW-(HWW)
- Pour New Pad for Air Control Station
- Rotate Air Control Station 90 Degrees
- Remove Old Air Control Station Pad

Package Prep and Pre-Fabrication

- Fab New 42" Shield Plug - Riser-(XXX)
- Exc to Uncover Top of Riser-(XXX)
- Remove Est & Shield Plug - Riser-(XXX)
- Install Depth Verification Tool - Riser-(XXX)
- Install Spray Wash Riser Ext - Riser-(XXX)
- Form/Rebar Mixer Pump Fndn - Riser-(XXX)
- Pour Mixer Pump Fndn - Riser-(XXX)
- Install MP Mounting Plate - Riser-(XXX)
- Install 42" Depth Vert Shield Plug-(XXX)
- Remove Depth Vert Shield Plug-(XXX)
- Complete Backfill Riser Ext - Riser-(XXX)
- Cure Time & Paint - Riser-(XXX)
- Exc to Uncover Top of Riser-(XXX)
- Remove Est & Shield Plug - Riser-(XXX)
- Install Depth Verification Tool - Riser-(XXX)
- Install Spray Wash Riser Ext - Riser-(XXX)
- Form/Rebar Mixer Pump Fndn - Riser-(XXX)
- Pour Mixer Pump Fndn - Riser-(XXX)
- Install MP Mounting Plate - Riser-(XXX)
- Install 42" Depth Vert Shield Plug-(XXX)
- Remove Depth Vert Shield Plug-(XXX)
- Complete Backfill Up to Fire Feet
- Cure Time & Paint - Riser-(XXX)
- Form/Rebar/Pour Concrete - MP-1 Elec Frame
- Form/Rebar/Pour Concrete - MP-2 Elec Frame
- Mount Elec Cable Support Frame - MP-1
- Mount Elec Cable Support Frame - MP-2
Terminate Wires and Perform Functional Test

Remove Temp Shield Plug

Install CGI/CWP Camera Installation Work Package

One Review & releases Package to Field

Install CCTV Riser ExtShiled Cover - Riser (XXA)

Install Trunion Guld Assy/Support

Install Drain Hotel Assy/Pivot Arm

Install Jumper Assy AZ20A(17)

Install Jumper Assy AZ20A(27)

Install Jumper Assy AZ20A(37)

Install Jumper Assy AZ20A(47)

Install Jumper Assy AZ20A(57)

Install Jumper Assy AZ20A(67)

Install Jumper Assy AZ20A(77)

Install Jumper Assy AZ20A(87)

Install MOV Funnel Assys

Install New Cover Blocks - Pit AZ20A

Paint Cover Block Flow Diagrams

Install MOV Actuator WT-MOV-008 / Term Wires

Install MOV Actuator WT-MOV-009 / Term Wires

Install MOV Actuator WT-MOV-011 / Term Wires

Install MOV Actuator WT-FCY-610 / Term Wires

ATP - AZ-102

Install Removal Equipment - 8" Flex Racc

Remove Thermocouple Tree #2 with F/R

Install Shield Plug

Field End Cap

Grout Container

Remove Removal Equipment

Transport TIC to Disposal

Install Removal Equipment - 8" Flex Racc

Remove Thermocouple Tree #3 with F/R

Install Shield Plug

Field End Cap
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100.F90 Provide CD-4 Approval for AZ-102

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C2B HLW Ph 1 Tank 2 - AZ-102 Set 2

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- **Finish Date:** 23OCT19
- **Data Date:** 01OCT99
- **Run Date:** 17APR00 14:10

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**RTP April 2000, Tank Farm Contractor, Critical Path to AY-102 (T416H70A)**

- Start Construction
- Mobilize
- Prepare CWIRCS Equip. Removal Work Packages
- Stage Equipment at Cold Test Facility
- Perform Equipment Preventive Maint.
- Modify CTF for Training
- Training at CTF
- Receive and Release Package to Field
- Stage Crane OEE Pit
- Prep Cover Blocks for Removal
- Sniff Pit Prior to Cover block Removal
- Remove Cover Blocks Pit
- Remove Jumpers and Prep for Storage
- Install Vapor Seal
- Install Removal Equipment - 24" Flex Rec
- Remove Transfer Pump With P/R
- Remove Removal Equipment
- Install Depth Verification Plug
- Install Container End Cap
- Depth Verification
- Remove Depth Plug & Install Shield Plug
- Install Container
- Install Temporary Cover Blocks
- Transport Pump to Disposal
- Receive and Release Package to Field
- Stage Crane OEE Pit
- Prep Cover Blocks for Removal
- Sniff Pit Prior to Cover Block Removal
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- **T416H50123**: Install Removal Equipment - 8" Pies Rec TC96
- **T416H50124**: Remove Thermocouple Tree with F/R TC96
- **T416H50125**: Install Shield Plug TC96
- **T416H50126**: Weld End Cap TC96
- **T416H50127**: Grout Container TC96
- **T416H50128**: Remove Removal Equipment TC96
- **T416H50130**: Transport TC96 to Disposal TC96
- **T416H50131**: Install Removal Equipment - 8" Pies Rec TC97
- **T416H50132**: Remove Thermocouple Tree with F/R TC97
- **T416H50133**: Install Shield Plug TC97
- **T416H50134**: Weld End Cap TC97
- **T416H50135**: Grout Container TC97
- **T416H50136**: Remove Removal Equipment TC97
- **T416H50138**: Transport TC96 to Disposal TC97
- **T416H50139**: Remove CCTV Camera & Store
- **T416H50140**: Remove Multi-Port Adapter from 42" Riser
- **T416H50141**: Install Temp Shield Plug
- **T416H50218**: Form/Rebar/Pour Concrete - MP-1 Elec Frame
- **T416H50217**: Mount Elec Cable Support Frame - MP-1
- **T416H50218**: Install AY-102-EDS-OP-123 (Mini Power Center)
- **T416H50219**: Install AY-102-EDS-DBX-107 (MP-1 Term Box)
- **T416H50220**: Install AY-102-WST-MT8-101 (MP-1 Switch)
- **T416H50221**: Install AY-102-WST-MT8-103 (MP-1 TrmTab Switch)
- **T416H50222**: Form/Rebar/Pour Concrete - MP-2 Elec Frame
- **T416H50223**: Mount Elec Cable Support Frame - MP-2
- **T416H50224**: Install AY-102-EDS-DBX-108 (MP-2 Term Box)
- **T416H50225**: Install AY-102-WST-MT8-102 (MP-2 Switch)
- **T416H50226**: Install AY-102-WST-MT8-104 (MP-2 TrmTab Switch)
- **T416H50227**: Form/Rebar/Pour Concrete - MP-3 Elec Frame
- **T416H50228**: Mount Elec Cable Support Frame - MP-3
- **T416H50229**: Install AY-102-EDS-DBX-109 (MP-3 Term Box)
- **T416H50230**: Install AY-102-WST-MT8-103 (MP-3 Switch)
- **T416H50231**: Install AY-102-WST-MT8-104 (MP-3 TrmTab Switch)
- **T416H50232**: Form/Rebar/Pour Concrete - MP-4 Elec Frame
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**180.H00 Perf Contractor Std Startup Review for AY-102**

- **T410H00A**
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**180.H01 Perf Ignit Self-Assmt for AY-102**

- **T410H00B**
  - 07DEC05: 29DEC05
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- **T410H00C**
  - 21DEC05: 29DEC05
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**180.H02 Provide CD-4 Approval for AY-102**

- **T410H00D**
  - 20DEC05: 29DEC05
  - 0: C3A

**183.HLW/Exch Tank 3 - AY-102 Exch 2**

- **T410Z00A**
  - 2AY102C-106 Scrap per HLW Feed Card DDO

**186.H04 Mix AY-102C-108 Feed to Suspend Solids**

- **T410H00A**
  - 21JAN06: 25JAN06
  - 0: C3B

**187.H07 Prov Approval to Div AY-102C-106 Feed - AY-102**

- **T410H00A**
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**189.J06 2AY102C MT Xfr Build&Use Comp 1AY to DOE-ORP**

- **T410H00A**
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- **T410H00B**
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**190.H00 Startup and Test AY-102 Mixing/Raf System**

- **T410H00A001**
  - 23JUN05: 0
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**Construction Turnover to Operations**

- Prepare New Operating Procedure AY-102
- Prepare New Maintenance Procedure AY-102
- Prepare Proc/Chg Auth (PCA) Process - Maint AY-102
- Perform Drills AY-102
- Perform R&D Operational Tests for AY-102
- Prepare Operational Test Report for AY-102
- Perform PM Routines AY-102
- Complete ABU Checklist for AY-102
- Perform Contr SSR for Tank AY-102
- Provide Tech/Admin SSR Suppt Tank AY-102
- Closeout SSR Comments Tank AY-102
- Conduct Plant Readiness Mgmt Self Assmt AY-102
- Provide CD-4 Approval for AY-102
- Mix AY-102C-108 Feed to suspend solids
- Provide Approval to Xfr AY-102 Feed
- Draft Transmittal Ltr for AY-102 Data to DOE-ORP
- Obtain CHG Approval for Transmittal Ltr
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Start Date: 01OCT99
Finish Date: 30OCT19
RTP April 2000,
Tank Farm Contractor,
Critical Path to AY-101
(T416S70A)

© Primavera Systems, Inc.
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**30J01 Pj Def, Tech Basis, Pj Def Criteria Pj W-523**

- Prepare C-104 Pre-Conceptual Design
- Complete ABU Checklist C-104
- Prepare Operational Test Report for C-104
- Perform PM Routines C-104

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**50J01 Perf Contractor Independent ORR for C-104**

- Perform Contract Independent ORR for Tank C-104
- Provide Tech/Admin ORR Support Tank C-104
- Closeout ORR Comments Tank C-104

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**50J03 Perf Mgmt Self-Assessment for C-104 Rpr Sys**

- Conduct Plant Readiness Mgmt Self Assmt C-104
- Closeout DOE ORR Comments C-104
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- Closeout DOE ORR Comments C-104

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**30J23 Retrieve C-104 into AT-101**

- Perform Purser/Ops/Post Sluice Ops C104-AY102
- Perform Purser/Ops/Post Sluice Ops C104-AY102
- Perform Purser/Ops/Post Sluice Ops C104-AY102
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- Infuse Modules 120C into AT-101
- Core Items/Complete Core 100% C104-AY102

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- Core Dome Loading-AY-101 (AY1C-104)
- Core Profiles/TSSAP (AY1C-104)
- Proc/Order materials, Core-AY-101 (AY1C-104)
- Proc/Order materials, Core-AY-101 (AY1C-104)
- Acquire Core Sample-AY-101 (AY1C-104)
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186.864 Mix AY-101/C-104 Feed to Suspend Solids

186.870 Prov Approval to Divrt.AY-101/C-104 Feed AY-101

185.870A 30 23JUL08, 21AUG08  0 C5B

185.870A 1AY46C MT Susp Solids/Ofcl Comp 1AY to DOE-ORP

T418576A 2 14JUL08  0 C5B

T418576B 5 16JUL08  0 C5B

Provide Approval to Xfr AY-101/C-104 Feed

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Draft CHG Appr't for Transm Ltr AY-101/C-104
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RTP April 2000,  
Tank Farm Contractor,  
Critical Path to C-107  
(T416Q70A)
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Critical Path to AW-104 (HLW)
(T416W70A)
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- 150.036 Dnvr 1st Bich SY-101 Feed AP-104 to BNPL Feed
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- 150.036 Dnvr 1st Bich SY-101 Feed AP-104 to BNPL Feed
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- **Infrastructure Systems Definition (01)**
- **Infrastructure Systems Definition (02)**
- **Infrastructure Systems Definition (03-05)**

### Start Date
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### Finish Date
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17APR00 15:24

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- W-520 Records Management Support
- W-520 Quality Assurance Support
- W-520 Construction Safety Support
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- W-520 Project Integration-Capital
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Run Date: 17APR00 15:16

RTP April 2000,
Tank Farm Contractor,
Critical Path for Imm Waste (HLW)
(T945030A3)

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**656.020 Perform Contractor Independent ORR on BILW Sys**
- Perform Contractor ORR for BILW System
- Provide Tech/Admin ORR Support for BILW System
- Close out ORR Comments for BILW System

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**450.025 Part DOE-ORP ORR on CD-4 on BILW Sys**
- Perform DOE-ORP ORR for BILW System
- Closeout DOE-ORP ORR Comments for BILW System

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**450.030 MO 80-11: Complete W-404 Startup**
- MO-80-11: Comp W-404 Construct (Inclding Startup)

**450.035 Trans/Reductstor Storage BILW (Part 1) in CSS**
- CD-4: Initiate Hot Operations - CSS
- Perform Preparation for Operations for CSS

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**F2 Immobilized Waste LAW Phase 1**

**460.005 BILW Project Mgmt**
- Begin FY 2000 Workscope

- Develop Startup Notification Report for BILW Sys
- Develop Plan of Action (POA) for BILW System
- Rev Facility Plant Readiness Plan for BILW Sys
- Conduct Plant Ready Mgmt Self Asmt for BILW Sys

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**B4B LAW Ph 1 Ext Order Tk 4 - S-102 Bht 2**
### TW04 Retrieval

**120.110** Est Dilution Rates/Dissipaton Behavior for S-105

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**200.105** Design S-105 Retrieval System & Obtain CD-3

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**200.150** Procure Equipment for S-105 Retrieval System

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**200.160** Construct S-105 Retrieval System

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**200.177** Perf Contractor Std Startup Review for S-105

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**200.193** Part Meat Self-Assessment for S-105 Retrive Sys

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**300.109** Prepare Process Control Plan for S-105

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**300.209** Retrieve S-105 906 97-103

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**300.244** Perform S-105 Infiltration Prevention

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### C5A HLW Ph 1 Tank 6 - SY-102 Sht 1

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+ Provide CD-4 Approval for AN-183

+ Prep AN TF for Construction Activities
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#### TW08 Privatization Phase 1

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**TW04.006 Repair/Upgrade Existing AP TF Sys Hardware for WFO Ph 1**

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**350 B336 Startup Test W-314 Master Pump Shutdown Upgrade**

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Electrical Tie-Ins & Testing

- Complete New A2 Pit

- Master Pump Shutdown - E&I Support (FY01)
- Master Pump Shutdown - E&I Support (FY02)
- Master Pump Shutdown - Procurement

Title: Engineering/Inspection FY01

- Prepare Construction Work Plan
- General Conditions FY01
- Construction Support FY01

- MOBILIZATION
- 278-WA MPS Electrical / Instrumentation
- Ethernet Network LMSI
- MOBILIZATION
- Prepare Construction Work Plan
- MPS Electrical / Instrumentation
- Electrical / Instrumentation Testing
- MOBILIZATION
- Prepare Construction Work Plan
- PUNCHLIST WORK OFF ITEMS
- SYS MPS Electrical / Instrumentation
- SYS 271 BLDG. TO 252-S TO 242-S BLDG.
- DEMOB
- RECORDS TURNOVER
- MOBILIZATION
- 244-S MPS Electrical / Instrumentation
- ELECTRICAL / INSTRUMENTATION TESTING
- PUNCHLIST / WORK OFF ITEMS
- 244-S MPS Electrical / Instrumentation Testing
- DEMOB
- RECORDS TURNOVER
- PUNCHLIST / WORK OFF ITEMS
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Construction Support: FY02
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Complete U-Farm Upgrades
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- ROUTE OVERHEAD POWER
- CLEAR & GRUB
- CULVERTS/REPAIR @ 7TH & BUFFALO & CANTON
- BERMING TO SUBGRADE
- FAB FLOOR SEAL ASMBLY & VALVE HNDSLS
- INSTALL NEW AZ VALVE PIT
- VALVE PIT BASE FORM
- INSTALL VALVE PIT FLOOR DRAIN SEAL ASMBLY
- VALVE PIT BASE REBAR/EMBEDDS
- VALVE PIT BASE PLACE CONCRETE
- VALVE PIT BASE CURE
- VALVE PIT WALLS FORM
- VALVE PIT WALLS, REBAR/EMBEDDS
- VALVE PIT WALLS CURE CONCRETE
- SET NOZZLES & SURVEY @ AZ PIT
- 200 E461 WETS - Construction (FY02)
- TITLE III ENG INSPECTION DURING CONST. FY03
- COMPLETE PIPELINE NEW AZ PIT TO AP FARM
- COMPLETE PIPELINE CROSSITEAN FARM & NEW PIT
- COMPLETE TIE-IN TO CROSSITE
- PUNCHLIST & DEMOBILIZATION
- COMPLETE BULK CONST. - 200E WTS
- SCHEDULE CONTINGENCY
- CONST. COMPLETE - 200E WTS
- INTERSECTION BASE & LEVELING COURSE & PAVE
- STABILIZATION & MARKERS
- SL35O/96 ELECT/INSTRUMENTATION TEST FY03
- SL35O/98 BACKFILL & BERM TO FINAL GRADE
- 5N3500/37/34 ELECT/INSTRUMENTATION
- 5N3306/39/29 BACKFILL & BERM TO FINAL GRADE
- 5N3306/39/34 BACKFILL & BERM TO FINAL GRADE
- EXCAVATION
- WELD 3" & SENSITIVE LEAK TEST
- WELD 6" CLAM SHELL & SENSITIVE LEAK TEST
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350.PAS Construct W-514 Ph 2, AP Tank Farm Upgrades

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- Install LDE Sleeve
- Install Drain Plug
- Replace Cover Block
- Install LDE Probe Assembly
- Site Instrumentation (Wiring & LDE Cabinet)
- Install Missile Shield
- ATP for AP-41A CPP
- Demobilization
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Central Pump Pit Weather Delays
- Inspection & Closout
- Contingency-CPP AP-41A
- Valve Position Indicator Consult & Wire - V-191
- Mobilization & Setup
- Spray Fixative
- Remove Cover Block
- Demo Existing Instruments In Pits
- Clean Debris/Wash Down Pit
- SPC Coatings-Pit
- Core Drill Cover Block (1 Hole)
- Coatings for Cover Blocks
- Install LDE Sleeve
- Install Drain Plug
- Replace Cover Block
- Install LDE Probe Assembly
- Site Instrumentation (Wiring & LDE Cabinet)
- Install Missile Shield
- ATP
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- Mobilization & Setup
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**125.V6 Startup and Test** AP-101 Transfer Pump

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**125.V6 Comp AP-101 Xf Sys Prep and Integrated Testing**

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**120.B05 NPP Mgmt Asmt of Overall Readiness LAW 131 BNFL**

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**120.V25 Prepare Process Control Plan for AP-101**

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Write Grab TSAP-AP-101
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Acquire 5 litre Grab Sample-AP-101
Grab Sample Analysis-AP-101
Issue Grab Data Report-AP-101
Start Certification

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* Construction Specifications
* Procurement Specifications
* Calculations
* Checking/Review
* Interdisciplinary Reviews
* Client Reviews
* Support Activities for Engineering
* 30% Design Review
* Drawings
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244S DCRT Definitive Design - Engineering Suppo

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| T415V23B | 5 | 17SEP04 | 23SEP04 | 483.40 | A1B |
| T415V23BM | 0 | 23SEP04 | 0.00 | A1B |

**150.255 Provide Approval to Deliver LAW Feed Batch #1**

| T415V29A | 30 | 30SEP04 | 23OCT04 | 0.00 | A1B |

**160.255 Deliver AP-101 Feed from AP-101 to BNFL Facility**

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**Develop Startup Notification Report 244-S DCRT**

**Develop Plan of Action (POA) 244-S DCRT**

**Develop Facility Plant Readiness Plan 244-S DCRT**

**Conduct Plant Readiness MSA 244-S DCRT**

**Perform Contractor RA 244-S DCRT Phase 2**

**Provide Tech/Admin RA Supp DCRT**

**Closeout RA Comments DCRT**
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- **T412B45CAQ**: Install Rnml Eqiuip (LLCE, FR, Misc)
- **T412B45CA5**: Remove Mrp Pump 02A / With Flex Rec
- **T412B45CAU**: Install Depth Verification Plug
- **T412B45CAW**: Transport Pump to Disposal
- **T412B45CAY**: Depth Verification
- **T412B45CBA**: Remv. Depth Plug & Install Shield Plug
- **T412B45CBC**: Weld Container End Caps
- **T412B45CBE**: Ops Review and Release Package to Field
- **T412B45CBG**: Grout Container
- **T412B45CBJ**: Stage Crane Pit 02D
- **T412B45CBK**: Prep Cover Blocks for Removal
- **T412B45CBN**: Sniff Pit Prior to Cover block Removal
- **T412B45CBQ**: Remove Cover Blocks Pit 02D
- **T412B45CBS**: Remove Jumpers and Prep for Storage
- **T412B45CBW**: Install Vapor Seals
- **T412B45CBY**: Install Rnml Equip (LLCE, FR, Misc)
- **T412B45CCA**: Remv. Transfer Pmp 32DWith Fr
- **T412B45CCE**: Transport Pump to Disposal
- **T412B45CCJ**: Install Shield Plug
- **T412B45CCG**: Install Cover Blocks
- **T412B45CCN**: Demob - AP-102
- **T412B45CCQ**: Weld Container End Caps
- **T412B45CCS**: Ops Review and Release Package to Field
- **T412B45CCU**: Grout Container
- **T412B45CCY**: Ops Review and Release Package to Field
- **T412B45CD**: Remv. Grout Droplet & Instl in Disposal Container
- **T412B45CDA**: Install Shield Plug
- **T412B45CDE**: Asbuild Nozzle Configuration for Jumper Fab
- **T412B45CDD**: Install Temporary Cover blocks
- **T412B45CDJ**: Demob on Pit 02A
- **T412B45CDL**: Mobilize for AP104 Slurry Disl Removal
- **T412B45CEA**: Stage Crane AP104
- **T412B45CEC**: Prep Cover Blocks for Removal
- **T412B45CEE**: Power Wash and Spray Fixative
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### Notes
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- Ops Review and Release Package to Field
- Mobilize for AN-102 Slurry Duct Removal
- Stage Crane AN-102
- Prep Cover Blocks for Removal
- Power Wash and Spray Focative
- Sniff Pit Prior to Cover Block Removal
- Remove Cover Blocks
- Demo Pit and Remove Jumpers
- Install Vapor Seals
- Install Spray Ring
- Rm/Slurry Duct & Install Disposal Conitr
- Install Depth Verification Plug
- Transport to Disposal Facility
- Depth Verification AN-102 Risier 012
- Assemble Nozzle Configuration For Jumper Fab
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Stage 8" Annulus Pipe In Trench
Weld Out & Cathodic Protection 8" Annulus Extent
SN-424-MI Attach Cathodic Protection
Testing 8" Annulus Exhaust
SN-424-MI Pressure Test Encased Pipe
Perform Tie-In Welds 8" Annulus Exhaust
SN-424-MI Apply Epoxy Coating to Weld Areas
SN-424-MI Install Heat Trace
Anchor/Find & Pour Concrete 8" Annulus Extent
SN-424-MI Survey Piping for Backfill
Install Insulation 8" Annulus Exhaust
SN-424-M1 Install Insulation
 fabricated nitrogen packs 2 ea.
3" PW-102-MI Place Timbers in Trench
3" PW-102-MI Rig Pipe in Trench
3" PW-102-MI Weld Out Primary Pipe
3" PW-102-MI Pressure Test Primary Pipe
3" PW-102-MI Weld Out Encased Pipe
3" PW-102-MI Attach Cathodic Protection
3" PW-102-MI Pressure Test Encased Pipe
3" PW-102-MI Apply Epoxy Coating to Weld Areas
3" PW-102-MI Install Heat Trace
3" PW-102-MI Survey Pipe for Backfill
3" PW-102-MI Install Insulation
Form/Rebar/Four Nitrogen Rack Packs 2 ea.
Nitrogen Hose Installation
Nitrogen Hose Installation
Fab 1st Raw Water Line M5 01F Pit
Perform Field Weld 1st Raw Water Line 02F Pit
Test 1st Raw Water Line 04D Pit
Apply Protective Coating 1st Raw Water 02F Pit
Fab Instrument Air/Purge Line
Test Instrument Air/Purge Line
Tie-in Instrument Air/Purge Line to Existing

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Excavation to Five Feet
Install Shoring
Remove & Relocate Annulus Vent Piping
Complete Excavation to Tank Dome
Construct New Pit 02F
Complete Backfill Up to Five Feet
Install Annulus Vent Piping Supports
Pull Shoring Planks
Complete Backfill
Gravel Stabilization
Dispose of Excess Soil
De-Mobilisation
Fab Jumps Centr P Pit 02A & 02F
Stage Crane Pit 02A
Install Jumps - Pit 02A
Install Cover Blocks - 02A
Install Jumps - Pit 02F
Install Cover Blocks - 02F
ATP AM04
Punchlist
Sign-off
Ops Review and Release Package to Field
Install Removal Equipment - 6" Flex Rec TCF1
Remove Thermocouple Tree w/F-ins TCF1
Install Shield Plug TCF1
Weld End Cap TCF1
Group Container TCF1
Remove Removal Equipment TCF1
Transport TCF to Disposal TCF1

Prep CWJUCS Temp Probe Install Work Plug
Ops Review and Release Plug to Field
Remove 12" Shield Plug - Riser TCF1
Install Temperature Probe Assembly TCF1
Run Cables - Temp Probe to TMAC Panel TCF1

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**Design Turnover to Startup**

- Construction Turnover to Operations
  - Prepare New Operating Procedure AN-102
  - Prepare New Maintenance Proc AN-102
  - Prep Proc Chg Auth (PCA) Ops AN-102
  - Prep Proc Chg Auth (PCA) - Maint AF-102/AIP-104
  - Prep Startup Op Training M Attls AN-102
  - Prep Startup Operational Training AN-102
  - Perform Drills AN-102
  - Prep Operational Test Procedures AN-102
  - Prep Rqd Operational Tests for AN-102
  - Prep Operational Test Report for AN-102
  - Perform PM Routines AN-102
  - Prep AB Environment Complete IHW Mix AN-102
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**120.170 Perform Contractor Std Startup Review for AN-102**
- Perform Contr SSR for Tank AN-102
- Provide Tech/Admin SSR Support Tank AN-102
- Closeout SSR Comments Tank AN-102

**120.175 Provide CD-4 Approval for AN-102**
- Provide CD-4 Approval for Tank AN-102
- Complete AN-102

**120.181 Perform Mgmt Self-Assmt for 2AN Misting/Filter Sys**
- Develop Startup Notification Report AN-102
- Develop Plan of Action (POA) AN-102
- Develop Facility Plant Readiness Plan AN-102
- Conduct Plant Readiness Mgmt Self Assmt AN-102

**150.120 Prepare Process Control Plan for AN-102**
- Prepare Draft PCP AN-102
- Review/Comment/Incorp Comments/Issue PCP AN-102
- Prepare ECHs and Revise PCP AN-102
- Prep and Issue Process Evaluation Report AN-102
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**Core Dome Loading-AN-104**

**Core Profile/TSAP-AN-104**

**Plan/Schedule material, Core-AN-104**

**Acquire Core Sample-AN-104**

**Core Sample Analysis-AN-104**

**Ship PAS Cask Solid, Core-AN-104**

### TW03 Tank Farm Operations

#### 250N15 Det. W-314 Ph 2 AN Farm Uppers and Obtain CD-3

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AN - Definitive Design-Phase 2

Design (Vent, 3 Flgs) - AN

Start AN Definitive Design

Drawings

Construction Specifications

Procurement Specifications

Calculations

Checking/Internal Reviews

Interdisciplinary Reviews

Client Reviews

Support Activities for Engineering

30% Design Review

60% Design Review

Drawings

Construction Specifications

Procurement Specifications

Calculations

Checking/Internal Reviews

Interdisciplinary Reviews

Client Reviews

Support Activities for Engineering

90% Design Review

Drawings

Construction Specifications

Calculations

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250.015 Startup/Test W.314 FY1 AN (AN-191 & 4AM Upgra ...
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- **HVAC Procurement**
  - Vapor Space Pressure Measurement
  - Remove Existing Vapor Pressure Instruments
  - Valve Position Indicator Conduit & Wire - V-401
  - Mobilization & Setup-CPP AN-02A
  - Spray Fixative
  - Remove Cover Block
  - Demo Existing Instruments in Pits
  - Clean Debris/Wash Down Pit
  - SPC Coatings - Pit
  - Core Drill Cover Block (1 Hole)
  - Coatings for Cover Blocks
  - Install LDE Sleeve
  - Install Drain Plug
  - Replace Cover Block
  - Install LDE Probe Assembly
  - Site Instrumentation (Wiring & LDE Cabinet)
  - Install Missile Shield
  - ATP
  - Demobilization
  - Shop Fab (LDE sleeve, & missile shield)
  - Central Pump Pit Weather Delays
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**Activity Descriptions:***

- **ELECTRICAL BOX INSTALLATION**
  - Re-install cover blocks
  - Remove greenhouse
  - Remove pit decking
  - Remove shoring & backfill

- **CONSTRUCT & INSTALL PIT DECKING**

- **SURVEY AND COREDRILL PIT WALLS**

- **INSTALL ENC. DRUM JUMPER**

- **PIT MOBILIZATION 01A**

- **ASSEMBLE & INSTALL GREENHOUSE**

- **INSTALL COVER BLOCKS**

- **PAINT ID ON COVER BLOCKS**

- **MOB/DEMO BURIAL BOXES-DRUMS**

- **PREP COVER BLOCKS**

- **SPRAY FIXATIVE**

- **AN-01A PUMP PIT GENERAL REQUIREMENTS FY01**

- **REMOVE COVER BLOCKS**

- **CLEAN PIT DEBRIS**

- **COVER BLOCK COREDRILL & SLEEVES FY01**

- **HYDRO-CLEAN & BLOWDOWN 3" PIPE**

- **SENSITIVE LEAK TEST AN-104 Transfer Lines**

- **INSTALL NOZZLE AND LDE RISER FY01**

- **FITUP, WELD & NDE 6" ENC PIPE FY01**

- **LIFT & ROTATE PUMP 140 DEG. FY01**

- **ELECTRICAL INSTALLATION FY01**

- **AN-1014 Upgrades - Construction (FY02)**

- **TITLE III ENGR INSPECTION DURING CONST FY02**

- **AN-01A PUMP PIT GENERAL REQUIREMENTS FY02**

- **FITUP, WELD & NDE 6" ENC PIPE FY02**

- **ELECTRICAL INSTALLATION FY02**

- **AN-01A, 04A, NEW PIT CONST. SUPPORT FY02**

- **INSTALL NOZZLE AND LDE RISER FY02**

- **PHOTOGRAM HOZS AND ANALYZE PHOTOGRAPMY**

- **CLEAN, PREP & SPC COAT PIT SURFACE**

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250.N95 Part Mgmt Self Assem for W-34 Ph2 AN Farm Uplgs
| SWK3M95A   | 45         | 23JAN02*    | 27MAR02      | 24,442.83     | A3A         |
| SWK3M90D   | 40         | 28MAR02     | 22MAY02      | 8,773.30      | A3A         |
| SWK3M90D   | 30         | 23MAY02     | 05JUL02      | 38,965.91     | A3A         |
| SWK3M95E   | 60         | 22JUL02     | 14OCT02      | 335,259.89    | A3A         |

250.N97 Part Ctrl Ready Assem W-34 Ph2 AN Farm Uplgs
| SWK3M97A   | 15         | 15OCT02     | 04NOV02      | 63,802.29     | A3A         |
| SWK3M97R   | 10         | 15OCT02     | 28OCT02      | 155,630.20    | A3A         |
| SWK3M97C   | 5          | 20OCT02     | 04NOV02      | 36,245.17     | A3A         |

TW04 Retrieval
125.A10 Verify AN TF Sys Components Functionality
| T412A10A   | 318        | 01OCT09     | 22MAY09      | 378,294.48    | A3A         |

125.A10 Perform Acquisition Strategy for AN Tank Farm
| T412A10A   | 230        | 23MAR09     | 22MAY09      | 51,670.16     | A3A         |

125.A17 Perform AN Tank Farm Trade Studies
| T412A17A   | 115        | 02OCT09*    | 19MAR09      | 108,974.19    | A3A         |

129.E31 Procure Equipment for AN-101 Mixing/Filter System
| T412E31A   | 157        | 01OCT01     | 30MAY02      | 1,500,000.00  | A3A         |
| T412E31A01 | 300        | 01OCT01     | 08DEC02      | 0.00          | A3A         |
| T412E31A02 | 300        | 01OCT01     | 09DEC02      | 0.00          | A3A         |
| T412E31A04 | 199        | 01OCT01     | 16JUL02      | 0.00          | A3A         |

W-321 Procure AN-101 Mixing & Retrieval System
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- [ ] Mixer Pump (1 ea)
- [ ] Filter Panels for CCTV
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**W-351 Procure AN-101 Mixing & Retrieval System**

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- Rmv Slurry Dist 01A & Inst in Disposal Contn.
- Install Depth Verification Plug
- Transport to Disposal Facility
- Depth Verification AN-101 Riser 012
- Asbuild Nozzle Configuration For Jumper Fab
- Ops Review and Release Package to Field
- Mob AN-101 Riser 013
- Swpt Pit Prior to Manhole Cover Removal
- Rmv Manhole Cover
- Rmv Pressure Sensor & Inst In Container
- Install Depth Verification Plug
- Depth Verification AN-101 Pit Riser 013
- Demob Riser 013 tank AN-101
- Ops Review and Release Package to Field
- Install Remv Equip (LLCE, FR, Misc)
- Remove Transfer Pmp 01A/With flux Rec
- Weid Container End Up
- Install Shield Plug
- Install Temporary Cover Blocks
- Grout Container
- Demob Tank AN-101 Pit 01A
- Transport to Disposal Facility
- Scan for Excavation permit
- Generate Excavation Permit
- Prep CWPU/C Work Package
- Ops Review and Release Package to Field
- Survey Location for Excavation
- Op's Lock Out of Required Systems
- Mobilize Excavation Equipment
- Excavate North/South Transfer Line
- Excavate 3" SN-022-MR
- Excavate 3" SN-023-MR with Encasement
- Excavate 3" PW-103/104-MR with Encasement
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- **T412E33133** 14FEB03 14FEB03 0.00 A3A Test 1st Raw Water Line OD Pit
- **T412E33134** 18FEB03 18FEB03 0.00 A3A Apply Protective Coating 1st Raw Water OF Pit
- **T412E33135** 19FEB03 19FEB03 0.00 A3A Fb Instrument Air/Purge Line
- **T412E33136** 20FEB03 20FEB03 0.00 A3A Test Instrument Air/Purge Line
- **T412E33137** 21FEB03 21FEB03 0.00 A3A Tie-In Instrument Air/Purge Line to Existing
- **T412E33138** 25FEB03 25FEB03 0.00 A3A Install Tubing Hangers To Instr. Air/Purge Line
- **T412E33139** 29FEB03 29FEB03 0.00 A3A Complete Backfill
- **T412E33140** 04MAR03 04MAR03 0.00 A3A Stabilization
- **T412E33141** 05MAR03 05MAR03 0.00 A3A De-Mobilization

**Prep CWP/JCS Work Package**
- Ops Review and Release Package to Field
- Operators Walkdown / Lock & Tag
- Electrical Demo
- Dispose of Removed Equipment
- AN01A-EDS-CP-122
- AN01A-EDS-TPB-111
- AN01A-WST-TPB-101
- AN01A-EDS-TPB-100
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120.650 Design AN-104 Mixing and Retrieval System

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Complete Design - AN-104

Transfer Pump
Mixer Pumps
Mixer Pump VFDs
Purge Panels for CCTV
LCE Burial Containers (3)
H&C Enclosures (1 set)
Retrieval Control System Modification
LCE Removal Equip/Steel Frames
Flex ROC Mdb/Parts/Tags
Mixer Pump Spray Rings & Riser Extensions
Impact Limitters (1) - Verify use of Existing
Electric Cable Support Frames (2)
Service Water Enclosure
CCTV Multiport Adapter
Pipe Cover Blocks
Temperature Probe
LCE Equipment Procurement FY91
AN-104 Equipment Procurement FY01
Start Procurement

360 Engineering
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- Complete Backfill Conduits - HMF2 to AN-271
- Term Wires - AN-271 Cabinets/Boxes
- Exc for Elec Conduit - HMF1 to AZ-271
- Run (3)" Conduits - HMF1 to AZ-271
- Pull Cables - HMF1 to AZ-271
- Complete Backfill Conduits - HMF1 to AZ-271
- In Tank Equipment Install Training at CTF
- Prep CWPUJCS Equip Install Work Plugs
- Ops Review and Release Plugs to Field
  - Install Flex Hose Connection
  - Connect Temp Winch Controls
  - Stage Two Cranes
  - Verify Winch & Install Transfer Pump
  - Make Elec Connections to Transfer Pump
  - Install Nitrogen Hose to Transfer Pump
  - Remove Temp Shield Plug
- Prep JCS/CWP Camera Installation Work Package
  - Ops Review & Release Package to Field
    - Install CCTV Riser Ext/Shield Cover - Riser (XX8)
    - Install CCTV - Riser (XXA)
  - Connect CCTV Hoses/Cables/Lighting
  - Test Camera System
  - Fab/Furn Trunion Gnd Assy/Support
  - Fab/Furn Drain Hse Assy/Pivot Arm
  - Fab/Furn Jumper Assy AN644-A(19)
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**120. E06 Perf Mgmt Self-Assess of Waste Feed Divr Xtr Sys**

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**120. E05 Startup Test 4MN Multiast Sys less Mixer Pumps**

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**120. E70 Startup and Test AN-101 Mixing/Slurry System**

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**120.E80 Perf Contn Indep ORR Wet Feed Dvry Xr Sys**

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**120.E85 Transfer AN-101 to AN-106**

**130.E85 Transfer AN-101 to AN-106**

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**150.K84 Repair/Upgrade Existing AN TF Sys Req for WFD Ph 1**

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**120.E2. Startup/Test: AN-104 Mixer Pump and Related Sys**

- **Design Turnover to Startup**
- **Construction Turnover to Operations**
- **Prepare New Maintenance Procedure AN-104 Mix**
- **Proc Chg Auth (PCA) Process Op AN-104 Mix**
- **Proc Chg Auth (PCA) Process Maint AN-104 Mix**
- **Prep Startup Op Training Matls AN-104 Mixer**
- **Prep Startup Operational Training AN-104 Mixer**
- **Prepare Operational Test Proc AN-104 Mixer**
- **Perform Rig’d Op Tests for AN-104 Mixer**
- **Prepare Op Test Report for AN-104 Mixer**
- **Prepare PM Routines AN-104 Mixer**
- **Complete ABU Checklist**
- **Complete AN-104**

**130.B10. Degas AN-104 by Decant to Bitch AN-104 to AN-101**

- **PCA: AN-104 to AN-101**
  - Xfer 200k Gallons Feed from AN-104 to AN-101
  - Backfill AN-104 with 150k Galls of Dilution Water

**130.E20. X/hr 4AM I'd bema 1ANAMAN III Stabilize Aktv Accep**

- **Prep LLW Transfer Procedure for AN-101 to AN-104**
  - Transfer 390k Gallons Feed from AN-101 to AN-104
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| 350.055 Vitrify 5th LAW Feed Batch | 151 | 01OCT10 | 28FEB11 | 0.00 | ASB |
| 350.080 Pretreat 6th LAW Feed Batch | 30 | 30JUN11 | 28FEB11 | 0.00 | ASB |
| 350.085 Vitrify 6th LAW Feed Batch | 122 | 01MAR11 | 30JUN11 | 0.00 | ASB |
| T435055AM  | 0    | 30JUN11    | 0.00        | ASB          |             |

Provide Approval to Xfer AN-104 Feed Batch 2

PCA LAW Transfer Procedure AN-101 to BNFL

Xfr Wst. AN-104 Feed from AN-101 to BNFL

Pretreat 5th LAW Feed Batch (AN-104 1st)

Vitrify 5th LAW Feed Batch (AN-104 1st)

Pretreat 6th LAW Feed Batch (AN-104 2nd)

Vitrify 6th LAW Feed Batch (AN-104 2nd)

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**130.K50 Design AN-107 Mixing & Raff System CO-3**

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**130.K52 Procure Equipment for AN-107 Mixing & Raff Sys**

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**130.K60 Construct AN-107 Mixing and Retrieval System**

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**W-521 Design Retrieval System Tank AN-107**

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**Transfer Pump**

**LLCE Burial Container (1)**

**IAC Enclosures (1 set)**

**LLCE Removal Equip/Steel Frames**

**FCC Rec Media/Parts/Bag**

**Impact Limiter (1) - Verify use of Existing**

**CCTV Riser Extension**

**PI Cover Blocks**

**CCTV Camera Equipment**

**W-521 - Procure Retrieval System Tank AN-107**

**Start Procurement**

**Title II Engineering**

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**Mobilize**

**Greenhouse Support**

**Gen Red Tech Serv/Stepoff Pap/New Hires/OT Allow**

**Project Support**

**Proc WTP/JCS Equip. Removal Work Packages**

**Stage Equipment at Cold Test Facility**

**Perform Equipment Preventive Maint**
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- Electrical Excavation
- Armored Cable Excavation
- Steel Tube Excavations for Elec. Term. Boxes
- Fabricated Nitrogen Racks
- Form/Rebar/Pour Nitrogen Rack Pads
- Nitrogen Rack Installation
- Nitrogen Hose Installation
- Fab Instrument Air/Purge Line
- Test Instrument Air/Purge Line
- Tie-in Instrument Air/Purge Line to Existing
- Install Tubing Hangers To Instr. Air Purge Line
- Complete Stabilizat
- De-Mobilization
- Install AN07A-7777 (TP-022 Term Box)
- Install AN07A-7777 (TP-022 Term Box)
- Install AN07A-7777 (TP-022 Switch)
- Install AN07A-7777 (Seal Gas Cntl Panel)
- Install AN07A-7777 (TP Winch Cntl Panel)
- Install AN07A-7777 (TP Winch Switch)
- Excavate Elec Cable Trenches
- Run Elec Cables AZ-156 to Farm
- Terminate Wires (In-Farm Equip/TBs)
- Continuity Testing
- Complete Backfill Elec Cable Trenches
- Full Cables & Armored Cable
- Terminate Wires
- Continuity Testing
- In-Tank Equipment Install/Training at CTF
- Prep CWPUCS Equip/Install Work Plgs
- Ops Review and Release Plg to Field
- Install Flex Hose Connection
- Connect Temp Winch Controls
- Stage Two Cranes
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129K50 Startup and Test AN-107 Melting/Ball System

- Design Turnover to Startup
  - Construction Turnover to Operations
    - Prepare New Operating Procedure AN-107
    - Prepare New Maintenance Procedure AN-107
    - Prep Proc Chg Auth (PCA) Process for Op AN-107
    - Prep Proc Chg Auth (PCA) Process - Maint AN-107
    - Prep Startup Operational Training Mails AN-107
  - Perform Drills AN-107
  - Prep Operational Test Procedures AN-107
    - Perform Op'd Operational Tests for AN-107
    - Prep Operational Test Report for AN-107
    - Prep AB Environmntal Hardware Matrix AN-107
    - Prep AB Environmental Comp Ops Matrix AN-107

129K70 Perform Contractor Sid Startup Review for AN-107

- Complete ABU Checklist AN-107
  - Perform Const SSR for Tank AN-107
  - Provide Tech/Admn SSR Suppl Tank AN-107
  - Closeout SSR Comments Tank AN-107

128K75 Provide CD-4 Approval for AN-107

- Provide CD-4 Approval for Tank AN-107
  - Complete AN-107
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**130.KJ2: Prepare Process Control Plan for AN-107**

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- Develop Startup Notification Report AN-107
- Develop Plan of Action (POA) AN-107
- Develop Facility Plant Readiness Plan AN-107
- Conduct Plant Readiness Mgmt Self Assessment AN-107
- Prepare Draft PCP AN-107
- Review/Comment/Incorporate Comments/Issue PCP AN-107
- Prepare ECNs and Revise PCP AN-107
- Prep and issue Process Evaluation Report AN-107
### TW01 Tank Waste Characterization

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**Notes:**
- Write Grab TSAP-AN-107
- Plan/Schedule/Wait for Grab-An-107
- Acquire 5 L Grab Sample-AN-107
- Grab Sample Analysis-AN-107
- Issue Grab Data Report-AN-107
- Ship Hedgehog Liquid, Grab-An-107

### TW04 Retrieval

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**Notes:**
- Perf Piping Operation on AN-107 Feed in AN-107
- Draft Transmittal Letter to DOE-ORP for AN-107
- Observe CG Insd for Transmittal Letter AN-107
- Complete AN-107
- Provide Approval to Xfer AN-107 Feed Batch
- PCA LAW Transfer Procedure AN-107 to BNFL

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**Notes:**
- Pretreat 1st LAW Feed Batch (AN-107)

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**Notes:**
- Verify 2nd LAW Feed Batch (AN-107)
- Complete AN-107
### ASA LAW Ph 1 Tank 5 - AN-105 Sh1 1

#### TW01 Tank Waste Characterization

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#### TW04.000 Procure Equipment for AN-105 Mining & RetrSys

- **Transfer Pumps**
- **Retrieve Pump VFDs**
- **Puise Panel for CCTV**
- **LLEC Burial Containers (3)**
- **AC Enclosures (1 set)**
- **Retail Control Systems**
- **LLEC Removal Equip/Steel Frames**
- **Flex Rec Mod/Parts/Tags**
- **Mixer Pump Spray Rings & Riser Extensions**
- **Impact Limiters (1) - Verify use of Existing**
- **Electric Cable Support Frames (2)**
- **Service Water Enclosure**
- **CCTV Riser Extension**
- **Pl/Cover Blocks**
- **Temperature Probe**
- **AN-105 Equipment Procurement**
- **Start Procurement**

---

**Title II Engineering**

- Mobilize for In Farm Work
- Greenhouses Support
- Can Real Tech Serv/StepOff Pad/View Hires/OT Allow

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- Remove CCTV Camera & Store
- Install Temp Shield Plug
- Prep CWPUICS Work Package
- Ops Review and Release Package to Field
- Operators Walkdown / Lock & Tag
- Electrical Demo
- Dispose of Removed Equipment

Scan for Excavation permit
Generate Excavation Permit
Ops Review and Release Package to Field
Prep CWPUICS Work Package
Survey Location for Excavation
Ops's Look out of Required Systems
Mobilize Excavation Equipment
Exc for 1/2" SW-3052-M9 Line
Exc for 1/2" SW-3051-M9 Line
Exc for (2) 1/2" SW-M9 Spare Lines
Exc for 3" PW-401-M9 Line
Exc for 3" PW-402-M9 Line
Electrical Excavation
Armored Cable Excavation
Sono Tube Excavations for Elec. Term. Boxes
Fab Piping & Test 1/2" SW-3052-M9
Perform Field Welds 1/2" SW-3052-M9
Hydro Test 1/2" SW-3052-M9
Insulate & Heat Trace 1/2" SW-3052-M9
Fab Piping & Test 1/2" SW-3051-M9
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Hydro Test 1/2" SW-3051-M9
Insulate & Heat Trace 1/2" SW-3051-M9
Fab Piping & Test 1/2" SW-M9 Spare Lines
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Hydro Test 1/2" SW-M9 Spare Lines
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- **Fabricated Nitrogen Racks**
- **FormRehab/Pour Nitrogen Rack Pads**
- **Nitrogen Rack Installation**
- **Nitrogen Hose Installation**
- **Fab Instrument Air/Purge Line**
- **Test Instrument Air/Purge Line**
- **Te-In Instrument Air/Purge Line to Existing**
- **Install Tubing Hangers To Instr. Air Purge Line**
- **Complete Backfill for AN CDA**
- **Stabilization**
- **De-Mobilization**
- **Four New Pad for Air Control Station**
- **Rotate Air Control Station 90 Degrees**
- **Remove Old Air Control Station Pad**

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**Package Prep and Pre-Fabrication**

- **Fab 3" PW-401-449 Line**
- **Fab 3" PW-402-449 Line**
- **3" PW-401-449 Place Timbers In Trench**
- **3" PW-401-449 Rig Pipe In Trench**
- **3" PW-401-449 Weld Out Primary Pipe**
- **3" PW-401-449 Pressure Test Primary Pipe**
- **3" PW-401-449 Attach Cathodic Protection**
- **3" PW-401-449 Apply Epoxy Coating to Weld Areas**
- **3" PW-401-449 Install Heat Trace**
- **3" PW-401-449 Survey Pipe for Backfill**
- **3" PW-401-449 Install Insulation**
- **3" PW-402-449 Place Timbers In Trench**
- **3" PW-402-449 Rig Pipe In Trench**
- **3" PW-402-449 Weld Out Primary Pipe**
- **3" PW-402-449 Pressure Test Primary Pipe**
- **3" PW-442-449 Attach Cathodic Protection**
- **3" PW-442-449 Apply Epoxy Coating to Weld Areas**
- **3" PW-442-449 Install Heat Trace**
- **3" PW-442-449 Survey Pipe for Backfill**
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- Connect CCTV Hoses/Cables/Lighting
- Test Camera System
- Fab/Finish Trunion Guid Assy/Support
- Fab/Firm Drain Hoist Assy/Piv. Arm
- Fab/Firm Jumper Assy AN95A-(5)-(9)
- Fab/Firm Jumper Assy AN95A-ENC DR
- Fab/Firm Jumper Assy AN95A-B-(9)-10
- Fab/Firm Jumper Assy AN95A-A-(6)
- Fab/Firm Jumper Assy AN95A-A-2-3
- Fab/Firm Jumper Assy AN95A-S-1-(4)
- Fab/Firm Jumper Assy AN95A-G-(4)
- Install Trunion Guid Assy/Support
- Install Drain Hoist Assy/Piv. Arm
- Install Jumper Assy AN95A-(5)-(4)
- Install Jumper Assy AN95A-ENC DR
- Install Jumper Assy AN95A-B-(9)-10
- Install Jumper Assy AN95A-B-7-(6)
- Install Jumper Assy AN95A-A-(8)
- Install Jumper Assy AN95A-B-2-3
- Install Jumper Assy AN95A-S-1-(4)
- Install Jumper Assy AN95A-G-(4)
- Install MOB Funnel Assys
- Install New Cover Blocks - Pit AN95A
- Paint Cover: Block Flow Diagrams
- Install MOB Actuator WT-MOB-408 / Term Wires
- Install MOB Actuator WT-MOB-409 / Term Wires
- Install MOB Actuator WT-MOB-411 / Term Wires
- Install MOB Actuator WT-FCV-410 / Term Wires
- Fab/Firm Jumper Assy AN-A-A-0
- Fab/Firm Jumper Assy AN-A-L21-F-(D)
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**AN-105** Install RCS in AZ-156 Bldg

**AN-105** Install Transfer Pump

**AN-105** Utility Tie-Ins

**AN-105 Construction Acceptance / Closeout

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120.083 Mgmt Self-Asmt BAK Sys less Mixer Pumps
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- T412D92B 10 08APR09 21AUG09 105,900.20 ASA
- T412D90C 5 22APR09 28APR09 38,245.12 ASA

120.066 Prot CD-4 Appln SAN Sys less Mixer Pumps
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130.085 Prepare Process Control Plan for AN-105
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- T413B55B 22 19NOV02 12DEC02 87,999.38 ASA
- T413B55C 20 13DEC02 14JAN03 10,978.31 ASA
- T413B55E 40 02FEB12 25MAY12 35,421.98 ASA

- Prepare Draft PCP AN-105
- Review/Comment/Incorp Comments/Issue PCP AN-105
- Prepare ECNs and Revise PCP AN-105
- Prep and Issue Process Evaluation Report AN-105
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PCA: AN-105 to AN-102

- Feed 300k Gallons Feed from AN-105 to AN-102
- Backfill AN-105 with 150k Gal of Dilution Water
- Provide Approval to Deliver LAW Feed Batch #8
- Provide Approval to Deliver LAW Feed Batch #7
- Perform Mixing Operation Remaining Feed AN-103
- Draft Transmittal Letter to DOE-ORP for AN-105
- Obtain CHG Appr for Transmittal Ltrs AN-105
- PCA LAW Transfer Procedure AN-102 to BNFL
- Xfer Wst: AN105 Feed from AN102 to BNFL
- PCA LAW Transfer Procedure AN-105 to BNFL
- Xfer: Rem Feed AN-105 from AN-105 to BNFL
- PCA LAW Transfer Procedure AN-105 to BNFL

TW08 Privatization Phase 1

- Pretreat 8th LAW Feed Batch (AN-105 1st)
- Pretreat 9th LAW Feed Batch (AN-105 2nd)
- Complete AN-105
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- Hydro Test 1/2" SW-3052-M9
- Insulate & Heat Trace 1/2" SW-3052-M9
- Fab Piping & Test 1/2" SW-3051-M9
- Perform Field Welds 1/2" SW-3051-M9
- Hydro Test 1/2" SW-3051-M9
- Insulate & Heat Trace 1/2" SW-3051-M9
- Perform Field Welds 1/2" SW-M9 Spare Lines
- Hydro Test 1/2" SW-M9 Spare Lines
- Insulate & Heat Trace 1/2" SW-M9 Spare Lines
- Form/Rebar/Pour Nitrogen Rack Pads
- Nitrogen Rack Installation
- Nitrogen Hose Installation
- Fabricated Nitrogen Racks
- Complete Backfill
- Stabilization
- De-Mobilization
- Pour New Pad for Air Control Station
- Rotate Air Control Station 90 Degrees
- Remove Old Air Control Station Pad

- Package Prep and Pre-Fabrication
- Fab 3rd Trans Line 1
- Fab 3rd Trans Line 2
- 2" PW Trans Line 1, Place Timbers in Trench
- 2" PW Trans Line 1, Rig Pipe in Trench
- 2" PW Trans Line 1, Weld Out Primary Pipe
- 2" PW Trans Line 1, Pressure Test Primary Pipe
- 2" PW Trans Line 1, Attach Cathodic Protection
- 2" PW Trans Line 1, Apply Epoxy Coating to Welds
- 2" PW Trans Line 1, Install Heat Trace
- 2" PW Trans Line 1, Survey Pipe for Backfill
- 2" PW Trans Line 1, Install Insulation
- 2" PW Trans Line 2, Place Timbers in Trench
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Activities:
- Mount Elec Cable Support Frame - MP-1
- Mount Elec Cable Support Frame - MP-2
- Install SY101-EDS-CP-123 (Mini Power Center)
- Install SY101-EDS-TBX-107 (MP-1 Term Box)
- Install SY101-WST-MTS-101 (MP-1 Switch)
- Install SY101-WST-MTS-103 (MP-1 TrimBox Switch)
- Install SY101-WST-MTS-106 (MP-1 TrimBox Switch)
- Install SY101-WST-MTS-164 (MP-2 TrimBox Switch)
- Install SY01A-WT-TBX-101 (TP-022 Term Box)
- Install SY01A-WT-TBX-103 (TP-022 Term Box)
- Install SY01A-WST-MTS-108 (TP-022 Switch)
- Install SY01A-WT-CP-122 (Kermit ECO Panel)
- Install SY01A-WT-CP-158 (TP Winch ECO Panel)
- Install SY01A-WST-MTS-107 (TP TrimBox Switch)
- Install ANVPA-WT-ENCL-162 (Pressure Switch Enc1)
- Excavate Elec Cable Trenches
- Run Elec Cables AZ-156 to Farm
- Terminate Wires (In-Farm Equip/TBS)
- Continuity Testing
- Complete Backfill Elec Cable Trenches
- Fab/Run J-Boxes/Term Boxes for SY-156 Equip
- Install J-Boxes/Term Boxes in SY-156
- Install Vendor Furnished Elec Equip (VFEDs)
- Run Conduits
- Full Cables & Armored Cable
- Terminate Wires
- Continuity Testing
- In-Tank Equipment Install Training at CTF
- Prep CWP/CUE Equip Instl Work Pics
- Ops Review and Release Pics to Field
- Install Flex Hose Connection
- Connect Temp Winch Controls
- Stage Two Cranes

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- **Verify Winch & Install Transfer Pump**
- **Make Elec Connections to Transfer Pump**
- **Install Nitrogen Hose to Transfer Pump**
- **Ops Review and Release Pkg to Field**
- **Test Mixer Pump-1 at MASF**
  - **Install Shield Ring & Temp. Hose**
  - **Stage Two Cranes**
  - **Install Mixer Pump-1 - Riser 007**
  - **Make Elec Connections - Mixer Pump-1**
  - **Run 1/2" SW line/Connect to MP-1**
  - **Install MP-1 Heat Tracing**
  - **Ops Review and Release Pkg to Field**
- **Test Mixer Pump-2 at MASF**
  - **Install Shield Ring & Temp. Hose**
  - **Stage Two Cranes**
  - **Install Mixer Pump-2 - Riser 008**
  - **Make Elec Connections - Mixer Pump-2**
  - **Run 1/2" SW line/Connect to MP-2**
  - **Install MP-2 Heat Tracing**
  - **Ops Review and Release Pkg to Field**
  - **Remove 12" Shield Plug - Riser 013**
  - **Install Temperature Probe Assembly**
  - **Run Cables - Temp Probe to TMAC Panel**
  - **Terminate Wires and Perform Functional Test**
  - **Remove Temp Shield Plug**
  - **Prep JCS/CWP Camera Installation Work Package**
  - **Ops Review & Release Package to Field**
  - **Install CCTV Riser Ext/Shield Cover - Riser**
  - **Install CCTV - Riser**
  - **Connect CCTV Hoses/Cables/Lighting**
  - **Test Camera System**

**Tasks**
- Fab/Furn Trunlon Guard Assy/Support
- Fab/Furn Drain Hole Assy/Pivot Arm
- Fab/Furn Jumper Assy SY01A(5)-48
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**Notes:**
- Write Grab TSAP AN-101 (SY-101)
- Permits and Permits for Grab AN-101 (SY-101)
- Acquire 5 litre Grab Sample AN-101 (SY-101)
- Issue Sample Analysis AN-101 (SY-101)
- Issue Grab Data Report AN-101 (SY-101)

**TW04 Retrieval**

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**Notes:**
- PCA LAW Xr Procedure from SY-101 to SY-102
- Transfer 2nd Batch of SY-101 Feed to SY-102
- Prep PCA for Cross-Link Xbar SY-102 to AN-101
- Commerial Xy-101

**100.R00 Tank Feed Batch 1**

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**Notes:**
- Draft Transmittal to DOE-CDF for SY-101
- Obtain CID for Transmittal to DOE-CDF for SY-101
- Provide Approval to 3x SY-101 Feed Batch 1
- PCA LAW Xr Procedure 1st Bch AP-104 to SMFL
- Deliver 1st Batch SY-101 to SMFL
- PCA LAW Xr Procedure 1st Bch AP-104 to SMFL
- Provide Approval 3x SY-101 Feed Batch 1

**100.R00 Tank Feed Batch 1**

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**150 RPS Provide Approval to Deliver LAW Feed Batch #11**

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100 JSY Construct All-103 Mixing and Retrieval System

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Title: Engineering

Mobile

Greenhouse Support

Gas RenewTech Serv/Stopof Pad/Nov HeliOT A

Project Support

Prep CWPUCS Equip. Removal Work Packages

Stage Equipment at Cold Test Facility

Perform Equipment Preventive Maint

Training at CTF

Modify CTF for Training

Stage Crane Pk 03A

Prep Cover Blocks for Removal

Smil Pit Prior to Cover block Removal

Remove Cover Blocks Pit 03A

Remove Jumpers and Prep for Storage

Wrap and Stage Cover Blocks for Burial

Install Vapor Seals

Install Removal Equipment - 42' Flex Rec

Remove Transfer Pump With FTR

Install Depth Verification Plug

Transport Pump to Disposal

Depth Verification

Remove Depth Plug & Install Shield Plug

Install Temporary Cover Plug

Weld Container End Cap

Ops Review and Release Package to Field

Grout Container

As-build Nozzle Configuration for Jumper Fab

Remove Removal Equipment

Remove Jumpers & Prep for Storage

Install Vapor Seals
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- Remove Slurry Distributor
- Install Temp 42" Shield Plug
- Transport Slurry Disposal
- Ops Review and Release Package to Field
- Ops Review and Release Package to Field
- Remove Multi-Port Adapters from 42" Riser
- Remove CCTV Camera & Store
- Install Temp 42" Shield Plug
- Scan for Excavation Permit
- Generate Excavation Permit
- Ops Review and Release Package to Field
- Prep CWPUCS Work Package
  - Survey Location for Excavation
  - Ops Lock Out of Required Systems
  - Mobilize Excavation Equipment
  - Exc for 1/2" SW (---)
  - Exc for 1/2" SW (---)
  - Exc for (2) 1/2" SW (---)
  - Electrical Excavation
  - Armored Cable Excavation
  - Sono Tube Excavations for Elec. Term. Boxes
  - Fab Piping & Test 1/2" SW (---)
  - Perform Field Welds 1/2" SW (---)
  - Hydro Test 1/2" SW (---)
  - Insulate & Heat Trace 1/2" SW (---)
  - Fab Piping & Test 1/2" SW (---)
  - Perform Field Welds 1/2" SW (---)
  - Hydro Test 1/2" SW (---)
  - Insulate & Heat Trace 1/2" SW (---)
  - Fab Piping & Test 1/2" SW (---)
  - Perform Field Welds 1/2" SW (---)
  - Hydro Test 1/2" SW (---)
  - Insulate & Heat Trace 1/2" SW (---)
  - Fabricated Nitrogen Tanks
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- T412J55109: Removes Nitrogen Rack Installation
- T412J55110: Installs Nitrogen Rack Installation
- T412J55111: Installs Nitrogen Hose Installation
- T412J55112: Installs Fab Instrument Air/Purge Line
- T412J55113: Installs Test Instrument Air/Purge Line
- T412J55114: Installs Tie-In Instrument Air/Purge Line to Existing
- T412J55115: Installs Tubing Hangers To Instr. Air Purge
- T412J55116: Complete Backfill
- T412J55117: Stabilization
- T412J55118: De-Mobilization
- T412J55119: Pour New Pad for Air Control Station
- T412J55120: Rotate Air Control Station 90 Degrees
- T412J55121: Remove Old Air Control Station Pad
- T412J55144: Installs New 42" Shield Plug - Riser(XXX)
- T412J55145: Exc to Uncover Top of Riser(XXX)
- T412J55146: Installs 42" Shield Plug - Riser(XXX)
- T412J55147: Installs 42" Shield Plug - Riser(XXX)
- T412J55148: Installs 42" Shield Plug - Riser(XXX)
- T412J55149: Installs 42" Shield Plug - Riser(XXX)
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Remove Depth Verif & Shield Plug (KX2)
Complete Backfill Riser Ext - Riser-007
Cure Time & Paint - Riser (KX2)
Form/Pour Concrete - MP-1 Elec Frame
Form/Pour Concrete - MP-2 Elec Frame
Mount Elec Cable Support Frame - MP-1
Mount Elec Cable Support Frame - MP-2
Install AN103 (777) (Mini Power Center)
Install AN103 (777) (MW-1 Term Box)
Install AN103 (777) (MW-1 Switch)
Install AN103 (777) (MW-1 TrnTab Switch)
Install AN103 (777) (MW-2 Term Box)
Install AN103 (777) (MW-2 Switch)
Install AN103 (777) (MW-2 TrnTab Switch)
Install AN603A-777 (TP-02 Term Box)
Install AN603A-777 (TP-02 Term Box)
Install AN603A-777 (TP-02 Switch)
Install AN603A-777 (Gas Ctrll Panel)
Install AN603A-777 (TP Winch Ctrll Panel)
Install AN603A-777 (TP Winch Switch)
Install ANVPA-WT-EMCL-102 (Press Switch Enclosure)
Excavate Elec Cable Trenches
Run Elec Cables AZ-156 to Farm
Terminate Wires (In-Farm Equip/TS)
Continuity Testing
Complete Backfill Elec Cable Trenches
Exc for Elec Conduit - AZ-156 to HM#1
Install Handhole #1
Run (33") & (23") Conduits - AZ-156 to HM#1
Full Cables - AZ-156 to HM#1
Complete Backfill Conduit - AZ-156 to HM#1
Exc for Elec Conduit - HM#1 to HM#2
Install Handhole #2
Run (43") Conduits - HM#1 to HM#2
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| T1412JS5H51 | 28 | 12DEC08 | 23JAN09 | 266,494.97 | A7A |
| T1412JS5H52 | 20 | 12SEP08 | 09OCT08 | 1,047,554.52 | A7A |
| T1412JS5H53 | 53 | 27AUG08 | 10AUG09 | 844,418.39 | A7A |
| T1412JS5M02 | 0 | 01FEB09 | 01FEB09 | 0.00 | A7A |
| T1412JS5M03 | 0 | 11AUG08 | 10AUG09 | 0.00 | A7A |

120 J85 Startup Test SAN MuRsr Sys less Mixer Pumps

| Activity | ID      | Orig | Early Start | Early Finish | Budgeted Cost | Logic Sheet | FY00 | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 |
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| T1412JS5A1 | 50 | 31MAR09 | 09JUN09 | 248,577.86 | A7A |
| T1412JS5A2 | 42 | 10APR09 | 09JUN09 | 177,046.81 | A7A |
| T1412JS5A3 | 50 | 31MAR09 | 09JUN09 | 251,929.50 | A7A |
| T1412JS5A4 | 42 | 10APR09 | 09JUN09 | 223,236.35 | A7A |
| T1412JS5B1 | 42 | 24APR09 | 23JUN09 | 18,419.64 | A7A |
| T1412JS5B2 | 62 | 24JUL09 | 20OCT09 | 192,022.28 | A7A |
| T1412JS5C | 21 | 22SEP09 | 20OCT09 | 0.00 | A7A |
| T1412JS5D0 | 53 | 19SEP09 | 18DEC08 | 74,692.59 | A7A |
| T1412JS5D2 | 42 | 23JUL09 | 21SEP09 | 214,985.70 | A7A |
| T1412JS5D2 | 21 | 22SEP09 | 20OCT09 | 26,163.75 | A7A |
| T1412JS5E | 30 | 20JUN09 | 22JUL09 | 48,354.77 | A7A |
| T1412JS5F1 | 60 | 17MAR09 | 09JUN09 | 0.00 | A7A |
| T1412JS5F2 | 50 | 31MAR09 | 09JUN09 | 0.00 | A7A |
| T1412JS5G | 0 | 20OCT09 | 20OCT09 | 0.00 | A7A |

120 J78 Part Contl SSR SAN MuRsr Sys less Mixer Pumps

| Activity | ID      | Orig | Early Start | Early Finish | Budgeted Cost | Logic Sheet | FY00 | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 |
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| T1412J76A | 15 | 25JAN10 | 09FEB10 | 63,962.25 | A7A |
| T1412J76B | 16 | 25JAN10 | 02FEB10 | 105,680.25 | A7A |
| T1412J76C | 5 | 03FEB10 | 09FEB10 | 36,245.12 | A7A |

120 J75 Prog CD-4 Appr SAN Sys less Mixer Pumps

| Activity | ID      | Orig | Early Start | Early Finish | Budgeted Cost | Logic Sheet | FY00 | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 |
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| T1412J75A | 15 | 10FEB10 | 03MAR10 | 0.00 | A7A |

120 J83 Mgmt Self Asmt SAN Sys less Mixer Pumps

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120 J25 Prepare Process Control Plan for AN103

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| T1413J25A | 30 | 03JAN03 | 13FEB03 | 45,397.14 | A7A |

Design Turnover to Startup

Construction Turnover to Operations

Prepare New Operating Procedure AN-103

Prepare New Maintenance Proc AN-103

Prep Proc Chg Auth (PCA) Ops AN-103

Prep Proc Chg Auth (PCA) - Maint AN-103

Start Startup Op Training Matu AN-103

Part Startup Operational Training AN-103

Perform Drills AN-103

Prep Operational Test Procedures AN-103

Perform Rcd Operational Tests for AN-103

Prep Operational Test Report for AN-103

Perform PM Routines AN-103

Prep AB Envirnmtl Compl HW Mntx AN-103

Prep AB Envirnmtl Compl Ops Mntx AN-103

Complete ARU Checklist

Perform Constr SSR for Tank AN-103 (Less Mixer)

Provide Tech/Admn SSR Suppl AN-103 (Less Mixer)

Closeout SSR Comments Tank AN-103 (Less Mixer)

Provide CD-4 Approval AN-103 (Less Mixer Prep)

Develop Startup Notification Report AN-103

Develop Plan of Action (POA) AN-103

Develop Facility Plant Readiness Plan AN-103

Conduct Plant Readiness Mgmt Self Asmt AN-103

Prepare Draft PCP AN-103
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**Overview:**
- Review/Comment/Scoping Comments/Issue PCP AN-103
- Prepare ECNs and Revise PCP AN-103

**Supplementary Note:**
- Prep and Issue Process Evaluation Report AN-103
### TW01: Tank Waste Characterization

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#### 100.285 Samples/Unit: 3 AN Samples per LAW Field Cert DDO: 3AN

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120J86 Design AN-103 by Decant 1st Batch AN-103 to AN-102

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150J25 Prov AN-103 Feed Batches (AN-103) to DOE-ORP

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150J30 Provide Approval to Deliver LAW Feed Batch #12

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150J35 Divt 1st Batch AN-103 Feed AN-102 to BNL Feed

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158J35 Design AN-103 Feed Batches (AN-103) to DOE-ORP

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155J35 Provide Approval to Deliver LAW Feed Batch #13

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155J35 Design 2nd Batch AN-103 Feed AN-102 to BNL Feed

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Construction Turnover to Operations

Prep Proc Chg Auth (PCA) Process Op AN-103 Mix

Prep Proc Chg Auth (PCA) Process - Maint AN-103

Prepare Start Up Training Mats AN-103 Mixer

Perform Operational Test Proc AN-103 Mixer

Perform Op Test Report for AN-103 Mixer

Perform PM Routines AN-103 Mixer

Complete AUH Checklist

Complete AN-103

PCA: AN-103 to AN-102

Xfer 350Gt Gallons Feed from AN-103 to AN-102

Backfill AN-103 with 150Gt Gallons Dilution Water

Draft Transml Ltr to DOE-ORP for AN-103

Obtain CHG Appr for Transml Ltrs AN-103

Provide Approval to Xfer AN-103 Feed Batch 1

PCA LAW Transfer Procedure AN-102 to BNL

Xfer: AN-103 Feed AN-102 to BNL

Part Mixing Operation Remaining Feed AN-103

Draft Transml Ltr to DOE-ORP for AN-103

Obtain CHG Appr for Transml Ltrs AN-103

Complete AN-103

Provide Approval to Xfer AN-103 Feed Batch 2

PCA LAW Transfer Procedure AN-103 to BNL

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Preheat 12th LAW Feed Batch (AN-103 2nd)  
Vitrify 13th LAW Feed Batch (AN-103 2nd)  
Complete AN-103
### TW01 Tank Waste Characterization

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**120.050 Design AW-101 Mixing & Rear System:**

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**W-521 - Design Retrieval System Tank AW-101**

**120.053 Construct AW-101 Mixing & Rear Sys less Mixer Pumps**

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### 150.020 Perform SSRs  LAW MSR/Shale Sys less Mixer Pumps

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**TW01 Tank Waste Characterization**

- Write Grab TSAP-AW-105 (AW-101)
- Plan/Schedule/Maint for Grab-AW-105 (AW-101)
- Accept 5 Ltr Grab Sample-AW-105 (AW-101)
- Grab Sample Analysis-AW-105 (AW-101)
- Issue Grab Data Report-AW-105 (AW-101)

**TW04 Retrieval**

**12609 Install AW-101 Noor Pump & Related Systems**

- Prep CWP/JCS Equip. Removal Work Packages
- Stage Equipment at Cold Test Facility
- Perform Equipment Preventive Maint
- Training at CTF
- Modify CTF for Training
- Ops Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove Thermocouple Tree with F/R
- Remove Removal Equipment
- Install Shield Plug
- Transport TIC to Disposal
- Weld End Cap
- Grout Container
- Ops Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove MIT with F/R

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### Diagram: Process Flow

- **Design Turnover to Startup**
  - Construction Turnover to Operations
  - Prepare New Maintenance Procedure AW-101 Mix
  - Prep Startup Op Training Mats AW-101 Mixer
  - Prep Startup Operational Training AW-101 Mixer
  - Prepare Operational Test Pced AW-101 Mixer
  - Perform Req'd Op Tests for AW-101 Mixer
  - Prepare Op Test Report for AW-101 Mixer
  - Prepop PM Routimes AW-101 Mixer
- **Complete SB Checklist**
- **Complete AW-101**

### Notes:
- PCA: AW-101 to AN-105
- Xer 500k Gallons Feed from AW-101 to AN-105
- Backfill AW-101 with 15% of Dilution Water
- Draft Transm Ltr Data to DOE-ORP for AW-101
- Obtain CHG Appr for Transm Ltr AW-101
- Provide Approval to Xhr AW-101 Feed
- PCA LAW Transfer Procedure AW-105 to BMFL
- Xhr Wst: AW-101 Feed from AW-105 to BMFL
- Mix Remaining AW-101 Feed
- Draft Transm Ltr Data to DOE-ORP for AW-101
- Obtain CHG Appr for Transm Ltrs AW-101
- Complete AW-101
- Provide Approval to Xhr AW-101 Feed Batch 1
- PCA LAW Transfer Procedure AW-101 to BMFL
- Xhr Wst: AW-101 Feed from AW-101 to BMFL

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**Sheet 150 of 408**
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### TW04 Retrieval

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### W-258 Start Up AW-104 Mixing Retr System

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### W-257 Perf Contractor Sidle Startup Review for AW-104

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### W-259 Perf Harvest Self-Assess for AW Mixing Retr Sys

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**130.025 Prepare Process Control Plan for AW-104**

- T413W05A 20 | 16JAN09 | 27FEB09 | 28,807.97 | B1A |
- T413W05D 22 | 02MAR09 | 31MAR09 | 33,948.89 | B1A |
- T413W05E 20 | 01APR09 | 28APR09 | 8,480.16  | B1A |
- T413W05E 40 | 29APR09 | 34JUN09 | 17,718.00 | B1A |

- Prepare Draft PCP AW-104
- Review/Comment/Incorporate Comments/Issue PCP AW-104
- Prepare ECNs and Revise PCP AW-104
- Prep and Issue Process Evaluation Report AW-104

- Develop Plan of Action (POA) AW-104
- **Develop Facility Plant Readiness Plan AW-104**
- Conduct Plant Readiness Mgmt Self Assess AW-104
### TW01 Tank Waste Characterization

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- Write Grab TSAP-AP-104 (AW-104)
- Plan/Submit Material for Grab-AP-104 (AW-104)
- Acquire 5 Litre Grab Sample-AP-104 (AW-104)
- Grab Sample Analysis-AP-104 (AW-104)
- Issue Grab Data Report-AP-104 (AW-104)
- Ship Hedgehog Liquid, Grab-AP-104 (AW-104)

### TW04 Retrieval

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- PCA LAW Transfer Procedure for AW-104 to AP-104
- Backfill AW-104 with Dilution Water
- Perfo Mixing Operation on AW-104 Feed in AP-104
- Draft Transfile Lit Data to DOE-ORP for AW-104
- Obtain CHG Appr for Transfile Lit AW-104
- Complete AW-104 (LAW)
- Provide Approval to Xiv AW-104 Feed (16th Batch)
- PCA LAW Transfer Procedure AP-104 to BNFL
- Prefit 16th LAW Feed Batch (AW-104 LAW)
- Prefit 16th LAW Feed Batch (AW-104 LAW)
- Complete AW-104 (LAW)

### TW05 Privatization Phase 1

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- Complete AW-104 (LAW)
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**TW01 Tank Waste Characterization**

- Core Dome Loading-SY-103
- Core Profile/TSAP-SY-103
- Plan/Schedule material, Core-SY-163
- Plan/Schedule material, Core-SY-163
- Acquire Core Sample-SY-103
- Acquire Core Sample-SY-103
- Core Sample Analysis-SY-103
- Core Sample Analysis-SY-103
- Core Data Report-SY-103

**TW04 Retrieval**

- Write Dilution and Dissolution Test Plan SY-103
- Conduct 3-SY Dilution and Dissolution Test
- Analyze Sample from 3-SY Dilution/Dissolution Tests
- Write/Rev/Approve/Issue 3-SY Dilu/Dissol Test Rpt

**120.110 Est Dilution Formuls/Dissolution Behav for SY-103**

- T412T19A  21  02OCT99  30OCT99  7,213.40  B2A
- T412T19C  126  31OCT99  02MAY02  37,314.60  B2A
- T412T19D  118  14NOV01  02MAY02  124,007.50  B2A
- T412T19E  42  03MAY02  02JUL02  23,334.42  B2A

**120.760 Design SY-103 Mixing & Fair Sys/Def CD 3**

- T412T25A  377  16JUL97  15JAN98  2,827,300.00  B2A

**120.132 Procure Equipment for SY-103 Mixing & Fair Sys**

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- T412T2002  376  12NOV97  13MAY98  0.00  B2A
- T412T2007  376  12NOV97  13MAY98  0.00  B2A
- T412T2008  199  12NOV97  28AUG98  0.00  B2A
- T412T2009  152  12NOV97  19JUN08  0.00  B2A
- T412T2010  149  12NOV97  16JUN08  0.00  B2A
- T412T2011  152  12NOV97  19JUN08  0.00  B2A
- T412T2012  152  12NOV97  19JUN08  0.00  B2A
- T412T2013  152  12NOV97  19JUN08  0.00  B2A
- T412T2014  140  12NOV97  16JUN08  0.00  B2A
- T412T2015  149  12NOV97  16JUN08  0.00  B2A
- T412T2016  149  12NOV97  16JUN08  0.00  B2A
- T412T2017  126  12NOV97  13MAY08  0.00  B2A
- T412T2018  149  12NOV97  16JUN08  0.00  B2A
- T412T2019  85  12NOV97  17MAR08  0.00  B2A

**W-591 Design Retrieval System Tank SY-103**

- Transfer Pumps
- Meter Pumps
- Mixer Pumps, YDs
- Purge Panel for CCTV
- LCOE, Burial Containers (3)
- I&C Enclosures (1 set)
- Retrieval Control System Modification
- LCOE, Removal Equip/Stel Frames
- Flx Rec Mods/Parts/Rags
- Mixer Pump Spray Rings & Riser Extensions
- Impact Limiters (1) - Verify use of Existing
- Electric Cable Support Frames (2)
- Service Water Enclosure
- CCTV, Multiprint Adapter
- PL Cover Blocks

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Title III Engineering

Mobilize

Greenhouse Support

Gen Resp/ Tech Serv/ Xtrm Pads/ New Hires/ OT A

Project Support

Prep CPR/UCS Equip. Removal Work Packages

Stage Equipment at Cold Test Facility

Perform Equipment Preventive Maint

Training at CTF

Modify CTF for Training

Stage Crane Pit 03A

Prep Cover Blocks for Removal

Staff Pit Prior to Cover block Removal

Remove Cover Blocks Pit 03A

Remove Jumpers and Prep for Storage

Wrap and Stage Cover Blocks for Bural

Install Vapor Seals

Install Removal Equipment - 42" Flex Rec

Remove Transfer Pump With F/R

Install Depth Verification Plug

Transport Pump to Disposal

Depth Verification

Remove Depth Plug & Install Shield Plug

Install Temporary Cover Blocks

Weld Container End Cap

Ops Review and Release Package to Field

Grout Container

Rebuild Nozzle Configuration for Jumper Fab

Remove Removal Equipment

Remove Jumpers & Prep for Storage

Install Vapor Seals

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- Remove Shiny Distributor
- Install Temp 42" Shield Plug
- Transport Slurry Distrub to Disposal
- Ops Review and Release Package to Field
- Ops Review and Release Package to Field
- Install Removal Equipment - 8" Flex Rec
- Remove Thermocouple Tree with FFR
- Remove Removal Equipment
- Install Shield Plug
- Transport T/C to Disposal
- Weld End Cap
- Grout Container
- Ops Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
- Remove MIT with FFR
- Remove Removal Equipment
- Install Flange Cover
- Transport MIT to Disposal
- Weld End Cap
- Grout Container
- Ops Review and Release Package to Field
- Remove Multi-Poart Adapter from 42" Riser
- Remove CCTV Camera & Store
- Install Temp Shield Plug
- Scan for Excavation permit
- Generate Excavation Permit
- Ops Review and Release Package to Field
- Prep CWPUJC Work Package
- Survey Location for Excavation
- Op's Lock Out of Required Systems
- Mobilize Excavation Equipment
- Exc for 1/2" SW-#80
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**120.T80 Startup and Test SY-103 Molding/Heating System**

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- **T412160A09**
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- **T412160A1**
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  - Early Finish: 14SEP10
  - Budgeted Cost: 246,577.88
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- **T412160A2**
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  - Early Finish: 14SEP10
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- **T412160A3**
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  - Early Finish: 14SEP10
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  - Logic Sheet: B2A

- **T412160A4**
  - Early Start: 18JUL10
  - Early Finish: 14SEP10
  - Budgeted Cost: 25,236.35
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- **T412160B1**
  - Early Start: 30JUL10
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- **T412160B2**
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  - Budgeted Cost: 117,756.66
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- **T412160D2**
  - Early Start: 27OCT10
  - Early Finish: 13APR10
  - Budgeted Cost: 399,490.85
  - Logic Sheet: B2A

- **T412160D3**
  - Early Start: 30JUL10
  - Early Finish: 28JAN11
  - Budgeted Cost: 42,167.25
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  - Early Finish: 28OCT10
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- **T412160F1**
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  - Early Finish: 14SEP10
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- **T412160F2**
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  - Early Finish: 14SEP10
  - Budgeted Cost: 80,853.96
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**120.T70 Perf Contractor Std Startup Review for SY-103**

- **T412170A**
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  - Early Finish: 18FEB11
  - Budgeted Cost: 63,902.29
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- **T412170B**
  - Early Start: 31JAN11
  - Early Finish: 11FEB11
  - Budgeted Cost: 105,860.20
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- **T412170C**
  - Early Start: 14FEB11
  - Early Finish: 18FEB11
  - Budgeted Cost: 36,245.12
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**120.T75 Provide CD-4 Approval for SY-103**

- **T412175A**
  - Early Start: 22FEB11
  - Early Finish: 14MAR11
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- **T412175A09**
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**120.T83 Perf Mgmt Self-Assmt for SY-103 Molding/Heating Sys**

- **T412183A**
  - Early Start: 26JAN10
  - Early Finish: 30MAR10
  - Budgeted Cost: 21,248.79
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- **T412183B**
  - Early Start: 31MAR10
  - Early Finish: 25May10
  - Budgeted Cost: 10,864.64
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- **T412183D**
  - Early Start: 28MAY10
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- **T412183E**
  - Early Start: 20JUL10
  - Early Finish: 28JAN11
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**120.T76 Prepare Process Control Plan for SY-103**

- **T412185A**
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  - Early Finish: 25FEB09
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- **T412185B**
  - Early Start: 22FEB09
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- **T412185D**
  - Early Start: 20MAR09
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**120.T91 Construct Retrieval System Tank SY-103**

- **Start Construction**
  - Construction Complete

- **Design Turnover to Startup**
  - Construction Turnover to Operations
    - Prepare New Operating Procedure SY-103
    - Prepare New Maintenance Procedure SY-103
    - Prep Proc Chg Auth (PCA) Process for Op SY-103
    - Prep Proc Chg Auth (PCA) Process - Maint SY-103
    - Prep Startup Operational Training Matrix SY-103
    - Prep Startup Operational Training SY-103
    - Perform Drills SY-103
  - Prepare Operational Test Procedures SY-103
    - Perform R/O'd Operational Tests for SY-103
    - Prepare Operational Test Report for SY-103
    - Perform PM Routines SY-103
    - Prep All Environmental Compl Hardware Matrix SY-103
    - Prep All Environmental Compl Ops Matrix SY-103
    - Complete ABU Checklist SY-103
  - Perform Cont. SSR for Tank SY-103
    - Provide Tech Admin SSR Suppl Tank SY-103
    - Closeout SSR Comments Tank SY-103
  - Provide CD-4 Approval for Tank SY-103
    - Complete SY-103
  - Develop Startup Notification Report SY-103
    - Develop Plan of Action (POA) SY-103
    - Develop Facility Plant Readiness Plan SY-103
    - Conduct Plant Readiness Mgmt Self Assmt SY-103
  - Prepare Draft PCP SY-103
  - Review/Comment/Approve Comments/Assue PCP SY-103
  - Prepare ECNs and Revise PCP SY-103
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### TW04 Retrieval

**120.C10** Ext Dilution Tanks/Decantation Tanks for AP-108

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### D20.243 Perform Conceptual Design for W-522 Retrieval Sys

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**195.C58 Design AP-108 Mixing & Retrieval Sys/Off CD-3**

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**W-522 - Procure Retrieval System Tank AP-106**

- Start Procurement AP-106
- AP-106 Equipment Procurement
- W-522 - Procure Retrieval System Tank AP-106

**W-521 - Complete Retrieval System Tank AP-108**

- Provide CD-1 Approval for Project W-522

**190.C40: Startup and Test AP-108 Mixing Rail System**

- Design Turnover to Startup
  - Construction Turnover to Operations
    - Prepare New Operating Procedure AP-106
    - Prepare New Maintenance Procedure AP-106
    - Prep Proc Chg Auth (PCA) Process - Maint AP-106
    - Prep Startup Operational Training Matrix AP-106
    - Prep Startup Operational Training AP-106
    - Perform Drills AP-106
  - Prepare Operational Test Procedures AP-106
    - Perform Rig'd Operational Tests for AP-106
    - Prepare Operational Test Report for AP-106
    - Perform PM Routines AP-106
    - Prep All Equipment Compl Hardware Master AP-106

Sheet 167 of 408
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120.067 Provide Validation of W-522 Critical Decision 2

120.070 Part 1 Contractor Std Startup Review for AP-106

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120.076 Provide CD-4 Approval for AP-106

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120.043 Part Mgmt Self-Asmt for AP-106 Blowing Off Sys

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120.055 Prepare Process Control Plan for AP-106

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Sheet 160 of 408
## B4A LAW Ph 1 Ext Order Th 4 - S-102, Sh 1

### TW01 Tank Waste Characterization

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#### Activity Details
- Core Sample Analysis-S-102
- Shop PAS Cask Solid, Core-S-102

### TW04 Retrieval

#### Activity Details
- Write Grab TSAP-S-102
- Plan/Schedule/Ma/S for Grab-S-102
- Acquire 1 Litre Grab Sample S-102
- Grab Sample Analysis-S-102
- Issue Grab Data Report-S-102

#### 12.2.10 Ext Dilution Rate/Dissolution Behavior for S-102

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#### Activity Details
- Prep S Tank Farm Component/Function Verif Plan
- Verify Field Conditions and Functionality
- Prep S Tank Farm Component/Functionality Report
- Prep Definition & Scope for Rev/Rev Proj S Farm
- Perform S Farm Trade Studies

### 290.250 Design S-102 Retrieval System & Obtain CD-3

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- W-522: Design Retrieval System Tank S-102

### 290.250A Procure Equipment for S-102 Retrieval System

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#### Activity Details
- W-522: Procure Retrieval System Tank S-102

### 290.250 Compress Upgrade Existing S Tank Farm Systems

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#### Activity Details
- Repair/Upgrade Juniper Plut for S Farm Transfers
- Repair/Upgrade HAVOC for S Farm Transfers
- Repair/Upgrade Misc. Correction for S Farm Transfer
- Complete S-Farm Upgrades

### 290.250A Construct S-102 Retrieval System

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#### Activity Details
- Design Turnover to Startup
- Construction Turnover to Operations

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**240.27** Perf Contractor Bid & Startup Report for S-102
- T4327DA | 15 | 07FEB12 | 28FEB12 | 63,802.29 | BAA |
- T4327DB | 10 | 07FEB12 | 21FEB12 | 103,890.20 | BAA |
- T4327DC | 5 | 22FEB12 | 28FEB12 | 36,245.12 | BAA |

**240.27** Provide CD-4 Approval for S-102
- T43277SA | 15 | 29FEB12 | 20MAR12 | 0.00 | BAA |

**240.23** Perf Mgmt Self-Assessment for S-102 Rev 3
- T43295DA | 45 | 02FEB11 | 06APR11 | 21,248.70 | BAA |
- T43295DB | 40 | 07APR11 | 02JUN11 | 10,804.64 | BAA |
- T43295DC | 26 | 03JUN11 | 15JUL11 | 38,951.01 | BAA |
- T43295DE | 50 | 09NOV11 | 08FEB12 | 170,733.08 | BAA |

**240.25** Prepare Process Control Plan for S-102
- T43225A | 30 | 21SEP09 | 30OCT09 | 45,387.14 | BAA |
- T43225B | 22 | 02NOV09 | 03DEC09 | 57,899.38 | BAA |
- T43225C | 20 | 04DEC09 | 05JAN10 | 10,978.31 | BAA |
- T43225E | 40 | 01SEP11 | 27OCT16 | 35,431.99 | BAA |

**240.26** Relate S-102 into S-103
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- T43226AAM | 0 | 11FEB13 | 0.00 | BAA |
- T43226AD | 15 | 02APR13 | 22APR13 | 274,593.68 | BAA |
- T43226AC | 15 | 23APR13 | 13MAY13 | 274,593.68 | BAA |
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300,234 Perform S-102 Insulation Prevention

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- Prepare Pump Piping Insulation Design ECN S-102
- Prepare/Review/Release Work Package S-102
- Stage Insulation Equipment in Tank Farm S-102
- Perform Insulation Field Work S-102
- Complete Piping Insulation Documentation S-102

Sheet 174 of 408
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**TW01 Tank Waste Characterization**

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**TW08 Privatization Phase 1**

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**Sheet 175 of 408**
### TW01 Tank Waste Characterization

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### TW04 Retrieval

#### 128110 Ext Dilution Rates/Dissolution Behavior for S-105

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### TW05 Design S-105 Retrieval System & Obtain Corrosion Data

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### TW05 Procure Equipment for S-105 Retrieval System

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### TW05 Startup and Test S-105 Retrieval System

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200.170: Perform Contractor Std Startup Review for S-105
- Perform SSR Operational Test; S-105
- Prepare Operational Test Report for S-105
- Perform PM Routine; S-105
- Prep Adv Environ'tl Comp'l Hardware Matrix S-105
- Prep Adv Environmental Comp'l Ops Matrix S-105
- Complete ABU Checklist; S-105

200.171: Provide CD-4 Approval for S-105
- Perform SSR for Tank S-105
- Provide Tech/Admin SSR Supp't Tank S-105
- Closeout SSR Comments Tank S-105
- Provide CD-4 Approval for Tank S-105

200.183: Perform Mgmt Self-Assessment for S-105 Bst Sys
- Develop Startup Notification Report S-105
- Develop Plan of Action (POA) S-105
- Develop Facility Plant Readiness Plan S-105
- Conduct Plant Readiness Mgmt Self-Assmt S-105

300.243: Prepare Process Control Plan for S-105
- Prepare Draft PCP S-105
- Review/Comment/Incorporate/Issue PCP S-105
- Prepare ECNs and Revise PCP S-105
- Prep and Issue Process Evaluation Report S-105

300.29: Refile S-105 into SY-105
- Perf Purf/Mon/Post Sluice Ops S105-SY103
- Perf Purf/Mon/Post Sluice Ops S105-SY103
- Perf Purf/Mon/Post Sluice Ops S105-SY103
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**Notes:**
- Write Grab TSAP-AW-101 (S-105)
- Plan/Schedule/Mark for Grab-AW-101 (S-105)
- Acquire 5 Litre Grab Sample AW-101 (S-105)
- Grab Sample Analysis-AW-101 (S-105)
- Issue Grab Data Report-AW-101 (S-105)
- Ship Hedgehog Liquid, Grab-AW-101 (S-105)
- PCA LAW Xtr Procedure from AN-104 to AN-105
- Transfer S-105 Waste from AN-104 to AN-105
- Prep PCA for Cross-Site Xfer SY-103 to AN-104
- Perform Cross-Site Xfer for SY-103 to AN-104
- Mix S-105 Feed in AP-101
- Draft Transm Ltr Data to DOE-DOP for S-105
- Obtain CHG Appr for Transm Ltrs S-105
- Complete S-105
- Provide Approval to Xtr S-105 Feed
- PCA LAW Transfer Procedure AP-101 to BNFL
- Xtr Wat: S-105 Feed from AP-101 to BNFL
- Prefeat 21st LAW Feed Batch (S-105)
- Vitrify 21st LAW Feed Batch (S-105)
- Complete S-105
### TW01 Tank Waste Characterization

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#### 120.H3 Design AP-105 Mixing & Retrieval System

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#### 120.H3 Procure Equipment for AP-105 Mixing & Retrieval Sys

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#### 120.H3 Construct AP-105 Mixing and Retrieval System

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#### 120.H4 Startup and Test AP-105 Mixing & Retrieval System

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**120.570. Perf Contractor Std Startup Review for AP-105**

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**120.575. Provide CD-4 Approval for AP-105**

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**120.583. Perf Mgmt Self-Assmt for AP-105 Mung Mng Sys**

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**120.525. Prepare Process Control Plan for AP-105**

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**Construction Turnover to Operations**
- Prepare New Operating Procedure AP-105
- Prepare New Maintenance Procedure AP-105
- Prep Proc Chg Auth (PCA) Process for Op AP-105
- Prep Proc Chg Auth (PCA) Process - Maint AP-105
- Prep Startup Operational Training Mats AP-105
- Prep Startup Operational Training AP-105
- Perform Drills AP-105
- Prepare Operational Test Procedures AP-105
- Perform Req'd Operational Tests for AP-105
- Prepare Operational Test Report for AP-105
- Perform PM Routines AP-105
- Prep AB Environmental Comp. Hardware Matrix AP-105
- Prep AB Environmental Comp. Ops Matrix AP-105
  - Complete ABU Checklist AP-105
  - Perform Cont SSR for Tank AP-105
  - Provide Tech/Admin SSR Suppl Tank AP-105
  - Closeout SSR Comments Tank AP-105
  - Provide CD-4 Approval for Tank AP-105
  - Complete AP-105
  - Develop Startup Notification Report AP-105
  - Develop Plan of Action (POA) AP-105
  - Develop Facility Plant Readiness Plan AP-105
  - Conduct Plant Readiness Mgmt Self Assmt AP-105
  - Prepare Draft PCP AP-105
  - Review/Comment/Incorp Comments/Tissue PCP AP-105
  - Prepare ECI's and Revise PCP AP-105
  - Prep & Issue Process Evaluation Report AP-105
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PCA LAW Transfer Procedure AP-105 to BNFL Facility

Xr Wet AP-105 Feed from AP-105 to BNFL Facility

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Vitrify 22nd LAW Feed Batch (AP-105 1st)

Pretreat 23rd LAW Feed Batch (AP-105 2nd)

Vitrify 23rd LAW Feed Batch (AP-105 2nd)

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**$50,235 Startup and Test W-314 Phase 1 AZ TF Upgrades**

- **AZ TF Upgrades - Test/Turnover/Accept - OD**
- **AZ TF Upgrades Test/Turnover/Accept (FY00)**
- **AZ TF Upgrades Test/Turnover/Accept (FY01)**
- **AZ TF Upgrades Test/Turnover/Accept (FY02)**
- **Complete AZ Farm Upgrades**

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AZ - Construction-Phase 2
CD-3 Approval-Phase 2 AZ Farm
AZ - EMI During Construction-Phase 2
AZ - EMI During Construction-Phase 2
AZ - HPT Support-Phase 2
Design - AZ
Pre-Construction Planning - AZ
Procurement - AZ
During Construction - AZ
Start Construction - AZ Farm Phase 2
Complete Const / Acceptance- AZ Farm Phase 2
ECNS
USQs
NCR Resolution
Meetings & Field Support
Update RVR
Prepare ATP's
ATP Test Director
CGL Evaluation
As-Built Verification
AZ Inspection - Title III
AZ Engineering Support - Title III
Technical Procurement
Vapor Space Pressure Measurement
Remove Existing Vapor Pressure Instruments
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Remove Existing Vapor Pressure Instruments
PLC Equipment
Panalrams
242-A DCS
Liquid High Level Probes
Demo Existing Instruments in 271

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- **SW25250B:** Construct W-216 Phase 1 AZ Farm Upgrades (FY01)
- **SW25250C:** Construct W-216 Phase 1 AZ Farm Upgrades (FY02)
- **SW25250D:** Construct W-216 Phase 1 AZ Farm Upgrades (FY00)
- **SW25250E:** Construct W-216 Phase 1 AZ Farm Upgrades (FY00)
- **SW25250F:** Construct W-216 Phase 1 AZ Farm Upgrades (FY00)
- **SW25250G:** Construct W-216 Phase 1 AZ Farm Upgrades (FY00)
- **SW25250H:** Construct W-216 Phase 1 AZ Farm Upgrades (FY00)
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- ELECTRICAL/CONTINUITY TESTING 91A
- FUNCTIONAL TEST LD 309
- LEAK DETECTION ATP LD 309 01A
- LEAK DETECTION ATP REWORK
- LEAK DETECTION OTP LD 309
- JCS XX-XX-XXXXX 62A Cover Block Mods
- JCS-XX-XX-XXXXX 62A Cover Block Mods
- Setup Weather Enclosure For Cover Blocks
- Assemble Containment Tent
- MOB 110 TON CRANE
- PREP STENCILS FOR GRAPHICS
- MOB BURIAL BOXES
- Place Containment Tent Over Pit
- Construct Ante Room & Catwalks
- PREP COVER BLOCKS FOR REMOVAL
- POWER WASH & SPRAY FIXATIVE
- PULL COVER BLOCKS
- MAP PIT (HPT)
- DECON COVER BLOCKS
- SETUP COVER BLOCK CRIBBING
- Scan Cover Blocks
- DEMOB 110 TON CRANE
- CORE DRILL COVER BLOCKS
- ENGINEERING EVALUATION OF CORE DRILLS
- INSTALL PENETRATION SLEEVES
- COAT COVER BLOCKS
- PAINT ON COVER BLOCKS
- CWP-XX-XX 62A Pit Mechanical
- CWP-JX-EXXXXXX 62A Pit Mechanical
- EXCAVATE FOR CORE DRILLS

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- **JCS XX-XX-XXXXX 3" Drain Pipe Installation**
- **CWP-XX-XX 2" Drain PIPE INSTALLATION**
- **Position Spools on Pipe Supports**
- **Flip Weld & NDE 3" Pipe**
- **Install Encasement Test/ID Riser**
- **Mechanically Clean 3" Pipe**
- **HYDROTEST 3" & BLOWDOWN PIPE**
- **Flip, Weld & NDE 6" Pipe**
- **Mechanically Clean 6" Pipe**
- **Pneumatic Test 8" Pipe**
- **Survey Pipe Location for Line & Grade**
- **Coat 6" Pipe Weldment Areas with SPC**
- **Survey/Scan Conduit Excavation**
- **Obtain Excavation Permit**
- **Install Jumper LDE-101-20**
- **Assemble Shield Walls & Mirrors**
- **Install UI15A Drain Jumper**
- **LEAK DETECTION ATP LD 307**
- **LEAK DETECTION OTP (LD 307 62A)**
- **Install Lock & Tag**
- **Install Jumper LDE-162-20**
- **Release ECN 4D-002 SN-247 Pipe Sleeve (ON HOLD)**
- **Procure Parts**
- **JCS XX-XX-XXXXX SN-247 Pipe Sleeve/Shoring Instll**
- **JCS XX-XX-XXXXX Pot Holing**
- **CWP XX-XXX Pipe Sleeve/Shoring Install**
- **CWP XX-XXX Pot Holing**
- **Obtain Excavation Permit**
- **Perform Scanning of Raw Water Line**
- **Produce Composite Map**
- **Perform Pot Holing**
- **Obtain Excavation Permit (Pot Holing)**
- **Excavate 4" Raw Water Line**
- **Excavate SN-432/Drain Line**
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200.215: Startup and Test. W-314 Phase 2 AZ Farm Upgrade

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SWZK3E3A8  | 30  | 10JUL02 | 20AUG02 | 0.00        | C1A |
SWZ3M3E3AE | 182 | 15APR02 | 03JAN03 | 0.00        | C1A |

TW04 Retrieval


T411045A | 82  | 01OCT09 | 03JAN09 | 288,410.24 | C1A |
T411045B | 84  | 01OCT09 | 02FEB09 | 281,057.47 | C1A |

119.055: Perform Independent Ready Asmt. 1AE Process Test

T411095A | 20  | 22MAY00 | 19JUN00 | 128,446.10 | C1A |
T411095B | 10  | 22MAY00 | 05JUN00 | 103,899.80 | C1A |
T411095C | 10  | 04JUN00 | 19JUN00 | 36,189.46  | C1A |

119.065: Perform AZ-101 Process Test

T411055A | 45  | 01OCT09 | 04DEC09 | 23,539.80  | C1A |
T411055B | 46  | 01OCT09 | 04DEC09 | 23,539.80  | C1A |
T411055D | 30  | 01OCT09 | 11NOV09 | 30,359.13  | C1A |
T411055E | 60  | 23FEB09 | 18MAY09 | 379,030.30 | C1A |

119.075: Perform AZ-101 Process Test

T411070A | 20  | 15JUN00 | 15JUL00 | 687,089.81 | C1A |
T411070B | 0   | 24SEP00 | 24SEP00 | 0.00        | C1A |

119.095: Perform AZ-101 Suspension and Setting Test

T411075A | 52  | 16JUL00 | 29SEP00 | 18,564.48  | C1A |
T411075B | 199 | 03OCT00 | 17JUL01 | 71,046.90  | C1A |

119.096: Prepare AZ-101 Process Test Report

T411090A | 11  | 02OCT00 | 18OCT00 | 23,751.70  | C1A |
T411090B | 60  | 23APR01 | 17JUL01 | 170,303.09 | C1A |

119.098: Inspect and Test Monitoring Equipment in AZ-101

T411095A | 38  | 32DEC09 | 03FEB09 | 15,029.18  | C1A |

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120.403 Verify AZ TF Sys/Components Functional

- Verify AZ Sys & Comps Functional - New Term

120.404 Perform Acquisition Strategy for AZ Tank Farm

- Perform AZ Tank Farm Trade Studies

120.405 Perform AZ Tank Farm Trade Studies

- Perform AZ Tank Farm Trade Studies

180.014 Develop and Test Technical Safety Reports (TSRs)

- Identification of Engineering Baseline
- Review and Evaluation of Existing TSRs
- Development and Revision of TSRs

180.018 Update or Amend Authorization Basis for DST

- Review Hazards Anal to Include New DSTs
- Prepare Revision to FSAR & TSRs
- Perform NSML Qual & Tech Peer Review
- Perform Tier 1 Review
- Prepare Licensing Strategy
- Perform Tier 2 Review and SER
- Revise & Issue FSAR & TSRs

180.019 Issue Critically Sfty Eval Report for DST Rev

- Review DST Tech Baseline & Review Against T1-T57
- Criticality Accidents & Eval Mech & Phenomena
- Perform Neutrons & Physics Evaluation
- Develop, Approve & Issue CSER & CPS

180.025 PPP Mgmt Assmt Draft Ready Supply HLW FB - BNL

- Develop Plan of Action (POA) HLW
- Develop Facility Plant Readiness Plan HLW
- Conduct Plant Readiness Mgmt Self Assmt HLW

190.022 Prepare Process Control Plan for AZ-101

- Prepare Draft PCCP AZ-101
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**160.A3E Startup and Test AZ-101 Mixing/Heating System**

- **Design Turnover to Startup**
  - Construction Turnover to Operations
    - Prepare New Operating Procedure AZ-101
    - Prepare New Maintenance Procedure AZ-101
    - Prep Proc Chg Auth (PCA) Process - Maint AZ-101
    - Prep Startup Operational Training Needs AZ-101
  - Prepare Operational Test Procedures AZ-101
    - Perform Reqd Operational Tests for AZ-101
    - Prepare Operational Test Report for AZ-101
    - Perform PM Routines AZ-101
    - Complete ABU Checklist AZ-101

**160.A40 Perf Contractor Independent ORR for AZ-101**

- Perform Cont. Independent ORR for Tank AZ-101
  - Provide Tech/Admin ORR Support Cmt AZ-101
  - Closeout ORR Comments Tank AZ-101

**160.A42 Perf DOE-ORR ORR/DOC CTD AZ-101**

- Perform DOE ORR for Tank AZ-101
  - Provide Tech/Admin DOE ORR Suppt Tank AZ-101
  - Closeout DOE ORR Comments Tank AZ-101
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### 100.A44 Past Conceptual Design for W-521 Piping Systems

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### 100.A46 Prep and Doc AZ-101 Sample Analyses/ Rheology Testing

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### 100.A44 Repatriation Existing ATW Arm/ Eyes Repl Phi Win

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### 100.A45 Comp AZ-101 Xf Sys Prep and Integrated Testing

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### Design Input to Integrated Testing

- SU Turnover to Integrated Testing
  - Prepare New Operating Proc AZ-101 Integ Test
  - Prepare New Maintenance Proc AZ-101 Integ Test

Obtain DOE CD-4 Approval for Tank AZ-101

Complete AZ-101
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**Notes:**
- Develop Startup Notification Report AZ-101
- Develop Plan of Action (POA) AZ-101
- Develop Facility Plant Readiness Plan AZ-101
- Conduct Plant Readiness Mgmt Self Assm AZ-101

**Activities:**
- Prepare Test Procedures AZ-101 Integ Test
- Perform Rgd Op Tests for AZ-101 Integ Test
- Prepare Op Test Report for AZ-101 Integ Test
- Perform PM Routine AZ-101 Integ Test
- Prepare AB Environ Compl Hardware Mte AZ-101 Int T
- Prepare AB Environ Compl Cps Matrix AZ-101 Intg Test
- Complete ABU Checkl AZ-101

**Additional Notes:**
- Provide CO-2 Approval for Project W-521

**Sheet 207 of 408**
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**C1B HLW Ph 1 Tank 1 - AZ-101 Shlt 2**

**TW01 Tank Waste Characterization**

- Core Dome Loading-AZ-101
- Core Profile/TSAF-AZ-101
- Plan/Schedule material, Core-AZ-101
- Core Sample Analysis-AZ-101
- Core Data Report-AZ-101

**100.239 Analyze BNFL Smp 1st Bch HLW DGO A191**

- Sample Analysis-AZ-101
- Chip PAS Cash Liquid, Core-AZ-101

**TW04 Retrieval**

- Prepare HLW Transfer PCA-AZ-101 to BNFL
- Xtr Wst: 1st Bch-AZ-101 to BNFL
- ICD # 25: PHMC TRANSFER HLW FEED BATCH TO BNFL

**100.099 Dow 1st Bch HLW Feed from AZ-101 to BNFL Faci**

- Prepare Transfer PCA-AZ-101 to BNFL
- Xtr Wst: 2nd Bch-AZ-101 to BNFL

**100.080 Dow 2nd Bch HLW Feed from AZ-101 to BNFL Faci**

- Prepare Transfer PCA-AZ-101 to BNFL
- Xtr Wst: 3rd Bch-AZ-101 to BNFL

**100.040 Dow 4th Bch HLW Feed from AZ-101 to BNFL Faci**

- Prepare Transfer PCA-AZ-101 to BNFL
- Xtr Wst: 4th Bch-AZ-101 to BNFL

**100.055 Dow 5th Bch HLW Feed from AZ-101 to BNFL Faci**

- Prepare Transfer PCA-AZ-101 to BNFL
- Xtr Wst: 5th Bch-AZ-101 to BNFL

**100.060 Dow 6th Bch HLW Feed from AZ-101 to BNFL Faci**

- Prepare Transfer PCA-AZ-101 to BNFL
- Xtr Wst: 6th Bch-AZ-101 to BNFL

**100.044 Mix AZ-101 Feed to Suspends Solids**

- Mix AZ-101 Waste to Suspends Solids
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**Provide Approval to Deliver AZ-101 Feed**

- Provide Approval to Deliver AZ-101 Feed

**Draft Transmittal Ltr for AZ-101 Data to DOE-CPR**

- Draft Transmittal Ltr for AZ-101 Data to DOE-CPR

**Obtain CHG Approval for Transmittal Ltr**

- Obtain CHG Approval for Transmittal Ltr

**Complete AZ-101**

- Complete AZ-101

**Treat 1st Batch of HLW Feed from AZ-101**

- Treat 1st Batch of HLW Feed from AZ-101

**Start AZ-101 Treat**

- Start AZ-101 Treat

**Vitrify HLW Feed from AZ-101**

- Vitrify HLW Feed from AZ-101

**Start AZ-101 Vitrification**

- Start AZ-101 Vitrification

**Complete AZ-101**

- Complete AZ-101

**Treat 2nd Batch of HLW Feed from AZ-101**

- Treat 2nd Batch of HLW Feed from AZ-101

**Treat 3rd Batch of HLW Feed from AZ-101**

- Treat 3rd Batch of HLW Feed from AZ-101

**Treat 4th Batch of HLW Feed from AZ-101**

- Treat 4th Batch of HLW Feed from AZ-101

**Treat 5th Batch of HLW Feed from AZ-101**

- Treat 5th Batch of HLW Feed from AZ-101

**Treat 6th Batch of HLW Feed from AZ-101**

- Treat 6th Batch of HLW Feed from AZ-101
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| T41650044  | 8        | 16JAN02     | 25JAN02      | 0.00          | C2A         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| T41650049  | 2        | 28JAN02     | 29JAN02      | 0.00          | C2A         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| T41650054  | 44       | 13FEBO2     | 15FEB02      | 0.00          | C2A         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
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| T41650068  | 20       | 22FEB02     | 21MAR02      | 0.00          | C2A         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
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- **Fabricated Nitrogen Racks**
- **Form/Rebar/Pour Nitrogen Rack Pads**
- **Nitrogen Hose Installation**
- **Install Tubing Hangers To Inst. Air/Purge Line**
- **Complete Backfill**
- **Stabilization**
- **De-Mobilization**
- **Package Prep and Pre-Fabrication**
- **Fab 3" PW"**
- **Fab 3" PW" Place Timbers in Trench**
- **3" PW" Rig Pipe in Trench**
- **3" PW" Weld Out Primary Pipe**
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**Legend:**
- **C2A**: Install AZ102-2771 (Mini Power Center)
- **C3A**: Install AZ102 (777) (MP-1 Terminal Box)
- **C4A**: Install AZ102 (777) (MP-1 Switch)
- **C5A**: Install AZ102 (777) (MP-1 TrmTab Switch)
- **C6A**: Install AZ102 (777) (MP-2 Terminal Box)
- **C7A**: Install AZ102 (777) (MP-2 Switch)
- **C8A**: Install AZ102 (777) (MP-2 TrmTab Switch)
- **C9A**: Install AZ202A (777) (TP-022) (TP-022 Terminal Box)
- **C10A**: Install AZ132A (777) (TP-022) (TP-022 Switch)
- **C11A**: Install AZ202A (777) (Seal Gas Cntlt Panel)
- **C12A**: Install AZ202A (777) (TP Winch Cntlt Panel)
- **C13A**: Install AZ202A (777) (TP Winch Switch)
- **C14A**: Install ANVPA-WT-ENCLO-102 (Press Switch EncI)
- **C15A**: Excavate Elec Cable Trenches
- **C16A**: Run Elec Cables AZ-156 to Farm
- **C17A**: Terminate Wires (In-Farm Equip/FFIs)
- **C18A**: Continuity Testing
- **C19A**: Complete Backfill Riser Ext - Riser (XXX)
- **C20A**: Fab/Furn J-Boxes/Term Boxes for AZ-156 Equip
- **C21A**: Install J-Boxes/Term Boxes in AZ-156
- **C22A**: Install Vendor Furnished Elec Equip (VFDs)
- **C23A**: Run Conduits
- **C24A**: Pull Cables & Armored Cable
- **C25A**: Terminate Wires
- **C26A**: Continuity Testing
- **C27A**: In-Tank Equipment Install Training at CTF
- **C28A**: Prep CHPL/7CS Equip Install Work Pkgs
- **C29A**: Ops Review and Release Pkg to Field
- **C30A**: Install Flex Hose Connection
- **C31A**: Connect Temp Winch Controls
- **C32A**: Stage Two Cranes
- **C33A**: Verify Winch & Install Transfer Pump
- **C34A**: Make Elec Connections to Transfer Pump
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**Activity Descriptions**

- **AZ-102 Remove 3 Thermocouple Trees**
- **AZ-102 Install Field Instruments / Electrical**
- **AZ-102 Complete Construction - AZ-102**
- **AZ-102 Construction Complete**

**Related Components**

- **Transfer Pumps**
- **Mixer Pumps**
- **Mixer Pump YFDs**
- **Smoke Panels for CCTV**
- **LPG Storage Containers (7)**
- **AG Enclosures (1 set)**
- **Level Control System Modifications**
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- T418F68002 | 42 | 28AUG03 | 28OCT02 | 177,246.61 | C2A |
- T418F68003 | 50 | 19AUG03 | 28OCT03 | 85,102.60 | C2A |
- T418F68004 | 42 | 28AUG03 | 28OCT02 | 23,236.35 | C2A |
- T418F68010 | 42 | 15SEP03 | 11NOV03 | 91,292.30 | C2A |
- T418F68020 | 83 | 15DEC03 | 15MAR04 | 248,310.36 | C2A |
- T418F68022 | 21 | 13FEB04 | 15MAR04 | 60,975.97 | C2A |
- T418F68023 | 83 | 11FEB03 | 08MAR03 | 111,756.56 | C2A |
- T418F68024 | 42 | 12DEC03 | 13FEB04 | 399,489.65 | C2A |
- T418F68025 | 21 | 13FEB04 | 15MAR04 | 42,177.25 | C2A |
- T418F68026 | 50 | 29OCT03 | 11DEC03 | 210,854.25 | C2A |
- T418F68027 | 60 | 08AUG03 | 28OCT03 | 56,757.63 | C2A |
- T418F68028 | 50 | 19AUG03 | 28OCT03 | 60,840.28 | C2A |
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**165.90. Perf Contractor Std Startup Review for AZ-102**

- T418F68010 | 15 | 16MAR04 | 05APR04 | 83,902.28 | C2A |
- T418F68011 | 10 | 16MAR04 | 29MAR04 | 105,890.35 | C2A |
- T418F68012 | 5 | 30MAR04 | 05APR04 | 38,243.12 | C2A |

**165.91. Perf Maint Train Assmt for AZ-102 Maldair Flav Sys**

- T418F68300 | 45 | 07AUG03 | 09OCT03 | 21,246.78 | C2A |
- T418F68301 | 40 | 10OCT03 | 06DEC03 | 10,866.84 | C2A |
- T418F68302 | 30 | 06DEC03 | 22JAN04 | 38,865.01 | C2A |
- T418F68303 | 60 | 17DEC03 | 15MAR04 | 129,703.06 | C2A |

**Design Turnover to Startup**

- Design Turnover to Operations
- Construction Turnover to Operations
- Prepare New Operating Procedure AZ-102
- Prepare New Maintenance Procedure AZ-102
- Prep Proc Chg Auth (PCA) Process - Maint AZ-102
- Prep Startup Operational Training Mtls AZ-102
- Perf Startup Operational Training AZ-102
- Perform Drills AZ-102
- Prepare Operational Test Procedures AZ-102
- Perform Rg'd Operational Tests for AZ-102
- Prepare Operational Test Report for AZ-102
- Perform PM Routines AZ-102
- Prep AB Environmnt Compl Hardware Matrix AZ-102
- Prep AB Environmental Compl Ops Matrix AZ-102
- Complete ABU Checklist for AZ-102

**165.92. Perf Contractor Std Startup Review for AZ-102**

- Perform Contr. SSR for Tank AZ-102
- Provide Tech/Admin SSR Suppl Tank AZ-102
- Closeout SSR Comments Tank AZ-102
- Develop Startup Notification Report AZ-102
- Develop Plan of Action (POA) AZ-102
- Develop Facility Plant Readiness Plan AZ-102
- Conduct Plant Readiness Mgmt Sell Assmt AZ-102

Sheet 219 of 406
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- Obtain CHG Approval for Transmittal Ltr
- Complete AZ-102
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256135 Startup and Test W-314 Phase 1 AY Farm Upgrades

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AY Design, Procure, Construction Support PH-2
AY - Procurement (PH-2)
AY - E&I During Construction-Phase 2

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**Note:** The table provides a breakdown of activities with their start and finish dates along with their budgeted costs and logical relationships. The activities include electrical demolition, site conduit excavation, site conduit installation, site conduit bedding, site pull wire & terminate, perform ATP, encased pipe leak detectors assembly, encased pipe leak detectors conduit & wire, encased LDE assembly removal, construction management, construction equipment, and ATU support.

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**20180 Construct W-214 Phase 1 AY Farm Upgrades**

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- **Paint ID on Cover Blocks**
- **Inspect Existing 01A Pit Coating (LMIC)**
- **Clean, Inspect, and Prep 02A Pit Surfaces**
- **Touchup 02A Pit Coating**
- **Clean/Inspect/Prep 01A Pit Surfaces**
- **Touchup Pit 01A Coating**
- **Excavate for Core Drills**
- **Construct Pit Decking**
- **Core Drill for New Nozzle Penetrations**
- **Install and Grout Nozzles USA12**
- **Excavate for Core Drills**
- **Construct Pit Decking**
- **Install Drain Seal**
- **Install Vapor Seals USA12B**
- **Test Drain Seal**
- **Core Drills for New Nozzle Penetration**
- **Install Encasement Tee/LD Riser**
- **Install and Grout Nozzle U13**
- **Install Drain Jumper**
- **Install Drain Seal Adapter Plate (ECN Needed)**
- **Test Drain Seal**
- **Demo 110 Ton Crane**
- **Backfill Nozzle Excavations**
- **Mob 110 Ton Crane**
- **Install Cover Blocks**
- **Remove Containment Tent**
- **Remove Pit Decking**
- **Pre-Prep Pit 02A for Painting**
- **Haul Burial Box**
- **Pre-Prep Pit 01A for Painting**
- **Haul Burial Box**
- **Excavate Sn-125 Line (842 FT) (Hammock)**
- **Excavate for Install Sn-125**
- **Remove and Store Interfering Structures**
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**LOCK & TAG**
- REMOVE AND STORE INTERFERING STRUCTURES
- LOCATE TO 10" BELOW PIPE OLISHORE WHERE REQ
- SWP-4G-15 BACKFILL SN-433
- COMPLETE BACKFILL OF PIPING/DERR SN-433
- POSITION SPOOLS ON GRADE SUPPORTS
- SURVEY PIPE LOCATION FOR LINE & GRADE
- COAT 4" PIPE WELDMENT AREAS WITH SPC
- EXCAVATE 02A CONDUIT
- CLEAN 02A CONDUIT
- INSTALL 02A CONDUIT
- BACKFILL 02A CONDUIT
- INSTALL JUNCTION BOXES
- FORM & POUR CONCRETE PAD
- FULL & TERMINATE 02A WIRE
- INSTALL MISSLE SHIELD AT LD PANELS
- ELECTRICAL/CONTINUITY TESTING 02A
- FUNCTIONAL TEST LD 301
- LEAK DETECTION ATP REWORK
- LEAK DETECTION OTP LD 301
- Setup Weather Enclosure For Cover Blocks
- MOB BURIAL BOXES
- PAINT ID ON COVER BLOCKS
- Install Vapor Seals US/UB/US
- Construct Anta Room & Cathwils
- Construct Anta Room & Cathwils
- Nozzle Cathodic Bonding
- Nozzle Cathodic Bonding
- Install Construction Perm, Power
- Shop Fab RC-AY-103 Relay Cab
- Install RC-AY-03 Relay Cab in 801-A Bldg
- Field Run Cndlt From RC-AY-01 to RC-AY-03
- Pull Wire, Continuity Test & Terminate
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**160:H30 Provide Procurement Direction to PIP W-211 for FY-102**

**160:H40 Design, FY-102 Mining and Retrieval System**

- T418H460J10: 52JAN01 - 24SEP01, 1,316,356.87, CSA
- T418H460J11: 01OCT01 - 25JUN02, 1,330,395.83, CSA
- T418H460J1M: 0 - 25JUN02, 0.00, CSA

**160:H50 Construct, FY-102 Mining and Retrieval System**

- T418H560003: 0 - 01OCT01, 0.00, CSA
- T418H560003: 0 - 24JUL05, 0.00, CSA
- T418H560004: 707 - 01OCT02, 21JUL05, 0.00, CSA
- T418H560021: 20 - 01OCT02, 28OCT02, 0.00, CSA
- T418H560022: 70 - 01OCT02, 13JAN03, 0.00, CSA
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- T418H560025: 10 - 01OCT02, 28OCT02, 0.00, CSA
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- T418H560038: 9 - 10MAR03, 20MAR03, 0.00, CSA
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- T418H560040: 8 - 28MAR03, 08APR03, 0.00, CSA
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- T418H560044: 3 - 18APR03, 18APR03, 0.00, CSA
- T418H560045: 8 - 18APR03, 25APR03, 0.00, CSA

**AY-102 Design FY01**

- Start Construction
- Construction Complete

**AY-102 Design FY02**

- Complete Design - AY-102

**Construction Complete**

- Mobilize
- Prep CWP/JCS Equip. Removal Work Packages
- Stage Equipment at Cold Test Facility
- Perform Equipment Preventive Maint
- Modify CTF for Training
- Training at CTF
- Greenhouses Support
- Parking/Truc_Tech Service/Pit/Pad/New Hires/OT Allow
- Protest Support
- Onsite Review and Release Package to Field
- Stage Crane 920 Pit
- Prep Cover Blocks for Removal
- Shift Pit Prior to Cover block Removal
- Remove Cover Blocks Pit
- Remove Jumper and Prep for Storage
- Wrap and Stage Cover Blocks for Burial
- Install Vapor Seals
- Install Removal Equipment - 62' Flex Rec
- Remove Transfer Pump With FRR
- Remove Removal Equipment
- Install Depth Verification Plug
- Weld Container End Cap
- Depth Verification
- Remove Depth Plug & Install Shield Plug
- Grout Container

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Package Prep and Pre-Fabrication

Fab 3" PW-401-MB Line

Fab 3" PW-462-MB Line

3" PW-401-MB Place Timbers in Trench

3" PW-401-MB Rig Pipe in Trench

3" PW-401-MB Weld Out Primary Pipe

3" PW-401-MB Pressure Test Primary Pipe

3" PW-401-MB Attach Cathodic Protection

3" PW-401-MB Apply Epoxy Coating to Weld Areas

3" PW-401-MB Install Heat Trace

3" PW-401-MB Install Insulation

3" PW-401-MB Survey Pipe for Backfill

3" PW-402-MB Place Timbers in Trench

3" PW-402-MB Rig Pipe in Trench

3" PW-402-MB Weld Out Primary Pipe

3" PW-402-MB Pressure Test Primary Pipe

3" PW-402-MB Attach Cathodic Protection

3" PW-402-MB Apply Epoxy Coating to Weld Areas

3" PW-402-MB Install Heat Trace

3" PW-402-MB Install Insulation

3" PW-402-MB Survey Pipe for Backfill

Install AV02A-WT-TBX-101 (TP-022 Term Box)

Install AV02A-ECS-TBX-103 (TP-022 Term Box)

Install AV02A-WST-MTS-106 (TP-022 Switch)

Install AV02A-WT-CF-122 (Seal Gas Cabi Panel)

Install AV02A-WT-CF-158 (TP Winch Cabi Panel)

Install AV02A-WST-MTS-107 (TP Winch Switch)

Install AV02VPA-WT-ENC1-102 (Press Switch Enc1)

Excavate Elec Cable Tranches

Run Elec Cables to Form

Terminate Wires (In-Form Equip/Titis)

Continuity Testing

Support Backfill Elec Cable Tranches

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- Form/Relay/Pour Concrete - MP-1 Elec Frame
- Mount Elec Cable Support Frame - MP-1
- Install AY-102-EDS-DP-123 (Mid Power Center)
- Install AY-102-EDS-TBX-107 (MP-1 Term Box)
- Install AY-102-WST-MTS-101 (MP-1 Switch)
- Install AY-102-WST-MTS-103 (MP-1 TrnTab Switch)
- Form/Relay/Pour Concrete - MP-2 Elec Frame
- Mount Elec Cable Support Frame - MP-2
- Install AY-102-EDS-TBX-108 (MP-2 Term Box)
- Install AY-102-WST-MTS-102 (MP-2 Switch)
- Install AY-102-WST-MTS-104 (MP-2 TrnTab Switch)
- Form/Relay/Pour Concrete - MP-3 Elec Frame
- Mount Elec Cable Support Frame - MP-3
- Install AY-102-EDS-TBX-109 (MP-3 Term Box)
- Install AY-102-WST-MTS-103 (MP-3 Switch)
- Install AY-102-WST-MTS-104 (MP-3 TrnTab Switch)
- Form/Relay/Pour Concrete - MP-4 Elec Frame
- Mount Elec Cable Support Frame - MP-4
- Install AY-102-EDS-TBX-110 (MP-4 Term Box)
- Install AY-102-WST-MTS-105 (MP-4 Switch)
- Install AY-102-WST-MTS-106 (MP-4 TrnTab Switch)

- Fab/Frm J-Boxes/Term Boxes for Equip
- Install J-Boxes/Term Boxes in
- Install Vendor Furnished Elec Equip (VFEs)
- Run Conduits
- Pull Cables & Armored Cable
- Terminate Wires
- Continuity Testing
- In-Tank Equipment Install Training at CTF
- Prep CWP/USG Equip Install Work Plgs
- Ops Review and Release Plg to Field
- Install Flex Hose Connection
- Connect Temp Winch Controls
- Stage Two Cranes
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**180.J136, Repair/Upgrade Existing TF Sys Req for WFD Ph 1**

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**180.J130, Startup and Test AY-102 Making/Refr System**

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**166H09** Provide CD-4 Approval for AY-102

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Develop Startup Notification Report AY-102

Develop Plan of Action (POA) AY-102

Develop Facility Plant Readiness Plan AY-102

Conduct Plant Readiness Mgmt Self Assmt AY-102

Provide CD-4 Approval for AY-102

Complete AY-102

Sheet 248 of 408
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**TW06 Privatization Phase 1**

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Draft Transmittal Ltr for AY-102 Data to DOE-ORP
Obtain CHC Approval for Transmittal Ltr
Complete AY-102

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### W-523 Prep W-523 Proj Through Final Document

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- T429J40B  | 123 | 07MAY03 | 29OCT03 | 112,473.00 | CAA |
- T429J40C  | 123 | 01OCT07 | 27MAR08 | 190,854.40 | CAA |
- T429J40D  | 123 | 07MAY07 | 29OCT08 | 180,854.40 | CAA |

**Schedule**

- **FY00**
- **FY01**
- **FY02**
- **FY03**
- **FY04**
- **FY05**
- **FY06**
- **FY07**
- **FY08**
- **FY09**
- **FY10**
- **FY11**
- **FY12**
- **FY13**
- **FY14**
- **FY15**
- **FY16**
- **FY17**
- **FY18**
- **FY19**
- **FY20**

**Notes**

- Prepare W-523 Proj Tech Baseline Document C-104
- Revise W-523 Proj Tech Baseline Doc C-107
- Revise W-523 Proj Tech Baseline Document C-102
- Revise W-523 Proj Tech Baseline Document C-105

### W-523 - Design Retrieval System Tank C-104

- W-523 CDR Kick-Off
- W-523 CDR - Privatization Interface
- W-523 CDR - Advanced Conceptual Design C-104
- W-523 CDR - O&M Concept
- W-523 C-107 Perform Conceptual Design
- W-523 S-102 Perform Conceptual Design
- W-523 S-166 Perform Conceptual Design

**Technical**

- Integration & Management (Update O&M)
- Prepare C-104, C-107, S-105, S-103 Flowsheets

**Ontvrio**

- RAM Baseline
- Prepare O&M Concept Document
- Perform Initial Risk Assessment w/ Draft Input
- Perform Final Risk Assessment w/ Release Input
- Prepare & Issue Final Risk Assessment

**W-533**

- CDR AVE Conduct Conceptual Design
- CDR - Conduct 30% Design Reviews
- CDR - Conduct 90% Design Reviews
- CDR - Prepare Estimates
- CDR - Conduct ICE Review
- CDR - Prepare and Submit Package
- W-523 - Prepare Presentation
- W-523 - Validate Project

**W-523**

- CDR - Project Integration
- CDR - LCCA
- CDR - Security Plan
- CDR - Project Execution Plan
- CDR - Training Plan

**Sheet 252 of 408**
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293.J50 Construct C-104 Retrieval System
T429J5OA     833 18MAR03  24MAY05  38,451,763.80  CA

299.J52 Procure Equipment for C-104 Retrieval System
T429J52A     376 18MAR03  17MAY05  4,312,638.50  CA

299.J54 Repair/Upgrade Existing C-104 Tank Farm Systems
T429J54A     630 28MAR02  23SEP04  590,110.00  CA
T429J54B     630 28MAR02  23SEP04  3,239,443.30  CA
T429J54C     630 28MAR02  23SEP04  4,290,010.00  CA
T429J54CM    0 23SEP04  0.00  CA

330.J60 Startup and Test C-104 Retrieval System
T429J6OA     0 17NOV03  0.00  CA
T429J60A0    0 24MAY06  0.00  CA
T429J60A1    84 26JAN06  24MAY06  410,963.10  CA
T429J60A2    84 26JAN06  24MAY06  340,474.25  CA
T429J60A3    84 26JAN06  24MAY06  168,045.29  CA
T429J60A4    84 26JAN06  24MAY06  58,472.70  CA
T429J60B1    84 06JUN06  06JUN06  182,586.60  CA
T429J60B2    82 11JUL06  05OCT06  248,319.36  CA
T429J60C     21 07SEP06  05OCT06  40,973.97  CA
T429J60D1    84 10NOV03  22MAR04  150,092.64  CA
T429J60D2    42 10JUL06  08SEP06  399,490.65  CA
T429J60D3    21 07SEP06  05OCT06  42,167.25  CA
T429J60E     30 25MAY06  07JUL06  275,257.59  CA
T429J60F1    82 26FEB06  24MAY06  70,947.42  CA
T429J60F2    82 26FEB06  24MAY06  70,488.14  CA
T429J60G     0 05OCT06  0.00  CA

399.J61 Proj Def, Tech Basis, Proj Def Criteria Proj W-523
T429J61A    150 01MARC03  26SEP06  263,861.81  CA
T429J61B    87 01MARC03  30JUN00  342,380.50  CA

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**300.23** Prepare Process Control Plan for C-104

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300.13M Perform C-104 Isolation Prevention

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- Prepare Pump PI Isolation Design ECN C-104
- Prepare/Review/Release Work Package C-104
- Stage Isolation Equipment in Tank Farm C-104
- Perform Isolation Field Work C-104
- Complete Pit Isolation Documentation C-104

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### TWG1 Tank Waste Characterization

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- Remove Removal Equipment TC#6
- Transport TC to Disposal TC#8
- Install Removal Equipment - 6" Flex Rec TC#7
- Remove Thermocouple Tree with FPR TC#7
- Install Shield Plug TC#7
- Weld End Cap TC#7
- Grout Container TC#7
- Remove Removal Equipment TC#7
- Transport TC to Disposal TC#7
- Ops Review and Release Package to Field
- Remove Multi-Port Adapter from 42" Riser
- Remove CCTV Camera & Store
- Install Temp Shield Plug

Prep CWPU/C5 Work Package
Scan for Excavation permit
Generate Excavation Permit
Ops Review and Release Package to Field
Prep CWPU/C5 Work Package
Survey Location for Excavation
O&G's Lock Out of Required Systems
Mobilize Excavation Equipment
Exc for 1/2" SW-3052-MB Line
Exc for 1/2" SW-3051-MB Line
Exc for (2) 1/2" SW-MB Spare Lines
Exc for 3" PW-401-MB Line
Exc for 3" PW-402-MB Line
Electrical Excavation
Armored Cable Excavation
Bore Tube Excavations for Elec. Term. Boxes
Fab Piping & Test 1/2" SW-3052-MB
Perform Field Welds 1/2" SW-3052-MB
Hydro Test 1/2" SW-3052-MB
Insulate & Heat Trace 1/2" SW-3052-MB
Fab Piping & Test 1/2" SW-3051-MB
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**Logic**
- Perform Field Welds 1/2" SW-3051-M9
- Hydro Test 1/2" SW-3051-M9
- Insulate & Heat Trace 1/2" SW-3051-M9
- Fab Piping & Test 1/2" SW-M9 Spare Lines
- Perform Field Welds 1/2" SW-M9 Spare Lines
- Hydro Test 1/2" SW-M9 Spare Lines
- Insulate & Heat Trace 1/2" SW-M9 Spare Lines
- Fabricated Nitrogen Racks
- Form/Rebus/Pour Nitrogen Rack Pads
- Nitrogen Rack Installation
- Nitrogen Hose Installation
- Fab Instrument Air/Purge Line
- Test Instrument Air/Purge Line
- Tie-in Instrument Air/Purge Line to Existing
- Install Tubing Hangers To Instr. Air/Purge Line
- Complete Backfill
- Stabilization
- De Mobilization
- Pour New Pad for Air Control Station
- Rotate Air Control Station 90 Degrees
- Remove Old Air Control Station Pad
- Package Prep and Pre-Fabrication
- Fab 3" PW-401-M9 Line
- Fab 3" PW-402-M9 Line
- 3" PW-401-M9 Place Timbers in Trench
- 3" PW-401-M9 Rig Pipe in Trench
- 3" PW-401-M9 Weld Out Primary Pipe
- 3" PW-401-M9 Pressure Test Primary Pipe
- 3" PW-401-M9 Attach Cathodic Protection
- 3" PW-401-M9 Apply Epoxy Coating to Weld Areas
- 3" PW-401-M9 Install Heat Trace
- 3" PW-401-M9 Survey Pipe for Backfill
- 3" PW-401-M9 Install Insulation
- 3" PW-402-M9 Place Timbers in Trench
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- Install AY01A-WST-MTS-106 (TP-322 Switch)
- Install AY01A-WST-CP-123 (Seal Gas Contl Panel)
- Install AY01A-WST-CP-154 (TP Winch Contl Panel)
- Install AY01A-WST-MTS-167 (TP Winch Switch)
- Install AY01A-WST-ENCL-192 (Press Switch Enc1)
- Excavate Elec Cable Trenches
- Run Elec Cables to Farm
- Terminate Wires (In-Farm Equip/TBs)
- Continuity Testing
- Complete Backfill Elec Cable Trenches

- Top CWPJCS Mixer Pump Install Work Plugs
- Mount Elec Cable Support Frame - MP-3
- Install AY101-EDS-TBX-108 (MP-3 Term Box)
- Install AY101-WST-MTS-102 (MP-3 Switch)
- Install AY101-WST-MTS-104 (MP-3 TrnTab Switch)
- Form/Rebar/Pour Concrete - MP-3 Elec Frame
- Mount Elec Cable Support Frame - MP-4
- Install AY101-EDS-TBX-108 (MP-4 Term Box)
- Install AY101-WST-MTS-162 (MP-4 Switch)
- Install AY101-WST-MTS-164 (MP-4 TrnTab Switch)
- Form/Rebar/Pour Concrete - MP-4 Elec Frame

- Install Tank Equipment Install Training at CTF

- Prep CWPJCS Equip Install Work Plugs
- Ops Review and Release Plg to Field
- Install Flex Hose Connection
- Connect Temp Winch Controls
- Stage Two Cranes
- Verify Winch & Install Transfer Pump
- Make Elec Connections to Transfer Pump
- Install Nitrogen Hose to Transfer Pump
- Ops Review and Release Plg to Field

- Test Mixer Pump-1 at MASF

- Install Shield Ring & Temp. Hose
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- Install Drain Host Assy/Pivot Arm
- Install Jumper Assy 1
- Install Jumper Assy 2
- Install Jumper Assy 3
- Install Jumper Assy 4
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- Install MOV Tunnel Assys
- Install New Cover Blocks
- Paint Cover Block Flow Diagrams
- Install MOV Actuator 1 Term Wires
- Install MOV Actuator 2 Term Wires
- Install MOV Actuator 3 Term Wires
- Install MOV Actuator 4 Term Wires
- Install New Cover Blocks
- Paint Cover Block Flow Diagrams
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- ATP - AT-101
- Punchlist
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**180.323 Procure Equipment for AY-101 11,000 GPM Process Water System**

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**180.360 Startup and Test AY-101 11,000 GPM Process Water System**

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160.972 Mix AY-101 Feed to Suspend Solids

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160.980 Perform Contractor Std Startup Review for AY-101

| T416580A  | 22FEB06   | 14MAR06     | 14MAR06      | 63,902.29     | CSA         |
| T416580B  | 23FEB06   | 07MAR06     | 07MAR06      | 105,890.20    | CSA         |
| T416580C  | 08MAR06   | 14MAR06     | 14MAR06      | 30,245.12     | CSA         |

160.983 Perf Mgmt Self-Audit for AY-101 Main/Off-Sys

| T416583A  | 16FEB05   | 20APR05     | 20APR05      | 21,248.79     | CSA         |
| T416583B  | 21APR05   | 18JUN05     | 18JUN05      | 10,964.54     | CSA         |
| T416583D  | 17JUN05   | 29JUL05     | 29JUL05      | 38,961.01     | CSA         |
| T416583E  | 23NOV05   | 21FEB06     | 21FEB06      | 129,733.08    | CSA         |

160.990 Provide CD-4 Approval for AY-101

| T416596A  | 10MAR06   | 04APR06     | 04APR06      | 0.00          | CSA         |

Perform PM Routines AY-101

- Prepare AY-101 Compl Hardware Matrix AY-101
- Prepare AY-Environmental Compl Ops Matrix AY-101
- Complete AY-101 Checklist AY-101

Mix AY-101 Feed to Suspend Solids

- Perform Cool SSR for Tank AY-101
- Provide Tech/Adm SSR Suppl Tank AY-101
- Closeout SSR Comments Tank AY-101

Develop Startup Notification Report AY-101

- Develop Plan of Action (POA) AY-101
- Develop Facility Plant Readiness Plan AY-101
- Conduct Plant Readiness Mgmt Self Audit AY-101

Provide CD-4 Approval for Tank AY-101
### CSB HLW Ph 1 Tank 8 - AY-101 Sh 2

#### TW01 Tank Waste Characterization

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- Plant Schedule material, Core-AY-101 (AY/C-104)
- Acquire Core Sample-AY-101 (AY/C-104)
- Acquire Core Sample-AY-101 (AY/C-104)
- Core Sample Analysis-AY-101 (AY/C-104)
- Core Sample Analysis-AY-101 (AY/C-104)
- Core Data Report-AY-101 (AY/C-104)
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### 1. Prepare HLW Xfer PCA C-104(A-Y-101) to BNFL

- Xfer 8th Bch C-104 to BNFL

### 2. Prepare HLW Xfer PCA C-104(A-Y-101) to BNFL

- Xfer 9th Bch C-104 to BNFL

### 3. Prepare HLW Xfer PCA C-104(A-Y-101) to BNFL

- Xfer 10th Bch C-104 to BNFL

### 4. Prepare HLW Xfer PCA C-104(A-Y-101) to BNFL

- Xfer 11th Bch C-104 to BNFL

### 5. Prepare HLW Xfer PCA C-104(A-Y-101) to BNFL

- Xfer 12th Bch C-104 to BNFL

### 6. Mix AY-101C-104 Feed to Suspend Solids

- Mix AY-101C-104 to Suspend Solids

### 7. Provide Approval to Xfer AY-101C-104 Feed

- Provide Approval to Xfer AY-101C-104 Feed

### 8. Draft Transmittal Letter for AY-101C-104 Data to ORP

- Draft Transmittal Letter for AY-101C-104 Data to ORP

### 9. Obtain CHG Approval for Transmittal Letter AY-101C-104

- Obtain CHG Approval for Transmittal Letter AY-101C-104

### 10. Complete AY-101

- Complete AY-101

### TW08 Privatization Phase 1

#### 1. Prepare 1st Batch AY-101C-104 HLW Feed AY-101

- Prepare 1st Batch AY-101C-104 HLW Feed AY-101

#### 2. Verify 1st Batch AY-101C-104 HLW Feed from AY-101

- Verify 1st Batch AY-101C-104 HLW Feed from AY-101

#### 3. Prepare 2nd Batch AY-101C-104 HLW Feed AY-101

- Prepare 2nd Batch AY-101C-104 HLW Feed AY-101

#### 4. Verify 2nd Batch AY-101C-104 HLW Feed from AY-101

- Verify 2nd Batch AY-101C-104 HLW Feed from AY-101

#### 5. Prepare 3rd Batch AY-101C-104 HLW Feed AY-101

- Prepare 3rd Batch AY-101C-104 HLW Feed AY-101

#### 6. Verify 3rd Batch AY-101C-104 HLW Feed from AY-101

- Verify 3rd Batch AY-101C-104 HLW Feed from AY-101

#### 7. Prepare 4th Batch AY-101C-104 HLW Feed AY-101

- Prepare 4th Batch AY-101C-104 HLW Feed AY-101

#### 8. Verify 4th Batch AY-101C-104 HLW Feed from AY-101

- Verify 4th Batch AY-101C-104 HLW Feed from AY-101
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- Procurement Specifications
- Calculations
- Checking/Internal Reviews
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290.845 Construct W-314 Phase 2 SY Farm Upgrades

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- **Core Drill Cover Block (1 Hole)**
- **Coatings for Cover Blocks**
- **Install LDE Sleeve**
- **Install Drain Plug**
- **Replace Cover Block**
- **Install LDE Probe Assembly**
- **Site Instrumentation (Wiring & LDE Cabinet)**
- **Install Missle Shield**
- **ATP**
- **Demobilization**
- **Shop Fab (Drain, LDE sleeve, & missle shield)**
- **Central Pump Pit Weather Delays**
- **Inspection & Closeout**
- **Contingency-CFF 5Y-01A**
- **SY Tank 101 High Level Alarm - Riser**
- **Vapor Space Pressure Measurement**
- **Remove Existing Vapor Pressure Instruments**
- **Mobilization & Setup**
- **Spray Xx.xx**
- **Remove Cover Block**
- **Demo Existing Instruments in Pits**
- **Clean Debris/Wash Down Pit**
- **SPC Coatings - Pit**
- **Core Drill Cover Block (1 Hole)**
- **Coatings for Cover Blocks**
- **Install LDE Sleeve**
- **Install Drain Plug**
- **Replace Cover Block**
- **Install LDE Probe Assembly**
- **Site Instrumentation (Wiring & LDE Cabinet)**
- **Install Missle Shield**
- **ATP**
- **Demobilization**
- **Shop Fab (Drain, LDE sleeve, & missle shield)**
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260.976 Startup and Test VI-314 Phase 2 B1 Farm Uppers

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Startup & Testing - Support of DD-SY Pits

Startup & Testing - Support of Annulus Vent

Startup & Testing - Support of DD-SY Pits

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**TW04 Retrieval**

120.A.3 Verify SY TF Sys/Components Functionality

T412A23A 50 23OCT01 07JAN02 379,350.10 CBA

120.A.4 Perform Acquisition Strategy for SY Tank Farm

T412A24A 256 24JUN02 19JUN03 51,477.00 CBA

120.A.5 Perform SY Tank Farm Trade Studies

T412A5A 115 08JUN03 19JUN03 188,974.15 CBA

**130.P.55 Part DOE ORR ORR004 CD-4 SY-102 Xtr Sys**

T412P26A 25 24JUN02 09JUL03 0.00 CBA

T412P28B 15 04JUN09 24JUN08 79,597.98 CBA

T412P29C 20 25JUN08 09JUL04 11,237.74 CBA

T412P25D 15 16JUL08 30JUL08 0.00 CBA

**130.P.12 Pov Rtr Prog Direction to Pj W-211 for SY-102**

T412P23A 5 01OCT03 01OCT03 2,974.36 CBA

**130.P.6 Procure Equip for SY-102 Mixing/Rar System**

T412P5001 378 01OCT04 04APR05 0.00 CBA

T412P5006 378 01OCT04 04APR05 0.00 CBA

T412P5007 378 01OCT04 04APR05 0.00 CBA

T412P5009 152 01OCT04 10MAY05 0.00 CBA

T412P5010 149 01OCT04 05MAY05 0.00 CBA

T412P5011 152 01OCT04 10MAY03 0.00 CBA

T412P5012 152 01OCT04 10MAY03 0.00 CBA

T412P5013 152 01OCT04 10MAY03 0.00 CBA

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T412P5015 149 01OCT04 05MAY05 0.00 CBA

T412P5016 149 01OCT04 05MAY05 0.00 CBA

T412P5017 128 01OCT04 04APR05 0.00 CBA

T412P5018 149 01OCT04 05MAY05 0.00 CBA

T412P5019 85 01OCT04 03SEP05 0.00 CBA

Transfer Pumps
Mixer Pumps
Mixer Pump FDOs
LLCE Burial Containers (4)
Enclosures (1 set)
Retriev Control Systems
LLCE Removl Equip/Steel Frames
Pit Puc Mods/Parts/Bags
Mixer Pump Spray Rings & Riser Extensions
Impact Liner (1) - Verify use of Existing
Electric Cable Support Frames (2)
Service Water Enclosure
CCTV Riser Extension
Pipe Cover Blocks
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**Title III Engineering**

**Habitat**

**Greenhouses Support**

- Prep CM/PJCS Equip. Removal Work Packages
- Stage Equipment at Cold Test Facility
- Perf Equipment Preventive Maint
- Training at CTF
- Modify CTF for Training
- Stage Crane Pit 02A
- Prep Cover Blocks for Removal
- Shunt Pit Prior to Cover Block Removal
- Remove Cover Blocks Pit 02A
- Remove Jumpers and Prep for Storage
- Wrap and Stage Cover Blocks for Bural
- Install Vapor Seals
- Install Removal Equipment - 42" Flex Rec
- Remove Transfer Pump With F/R
- Install Depth Verification Plug
- Transport Pump To Disposal
- Depth Verification
- Remove Depth Plug & Install Shield Plug
- Install Temporary Cover Blocks
- Weld Container End Cap
- Ops Review and Release Package to Field
- Grill Container
- Asbuild Nozzle Configuration for Jumper Fab
- Remove Removal Equipment
- Ops Review and Release Package to Field
- Install Removal Equipment - 6" Flex Rec
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- Perform Field Welds 1/2" SW-(####)
- Hydro Test 1/2" SW-(####)
- Insulate & Heat Trace 1/2" SW-(####)
- Fabricated Nitrogen Racks
- Form/Rebar/Pour Nitrogen Rack Pads
- Nitrogen Rack Installation
- Nitrogen Hose Installation
- Fab Instrument Air/Purge Line
- Test Instrument Air/Purge Line
- Tie-In Instrument Air/Purge Line to Existing
- Install Tubing Hangers to Instr. Air/Purge Line
- Complete Backfill
- Stabilization
- De-Mobilization
- Four New Pad for Air Control Station
- Rotate Air Control Station 90 Degrees
- Remove Old Air Control Station Pad
- Package Prep and Pre-Fabrication
- Fab 3" PW-(####) Line
- Fab 3" PW-(####) Line
- 3" PW-(####) Place Timbers in Trench
- 3" PW-(####) Rig Pipe in Trench
- 3" PW-(####) Weld Out Primary Pipe
- 3" PW-(####) Pressure Test Primary Pipe
- 3" PW-(####) Attach Cathodic Protection
- 3" PW-(####) Apply Epoxy Coating to Weld Areas
- 3" PW-(####) Install Heat Trace
- 3" PW-(####) Survey Pipe for Backfill
- 3" PW-(####) Install Insulation
- Fab New 42" Shield Plug - Riser(XXX)

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Exc to Uncover Top of Riser-XXX

Remove Exst 42" Shield Plug - Riser-XXX

Install Deep Vertical Tool - Riser-XXX

Install Spray Wash Riser Ext - Riser-XXX

FormRebar Mixer Pump Fndn - Riser-XXX

Pour Mixer Pump Fndn - Riser-XXX

Install MP Mounting Plate - Riser-XXX

Install 42" Depth Verif Shield Plug-XXX

Remove Depth Verif Shield Plug-XXX

Complete Backfill Riser Ext - Riser-XXX

Cure Time & Paint - Riser-XXX

Fab new 42" Shield Plug - Riser-XXX

Exc to Uncover Top of Riser-XXX

Remove Exst 42" Shield Plug - Riser-XXX

Install Deep Vertical Tool - Riser-XXX

Install Spray Wash Riser Ext - Riser-XXX

FormRebar Mixer Pump Fndn - Riser-XXX

Pour Mixer Pump Fndn - Riser-XXX

Install MP Mounting Plate - Riser-XXX

Install 42" Depth Verif Shield Plug-XXX

Remove Depth Verif Shield Plug-XXX

Complete Backfill Riser Ext - Riser-008

Cure Time & Paint - Riser-XXX

FormRebarPour Concrete - MP-1 Elec Frame

FormRebarPour Concrete - MP-2 Elec Frame

Mount Elec Cable Support Frame - MP-1

Mount Elec Cable Support Frame - MP-2

Install SY102-777 (Mini Power Center)

Install SY102-777 (MP-1 Term Box)

Install SY102-777 (MP-1 Switch)

Install SY102-777 (MP-1 Term Tab Switch)

Install SY102-777 (MP-2 Term Box)

Install SY102-777 (MP-2 Switch)

Install SY102-777 (MP-2 Term Tab Switch)
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Sheet 266 of 408
### Activity Summary

**Activity**
- **ID**: T141P04A07
- **Origin Dater**: 11/4/AUG/07
- **Early Start Date**: 06/NOV/97
- **Budgeted Cost**: 512,090,19 CBA

**Logic**
- **Event**: SY-102 Construction Acceptance / Closeout
- **Event**: Start Construction
- **Event**: Construction Complete

**Design Turnover to Startup**
- **Construction Turnover to Operations**
- **Prepare New Operating Procedure SY-102**
- **Prepare New Maintenance Proc SY-102**
- **Proc Chg Auth (PCW) Ops SY-102**
- **Proc Chg Auth (PCW) - Maint SY-102**
- **Start-up Op Training Matls SY-102**
- **Per Startup Operational Training SY-102**
- **Perform Drills SY-102**
- **Perform Operational Test Procedures SY-102**
- **Perform Rjd Operational Tests for SY-102**
- **Prepare Operational Test Report for SY-102**
- **Perform PM Routines SY-102**
- **Prepare AB Environm’t Cond HW Mtrls SY-102**
- **Perform AB Environm’t Cond Ops Matls SY-102**
- **Complete ABU Checklist**

**Prepare and Install Existing SY TF Sys Req for WFD Ph 1**
- **Prepare/Upgrade Existing SY TF Sys Req for Ph 1**
- **Complete SY TF Farm Upgrades**

**Performance and Doc SY-102 Sump Analyses/Rheology Testing**
- **SY-102 Rheology Test - Prepare Test Plan**
- **SY-102 Rheo - Install Test Equip/Perform Rhe Test**
- **SY-102 Rheology - Perform Wash Tests/Analysis**
- **SY-102 Rheology Test - Prepare Test Report**
- **SY-102 Rheology Test - Cleanup Hot Cell**

**Sheet 288 of 408**
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**210.P40 Startup/Start Cross Site Slurry Transfer Line**

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**TW06 Privatization Phase 1**

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- **Preheat 1st Batch SY-102 HLW Feed from AZ-101**
- **Verify 1st Batch SY-102 HLW Feed from AZ-101**
- **Preheat 2nd Batch SY-102 HLW Feed from AZ-101**
- **Verify 2nd Batch SY-102 HLW Feed from AZ-101**
- **Preheat 3rd Batch SY-102 HLW Feed from AZ-101**
- **Verify 3rd Batch SY-102 HLW Feed from AZ-101**
- **Preheat 4th Batch SY-102 HLW Feed from AZ-101**
- **Verify 4th Batch SY-102 HLW Feed from AZ-101**

Draft Transmittal Ltr for SY-102 Data to DOE-ORP
Obtain CHD Approval for Transmittal Ltr
Complete SY-102
## TW01 Tank Waste Characterization

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**220.040 Perform Contractor Bid Startup Review for C-107**

- T42Q9CA1: 15 M0508 16JUN08 63,902.29 D1A
- T42Q9CB1: 10 M0508 12JUN08 105,690.20 D1A
- T42Q9CC1: 5 13JUN08 19JUN08 36,245.12 D1A

**220.043 Perform Mgmt Self-Assessment for C-107 Pwr Sys**

- T42Q9DA1: 45 25MAY07 20JUL07 21,248.79 D1A
- T42Q9DB1: 40 31JUL07 25SEP07 10,884.64 D1A
- T42Q9DC1: 30 28SEP07 06NOV07 38,961.01 D1A
- T42Q9DE1: 30 06MAR08 29MAY08 129,730.08 D1A

**220.090 Provide CD-4 Approval for C-107**

- T42Q9DA1: 15 20JUN08 11JUL08 0.09 D1A

**300.020 Prepare Process Control Plan for C-107**

- T42Q9DA1: 30 31OCT07 13DEC07 29,942.64 D1A
- T42Q9DB1: 22 14DEC07 17JAN08 47,240.02 D1A
- T42Q9DC1: 20 18JAN08 14FEB08 50,865.31 D1A
- T42Q9DE1: 15 27SEP12 21NOV12 23,392.38 D1A

**300.029 Review C-107 into AY-102**

- T42Q7AA1: 35 12MAR12 27APR12 274,583.68 D1A
- T42Q7AB1: 15 10APR12 18MAY12 274,583.68 D1A
- T42Q7AC1: 15 21MAY12 11JUN12 274,583.68 D1A
- T42Q7AD1: 15 12JUN12 02JUL12 274,583.68 D1A
- T42Q7AE1: 15 03JUL12 24JUL12 274,583.68 D1A
- T42Q7AF1: 15 25JUL12 14AUG12 274,583.68 D1A
- T42Q7AG1: 15 15AUG12 05SEP12 274,583.68 D1A
- T42Q7AH1: 15 06SEP12 28SEP12 274,583.68 D1A
- T42Q7BA1: 7 26APR12 26APR12 248,849.18 D1A
- T42Q7BB1: 7 11MAY12 17MAY12 248,849.18 D1A
- T42Q7BC1: 7 02JUN12 08JUN12 248,849.18 D1A
- T42Q7BD1: 7 23JUN12 29JUN12 248,849.18 D1A

Legend:
- D1A: Perform Req'd Operational Tests for C-107
- D1A: Prepare Operational Test Report for C-107
- D1A: Perform PM Routines C-107
- D1A: Perform AB Environmtl Compnt Hardware Matrix C-107
- D1A: Prep AB Environmental Compnt Ops Matrix C-107
- D1A: Complete ABU Checklist C-107
- D1A: Perform Contrl SSR for Tank C-107
- D1A: Provide TechAdmin SSR Suppl Tank C-107
- D1A: Closeout SSR Comments Tank C-107
- D1A: Develop Startup Notification Report C-107
- D1A: Develop Plan of Action (POA) C-107
- D1A: Develop Facility Plant Readiness Plan C-107
- D1A: Conduct Plant Readiness Mgmt Self Assmnt C-107
- D1A: Provide CD-4 Approval for Tank C-107
- D1A: Prepare Draft PCP C-107
- D1A: Review/Comment/Incorp Comments/Issue PCP C-107
- D1A: Prepare ECNs and Revise PCP C-107
- D1A: Prep and Issue Process Evaluation Report C-107
- D1A: Perf Pwrnt/Ops/Invest/Post Slc Rate Ops C-107-AY102
- D1A: Perf Pwrnt/Ops/Invest/Post Slc Rate Ops C-107-AY102
- D1A: Perform Pwrnt/Ops/Invest/Post Slc Rate C-107-AY102
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- D1A: Perf Pwrnt/Ops/Invest/Post Slc Rate C-107-AY102
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Pretreat 9th Batch C-107/AV-103 HLW from AY-102

Vitrify 9th Batch C-107/AV-103 HLW from AY-102
### TW01 Tank Waste Characterization

#### 100.W12 Obtain AW-103 Core Sample Prep Sub-Comps

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#### 190.W13 Sample AW-103 per BNL Report/Dev Sample to BNL

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**Activities:**
- Core Dome Loading-AW-103
- Core Profile/TSAP-AW-103
- Plans/Schedule material, Core-AW-103
- Acquire Core Sample AW-103
- Core Sample Analysis-AW-103
- Ship PAS Cask Solid, Core-AW-103

### TW03 Tank Farm Operations

#### 350.W18 Dan W-314 Ph 2 AW Farm Uptake and Delete CD8

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**Drawings**
- 20% Design Review
- Construction Specifications
- Procurement Specifications
- Calculations
- Checking/Intenal Reviews
- Client Reviews
- Support Activities for Engineering
- 80% Design Review
- Drawings

**Support Activities**
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**25W35 Startup/Test W-314 Phase I AW (AW-AWK Blk Phase UPG):**

- AW TF Upgrades - Test/Turn/Accept - DD (FY08)
- AW TF Upgrades - Test/Turn/Accept - DD (FY01)
- AW TF Upgrades Test/Turn/Accept (FY01)
- AW TF Upgrades Test/Turn/Accept (FY02)
- AW TF Upgrades Test/Turn/Accept (FY03)

**25W48 Construct W-314 Phase 2 AW Farm Upgrades:**

- AW Design, Procure, Construction Sqpl Ph-2
- AW Design, Procure, Construction Sqpl Ph-2
- AW - Procurement-Phase 2
- AW - Procurement-Phase 2
- AW - Construction-Phase 2
- CD-3 Approval-Phase 2 AW
- AW - HPT Support-Phase 2
- AW - E&I During Construction-Phase 2
- EW Xfer Line - E&I During Construction Ph-2
- EW Xfer Line - E&I During Construction Ph-2
- EW Xfer Line - Procurement Ph-2
- EW Xfer Line - Procurement Ph-2
- EW Xfer Line - Construction Ph-2
- AW - Construction-Phase 2
- AW - HPT Support-Phase 2
- MS: Complete Construction EW Xfer Line Ph-2
- AW - E&I During Construction-Phase 2

**Design - AW:**

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- Contingency-CPP AW-61A
- Vapor Space Pressure Measurement
- Remove Existing Vapor Pressure Instruments
- Mobilization & Setup
- Spray Fixative
- Remove Cover Block
- Demo Existing Instruments in Pits
- Clean Debris/Wash Down Pit
- SPC Coatings - Pit
- Core Drill Cover Block (1 Hole)
- Coatings for Cover Blocks
- Install LDE Sleeve
- Install Drain Plug
- Replace Cover Block
- Install LDE Probe Assembly
- Sites Instrumentation (Wiring & LDE Cabinet)
- Install Missle Shield
- ATP
- Demobilization
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Central Pump Pit Weather Delays
- Inspection & Closeout
- Contingency-CPP AW-02A
- Vapor Space Pressure Measurement
- Remove Existing Vapor Pressure Instruments
- Mobilization & Setup
- Spray Fixative
- Remove Cover Block
- Demo Existing Instruments in Pits
- Clean Debris/Wash Down Pit
- SPC Coatings - Pit
- Core Drill Cover Block (1 Hole)
- Coatings for Cover Blocks
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- Install LDE Sleeve
- Install Drain Plug
- Replace Cover Block
- Site Instrumentation (Wiring & LDE Cabinet)
- Install Missile Shield
- ATP
- Demobilization
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Drain Pit Weather Delays
- Inspection & Closeout
- Contingency-Drain Pit Mods AW-02D
- Mobilization & Setup
- Spray Fixative
- Remove Cover Block
- Demo Existing Instruments in Pits
- Clean Debris/Wash Down Pit
- SPC Coatings-Pit
- Core Drill Cover Block (1 Hole)
- Coatings for Cover Blocks
- Install LDE Sleeve
- Install Drain Plug
- Replace Cover Block
- Install LDE Probe Assembly
- Site Instrumentation (Wiring & LDE Cabinet)
- Install Missile Shield
- ATP
- Demobilization
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Feed Pump Pit Weather Delays
- Inspection & Closeout
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- Complete AW-102
- Valve Position Indicator Conduit & Wire -V-105
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**Site Instrumentation (Wiring & LDE Cabinet)**
- Install LDE Sleeve
- Install Drill Plug
- Replace Cover Block
- Install LDE Probe Assembly
- Site Instrumentation (Wiring & LDE Cabinet)
- Install Missile Shield
- ATP
- Demobilization
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Central Pump Pit Weather Delays
- Inspection & Closeout
- Contingency-CPF AW-05A
- Complete AW-105
- Vapor Space Pressure Measurement
- Remove Existing Vapor Pressure Instruments
- Valve Position Indicator Conduit & Wire - V404
- Coatings for Cover Blocks
- Install LDE Sleeve
- Install LDE Sleeve
- Replace Cover Block
- Install LDE Probe Assembly
- Site Instrumentation (Wiring & LDE Cabinet)
- Install Missile Shield
- ATP
- Demobilization
- Shop Fab (Drain, LDE sleeve, & missile shield)
- Central Pump Pit Weather Delays
- Inspection & Closeout
- Contingency-CPF AW-05A
- Complete AW-105
- Vapor Space Pressure Measurement
- Remove Existing Vapor Pressure Instruments
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**Title III: ENGINEERING DURING CONSTR. FY02**

- SURFACE SCAN
- START CONSTRUCTION - AW FARM
- PREPARE/APPROVE FABRICATION CWP
- PREPARE/APPROVE FIELD JCS
- PREPARE/APPROVE FIELD CWP
- SURFACE SCAN
- CF ADMINISTRATION FY91
- PREPARE/APPROVE JC5
- PREPARE/APPROVE CWP
- PENETRATION SLEEVES
- PREPARE/APPROVE FABRICATION CWP
- LOCK & TAG
- MOBILIZATION
- FORM COVER BLOCKS

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START CONSTRUCTION AVN-A PIT UPGRADES

- CRAFT SUPPORT FY01
- ASSEMBLE GREENHOUSE
- FAB/BURIAL BOXES
- FAB/INSTALL CONDUIT IN COVER BLOCKS
- PLACE GREENHOUSE
- FAB AND INSTALL CABINET FRAMES
- MOD 110 TON CRANE
- PREPARE COVER BLOCKS FOR REMOVAL
- POWER WASH & SPRAY FIXATIVE
- GENERAL REQUIREMENTS PIT 241-AW-A
- PULL COVER BLOCKS
- FAB NOZZLE SEALS
- MAP PIT (LMHC)
- DEMO 110 TON CRANE
- FAB NOZZLE SEALS
- POUR COVER BLOCKS
- PENETRATION SLEEVES
- MODIFY RWP AS REQUIRED (LMHC)
- DEMO PIPING & REMOVE DEBRIS
- FAB DRAIN VALVE HANDLE
- FAB DRAIN VALVE HANDLE
- FAB/INSTALL CONDUIT IN COVER BLOCKS
- FAB AND INSTALL CABINET FRAMES
- INSTALL NOZZLE SEALS
- EXCAVATE CONDUIT TRENCHES
- CLEAN & PREP PIT SURFACES
- SET TARGETS & PERFORM PHOTOGRAMMETRY
- SAND BED CONDUIT
- RUN SITE CONDUIT TO PITS
- FAB JUMPERS
- FAB DRAIN PLUG
- FAB DRAIN PLUG
- SPC COVER BLOCKS
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**120.012 Perform Acquisition Strategy for AW Tank Farm**

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- **Perform AW Farm Trade Studies**
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    - 115 | 01OCT01* | 18MAR02
    - 198,974.19 | D5A

- **Repair/Upgrade Existing AW TF Sys Req for WFD Ph 1**
  - T414G55A
    - 202 | 15APR03* | 11JUN03
    - 1,881,350.00 | D2A

- **Partial Doc AW-103 Sampling Plan/Blanket Testing**
  - T414U216A
    - 40 | 04APR01* | 30MAY01
    - 23,703.82 | DZ4

- **Prepare Process Control Plan for AW-103**
  - T416U25A
    - 30 | 17JAN03 | 28FEB03
    - 29,642.84 | DZ4

- **Dan AW-103 Wash/Recycle Sys and Oil Change**
  - T416U23A
    - 22 | 03MAR03 | 01APR03
    - 45,053.25 | DZ5

- **Construct AW-103 Mixing and Retrieval System**
  - T416U22A
    - 20 | 17JAN03 | 13FEB03
    - 0.00 | DZ5

- **Title III Engineering**
  - Mobilize
  - Greenhouses Support
  - Go Req Tech Serv/Stepoff Pard/New Hires/OT Allow
  - Protect Support
  - Prep CWP/JCS Work Packages
  - Stage Equipment at Cold Test Facility
  - Perform Equipment Preventive Maint
  - Training at CTF
  - Modify CTF for Training
  - Stage Crane Pit 03A
  - Prep Cover Blocks for Removal
  - Split Pit Prior to Cover Block Removal
  - Remove Cover Blocks Pit 03A
  - Remove Jumpers and Prep for Storage
  - Wrap and Stage Cover Blocks for Burial
  - Install Vapor Seals
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- **Activity Description**
  - Install Removal Equipment - 42" Flex Rec
  - Remove Transfer Pump With F/R
  - Install Depth Verification Plug
  - Transport Pump to Disposal
  - Depth Verification
  - Remove Depth Plug & Install Shield Plug
  - Install Temporary Cover Blocks
  - Weld Container End Cap
  - Ops Review and Release Package to Field
  - Grout Container
  - Assemble Nozzle Configuration for Jumper Fab
  - Remove Removal Equipment
  - Remove Jumpers & Prep for Storage
  - Install Vapor Seals
  - Remove Slurry Distributor
  - Install Temp 42" Shield Plug
  - Transport Slurry Dist rib to Disposal
  - Ops Review and Release Package to Field
  - Ops Review and Release Package to Field
  - Install Removal Equipment - 6" Flex Rec
  - Remove Thermocouple Tree with F/R
  - Remove Removal Equipment
  - Install Shield Plug
  - Transport TIC to Disposal
  - Weld End Cap
  - Grout Container
  - Prep CM/PCS Work Package
  - Ops Review and Release Package to Field
  - Operators Walkdown / Lock & Tag
  - Electrical Demo
  - Dispose of Removed Equipment
  - Scan for Excavation permit
  - Generate Excavation Permit
  - Ops Review and Release Package to Field
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- Pour New Pad for Air Control Station
- Rotate Air Control Station 90 Degrees
- Remove Old Air Control Station Pad
- Package Prep and Pre-Fabrication
- Fab 3' PW-(XXX)
- Fab New 42' Shield Plug - Riser-(XXX)
- Exc to Uncover Top of Riser-(XXX)
- Remove Exisit 42' Shield Plug - Riser-(XXX)
- Install Depth Verification Tool - Riser-(XXX)
- Install Spray Wash Riser Ext - Riser-(XXX)
- FormRebar Mixer Pump Findn - Riser-(XXX)
- Pour Mixer Pump Findn - Riser-(XXX)
- Install MP Mounting Plate - Riser-(XXX)
- Install 42' Depth Verif Shield Plug-(XXX)
- Remove Depth Verif Shield Plug-(XXX)
- Complete Backfill Riser Ext - Riser-(XXX)
- Cure Time & Paint - Riser-(XXX)
- Fab New 42' Shield Plug - Riser-(XXX)
- Exc to Uncover Top of Riser-(XXX)
- Remove Exist 42' Shield Plug - Riser-(XXX)
- Install Depth Verification Tool - Riser-(XXX)
- Install Spray Wash Riser Ext - Riser-(XXX)
- FormRebar Mixer Pump Findn - Riser-(XXX)
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- **Terminate Wires**
- **Continuity Testing**
- **Exc for Elec Cables - AW 271 to SW Encl**
- **Run Cables - AW 271 to SW Encl**
- **Terminate Wires**
- **Continuity Testing**
- **Complete Backfill Cables - AW 271 to SW Encl**
- **Exc for Elec Cables - AW 271 to CDA**
- **Run Elec Cables - AW 271 Annex to CDA**
- **Terminate Wires**
- **Continuity Testing**
- **Complete Backfill Cables - AW 271 to Caustic Sys**
- **In-Tank Equipment Install Training at CTF**
- **Step COMPLCS Equip Install Work Plgs**
- **Ops Review and Release Plg to Field**
- **Install Flex Hose Connection**
- **Mobilize for AW CDA in 271 Annex**
- **Connect Temp Winch Controls**
- **Stage Two Cranes**
- **Verify Winch & Install Transfer Pump**
- **Make Elec Connections to Transfer Pump**
- **Install Nitrogen Hose to Transfer Pump**
- **Ops Review and Release Plg to Field**
- **Test Mixer Pump-1 at MASF**
- **Install Shield Ring & Temp. Hose**
- **Stage Two Cranes**
- **Install Mixer Pump-1 - Riser (XXX)**
- **Make Elec Connections - Mixer Pump-1**
- **Run 1/2" SW (###)**
- **Install MP-1 Heat Tracing**
- **Ops Review and Release Plg to Field**
- **Test Mixer Pump-2 at MASF**
- **Install Shield Ring & Temp. Hose**
- **Stage Two Cranes**

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**100.U02 Procure Equipment for AW-103 Mix/Net System**

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**160.U00 Start and Test AW-103 Mix/Net System**

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- W-521 - Construct Retrieval System Tank AW-103
- W-521 - Construct AWAP Caustic/Diluent Addition Sys
- Start Construction
- Construction Complete
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T416US0B   | 10     | 04AUG05     | 17AUG05     | 105,890.70    | DZA        |
T416US0C   | 5      | 18AUG05     | 24AUG05     | 36,245.12     | DZA        |

180.093 Perf Mgmt Self-Assmnt for AW-103 Minig/Rtr Sys

T416US3A   | 45     | 30JUL04*    | 01OCT04*    | 21,348.79     | DZA        |
T416US3B   | 40     | 04OCT04     | 30NOV04     | 10,997.43     | DZA        |
T416US3D   | 30     | 01DEC04     | 01JAN05     | 38,681.01     | DZA        |
T416US3E   | 60     | 10JAN05     | 03AUG05*    | 129,733.58    | DZA        |

182.093 Provide CD-4 Approval for AW-103

T416US9A   | 15     | 25AUG05     | 15SEP05     | 0.00          | DZA        |
T416US9AX  | 0      | 12SEP05     | 0.00        | 0.00          | DZA        |

230.425 Prep AW TF for Construction Activities

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T4254E5B   | 5      | 02OCT00*    | 06OCT00     | 5,388.00      | DZA        |
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- Core Dome Loading-AW-104
- Core Profile/TSAP-AW-104
- Plan/Schedule material, Core-AW-104
- Plan/Schedule material, Core-AW-104
- Acquire Core Sample-AW-104
- Acquire Core Sample-AW-104
- Core Sample Analysis-AW-104
- Core Sample Analysis-AW-104
- Ship PAX Cask, Site, Core-AW-104

**Additional Activities**

- AW-104 Rheology Test-Prepare Test Plan
- AW-104 Rheo-Install Test Equip/Perform Rheo Test
- AW-104 Rheology - Perform Wash Tests/Analyze
- AW-104 Rheology Tst-Prepare Test Report
- Complete AW-104 (HLW)
- AW-104 Rheology Tst-Cleanup Hot Cell
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**440.048 Define Requirements for HLW Melt Disposition**

- Prepare HLW Melt Disposition Strategy/Planning
- Maintain HLW Melt Disposition Strategy/Planning

**440.050 Design/Produce HLW Sample Transport System**

- HLW Sample Transport (Criteria/QAPP/Schedule)
- Acceptance Test HLW Sample Transport System
- Receive, Analyze, and Disposition HLW Samples

**440.055 Design/Proc HLW Failed Melt Transport Sys**

- HLW Melt Transport System Program Support
- HLW Melt Transport Design Criteria/QAPP/Sch
- Prepare HLW Melt Conceptual Design
- Prepare HLW Melt Detailed Design
- Acceptance Test HLW Failed Melt
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**W-464 Structural Confirmatory Analysis**

**W-464 Procurement Support - Capital**

**W-464 Transportation Cask and Trolley**

**W-464 Vault Storage Tubes**

**W-464 Shielded Container Transporter**

**W-464 Overpack Weld Station**

**W-464 10 Ton Bridge Crane**

**Initiate W-464 Preliminary Design**

**W-464 Preliminary Design - Capital**

**W-464 Detailed Design - Capital**

**W-464 Select AE for Detailed Design**

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| CD 2-initiate W-484 Detailed Design |

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CD 3 - Outfit Vaults 2/3 CSB-HILW Part 1
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Outfit Vaults 2/3 CSB-HILW Part 1 - Capital
Outfit Vaults 2/3 CSB-HILW Part 1 - Capital
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W-644 Construction Support - Expense
W-644 Construction Support - Expense
W-644 Annex Construction/Weld Plt - Capital
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W-644 Annex Construction/Weld Plt - Capital
W-644 Construction Support - Capital
W-644 Construction Support - Capital
W-644 Construction Support - Capital

Initiate Startup and Test for HILW System
Develop Procedures/Training for HILW System
Interface BNFL INV14.015 Dev Prod Trans Proctc
POSTs Tests for HILW System

Develop Startup Notification Report for HILW Sys
Develop Plan of Action (POA) for HILW System
Dev Facility Plant Readiness Plan for HILW Sys
Concl Plant Ready Mgmt Self Assmt for HILW Sys
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**450.060 Startup and Test Module 1 HLW System**

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**455.660 Part Mgmt Self Assessment on Module 1 HLW Sys**

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**540.079 Hand Over Independent ORR on Module 1 HLW Sys**

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**540.08E Part Of-ORR ORR50t CD-4 on Module 1 HLW Sys**

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**Operations and Maintenance**

- Perform Contractor ORR for HLW System
- Provide TechAdmin ORR Support for HLW System
- Closeout ORR Comments for HLW System

- Perform DOE-ORR ORR for HLW System
- Provide TechAdmin DOE-ORR ORR Support for HLW System
- Closeout DOE-ORR ORR Comments for HLW System
- Obtain DOE CD-4 Approval for HLW System

**450.051 M40-11: Comp W-484 Construct (including Startup)**

- CD-4 Initial Hot Operations - CSSB
- Operation of HLW Carriage Storage
- Perform Preparation for Operations for CSS
- Interface from TBR 360015 Verify all HLW Feed
- Perform Hot Operations for CSS
- Perform Hot Operations FY13-15

Interface from Phase 145W Ops (Max Cnry Qty) RECEIVE LAST PHASE 1 HLW FOR DISPOSAL

**455.660 Develop Procedures/Training for Module 1**

OTP/Tests for Module 1

Develop Startup Notification Report for Module 1

Develop Plan of Action (POA) for Module 1

Dev Facility Plant Readiness Plan for Mod 1

Confirm Plant Ready Mgmt Self Assessment for Mod 1

- Perform Contractor ORR for Module 1
- Provide TechAdmin ORR Support for Module 1
- Closeout ORR Comments for Module 1
- Perform DOE-ORR ORR for Module 1
- Provide TechAdmin DOE-ORR ORR Support for Module 1
- Closeout DOE-ORR ORR Comments for Module 1
- Obtain DOE CD-4 Approval for Module 1
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### 780.020 HLW Module 1 W-JXX Conceptual Design

- **T78020A1**: 335 | 03JAN09 | 30APR07 | 8,000,000.00 | F1
- **T78020A2**: 382 | 01MAY07 | 31OCT08 | 218,003.70 | F1
- **T78020A3**: 382 | 01MAY07 | 31OCT08 | 218,003.70 | F1

### 780.030 HLW Module 1 W-JXX Design

- **T78030A1**: 208 | 03NOV08 | 31AUG08 | 18,800,000.00 | F1
- **T78030A2**: 374 | 01SEP09 | 28FEB11 | 38,000,000.00 | F1

### 780.040 HLW Module 1 W-JXX Construction

- **T78040A1**: 946 | 01MAR11 | 31JUL14 | 2,000,000.00 | F1
- **T78040A2**: 946 | 01MAR11 | 31JUL14 | 4,370,000.00 | F1

### 780.070 Obtain Permits for HLW Module 1 W-JXX

- **T78070A1**: 2,163 | 03JAN05 | 31JUL14 | 699,738.80 | F1

### 780.080 HLW Module 1 W-JXX Authorization Basis

- **T78080A1**: 127 | 03JAN05 | 30JUN05 | 118,330.64 | F1
- **T78080B1**: 18 | 03NOV08 | 29NOV08 | 40,032.51 | F1
- **T78080B2**: 147 | 01DEC08 | 30JUN09 | 183,613.18 | F1
- **T78080C1**: 251 | 02MAR10 | 26FEB11 | 504,177.18 | F1
- **T78080C2**: 65 | 01MAR11 | 31MAR11 | 33,470.11 | F1
- **T78080C3**: 127 | 01JUN11 | 30NOV11 | 450,200.12 | F1
- **T78080C3**: 61 | 01DEC11 | 28FEB12 | 183,518.00 | F1
- **T78080D1**: 130 | 01MAR12 | 31AUG12 | 2,345.41 | F1
- **T78080D2**: 62 | 04SEP12 | 30NOV12 | 14,351.45 | F1

### Diagram

- Prepare AGA for HLW Module 1
- Prepare ASA for HLW Module 1
- Update ALT Subcontractor
- Prepare Strategy Recommendation Document
- Interface to Hanford Site Technical Database
- Maintain ICD - HLW Phase 1B
- Prepare ASA for HLW Module 1
- Prepare Final Design - Module 1
- Convert Budget Cycle Mod 1 Stor Fac/Admin Bldg
- Prepare Advanced Conceptual Design - Module 1
- Prepare Preliminary Design Mod 1 - Capital
- Prepare Detailed Design - Module 1 - Capital
- Construct Module 1 - HLW Phase 16 - Capital
- Permitting for W-JXX
- Prepare Preliminary Safety Evaluation for W-JXX
- Prepare SARP Statement of Work for W-JXX
- Prepare SARP Development and Approval for W-JXX
- Prepare FSAR Development and Approval for W-JXX
- Prepare Task Plan for FSAR for W-JXX
- Prepare FSAR Development for W-JXX
- Develop TS/ST/Flow 5th Edition for W-JXX
- Prepare FSAR Final Approval for W-JXX
- TRS Implementation for W-JXX
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- Interface BNFL LVC15.012 Dev Round Cont Dim
- Interface BNFL LVC15.019 Dev Prg/Labeling
- Update Level 1 Specification for Disposal
- Maintain ILAW Disposal Closure Plan
  - Maintain ILAW Disposal Closure Plan
  - Prepare Waste Acceptance Criteria Per 435.1
  - Maintain Waste Acceptance Criteria Per 435.1
- Maintain Technical Requirements
- Maintain Technical Requirements
- Maintain Technical Requirements
- Prepare ILAW Monitoring Plan
- Update ILAW Monitoring Plan
- Update ILAW Program Plan
- Update ILAW Program Plan
- CRPS1.1(4) Submit Dft Revised ILAW Program Plan

**Define Requirements for ILAW Sample Transport:**

- Prepare ILAW Sample Level 1 Specification
  - Interface to Hanford Site Technical Database
  - Maintain ILAW Sample Level 1 Specification
  - Maintain ILAW Sample Level 1 Specification
- LAW Sample Transport Strategy/Planning
- LAW Sample Transport Functional Requirements
  - Interface BNFL LVC15.021 Prod Sample Protocol
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### 460.165 Data Collection for 2001 Performance Assessment

- Procure Workstation for Glass Calcite: CENRTC
- Prepare Waste Form Data Package
- Select More Data for 2001 PA
- CARRYOVER Obtain Waste Form Simulation Code-LINL
- CARRYOVER Waste Form Testing-ANL
- Prepare Geology Data Package
- Release Geology Data Package
- Release Recharge Data Package
- Prepare Far-Field Hydraulic Data Package
- Release Far-Field Hydraulic Data Package
- Document Near-Field Hydraulic Data Package
- Release Near-Field Hydraulic Data Document
- Document Far-Field Chemical Data Package
- Release Far-Field Chemical Data Package
- Issue V&V Report for Vadose Zone Simulation Code
- Issue V&V Report for Vadose Zone Simulation Code
- Issue V&V Report for Vadose Zone Simulation Code
- Prepare Workstation for Vadose Zone - CENRTC
- Releases Inventory Document
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**409.154A: Use Waste Form Data Package for 2001 PA**
- Issue Waste Form Data Package for 2001 PA
  - Create Data Packages for 2001 PA
  - Issue Data Packages for 2001 PA
  - Create Data Packages for 2001 PA
  - Issue Data Packages for 2001 PA
  - Test 2001 Base Analysis Cases/Sensitivity Cases
  - Perform Calculations for 2001 Analysis
  - Attack 2001 Analysis

- ORP9.1.1.11: Issue White Paper-LAW Perf Disp Sys
  - Update Waste Form Simulation Code

**409.159: Data Collection for Performance Assessment**
- Update Waste Form Simulation Code
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466-175 Maintain ILAW Part I Performance Assessment

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400.200 ILAW Disposal Facility Conceptual Design

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405.210 ILAW Disposal Facility Conceptual Design/Validation

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400.290 ILAW Disposal Facility Design

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400.290 ILAW Disposal Facility Procurement Support-Expense

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**Environmental Permits**

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**400.320A M-20-77 Submit ILAW Disp Part B Permit App to Eco**

- Prepare Preliminary Safety Evaluation for W-520
  - Prepare SARP Statement of Work for W-520
  - Prepare SARP Development and Approval for W-520
  - Prepare Task Plan for FSAR for W-520
  - Prepare FSAR Development for W-520
  - Develop TSRS Rev Slgy Egmont List for W-520
  - Prepare FSAR Final/Approval for W-520

**470.030 Dispose of Faded Materials**

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**470.076 ILAW Disposal Facility Operations**

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**470.080 Close ILAW Disposal Facilities**

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**470.100 Startup and Test ILAW Disposal Facility**

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Notice of Construction: Liquid Effluent Line Construction Start

Liquid Effluent LERF Lines

Liquid Effluent LERF Lines

Liquid Effluent TDF Lines

TDF Lines CCD Part IA

TDF Lines CCD Part IB

TDF Lines Readiness Review

Compli Construction/Startup Liquid Effluent System

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**330,000 Provide Utilities for Construction**

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**500,000 Provide Utilities During Startup**

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**336,100 Provide Utilities During Production**

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**Provide Solid Waste Disposal During Production**

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330.190 Provide Utilities During Deactivation

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330.120 Provide Vendor Training

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330.210 Liquid Effluent Infrastructure Support

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330.419 Replace 242-A Evaporator Condenser (EO-1)

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330.520 Design 242-A Evaporator Life Extension Upgrades

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330.440 Construct 242-A Evaporator Life Extension Upgrades

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330.560 Startup/Test 242-A Evaporator Life Extension Upgrades

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- **168.A15 Assess 2nd West/WM/Samp Analyst Price (HIL)**
  - Conduct Pre-Mgmt Self Assessmnt - LAW Feed

- **168.A17 Comp RAO&M Concept vs Op Test Proc Results (HIL)**
  - Assess Sec Waste, WM/WM/Samp Anal vs Plans
  - Compare RAO&M Concept vs OTP Results

- **168.A39 Prepare HLW Feed Certification DDO**

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**520.079 Develop and Mnt WFD Environmental Baseline**

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**910.179 Develop and Mnt WFD Environmental Baseline**

- **Develop & Manage Scope of EPAP FY00**
  - Develop & Manage Scope of EPAP FY01
  - Develop & Manage Scope of EPAP FY02
  - Develop & Manage Scope of EPAP FY03-07

- **Prepare WFD Project Specific EPAP FY03**
  - Prepare WFD Project Specific EPAP FY03-03
  - Prepare WFD Project Specific EPAP FY03-07

- **Prepare WFD Project Specific EPAP FY04-12**

- **Prepare WFD Project Specific EPAP FY13-18**

- **Prepare WFD Protection Specific EPAP FY18-18**

- **Prepare WFD Protection Specific EPAP FY19-18**

- **Provide Guidance for WFD Permit/Approval Changes FY00**
  - Provide Guidance for WFD Permit/Approval Changes FY01
  - Provide Guidance for WFD Permit/Approval Changes FY02
  - Provide Guidance for WFD Permit/Approval Changes FY03-12

- **Provide Guidance for WFD Permit/Approval Changes FY13-18**

- **Provide Guidance on WFD Pror Docs FY00**
  - Provide Guidance on WFD Pror Docs FY01
  - Provide Guidance on WFD Pror Docs FY02

- **Provide Guidance on WFD Pror Docs FY03-07**

- **Provide Guidance on WFD Pror Docs FY08-12**

- **Provide Guidance on WFD Pror Docs FY13-18**

- **Provide Guidance on WFD Pror Docs FY19-18**

- **Provide Guidance on WFD Pror Docs FY19-18**

- **Provide Coordination WFD Environ with TWRS Org FY00**
  - Provide Coordination WFD Environ with TWRS Org FY01
  - Provide Coordination WFD Environ with TWRS Org FY02

- **Provide Coordination WFD Environ with TWRS Org FY03-12**

- **Provide Coordination WFD Environ with TWRS Org FY13-18**

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Project Mgt & Generator Services Support FY2006

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**Project Engineering-AN**

- **Environmental Support of DD - AN**
- **Safety Analysis-AN**

**Project Engineering-AN**

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    - "Project Engineering-AN"
      - "Project Engineering-AP"
      - "Projects Engineering-AP"
      - "Quality Assurance-AP"
      - "Environmental Support of DD"
      - "Safety Analysis-AP"

**Systems Engineering-AN**

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    - "FY Contingency - FY00 Ph-1"
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    - "FY Contingency - FY01 Ph-1"
  - "FY Project Management - FY02"
    - "FY Contingency - FY02 Ph-1"
  - "FY Project Management - FY03"
    - "FY Contingency - FY03 Ph-1"

**Milestone: W-314 Phase 1 Complete**

**Milestone: W-314 Complete (End)**

- **Milestone: M-43-13 Start Construction in 2nd Farm**
  - **Milestone: M-43-14 Start Construction in 3rd Farm**
  - **Milestone: M-43-15 Start Construction in 4th Farm**
  - **Milestone: M-43-18 Start Construction in 5th Farm**
  - **Milestone: M-43-00 Complete FF Upgrades**
  - **Milestone: M-43-14 Contractor Deliverables**
    - "Systems Engineering-AN"
  - **Project Engineering-MPS Design (FY00)**
  - **Project Engineering-MPS Construction FY01**
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Safety Analysis-SY (Pits) DO, Construction

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Project Engineering-AP

Systems Engineering-AP

Systems Engineering-AP

Quality Assurance-AP

Quality Assurance-AP

Environmental Support of Construction

Environmental Support of Construction

Safety Analysis-AP

Safety Analysis-AP

Env. Plan Summ. & Permit Plan Annual Update PH-2

Env. Plan Summ. & Permit Plan Annual Update PH-2

Env. Plan Summ. & Permit Plan Annual Update PH-2

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SE Risk Management FY-00 PH-2

SE Risk Management FY-00 PH-2

SE Risk Management FY-02 PH-2

SE Risk Management FY-03 PH-2

SE Risk Management FY-04 PH-2

SE Risk Management FY-05 PH-2

Expense Acceleration/Integration FY-00

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130.023 Support DOE/RNF Proposal and Studies

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130.018 Maintain Waste Feed Delivery System Operable

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### 150.88 WFD Char Needs Matrixes & Specific QOO/Spillway Bed Elevation

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### 150.B17 Maintain Auth Baseline/History Safety Eval Reports

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### 150.B02 Maintain Operations & Utilization Plan (OUSP)

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- **Note:** The document includes a table with various activity IDs, dates, and budgets, along with a section on revising bases and assumptions for FY01, performing technical analysis, reviewing TWRS operation and utilization plan, reviewing TWRS operator & utilization plan, and obtaining PHMCRL Approvals. It also notes the implementation of HTWOS model revision.
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**154.250 Maintain Waste Feed Delivery ICDs 19 and 20**

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**620.000 Align WFD Activities with Environmental Baseline**

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**Maintain HTWOS Model FY01**

**Maintain HTWOS Model FY02**

**Support IPT Process FY08**

**Support IPT Process FY91**

**Support IPT Process FY92**

**Update ICDs 18 & 20 FY08**

**Update ICDs 18 & 20 FY09**

**W-521 Project Management Capital FY01**

**W-521 Project Management Capital FY02**

**W-521 Project Management Capital FY03-12**

**W-521 Project Management Expense FY01**

**W-521 Project Management Expense FY02**

**W-521 Project Management Expense FY03-12**

**Environ Performance Monitoring & Asst FY00**

**Environ Performance Monitoring & Asst FY01**

**Environ Performance Monitoring & Asst FY02**

**Environ Performance Monitoring & Asst FY03-12**

**General Environ Support to TWRS Orgs FY00**

**General Environ Support to TWRS Orgs FY01**

**General Environ Support to TWRS Orgs FY02**

**General Environ Support to TWRS Orgs FY03-12**

**General Environ Support to TWRS Orgs FY13-18**

**Maintain Config Mgmt for Environ Info FY00**

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**Maintain Config Mgmt for Environ Info FY02**
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**110.703 Manage Tank Waste Retrieval and Disposal Operations**

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**Revise Project EPAP for W-XX1 FY00**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA

**Revise Project EPAP for W-XX1 FY01**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA

**Revise Project EPAP for W-XX1 FY02**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA

**Revise Project EPAP for W-XX1 FY03-04**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA

**Revise Project EPAP for W-XX1 FY05-12**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA

**Revise Project EPAP for W-XX1 FY13-18**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA

**Maintain Contingent Mgmt for Enviro Info FY10-12**

- Participate in Baseline Update to Id Tech Needs
- Perform Quality check M/YWP for Tech Insert Pts
- Support RPP Tech needs as Prioritized
- Attend TFA Midyear Tech Review
- Coordinate review of docs provided by TFA
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Sheet 363 of 408
### Q1: WFD Project Definition

#### TW04 Retrieval

**129.005 Deactivate Double Shell Tank System Spec and ICDs**

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| T47175002  | 251     | 02OCT09     | 28SEP01      | 181,289.16    | R1         |       |

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### TW05 Process Waste Support

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**Notes:**
- **Update ICD Issues for ATP Case**
- **Revisit Mapping for ATP Case**
- **Coordinate Interface Process Team FY00**
- **Maintain Contract & Requirements Analysis FY02**
- **Issue Contract/Request Analysis Report**
- **Maintain Contract & Requirements Analysis FY03-07**
### TW04 Retrieval

#### 2.10.5 Prepare SST Retrieval Licensing Strategy
- **T42710SA**: 126, 02OCT00, 2MAR01, 95,947.00, S1
- **T42710SD**: 60, 27MAR01, 19JUN01, 22,063.72, S1

#### 2.11.5 Perform SST Retrieval USG Process
- **T42711A**: 254, 02OCT00, 03OCT01, 301,029.20, S1

#### 2.12.1 Prepare Initial SST Program Plan
- **T42721A**: 148, 01MAR00, 27SEP00, 176,148.95, S1
- **T42721B**: 232, 02OCT00, 31AUG01, 72,088.32, S1

#### 2.3.0 Prepare SST Retrieval Project Plan
- **T42731A**: 85, 01MAR00, 22AUG00, 44,812.48, S1
- **T42731B**: 65, 26JAN01, 30APR01, 132,476.18, S1
- **T42731BM**: 0, 30APR01, 0.00, S1
- **T42731BN**: 0, 30APR01, 0.00, S1

#### 2.8.10 Evaluate Retrieval Technology Solutions
- **T42761A**: 83, 09JUL00, 2SEP00, 51,800.00, S1
- **T42761B**: 118, 01FEB00, 01AUG00, 90,200.00, S1
- **T42761C**: 60, 17JAN00, 10APR00, 35,400.00, S1
- **T42761CM**: 0, 2SEP00, 0.00, S1
- **T42761D**: 150, 02OCT01, 07MAY02, 247,000.00, S1
- **T42761E**: 157, 03APR00, 2SEP00, 82,500.00, S1
- **T42761F**: 124, 02OCT00, 30MAR01, 100,600.00, S1

#### 2.9.11 C-106 Residual Assessments
- **T42781A**: 150, 01MAR00, 2SEP00, 400,000.00, S1
- **T42781B**: 88, 01MAR00, 03JUL00, 50,000.00, S1
- **T42781C**: 62, 02OCT00, 02JAN01, 272,000.00, S1
- **T42781D**: 85, 03JAN01, 07MAY01, 150,000.00, S1

#### 2.9.15 Assess SST Tank Farm Infrastructure System Needs
- **T42761A**: 75, 02OCT01, 21JAN02, 183,454.40, S1
- **T42761B**: 75, 22JAN02, 07MAY02, 183,454.40, S1
- **T42761BM**: 0, 07MAY02, 0.00, S1

#### 2.8.20 Evaluate Leak Detection Solutions
- **T42782A**: 181, 01JAN00, 2SEP00, 363,332.20, S1
- **T42782B**: 20, 21AUG00, 1SEP00, 11,399.54, S1
- **T42782C**: 120, 02OCT07, 2MAY08, 182,446.80, S1
- **T42782DM**: 0, 3SEP00, 0.00, S1
- **T42782DN**: 0, 3SEP01, 0.00, S1

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- **FY00** | **FY01** | **FY02** | **FY03** | **FY04** | **FY05** | **FY06** | **FY07** | **FY08** | **FY09** | **FY10** | **FY11** | **FY12** | **FY13** | **FY14** | **FY15** | **FY16** | **FY17** | **FY18** | **FY19** | **FY20**

- **Develop Licensing Strategy & Task Plan**
- **Review/Approve Issue Licent Strat & Task Plan**
- **Prepare SST Retrieval Project Plan**
- **Prepare SST Retrieval Project Plan**
- **Prepare SST Retrieval Technology Program Test Plan**
- **Review/Revise Comments on SST Retrieval Test Plan**
- **Issue SST Retrieval Technology Program Test Plan**
- **Test Out Tech Appr for Testing Ret Solution**
- **Evaluate SST Retrieval Technology Alternatives**
- **Project Data Review and Assessment**
- **Phase 1 Technology AGA**
- **Perform AEAs Technology Assessment**
- **Saltworks/Sprinkler Design Prelim Eng**
- **Saltworks/Sprinkler Design Prelim Eng**
- **Assess Public Risk**
- **Assess Residuals Reatval Options**
- **Cost Benefit Analysis**
- **Submit Proposed Plan to DOE/Ecology**
- **Assess/Identify Tank Farm Infrastructure Upgrades**
- **Prepare Tank Farm Infrastructure Upgrade Report**
- **Issue Infrastructure System Needs Report**
- **Crawler / Stacking / Residual Design Concepts**
- **Prepare Annual LDMM Progress Report FY09**
- **Prepare Saltworks/Sprinkler Design Concept**
- **M-45-008: Submit Annual LDMM Progress Reports**
- **M-45-009: Submit Annual LDMM Progress Reports**

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270.650 Assess Tank Conditions

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270.640 Define SST Retrieval Sequences

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270.650 Determine Retrieval Risks

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270.655 Determine Process Improvement Breakthroughs

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295.103 Perform Limits of Technology Demonstration

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**SST Test & Demonstration Specification**

- **T428210A**
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- **T428210B**
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- **T428210GM**
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  - 6.00
- **T428210C**
  - 02/OCT01: 28/SEP01
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**Acquire Cold Test Capability**

- **T428210A**
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  - 34,023.80
- **T428210B**
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  - 1,241,894.00
- **T428210C**
  - 20: 08/OCT03
  - 22,531.28
- **T428210D**
  - 120: 26/MAR01
  - 319,511.30

**Saltlakke Dissolution Tests**

- **T428210M**
  - 155: 01/DEC00: 27/JUL81
  - 1,140,880.00

**Saltlakke Dissolution Hot Test Design**

- **T428210A**
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  - 35,739.34
- **T428210B**
  - 30: 01/APR02: 10/MAY02
  - 71,472.48
- **T428210C**
  - 10: 13/AUG02: 24/MAY02
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- **T428210D**
  - 20: 28/MAY02: 24/JUN02
  - 47,848.32
- **T428210E**
  - 30: 25/JUN02: 06/AUG02
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- **T428210F**
  - 5: 07/AUG02: 13/AUG02
  - 11,812.00
- **T428210G**
  - 30: 14/AUG02: 25/SEP02
  - 59,500.40
- **T428210H**
  - 5: 28/SEP02: 02/OCT02
  - 11,812.00
- **T428210I**
  - 15: 03/OCT02: 23/OCT02
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**Saltlakke Dissolution Retrieval Demonstrations**

- **T428210BA**
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  - 735,000.00
- **T428210BB**
  - 252: 03/SEP00: 02/SEP01
  - 1,000,000.00
- **T428210CA**
  - 253: 28/JUN02: 30/JUN03
  - 7,000,000.00
- **T428210CB**
  - 77: 01/JUL03: 17/OCT03
  - 500,000.00
- **T428210CD**
  - 61: 03/SEP02: 27/JUN02
  - 15,957.60
- **T428210CE**
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