

Attachment L-16

WBS Dictionaries for Task Order 3 – Efficient Base Operations

Tank Closure Contract
T.3.1.1 Closure of all 177 Tanks
WBS Dictionary

(a) Scope of Work:

- (1) The scope of this work involves systematic integration and efficient optimization of the Tank Closure Mission to close all 177 Hanford tanks in a manner that effectively and efficiently expedites the reduction in risk to the environment and environmental liability. This requires that the associated execution of work be:
 - (i) Conducted in conjunction and/or consultation with subject matter experts (SME) across the industry, the National Laboratory network, and higher-level technical education institutions.
 - (ii) Informed by recent scientific studies regarding Hanford tank waste treatment and disposal methods.
- (2) **Mission Planning & Analysis (T.3.1.1.1):** Mission Planning and Analysis work scope includes developing, maintaining, and submitting for DOE approval the Tank Closure Mission Strategy and the Multi-Year Operating Plan (MYOP), as referenced in Section C.2.1 and Section J-10.
 - (i) The Tank Closure Mission Strategy is a comprehensive document that narratively contains and describes a decision network that logically links pathways for treatment of waste and tank closure with the MYOP, lifecycle baseline and mission integration, and optimization activities.
 - (ii) The Tank Closure Mission Strategy is a living document that is maintained under configuration control, is fluid to innovative approaches, and serves as the governing directional document for actions necessary to expedite completion of the Tank Closure Mission.
 - (iii) As the decision logic links to the 3 year window of the MYOP for execution, the Contractor shall ensure regulatory compliance with current Tri-Party Agreement (TPA) and Consent requirements.
 - (iv) The MYOP is an integrated operating plan that flows down direction to and maintains alignment with near term execution plans (3-year window of the Performance Measurement Baseline), the lifecycle baseline and mission integration and optimization activities. The MYOP is a living document that is maintained under configuration control and serves as the governing directional document for near term execution.
- (3) **Mission Integration & Optimization (T.3.1.1.2):** Mission Integration and Optimization work scope includes the integration and efficient optimization of the Tank Closure Mission, including integration between the Contractor and Other Hanford Contractors (OHC), as referenced in Section C.2.2 and Section J-10.
 - (i) The Tank Closure Mission integration and efficient optimization activities and products continuously receive inputs from, and provide inputs to, near-term execution and long-term planning.

(b) Scope Requirements:

- (1) Tank Operations Contract Project Execution Management Plan
- (2) Tank Closure Mission Strategic Plan
- (3) Washington River Protection Solutions, LLC MYOP, Rev. 5

Tank Closure Contract
T.3.1.1 Closure of all 177 Tanks
WBS Dictionary

- (4) Tank Closure Integrated Flowsheet
- (5) RPP-40149, Integrated Waste Delivery Plan, Volumes 1, 2 and 3
- (6) ORP-11242, River Protection Project System Plan, Rev. 8
- (7) HNF-EP-0182, Waste Tank Summary Report, Rev. 371 (revised monthly)

(c) Scope Assumptions:

- (1) Planning for closure of 177 tanks is for a 6-month period.
- (2) Near-term activities occur within a nominal 5 year period of the current date for the MYOP.
- (3) Impacts to near-term activities are evaluated for a 3 to 10 year period, subsequent to the completion of the near-term activities.
- (4) TOP Sim model, or similar modeling tools, will be used as the basis for the MYOP data.
- (5) TOP Sim model is kept in alignment with current field conditions, integrated flowsheet, and near-term plans.
- (6) Mission Analysis engineering and modeling resources will perform simulations and evaluations of near-term mission to support the MYOP.
- (7) Up to 15 scenarios are evaluated in a 6 month period for the System Plan.
- (8) Strategic Plan reflects the Tank Closure Contract (TCC) planning basis.
- (9) System Plan evaluations, analysis, and scenarios are performed for mission-level scoping and planning.
- (10) System planning analysis tools will maintain existing capabilities and functionalities.
- (11) Waste Feed Delivery Program will remain structured as a three-volume document (Process Approach, Campaign Plan, and Project Plan).
- (12) Deliverables will be provided annually, with the exception of the MYOP, Waste Tank Summary Report, and System Plan.
- (13) The Tank Closure Strategic Plan requires U.S. Department of Energy (DOE) concurrence prior to first issuance to ensure mission objectives are planned adequately.
- (14) System Plan will be generated every 3 years, in accordance with TPA requirements.

(d) Exclusions:

None

Tank Closure Contract
T.3.2.1 Central Tank Operations
WBS Dictionary

(a) Scope of Work:

- (1) Central Tank Operations includes work scope to maintain and operate the Central Tank system in support of safe storage and retrieval of tank waste, as referenced in Section C.3.1.
- (2) **Central Tank Operations– Management & Operations (T.3.2.1.1):** This work scope includes the central command, control, and reporting of integrated operational and maintenance activities of all tank farm facilities, components, equipment to complete the Tank Closure Mission, including but not limited to: Single-Shell Tank (SST) Farms, Double-Shell Tank (DST) Farms, 242-A Evaporator, Liquid Waste Processing Facility (LWPF), Waste Feed Delivery System, Cross-site transfer lines and associated facilities, Waste storage and consolidation facilities, Sampling and Characterization, Tank Chemistry and Integrity.
 - (i) Additional work scope includes managing and overseeing surveillance systems necessary to maintain compliance with regulatory and safety basis, work release, field execution and operator training; providing response to, and notification of, operational, abnormal, and emergency conditions. Provide shift operations required to perform emergency response, shift surveillances, and maintain the compliance envelope. Central Tank Management and Operation also performs procurement of and warehousing of all tank farm consumables, materials, and equipment; detailed planning and implementation to support packaging and treatment for disposal of secondary liquid and solid wastes generated in the tank farms and assigned facilities, including transporting waste to an appropriate disposition facility.
- (3) **Central Tank Operations - Engineering & Technical Support (T.3.2.1.2):** Engineering provides disciplined leads for mechanical, ventilation, civil/structural, and electrical and instrumentation control pertaining to engineering and design initiatives, a design authority program, and system design description updates. When appointed by DOE, Engineering functions as the design authority and acts as the National Fire Protection Association (NFPA) 70, National Electrical Code Authority Having Jurisdiction. Engineering is responsible for establishing and maintaining the Documented Safety Analysis, Technical Safety Requirements, system health reports, engineering procedures, standards, and configuration control of engineering drawings in support of retrieval operations and maintenance and closure activities for various reports, plans, and other documents, as needed. This includes providing the engineering performance indicators, engineering qualification process, maintenance of SmartPlant Foundation software, and management of the engineering program budget.
 - (i) The E&T support assists with addressing gaps on current chemical vapor protection communications and the overall assessment of chemical vapor programmatic status. Other E&T support includes maintaining the Tank Waste Inventory (TWINS) Database, and the Site Wide Industrial Hygiene Database. Other Hanford Site Service contractors periodically provide, as necessary, input into the Data Quality Objective, Tank Waste Summary Report, Best Basis Inventory (BBI), and Data Review.
- (4) **Central Tank Operations – Maintenance (T.3.2.1.3):** Includes the identification of necessary personal protective equipment, safety equipment, parts, materials, and tools necessary for preventive maintenance (PM) and corrective maintenance (CM) of the LWPF, 242-A Evaporator and SST farms, DST farms as well as equipment in support of for Sampling and Characterization and Tank Chemistry and. Procurement and warehousing function is performed under Management & Operations (T.3.2.1.1).

Tank Closure Contract
T.3.2.1 Central Tank Operations
WBS Dictionary

- (i) In addition, maintenance of office facilities include fire systems inspections, testing, maintenance, and surrounding areas (e.g., parking lots, sidewalks, ground areas, etc.).
- (ii) The Process and Control Systems (P&CS) Management organization consistently provides corrective, preventative, and predictive maintenance of tank farm systems and software. Scope includes service to support system management and administration, maintenance of process software applications, and control systems used to support the Tank Closure Contract (TCC) mission.

(b) Scope Requirements:

- (1) HNF-SD-WM-TSR-006, Rev. 08F, Tank Farms Technical Safety Requirements
- (2) RPP-13033, Rev. 07K, Tank Farms Documented Safety Analysis
- (3) OSD-T-151-00007, Rev. 22, Operating Specifications for the Double-Shell Storage Tanks
- (4) OSD-T-151-00010, Rev. 3, Operating Specifications for Pressure Testing and Leak Detection for Tank Farm Transfer Systems and For Control And Use Of Temporary Transfer Lines
- (5) OSD-T-151-00012, Rev. 8, Operating Specifications for 242-A Evaporator
- (6) OSD-T-151-00013, Rev. 7, Operating Specifications for Single-Shell Waste Storage Tanks
- (7) OSD-T-151-00031, Rev. 14, Operating Specifications for Tank Farm Leak Detection and Single-Shell Tank (SST) Intrusion Detection
- (8) RPP-PLAN-49038, Rev. 07, Engineering Improvement Plan
- (9) TFC-PLN-03, Rev. H-2, Engineering Program Management Plan
- (10) TFC-POL-07, Rev. F-0, Engineering Policy and Chief Engineer Expectations
- (11) TFC-CHARTER-33, Rev. A-25, Safety Basis Change Review Board
- (12) TFC-PLN-158, Transfer of Knowledge
- (13) TFC-PLN-03 Rev. H-4, Engineering Program Management Plan

(c) Scope Assumptions:

- (1) Central Tank Operations scope is for a 6-month period.
- (2) Central Operations assumes all responsibility for SST/DSST farms during off-shift.
- (3) Warehouse services are provided by TCC.
- (4) General office supplies, personal protective equipment, safety equipment parts, materials, and tools necessary for operations are to be procured, inventoried, stored, and released by Central Tank Operations.
- (5) Spare Parts are available for a 6-month period of operations and are provided for maintenance activities only.

Tank Closure Contract
T.3.2.1 Central Tank Operations
WBS Dictionary

- (6) No provisions have been made to procure Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (7) Hanford Atomic Metal Trades Council remains consistent.
- (8) Assume vapor controls, including self-contained breathing apparatus, and/or air-purifying respirators are required when performing operational and/or maintenance activities within SST and DST farms
- (9) Central Tank Operations scope includes handling all waste packaging and shipping.
- (10)The slurry transfer portion of the cross-site transfer system was never commissioned, and the supernate portion was last used for a waste transfer in 2007. Neither system has been maintained in operational status; substantial repairs and replacements of components should be assumed necessary, prior to use. This work is outside the Task Order period of performance.
- (11)Waste storage and consolidation facilities are fully functional and maintained up to the point of contract transition from the Tank Operations Contract (TOC) to TCC.
- (12)Equipment necessary for tank waste liquid and solid sampling, as well as chemistry and integrity inspections, are fully functional and maintained up to the point of contract transition from TOC to TCC.

(d) Exclusions:

- (1) Services and/or support to the 222-S Laboratory are not in-scope.
- (2) Construction upgrades or life-extension projects.

Tank Closure Contract
T.3.2.2 Single-Shell Tank System Operations
WBS Dictionary

(a) Scope of Work:

- (1) Single-Shell Tank (SST) System Operations includes work scope to maintain and operate the SST system in support of safe storage and retrieval of tank waste, as referenced in Section C.3.2.
- (2) **SST Management & Support (T.3.2.2.1):** This work scope includes management of operational and maintenance activities, field oversight, project management, administrative support, and project controls, as well as upward communications with, and reporting to, the Central Operations.
- (3) **SST Engineering & Technical Support (T.3.2.2.2):** Provide SST specific engineering support, engineering & design initiatives, design authority functions, and system design description updates. Direct technical support for the SST System Operations organization includes Authorization Basis implementation, Corrective Action Management, Assessment Program implementation, Performance Assurance Management, and Engineering Support for special projects. Also, maintain configuration control of engineering drawings in support of maintenance activities for various reports, plans, and other documents, as needed.
- (4) **SST Operations (T.3.2.2.3):** Includes Operator Surveillance rounds, RadCon Survey rounds, and routine Industrial Hygienist (IH) Survey rounds.
- (5) **SST Maintenance (T.3.2.2.4):** Perform preventive maintenance (PM) and corrective maintenance (CM) on SST systems, structures, and components. This includes the scheduling and deconflicting of work in the field.
 - (i) **SST Corrective Maintenance:** Provide SST corrective maintenance to support safe storage of tank waste.
 - (A) Provide corrective maintenance, as needed, in support of SST repair or replacement of systems, structures, and components (SSC) needed to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
 - (ii) **SST Preventative Maintenance:** Provide SST preventative maintenance to support safe storage of tank waste.
 - (A) Provide preventative maintenance in accordance with manufacturer's and/or design authority recommendations to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) Preventative maintenance includes predictive, periodic, and planned maintenance actions, and is employed to satisfy regulatory requirements and manufacturer's maintenance recommendations, as well as ensure optimum equipment operating life until facility closure.
 - (C) Maintain configuration control of routine model work packages.
 - (D) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.

Tank Closure Contract
T.3.2.2 Single-Shell Tank System Operations
WBS Dictionary

- (6) Maintenance activities are performed in accordance with the approved work control process plan and worker safety and health processes/procedures, such as the Job Hazard Analysis (JHA) procedure and the Electrical Hazards Evaluation (EHE) procedure.

(b) Scope Requirements:

- (1) HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements
- (2) RPP-13033, Tank Farms Documented Safety Analysis
- (3) DOE O 433.1A, *Maintenance Management Program for DOE Nuclear Facilities*
- (4) 62 Federal Register 8693, “U.S. Department of Energy Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington”
- (5) DOE/EIS-0189, Tank Waste Remediation System, Hanford Site, Richland, Washington, Final Environmental Impact Statement; and subsequently approved supplemental analyses
- (6) HNF-5183, Tank Farms Radiological Control Manual, and implementing Administrative Procedures
- (7) TFC-ESHQ-S_IH-C-48, Managing Tank Chemical Vapors

(c) Scope Assumptions:

- (1) Project support activities and requirements will remain at their current programmed levels; new work scope development and implementation are not included.
- (2) Priority is given to all safety and environmental concerns when planning preventive and corrective maintenance activities.
- (3) Self-Contained Breathing Apparatus (SCBA) required for farm entry.
- (4) SST System Operations for a 6-month period.
- (5) Spare Parts are available for a 6-month period of operations and are provided for maintenance activities only.
- (6) No provisions have been made to procure Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (7) HAMTC remains consistent.
- (8) CM and PM for tank-specific retrieval systems is excluded from this scope and is provided under tank-specific retrieval projects.
- (9) SST Engineering and Technical Support will designate and prioritize TSR, Environmental, and Important to Safety equipment required to be operable in any SST farm or facility.
- (10) Training time for Bargaining Unit Employees included in Core Functions - Training.
- (11) Waste disposal, including offsite disposal services, is provided by Central Tank Operations.

Tank Closure Contract
T.3.2.2 Single-Shell Tank System Operations
WBS Dictionary

- (12) Central Operations assumes all responsibility for SST farms during off-shift.
- (13) Warehouse services are provided by Central Tank Operations.
- (14) The Tool Room will stock the proper special tools and equipment to support fieldwork with sufficient quantities of equipment requiring calibration, which is maintained in a calibrated condition to support fieldwork.
- (15) Activities concerning major facility upgrades, integrity assessments, or SST Farm operations are not included in this WBS element.

(d) Exclusions:

- (1) Activities associated with Double-Shell Tanks (DST) or Direct-Feed Low Activity Waste.
- (2) SST Retrieval and closure operations or activities.
- (3) Support to any new or updated Resource Conservation and Recovery Act of 1976 (RCRA) permitting activities.
- (4) Spare Parts for any unplanned facility enhancements/systems, catastrophic failures, or major system upgrades that may ultimately be required.

Tank Closure Contract
T.3.2.3 Double-Shell Tank (DST) System Operations
WBS Dictionary

(a) Scope of Work:

- (1) Double-Shell Tank (DST) System Operations includes work scope to maintain and operate DST systems while pursuing operating and engineered solutions for preserving existing and increasing maximum DST usable space, as referenced in Section C.3.3.
- (2) **DST Management & Support (T.3.2.3.1):** This work scope includes management of operational and maintenance activities, field oversight, project management, administrative support, and project controls, as well as upward communications with and reporting to the Central Operations.
- (3) **DST Engineering & Technical Support (T.3.2.3.2):** Provide DST specific engineering support, engineering & design initiatives, design authority functions, and system design description updates. Direct technical support for the DST System Operations organization includes Authorization Basis implementation, Corrective Action Management, Assessment Program implementation, Performance Assurance Management, and Engineering Support for special projects. Also, maintain configuration control of engineering drawings in support of maintenance activities for various reports, plans, and other documents, as needed.
- (4) **DST Operations (T.3.2.3.3):** Includes Operator Surveillance rounds, RadCon Survey rounds, and routine Industrial Hygienist (IH) Survey rounds in support of DST to DST transfers, DST Retrievals, 242-A Evaporator operations, qualification, pre-treatment, staging, and transfer of waste feed to treatment system, receipt of waste streams, and future supplemental treatment method.
- (5) **DST Maintenance (T.3.2.3.4):** Perform preventive maintenance (PM) and corrective maintenance (CM) to DST systems, structures, and components. This includes the scheduling and deconflicting of work in the field.
 - (i) **DST Corrective Maintenance:** Provide DST corrective maintenance to support the preservation of existing and increasing maximum DST usable space.
 - (A) Provide corrective maintenance, as needed, in support of DST repair or replacement of systems, structures, and components (SSCs) needed to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
 - (ii) **DST Preventative Maintenance:** Provide DST preventative maintenance to support the preservation of existing and increasing maximum DST usable space.
 - (A) Provide preventative maintenance in accordance with manufacturer's and/or design authority recommendations to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) Preventative maintenance includes predictive, periodic, and planned maintenance actions; is employed to satisfy regulatory requirements and manufacturer's maintenance recommendations; and ensure optimum equipment operating life until facility closure.
 - (C) Maintain configuration control of routine model work packages.

Tank Closure Contract
T.3.2.3 Double-Shell Tank (DST) System Operations
WBS Dictionary

- (D) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
- (E) Maintenance activities are performed in accordance with the approved work control process plan, and worker safety and health processes/procedures, such as the Job Hazard Analysis (JHA) procedure and the Electrical Hazards Evaluation (EHE) procedure.

(b) Scope Requirements:

- (1) HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements
- (2) RPP-13033, Tank Farms Documented Safety Analysis
- (3) DOE O 433.1A, *Maintenance Management Program for DOE Nuclear Facilities*
- (4) 62 Federal Register 8693, "U.S. Department of Energy Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington"
- (5) DOE/EIS-0189, Tank Waste Remediation System, Hanford Site, Richland, Washington, Final Environmental Impact Statement; and subsequently approved supplemental analyses
- (6) HNF-5183, Tank Farms Radiological Control Manual, and implementing Administrative Procedures
- (7) HNF-SD-WM-TRD-007, System Specification for the Double-Shell Tank System
- (8) HNF-4155, Double-Shell Tank Monitor and Control Subsystem Specification
- (9) HNF-4157, Double-Shell Tank Utilities Subsystem Specification
- (10) HNF-4159, Double-Shell Tank Maintenance and Recovery Subsystem Specification
- (11) HNF-4160, Double-Shell Tank Transfer Valving Subsystem Specification
- (12) HNF-4161, Double-Shell Tank Transfer Piping Subsystem Specification
- (13) HNF-4162, Double-Shell Tank Transfer Pump Subsystem Specification
- (14) HNF-4163, Double-Shell Tank Diluent and Flush Subsystem Specification
- (15) HNF-4164, Double-Shell Tank Mixer Pump Subsystem Specification
- (16) RPP-SPEC-45605, Double-Shell Tank Ventilation Subsystem Specification
- (17) RPP-SPEC-47615, Double-Shell Tank Process Waste Sampling Subsystem Specification.
- (18) TFC-ESHQ-S_IH-C-48, Managing Tank Chemical Vapors

(c) Scope Assumptions:

- (1) Project support activities and requirements will remain at their current programmed levels; new work scope requiring development and implementation are not included.
- (2) Priority is given to all safety and environmental concerns when planning preventive and corrective maintenance activities.

Tank Closure Contract
T.3.2.3 Double-Shell Tank (DST) System Operations
WBS Dictionary

- (3) Self-Contained Breathing Apparatus (SCBA) and/or air-purifying respirators (APRs) fitted with chemical filter cartridges required for farm entry.
- (4) No provisions have been made to procure Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (5) Assume no major facility upgrades or life extensions are performed during the first 6 months of operations.
- (6) The experience with HAMTC remains consistent.
- (7) Corrective and preventative maintenance for tank-specific retrieval systems is excluded from this scope and is provided under tank-specific retrieval projects.
- (8) DST Engineering and Technical Support will designate and prioritize technical safety requirements (TSR), Environmental, and Important to Safety equipment required to be operable in any DST farm facility.
- (9) Training time for Bargaining Unit Employees included in Core Functions - Training.
- (10) Waste disposal, including offsite disposal services, is provided by Central Tank Operations.
- (11) Central Operations assumes all responsibility for DST farms during off-shift.
- (12) Warehouse services is provided by Central Tank Operations.
- (13) General office supplies, personal protective equipment, safety equipment parts, materials, and tools necessary for operations are to be procured, inventoried, stored, and released by Central Tank Operations.
- (14) Spare Parts are available for a 6-month period of operations and are provided for maintenance activities only.
- (15) No provisions have been made to procure Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (16) Activities concerning major facility upgrades, integrity assessments, or DST farm operations are not included in this WBS element.

(d) Exclusions:

- (1) Operations and maintenance activities associated with SSTs or Direct-Feed Low Activity Waste.
- (2) SST Retrieval and closure operations or activities.
- (3) Support to any new or updated Resource Conservation and Recovery Act of 1976 (RCRA) permitting activities.
- (4) Spare Parts for any unplanned facility enhancements/systems, catastrophic failures, or major system upgrades that may ultimately be required.

Tank Closure Contract
T.3.2.4 242-A Evaporator
WBS Dictionary

(a) Scope of Work:

- (1) Maintain and operate waste evaporation capability such that it is reliable and available to support the Tank Closure Mission, as referenced in C.3.4.
- (2) **242-A Management & Support (T.3.2.4.1):** This work scope includes management of operational and maintenance activities, field oversight, project management, administrative support, and project controls, as well as upward communications with, and reporting to, the Central Operations.
- (3) **242-A Engineering & Technical Support (T.3.2.4.2):** Provide 242-A Evaporator specific engineering support, engineering & design initiatives, design authority program and system design description updates. Direct technical support for the 242-A Operations organization includes Authorization Basis implementation, Corrective Action Management, Assessment Program implementation, Performance Assurance Management, and Engineering Support for special projects. Also, maintain configuration control of engineering drawings in support of maintenance activities for various reports, plans, and other documents, as needed.
 - (i) The major tasks include, but are not limited to:
 - (A) Establish and maintain engineering procedures and standards.
 - (B) Prepare and monitor the engineering processes for all 242-A Evaporator operations.
 - (C) Develop the process strategy for 242-A Evaporator operations, including processing objectives to optimize performance while meeting applicable safety, environmental, and processing requirements.
 - (D) Coordinate 242-A Evaporator sampling activities and issue appropriate sampling process memos as necessary.
 - (E) Track process data and sampling results to ensure that facility processing objectives are being met and performance is optimized.
 - (F) Resolve technical issues and communicate solutions as necessary (e.g., technical reports).
- (4) **242-A Operations (T.3.2.4.3):** Provide safe and compliant 242-A Evaporator operation conditions in accordance with approved operating processes, procedures, and regulatory and safety basis requirements. Perform necessary surveillances and housekeeping. Perform Double-Shell Tank (DST) volume reductions, as a result of retrieval, feed delivery, pre-treatment and treatment operations, and emergent operations, as necessary.
- (5) **242-A Maintenance (T.3.2.4.4):** Perform preventive maintenance (PM) and corrective maintenance (CM) for the 242-A systems, structures, and components. This includes the scheduling and deconflicting of work in the field. Maintain the 242-A Evaporator facility in a compliant manner necessary to for the Tank Closure Mission.
 - (i) **242-A Corrective Maintenance** – Provide 242-A CM to support DST waste volume reduction.

Tank Closure Contract
T.3.2.4 242-A Evaporator
WBS Dictionary

- (A) Provide CM, as needed, in support of 242-A repair or replacement of systems, structures, and components (SSCs) needed to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
- (B) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
- (ii) **242-A Preventative Maintenance** – Provide 242-A PM to support DST waste volume reduction.
 - (A) Provide PM in accordance with manufacturer's and/or design authority's recommendations to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) PM includes predictive, periodic, and planned maintenance actions, and is employed to satisfy regulatory requirements and manufacturer's maintenance recommendations, as well as to ensure optimum equipment operating life until facility closure.
 - (C) Maintain configuration control of routine model work packages.
 - (D) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
 - (E) Maintenance activities are performed in accordance with the approved work control process plan and worker safety and health processes/procedures, such as the Job Hazard Analysis (JHA) procedure and the Electrical Hazards Evaluation (EHE) procedure.
- (iii) **242-A-BA Boiler Annex (T.3.2.4.5):** Maintain operations and maintenance of the 242-A-BA Boiler Annex (including the associated boilers and fuel tank). Provide a Transition Plan for the 242-A-BA Boiler Annex and boilers that ensures continuity of operations is maintained and required steam is available to support full operations of the 242-A Evaporator. Fuel oil for 242-A-BA package boilers is supplied from a 40,000 gallon tank.

(b) Scope Requirements:

- (1) HNF-14755, Documented Safety Analysis for the 242-A Evaporator, as amended
- (2) HNF-15279, Technical Safety Requirements for the 242-A Evaporator, as amended
- (3) HNF-SD-PRP-HA-030, 242-A Evaporator Hazards Assessment, as amended
- (4) HNF-SD-WM-FHA-024, Fire Hazards Analysis for the 242-A Evaporator, as amended
- (5) HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements, as amended
- (6) HNF-3395, Interface Control Document between the 242-A Evaporator Facility and the Liquid Effluent Retention Facility
- (7) HNF-SD-W049H-ICD-001, 200 Area Treated Effluent Disposal Facility Interface Control Document
- (8) HNF-4492, Interface Control Document between the Tank Farm System and the Fluor Hanford Electrical Distribution System

Tank Closure Contract
T.3.2.4 242-A Evaporator
WBS Dictionary

- (9) HNF-4493, Interface Control Document between the Tank Farm System and the Fluor Hanford Water Distribution System
- (10) Memorandum of Understanding between the 242-A Evaporator and Tank Farm Facilities, latest revision
- (11) RPP-13033, Tank Farms Documented Safety Analysis, as amended

(c) Scope Assumptions:

- (1) One campaign will be performed during a 6-month period, with a volume reduction of 330,000 gallons.
- (2) 242-A Evaporator remains a Hazard Category 2 nuclear facility.
- (3) Assume as-found condition of equipment/facility is fully operational, up to the point of transition.
- (4) No major facility upgrades or life extensions will be performed during 6 months of operations.
- (5) Spare Parts, including critical spares, are available for 6 months of operations and are provided for 242-A Evaporator maintenance activities only.
- (6) No provisions have been made to procure Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (7) Technical direction to ensure that the 242-A Evaporator is operated in compliance with the necessary permits and regulations.
- (8) Interface with Other Hanford Contractors (OHC), as necessary, for all operational activities to ensure scheduling and resources are maximized and impacts to the 242-A Evaporator operations are minimized.
- (9) There are no costs associated with the 242-A-BA Boiler Annex (steam). This service is provided under a separate contract by Johnson Controls, Inc. to Office of River Protection until 2021.

(d) Exclusions:

Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.

Tank Closure Contract
T.3.2.5 Liquid Waste Processing Facilities (LWPF)
WBS Dictionary

(a) Scope of Work:

- (1) Maintain and operate secondary liquid waste processing capability and capacity such that it is reliable and available to support the Tank Closure Mission as referenced in C.3.5.
- (2) **LWPF Management & Support (T.3.2.5.1):** This work scope includes management of operational and maintenance activities, field oversight, project management, administrative support and project controls, as well as upward communications with and reporting to the Central Operations.
- (3) **LWPF Engineering & Technical Support (T.3.2.5.2):** Provide LWPF-specific engineering support, engineering & design initiatives, design authority functions, and system design description updates. Direct technical support for the LWPF Operations organization includes Authorization Basis implementation, Corrective Action Management, Assessment Program implementation, Performance Assurance Management, and Engineering Support for special projects. Also, maintain configuration control of engineering drawings in support of maintenance activities for various reports, plans, and other documents, as needed.
- (4) **LWPF Operations (T.3.2.5.3):** Provide safe and compliant LWPF operations in accordance with operating processes and procedures and regulatory and safety basis requirements. Perform necessary surveillances and housekeeping. Perform secondary liquid waste treatment and volume reductions as a result of tank farm operations, 242-A Evaporator campaigns, tank waste pre-treatment and treatment operations and emergent operations as necessary.
- (5) **LWPF Maintenance (T.3.2.5.4):** Perform preventive maintenance (PM) and corrective maintenance (CM) for the LWPF systems, structures, and components. This includes the scheduling and deconflicting of work in the field. Maintain the LWPF in a compliant manner necessary to while continuing support for the Tank Closure.
 - (i) **LWPF Corrective Maintenance:** Provide LWPF CM to support secondary liquid waste treatment and volume reduction.
 - (A) Provide CM, as needed, in support of LWPF repair or replacement of systems, structures, and components (SSCs) needed to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
 - (ii) **LWPF Preventative Maintenance:** Provide LWPF PM to support secondary liquid waste treatment and volume reduction.
 - (A) Provide PM in accordance with manufacturer's and/or design authority's recommendations to maintain or preserve the facility's safe and compliant condition, or normal operational functions.
 - (B) PM includes predictive, periodic, and planned maintenance actions, and is employed to satisfy regulatory requirements and manufacturer's maintenance recommendations, as well as to ensure optimum equipment operating life until facility closure.
 - (C) Maintain configuration control of routine model work packages.

Tank Closure Contract
T.3.2.5 Liquid Waste Processing Facilities (LWPF)
WBS Dictionary

- (D) Manage and oversee the development, review, approval, execution, and closeout of maintenance work packages.
- (E) Maintenance activities are performed in accordance with the approved work control process plan and worker safety and health processes/procedures, such as the Job Hazard Analysis (JHA) procedure and the Electrical Hazards Evaluation (EHE) procedure.

(b) Scope Requirements:

- (1) 40 CFR 261, Final Delisting [Exclusion], issued to the U.S. Department of Energy, Appendix IX, Table 2
- (2) HNF-SD-ETF-ASA-001, 200 Area ETF Auditable Safety Analysis Report
- (3) HNF-SD-LEF-ASA-002, 200 Area Liquid Effluent Retention Facility Auditable Safety Analysis Report
- (4) HNF-SD-W049H-ICD-001, 200 Area Treated Effluent Disposal Facility Interface Control Document
- (5) HNF-3172, Liquid Waste Processing Facilities Waste Acceptance Criteria
- (6) Permit Number WA7890008967, Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste
- (7) Permit 00-05-006, Hanford Site Title V Air Operating Permit
- (8) FF-01, Department of Energy Hanford Site Radioactive Air Emissions License
- (9) RPP-16922, Environmental Specification Requirements
- (10) State Waste Discharge Permit Number ST0004500, State-Approved Land Disposal Site (SALDS).
- (11) State Waste Discharge Permit Number ST0004502, 200 Area Treated Effluent Disposal Facility (TEDF).
- (12) TFC-ENG-FAC SUP-P-32, "TF Radionuclide Inventory Management
- (13) TFC-ENG-FAC SUP-P-34, New Waste Stream Acceptance at LERF/ETF
- (14) TFC-ENG-FAC SUP-P-35, LERF Fissile Material Inventory
- (15) TFC-ENG-FAC SUP-P-36, Effluent Treatment Facility Waste Processing Strategy
- (16) WAC 173-303, Dangerous Waste Regulations
- (17) WHC-SD-C018-FDC-001, Project C-018H, 242-An Evaporator/Purex Plant Condensate Treatment Facility
- (18) WHC-SD-C018H-HC-002, Hazard Categorization Report for Effluent Treatment Facility.

Tank Closure Contract
T.3.2.5 Liquid Waste Processing Facilities (LWPF)
WBS Dictionary

(c) Scope Assumptions:

- (1) LWPF Operations of defined scope will be for a 6-month duration.
- (2) DOE Orders, Regulation, and Codes are to remain the same through TCC operation.
- (3) The Prime Contract requirements establishing the minimum elements of the technical and administrative Production Operations program will remain constant.
- (4) Project support activities and requirements will remain at their current programmatic levels.
- (5) Priority is given to all safety and environmental concerns when planning preventative/corrective maintenance activities.
- (6) LWPF remains a Radiological Facility (i.e., less than Hazard Category 3 non-reactor nuclear facility).
- (7) Assume two (2) ETF campaigns will be performed in a 6 month period with an inventory reduction of one (1) million gallons per campaign or two (2) million gallons for the 6 month period.
- (8) TEDF compliance sampling will continue relatively unchanged until planned closure.
- (9) SALDS compliance sampling will continue relatively unchanged until planned closure.
- (10) Spare Parts are available for the first 6 months of operations and are provided for LWPF maintenance activities only.
- (11) Assume no major facility upgrades or life extension activities will be performed during the first 6 months of operations.
- (12) No provisions have been made to procure spare parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (13) No changes in the current equipment, facility, or operational and maintenance staffing will be necessary.
- (14) LWPF operations will continue in compliance with the necessary permits and regulations.
- (15) Engineering will provide technical assistance with the generation and development of work packages for repairs of systems, equipment and components.
- (16) LWPF operations will require a Dupont type shift (24/7).
- (17) LWPF maintenance will be performed on a 4x10 day-shift.
- (18) All Facilities will remain open during six (6) month duration.
- (19) Tank Monitoring and Control System (TMACS) surveillance operations are provided by the Central Shift Office Support account.
- (20) Perform operations and/or maintenance activities in the Thin Film Dryer Room using respirator(s).

Tank Closure Contract
T.3.2.5 Liquid Waste Processing Facilities (LWPF)
WBS Dictionary

(d) Exclusions:

- (1) Spare parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (2) Surveillances do not have to be performed on inoperable equipment or variables outside of specified limits.

Tank Closure Contract
T.3.2.6 Sampling and Characterization
WBS Dictionary

(a) Scope of Work:

- (1) Maintain and operate ready-to-serve waste tank sampling and sample transportation capability, as referenced in Section C.3.6.
- (2) **Sampling and Characterization (T.3.2.6.1):** Perform waste sampling and characterization to support safe storage, tank integrity, waste retrieval, waste transfers, 242-A Evaporator campaigns, waste pre-treatment, waste treatment, and secondary waste stream operations.
 - (i) **Sampling:** Perform tank farm vadose zone sampling, characterization, and corrective measures in coordination with the Central Plateau Cleanup Contract (CPCC) contractor to integrate these activities and drive efficiencies in the Hanford Site Groundwater Program. Provide environmental and multi-media sampling and transportation. Conduct head space and stack sampling to support industrial hygiene characterization for potential vapor hazards and update the exposure assessment data for contaminants and potential contaminants of concern.
 - (ii) **Maintenance:** Perform preventative and corrective maintenance of sampling equipment and materials and facilities required to supporting tank waste sampling operations.
 - (iii) **Service Level Agreements:** Develop and maintain service level agreements with the 222-S Analytical Laboratory and other contracted laboratories for ready-to-serve services. Schedule all deliveries for characterization, analysis, and final analysis reports.

(b) Scope Requirements:

- (1) Hanford Analytical Services Quality Assurance Requirements Document (HASQARD)
- (2) RPP-151940, Authorization Agreement
- (3) RPP-7574, Double-Shell Tank Integrity Program Plan
- (4) OSD-T-151-0007, Operating Specifications for the 241-AN, AP, AW, AY, AZ, and SY Tank Farms
- (5) WA7 89000 8967, Hanford Facility Dangerous Waste Permit
- (6) HNF-SD-WM-TSR-006, Technical Safety Requirements - Specific Administrative Control Key Elements 5.8.3, Flammable Gas Controls for Inactive / Miscellaneous Tanks / Facilities, and 5.9.2, Ignition Controls
- (7) RPP-26781, Rev. 8, Tank Operations Contractor Sampling Projections for FY2013 through FY2017
- (8) MMR-13-002, 2013, Variation on DF-LAW Business Case 1a: Retrieval of A/AX, Washington River Protection Solutions, LLC, Richland, Washington

(c) Scope Assumptions:

- (1) Sampling and Characterization is for a 6-month period.

Tank Closure Contract
T.3.2.6 Sampling and Characterization
WBS Dictionary

- (2) 222-S Laboratory will continue to be available, per section J-3, throughout the River Protection Project (RPP) mission.
- (3) Sampling costs assumed to be a pass through cost, per Section J-3, Tables 95, 96, and 97, and UBS Provided and UBS Received.
- (4) Central Tank Operations will maintain the Tank Waste Information Network System (TWINS), Best Basis Inventory (BBI), and Site Wide Industrial Hygiene Database (SWIHD).
- (5) The number of BBI updates and data reviews is equal to the number of samples occurring in the tank farm (five grab, two off-riser, and two core samples).
- (6) Priority is given to all safety and environmental concerns when planning preventive and corrective maintenance activities.
- (7) Double-Shell Tank (DST) and Single-Shell Tank (SST) Engineering and Technical Support will designate and prioritize technical safety requirements (TSR), Environmental, and Important to Safety equipment required to be operable in any DST and/or SST farm or facility.
- (8) Self-Contained Breathing Apparatus (SCBA) required for SST farm entry.
- (9) SCBA and/or air-purifying respirators (APR) fitted with chemical filter cartridges required for DST farm entry.
- (10) Spare Parts for equipment are available for a 6-month period of operations and are provided for maintenance activities only.
- (11) No provisions have been made to procure Spare Parts for any unplanned equipment replacement, as a result of catastrophic failures or major system upgrades that may ultimately be required.
- (12) HAMTC remains consistent.
- (13) Training time for Bargaining Unit Employees included in Core Functions - Training.
- (14) Waste disposal, including offsite disposal services, is provided by Central Tank Operations.
- (15) Central Operations assumes all responsibility for DST and SST farms during off-shift.
- (16) Warehouse services are provided by Central Tank Operations.
- (17) General office supplies, personal protective equipment, safety equipment parts, materials, and tools necessary for operations are to be procured, inventoried, stored, and released by Central Tank Operations.
- (18) Assume no major facility upgrades or life extensions within DST or SST farms will impact first 6 months of operations.

(d) Exclusions:

Additional grab samples required to support hard heel dissolution activities during tank retrieval are not in the scope of this account.

Tank Closure Contract
T.3.2.7 Tank Chemistry and Integrity
WBS Dictionary

(a) Scope of Work:

- (1) Protect the integrity of the Single-Shell Tanks (SST) and Double-Shell Tanks (DST) and minimize further degradation, as referenced in Section C.3.7.
- (2) **SST Chemistry and Integrity (T.3.2.7.1):** Perform visual inspections, non-destructive testing, and Independently Qualified Registered Professional Engineer evaluations to monitor and evaluate the structural and leak integrity of the SSTs, in accordance with DOE O 435.1, *Radioactive Waste Management*, and Resource Conservation and Recovery Act of 1976 (RCRA) requirements.
 - (i) Perform in-tank monitoring for signs of waste leaks or water intrusion.
 - (ii) Perform evaluations of suspected leaking SSTs to determine if leaks may have been caused by issues other than liner leaks, such as cascade fill line leaks due to overfill conditions.
- (3) **DST Chemistry and integrity (T.3.2.7.2):** Maintain and evaluate chemistry specifications to minimize tank corrosion, waste generation, and conflicts with treatment capabilities.
 - (i) Perform visual inspections, non-destructive testing, and Independently Qualified Registered Professional Engineer evaluations to monitor and evaluate the structural and leak integrity of the DSTs in accordance with DOE O 435.1 and RCRA requirements.
 - (ii) Perform in-tank monitoring for signs of waste leaks or water intrusion.
 - (iii) Execute corrective actions necessary to ensure continued tank integrity.
 - (iv) Pursue repair techniques for DST pitting corrosion to extend usable life.
 - (v) Manage DST ventilation condensate addition to prevent liquid air interface corrosion.
 - (vi) Assess readily available monitoring and evaluation technologies and upgrade existing technologies to ensure the best available technologies are utilized.
 - (vii) Minimize liquid intrusion or addition.
- (4) **Maintenance:** Perform preventative and corrective maintenance of sampling equipment, materials, and facilities required to supporting tank waste sampling operations.

(b) Scope Requirements:

- (1) Tri-Party Agreement (TPA), Appendix D – Milestone M-045-91-I
- (2) 40 CFR 265.191, Assessment Of Existing Tank System's Integrity
- (3) OSD-T-151-00007, current revision, Operating Spec for the DSTs
- (4) RPP-7574, current revision, Double-Shell Tank Integrity Program Plan
- (5) RPP-10435, current revision, System Integrity Assessment Report
- (6) RPP-PLAN-44556, current revision, Simulant Test Plan for SS Isolation Valves for Double Valve Isolation
- (7) RPP-PLAN-46847, current revision, Visual Inspection Plan For SSTs And DSTs

Tank Closure Contract
T.3.2.7 Tank Chemistry and Integrity
WBS Dictionary

- (8) RPP-PLAN-57352, current revision, Double-Shell Tank Integrity Improvement Plan
- (9) RPP-RPT-29711, current revision, Tank 241-UX-302A Leak Assessment Report
- (10) RPP-RPT-58441, current revision, Double-Shell Tank System Integrity Assessment Report (DSTAR)
- (11) RPP-PLAN-45082, Implementation Plan for the Single-Shell Tank Integrity Project
- (12) RPP-RPT-43116, Expert Panel Report for Hanford Site
- (13) TFC-ENG-CHEM-D-42, current revision, Tank Leak Assessment Process

(c) Scope Assumptions:

- (1) Tank Chemistry and Integrity is for a 6-month period.
- (2) 222-S Laboratory will continue to be available, per section J-3, throughout the River Protection Project (RPP) mission.
- (3) Analysis costs assumed to be a pass through cost, per Section J-3, Tables 95, 96, and 97, and UBS Provided and UBS Received.
- (4) DST and SST Engineering and Technical Support will designate and prioritize technical safety requirements (TSR), Environmental, and Important to Safety equipment required to be operable in any DST and/or SST farm or facility.
- (5) Self-Contained Breathing Apparatus (SCBA) required for SST farm entry.
- (6) SCBA and/or air-purifying respirators (APRs) fitted with chemical filter cartridges required for DST farm entry.
- (7) Spare Parts for equipment are available for a 6-month period of operation and are provided for maintenance activities only.
- (8) No provisions have been made to procure Spare Parts for any unplanned equipment replacement, as a result of catastrophic failures or major system upgrades that may ultimately be required.
- (9) HAMTC remains consistent.
- (10) Training time for Bargaining Unit Employees included in Core Functions - Training.
- (11) Waste disposal, including offsite disposal services, is provided by Central Tank Operations.
- (12) Central Operations assumes all responsibility for DST and SST farms during off-shift.
- (13) Warehouse services is provided by Central Tank Operations.
- (14) General office supplies, personal protective equipment, safety equipment parts, materials and tools necessary for operations are to be procured, inventoried, stored, and released by Central Tank Operations.
- (15) Assume no major facility upgrades or life extensions within DST or SST farms will impact first 6 months of operations.
- (16) Nondestructive evaluation (NDE) is not performed on the SSTs.

Tank Closure Contract
T.3.2.7 Tank Chemistry and Integrity
WBS Dictionary

(17) SSTs are not monitored for leak integrity, just structural; SSTs are deemed not fit for use already.

(d) Exclusions:

Sampling and Characterization

Tank Closure Contract

T.3.3.1 Program Support

WBS Dictionary

(a) Scope of Work:

- (1) Programs establish to perform the Hanford Tank Closure Mission safely and effectively, as referenced in Section C.10.
- (2) **Program Management (T.3.3.1.1):** Provide for overall Management oversight and includes Project Management, Administrative support, Project Controls, Technical Leads, and expert oversight needed to complete Program Support scope, satisfy reporting requirements, and resolve technical issues.
 - (i) Additional scope includes developing plans and/or documents, as referenced in J-10.
- (3) **Environment, Safety, Health & Quality (T.3.3.1.2):** Meet applicable Federal, State, and Local Environmental Laws, Regulations referenced in the Section H clause H.56, Laws, Regulations, and DOE Directives, including the Comprehensive Environmental Response Compensation Liability Act. Omission of any applicable law or regulation from the Contract does not affect the obligation of the Contractor to comply with such law or regulation. In addition, interfacing with Other Hanford Contractors (OHC) will be necessary to implement the Hanford Integrated & Sitewide Safety Systems procedures.
 - (i) Additional scope includes developing the plans and/or documents, as referenced in J-10.
- (4) **Conduct of Operations (T.3.3.1.3):** Establish a Conduct of Operations (CONOPS) program which includes formal documentation and procedures to implement structured operations supporting the mission, as well as minimizing the likelihood and consequences of human or technical fallibility and organizational system failures. Identify impacts of work to each facility and work groups, and plan, control, and execute the work without incurring unanticipated issues. Ensure continuous feedback and improvement feedback mechanisms are in place, while protecting the worker, the public, and the environment, by planning, scoping, scheduling, and implementing worker safety.
 - (i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.
- (5) **Nuclear Safety (T.3.3.1.4):** Tasks pertaining to this scope include the development and implementation of a nuclear safety program that satisfies all Hanford Site and federal requirements. Conduct analysis of each facility, work to be performed, and associated hazards to identify the conditions, safe boundaries, and hazard controls necessary to protect workers, the public, and the environment from adverse consequences. Establish a protocol and provide Safety Basis requirements for other contractors performing work within the Tank Closure Contract (TCC) Complex.
 - (i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.
- (6) **Conduct of Engineering (T.3.3.1.5):** Provide engineering support to maintain and upgrade the TCC Complex facilities, materials, systems, and equipment. The major tasks include, but are not limited to, the implementation of the engineering development and nuclear safety programs for all disciplines necessary to support the TCC operations, conducting independent discipline-specific design reviews, develop engineering policies and procedures, as well as being responsible for the training of the Engineering Program staff.

Tank Closure Contract

T.3.3.1 Program Support

WBS Dictionary

- (7) **Conduct of Maintenance (T.3.3.1.6):** Conduct of Maintenance program includes both nuclear and non-nuclear facilities, Personal Property, and Fire System Maintenance within the TCC Complex. The program establishes maintenance activities that include formal documentation, practices, and actions that implement disciplined and structured maintenance supporting mission success and promote worker, public, and environmental protection. U.S. Department of Energy (DOE) nuclear and non-nuclear facilities are sustained by maintenance, repair, and renovation activities at the component level to ensure mission readiness; operational safety; worker health, environmental protection and compliance; security; and property preservation.
 - (i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.

- (8) **Fire Protection Program (T.3.3.1.7):** Implement a comprehensive Fire Safety and Emergency Response program to protect workers commensurate with the nature of the work performed. This includes appropriate facility fire protection, fire suppression systems, fire alarm notification and egress features, and access to a fully staffed and trained Emergency Response Organization that is capable of responding in a timely and effective manner to Hanford Site emergencies.

- (9) **Personal Property Management (T.3.3.1.8):** Property Management refers to supplies and equipment procurement, disposition of excess personal property, inventory management, real property asset management, facilities information management system (reporting systems), general purpose facility planning and management, and land-use planning and management.
 - (i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.

- (10) **Closure and Post-Cleanup Surveillance and Maintenance (T.3.3.1.9):** Integrate and efficiently optimize the Tank Closure Mission to close all 177 Hanford tanks in a manner that effectively and efficiently expedites the risk reduction to the environment and environmental liability. Develop, maintain, and submit for DOE concurrence a Multi-Year Operating Plan (MYOP). Establish and maintain an integrated project schedule with monitoring and status of the integrated set of schedule milestones performed by DOE and all Hanford contractors that are required to meet DOE commitment dates, including metric/dashboard/report card charts. Manage the coordination and integration of Post-Cleanup Surveillance and Maintenance to OHC.

- (11) **Information Management (T.3.3.1.10):** Provide effective, efficient, and innovative Information Management (IM) and Information Technology (IT) Maintenance of Hanford Site technical data in support of regulatory decision-making, and Long-Term Stewardship (LTS). Responsible for ensuring the confidentiality, integrity, and availability of any information or information systems under its purview. Maintain and manage records to ensure adequate and proper documentation of work accomplishments and document DOE stewardship of Federal responsibilities and funds.
 - (i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.

Tank Closure Contract
T.3.3.1 Program Support
WBS Dictionary

(12) **Security and Emergency Services (T.3.3.1.11):** The Safeguards and Security scope, as it relates to the TCC Contractor, is to maintain compliance with Hanford Site Security and Emergency Services Requirements, participate in the Hanford Sitewide Safeguards and Security (SAS), and Emergency Services Programs. The TCC Contractor safeguards Category IV accountable nuclear material under custody at the facility. Hanford Mission Essential Services Contract (HMESC) is responsible for the management and execution of Hanford's Sitewide SAS and Emergency Services Programs.

(i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.

(13) **Interactions (T.3.3.1.12):** Includes information and involvement programs to reach diverse external parties interested in the Hanford Site with the status, challenges, and objectives of the cleanup work. For all external constituencies, anticipate specific areas of concern, interest, or controversy, and employ appropriate communication strategies that inform and involve ensuring close coordination with DOE Communications personnel throughout. Provide information and/or resources as requested in support of DOE media interactions.

(14) **Interface Management (T.3.3.1.13):** The Interface Management group is responsible for working with OHC to establish and maintain interface management processes and agreements and to assure effective control of technical, administrative, and regulatory interfaces while ensuring that services are provided to the TCC projects in a safe, compliant, reliable, timely, and cost effective manner.

(i) Additional work scope includes developing plans and/or documents, as referenced in Section J-10.

(b) Scope Requirements:

- (1) HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements
- (2) RPP-13033, Tank Farms Documented Safety Analysis
- (3) HNF-4492, Interface Control Document between the Tank Farm System and the Fluor Hanford Electrical Distribution System
- (4) HNF-4493, Interface Control Document between the Tank Farm System and the Fluor Hanford Water Distribution System
- (5) Permit Number WA7890008967, Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste

(c) Scope Assumptions:

- (1) Program Support work scope is for a 6-month period.
- (2) The Prime Contract requirements establishing the minimum elements of the technical and administrative support will remain consistent to current levels.
- (3) Project support activities and requirements will remain at their current programmed levels.
- (4) New work scope requiring development and implementation are not included.

Tank Closure Contract
T.3.3.1 Program Support
WBS Dictionary

- (5) Priority is given to all safety and environmental concerns when planning preventative/corrective maintenance activities.
- (6) State Approved Land Disposal Site (SALDS) compliance sampling will continue relatively unchanged until planned closure.
- (7) Spare Parts are available for a 6-month period of operations and are provided for maintenance activities only.
- (8) No provisions have been made to procure Spare Parts for any unplanned facility enhancements/systems that may subsequently be developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.
- (9) HAMTC remains consistent.
- (10) Corrective and preventative maintenance for tank-specific retrieval systems is excluded from this scope and is provided under tank-specific retrieval projects.
- (11) No changes in the current equipment, facility, or operational and maintenance staffing will be necessary.
- (12) Technical direction to ensure that TCC Complex is operated in compliance with the necessary permits and regulations shall be provided.
- (13) Technical assistance with the generation and development of work packages for repairs of systems, equipment, and components is provided by engineering.
- (14) Assumes the approved Project Control System Description is the basis for planning and integration.
- (15) Interface with OHC for the performance of all operational and maintenance activities to ensure scheduling and resources are maximized and impacts to TCC Complex operations are minimized.

(d) Exclusions:

- (1) Tank Farm facility upgrade or life extension projects.
- (2) Spare Parts for any unplanned facility enhancements/systems that may be subsequently developed/installed, catastrophic failures, or major system upgrades that may ultimately be required.

Tank Closure Contract

T.3.3.2 General and Administrative Support

WBS Dictionary

(a) **Scope of Work:**

- (1) Programs establish to perform the Hanford Tank Closure Mission safely and effectively, as referenced in Section C.10.
- (2) **President's Office (T.3.3.2.1):** This element provides Executive Administrative Functions in support of the Office of River Protection according to the operating contract. This includes the offices of President, General Manager, Deputy General Manager, the Employee Concerns Program (ECP) manager, and the Executive Secretary.
- (3) **Finance/Accounting (T.3.3.2.2):** This element provides a full range of financial services required to support the contractor's ability to achieve the River Protection Project's (RPP) mission objectives. This scope includes the Office of the Chief Financial Officer (CFO) and accounting controller functions. Provides leadership and guidance to the general accounting, Financial Compliance, Budget, Rates, Accounts Payable/Accounts Receivable, and Contractor Fee Maintenance groups.
- (4) **Contracts/Procurement (T.3.3.2.3):** Provides for the management of the acquisition, materials management, and supply chain processes to ensure that subcontracts and materials management functions are planned, budgeted, and controlled to support achievement of the Office of River Protection (ORP). This WBS is responsible for the requirements associated with efficient, effective, and economical management in accordance with the approved Procurement System Description.
- (5) **Human Resources (T.3.3.2.4):** Provides for the management of the Human Resources (HR) department, which includes Staffing, Recruiting, De-staffing, Workforce Restructuring, Compensation Program, Benefits Administration, Personnel Records and HR Reports, Labor Relations, HR Development, Professional HR-related Training, Workplace Substance Abuse programs, Employee Incentive Program, and Internship Program.
- (6) **Legal (T.3.3.2.5):** The scope of this activity includes operation of the Office of General Counsel. The General Counsel is responsible for providing all legal services related to the work performed and is the main interface on legal matters with the ORP legal department.
- (7) **Internal Audit (T.3.3.2.6):** This scope includes the operations of the Internal Audit organization. Internal Audit provides a control function that measures and evaluates the effectiveness of other internal controls. Internal Audit's objectives are to assist members of management by furnishing them with analyses, appraisals, recommendations, counsel, and information pertinent to their duties and objectives by promoting effective control at reasonable cost.
- (8) **Employee Concern Program (T.3.3.2.7):** Provide a process to independently and objectively address concerns, including, but not limited to, environmental, safety, health, security, quality, business ethics, non-compliance with laws or regulations, fraud, waste, abuse, and mismanagement, as well as harassment, intimidation, retaliation, and discrimination.
- (9) **Hanford Site Benefits Plan Administration (Ref. J-17, T.3.3.2.8):** (Additional work scope includes developing plans and/or documents, as referenced in Section J-10.) This element provides the administration of the Tank Closure Contract (TCC) medical, dental and vision plans for employees eligible under the Hanford Employee Welfare Benefits Plan, a part of

Tank Closure Contract
T.3.3.2 General and Administrative Support
WBS Dictionary

the Hanford Employee Welfare Trust (HEWT). TCC will have certain responsibilities regarding sponsorship and management of healthcare and other benefits plans for certain active TCC employees at the Hanford Site. The requirement and scope of these responsibilities are set forth in the Section H Clause, entitled *Employee Compensation, Pay and Benefits*, and the Section H Clause, entitled *Post-Contract Responsibilities for Pension and Other Benefit Plans*. The HEWT committee determines the TCC share of the program, based on TCC planned staffing levels. The Manager of TCC Workforce Resources is a member of this committee.

- (10) **Market-Based Benefits Contributions (T.3.3.2.9):** It is assumed that a third-party broker will manage the Market-Based Medical/Dental plan. The Employer Contribution to the Market-Based Medical/Dental is a percent-based contribution based on the employees' salary that the employer will pay towards the cost of the medical and dental premiums for each employee who is full-time and not eligible for HEWT.
- (i) Employer contribution to the Market-Based Retirement Savings Plan is a percent-based contribution based on the employees' salary that the employer will pay towards the cost of the retirement savings program for each employee who is full-time and not eligible for Hanford Site Pension Plan (HSPP) or Hanford Site Savings Plan (HSSP).
- (11) **Market-Based Benefits Administration (T.3.3.2.10):** The administration of Market-Based Medical and Dental is for the labor to implement (if a new plan is necessary) and maintain the medical and dental program for non-Hanford HEWT participants.
- (i) The administration of Market-Based Retirement Savings Plan covers the labor effort to implement (if a new plan is necessary) and maintenance of the retirement savings program for non-Hanford HSPP or HSSP participants.
- (12) **Miscellaneous Core Functions (T.3.3.2.11):** General and Administrative-related core functions that are not captured in any of the other Business Services elements.

(b) Scope Requirements:

- (1) The following laws, regulations, directives, and legally binding agreements include requirements that directly or indirectly impact the performance of this work scope:
- (i) Hanford Site Workforce Restructuring Plan (Section 3161 of the National Defense Authorization Act for Fiscal Year 1993, Public Law (PL) 102-484)
- (ii) Davis Bacon Act (Feb 1995)
- (iii) DEAR 970.3102-2(e), *Allowability of Compensation Costs*
- (iv) Worker Adjustment and Retraining Notification Act, Public Law 100-379
- (v) EGS-00-02, DOE Office of Enforcement and Investigation, Enforcement Guidance Supplement 00-02, Price-Anderson Amendments Act (PAAA) Program Reviews
- (vi) Internal Audit (IA) requirements, per contract clause I – 1.39, DEAR 970-5203-1, *Management Controls*, and contract clause I-15, Dear 970.5232-3, *Accounts, Records, and Inspections (Alternate I)*, and as directed by the contracting officer
- (vii) 11-OPA-038-RE Issue June 13, 2011.

Tank Closure Contract
T.3.3.2 General and Administrative Support
WBS Dictionary

(c) Scope Assumptions:

- (1) General and Administrative Support is for a 6-month period.
- (2) General and Administrative Support includes support for all task awarded under the TCC Indefinite Delivery/Indefinite Quantity (IDIQ) Contract.
- (3) Project support activities and requirements will remain at their current programmed levels; new work scope requiring development and implementation are not included.
- (4) Internal Audit work activities will continue through the Life Cycle of the project.
- (5) A third-party broker will administer the market-based medical and dental plan billing directly to U.S. Department of Energy (DOE).

(d) Exclusions:

- (1) Contractor corporate expenses, including for travel, and contract non-reimbursable expenses or Contractor contract closeout expenses.
- (2) No Company separation costs are included in this estimate.
- (3) Outgoing transition costs.

Tank Closure Contract
T.3.4.1 Usage-Based Services Provided to Other Hanford Contractors
WBS Dictionary

(a) Scope of Work:

- (1) Provide the services as referenced in C.11 and as identified in the Interface Requirements Matrix (Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix).
- (2) **Ventilation and Balance (T.3.4.1.1):** The Ventilation and Balance (V&B) provides as a variable service, testing of ventilation and filters, and ventilation balance to maintain established flows and pressures on systems. Specifics include performing in-place high-efficiency particulate air (HEPA) filter testing, carbon absorber halide testing, stack flow measurements, psychometrics testing, Laboratory hood testing/adjusting, Heating, Ventilation, Air Conditioning (HVAC) system air balancing, engineering support for all air-handling devices, and Vent and Balance Procedure development/review support.

(b) Scope Requirements:

- (1) 40 CFR 61, "National Emission Standards for Hazardous Air Pollutant," Code of Federal Regulations, as amended.
- (2) 29 CFR 1910, "Occupational Safety and Health Administration" (OSHA) Standard
- (3) ANSI/ASME N509, "Nuclear Power Plant Air Cleaning Units and Components," American National Standards Institute, New York, New York.
- (4) ANSI N510, "Testing of Nuclear Air Treatment Systems," American National Standards Institute, New York, New York.
- (5) ASME N511, "In-Service Testing of Nuclear Air Treatment, Heating, Ventilating, and Air-Conditioning Systems."

(c) Scope Assumptions:

- (1) Ventilation and Balance services is for a 6-month period.
- (2) Other Hanford Contractors (OHC) provide their own support labor including but not limited to Planning, Environment, Radcon and additional craft support.
- (3) Services provided during standard work shift - no overtime.
- (4) Approximately 25% of the total Ventilation & Balance work performed is for Other Hanford Contractors with the remaining 75% supporting the Tank Closure Contract.
- (5) Operations and Engineering will designate Technical Safety Requirement (TSR), Environmental, and important to safety equipment required to be operable in any Tank Farm facility to support V&B activities.
- (6) All the facilities keep their own records and PM data sheets.
- (7) OHC customers requesting V&B Services will be charged for the services and share a percent of the overhead costs.

(d) Exclusions:

Tank Closure Contract
T.3.4.1 Usage-Based Services Provided to Other Hanford Contractors
WBS Dictionary

- (1) Facility specific equipment required for Ventilation and Balance services is not included; Other Hanford Contractors will be responsible for providing special equipment.