

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 0441	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 Richland WA 99352	CODE 00603	7. ADMINISTERED BY (If other than Item 6) Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 MS: H6-60 Richland WA 99352	CODE 00603	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) WASHINGTON RIVER PROTECTION SOLUTIONS LLC Attn: BRIAN THOMAS C/O URS ENERGY & CONSTRUCTION, INC. PO BOX 73 / 720 PARK BLVD BOISE ID 837290073		(x) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)	
CODE 806500521 FACILITY CODE		x 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC27-08RV14800	10B. DATED (SEE ITEM 13) 05/29/2008	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended. is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. FAR 52.243-2 Changes - Cost Reimbursement (Aug 1987)
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not. is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

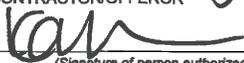
1. The purpose of this modification is to incorporate the Performance Evaluation and Measurement Plan (PEMP) for Fiscal Year (FY) 2017. As such, this modification replaces Section J, Attachment J.4 in its entirety.

2. Attached to this modification is Section J, Attachment J.4, FY 2017 PEMP, pages 1 through 63.

3. All other Terms and Conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Katie Downing, Contracts Mgr.		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Wade E. Hader	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 7/12/17	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 13 Jul 2017

CONTINUATION SHEETREFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-AC27-08RV14800/0441

PAGE 2 OF 2

NAME OF OFFEROR OR CONTRACTOR
WASHINGTON RIVER PROTECTION SOLUTIONS LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: OR for ORP U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 4307 Oak Ridge TN 37831 Period of Performance: 06/20/2008 to 09/30/2018				

Attachment 1

DE-AC27-08RV14800, MODIFICATION 441

Fiscal Year 2017 Performance Evaluation Measurement Plan

Replacement Pages

(Total: Sixty-Four (64) including this Cover Page)

- **Section J, Attachment J.4, Performance Evaluation and Measurement Plan, Pages 1 thru 63**

SECTION J, ATTACHMENT J.4
PERFORMANCE EVALUATION AND
MEASUREMENT PLAN

Fiscal Year 2017

**Performance Evaluation and Measurement Plan
For
Washington River Protection Solutions LLC**

**Performance Period:
October 1, 2016 through September 30, 2017**

Issued by:



**Kevin W. Smith
Fee Determination Official
DOE/ORP**

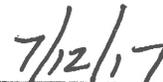


Date

Accepted by:



**Mark A. Lindholm
Project Manager
WRPS**



Date

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A. INTRODUCTION

Contract No. DE-AC27-08RV14800 uses multiple performance based incentives (PBI) and special emphasis area (SEA) award fee components to drive Contractor excellence in performing the operations, construction, and maintenance of the Hanford Tank Farms. The Performance Evaluation and Measurement Plan (PEMP) gives the U.S. Department of Energy (DOE), Office of River Protection (ORP) a tool to identify and reward superior performance.

In the execution of the contract, Washington River Protection Solutions LLC (WRPS) is expected to provide comprehensive, effective management as conscientious stewards of all Tank Farm facilities and activities through:

- Demonstrating safety leadership and risk-informed, conservative decision-making.
- Anticipating project challenges and providing timely resolution.
- Open communication with the workforce fostering a questioning attitude and an environment free from retribution.
- Aggressive self-discovery of project issues to ORP through critical self-analysis, performance monitoring, and comprehensive extent of condition reviews.

This PEMP also defines the ORP approach in evaluating, documenting, and providing performance fee to WRPS, in the execution of requirements defined in Contract DE-AC27-08RV14800. This PEMP is for the second year of the contract option period of performance from October 1, 2016, through September 30, 2017.

1. PEMP Objectives

- a. Provide ORP with a mechanism to achieve its highest priority objectives.
- b. Provide incentive to WRPS to accomplish ORP's management and program objectives through the establishment of critical performance objectives and measures.
- c. Reward WRPS with fee commensurate with the achievement of the specific ORP performance requirements.
- d. Create an administratively efficient process to assess WRPS performance.
- e. Provide a fair and reasonable basis for determining the amount of fee earned.
- f. Create a process that ensures WRPS work efforts are executed in a manner that provides high value and high quality deliverables to ORP.

2. Definitions

- a. Award Fee. The subjective fee component of Performance Fee.
- b. Expected Performance Level. Meets agreed upon requirements and performance objectives.
- c. Fee Determination Official (FDO). The final authority in determination of fee awarded to WRPS.
- d. Office of River Protection. ORP is a Department of Energy Environmental Management field office.
- e. Performance Evaluation Board (PEB). For the purpose of this PEMP, designated ORP senior managers and Contracting Officer are chartered with recommending WRPS earned fee to the FDO.
- f. Performance Evaluation and Measurement Plan (PEMP). A plan that defines an approach in evaluating, documenting, and providing performance fee against specified PBIs and Award Fee Incentives.
- g. Performance Evaluation Period. The period for which the PEB evaluates contractor's overall performance: October 1 through September 30.
- h. Performance Fee. That portion of the total available fee which is tied exclusively to the contractor's performance of the contract. The performance fee amount will consist of an incentive fee component for objective performance requirements and an award fee component for subjective performance requirements, or both.
- i. Performance Based Incentive (PBI). A performance incentive represents a reward or consequences that may be employed to motivate a contractor to achieve baseline or higher levels of performance of a requirement. In most instances, the incentive represents an amount of fee tied to the accomplishment of a performance objective.
- j. Performance Measure. The quantitative method for characterizing performance.
- k. Performance Monitor (PM). Designated by the PEB as responsible individuals monitoring and evaluating the contractor's performance.
- l. Performance Objective. A statement of desired results from an organization or activity.
- m. Provisional Payment of Fee. Any payments paid on a provisional basis may be reclaimed.

- n. Special Emphasis Area (SEA). An area that is extremely important to DOE and ORP and the fee associated with each area represents an incentive based on a graded approach and is a subjective determination by the PM for calculation of possible earned fee.
- o. Straight-line Method. This method provides a 100 percent incremental fee for completion of the performance measure prior to the expiration of the performance evaluation period.
- p. Terminal Method. This method provides 100 percent incremental fee for completion of the performance measure prior to a specific date and/or milestone; however, the Contractor will forfeit 100 percent of the fee allocated to the performance measure for completion of the performance measure after the passing of the specific date and/or milestone as defined within the performance measure.

3. Fee Concept

Performance-based management contracting principles emphasize results-oriented work statements, and performance objectives and measures to incentivize contractors to achieve excellent performance. ORP implements performance-based management contracting principles through processes associated with *Strategic Planning, Budget Formulation, Budget Execution, and Performance Evaluation*.

WRPS is responsible for the furnishing of safe, compliant, cost-effective and energy-efficient services to further the ORP mission to store, retrieve and treat Hanford tank waste, store and dispose of treated waste, and to close the Tank Farm waste management areas to protect the Columbia River. Because of the nature of this work, ORP uses performance fee to incentivize and reward WRPS for performance. Performance fee consists of two components: an incentive fee component which provides management focus and emphasis on ORP's few critical program objectives and an award fee component which provides management focus on all other aspects of WRPS's performance of the overall Tank Farm operations, construction, and maintenance programs.

a. PBI

The PBI performance measures and fee measures are delineated in Attachment 1 of this PEMP. Emphasis will be placed on development of objective incentives based on definition of the desired outcome (the "what") and expect the contractor to compliantly and safely determine "how" the work is performed to achieve the desired outcome within the established funding constraints. These incentives are identified as PBIs and typically carry more performance risk and higher fee earning opportunities. Each PBI will be documented to differentiate if it is expense or capital funded.

b. Award Fee SEA Incentives

The SEA performance objectives and measures are delineated in Attachment 1 of the PEMP. In certain instances, the contractor must provide support and/or deliverables that are required to accomplish the project objectives but are not objectively measurable in all cases. These efforts are therefore measured subjectively under incentives identified as SEAs and typically carry reduced performance risk and moderate fee earning opportunities and the FDO may use discretionary factors in determining fee. Consideration will also be given to work efficiencies, and complete and accurate technical information/products delivered in mutually agreed time frames that meet all applicable codes, standards, rules, regulations and orders. The SEA performance objectives will not be differentiated by funding source.

Attachment 1

PERFORMANCE BASED INCENTIVES

PERFORMANCE BASED INCENTIVES	VALUE	PERFORMANCE MONITOR
PBI-25.0 CLIN 2: C Farm Retrievals	\$2,950,000	Tank Farms
PBI-26.0 CLIN 2: A/AX Retrievals	\$6,150,000	Tank Farms
PBI-27.0 CLIN 2: Manage DST Space (includes DST Tank Integrity)	\$4,100,000	Tank Farms
PBI-28.0 CLIN 1: Improve Infrastructure (Vapors Inefficiencies are captured within individual projects)	\$4,400,000	Tank Farms
PBI-29.0 CLIN 3: Integrate Tank Farms and WTP	\$2,160,000	Tank Farms
PBI-30.0 CLIN 1: AY-102 Retrieval	\$1,750,000	Tank Farms
PBI-31.0 CLIN 2: Tank Farm Closure Activities	\$1,800,000	Tank Farms
PBI-32.0 CLIN 3: Chief Technology Office	\$2,100,000	Tank Farms
PBI-33.0 CLIN 5: Low-Activity Waste Pretreatment System	\$3,450,000	Tank Farms
PBI-34.0 CLIN 1: Comprehensive Vapor Action Plan	\$2,425,000	Tank Farms
Total PBI Fee Available	\$31,285,000	

AWARD FEE SPECIAL EMPHASIS AREAS

SPECIAL EMPHASIS AREAS	VALUE	PERFORMANCE MONITOR
SEA 1: Management of Single-Shell Tank (SST) and Double-Shell Tank (DST) System	\$835,000	Tank Farms
SEA 2: Performance of Tank Farm Project Operations – Conduct of Operations	\$835,000	Tank Operations
SEA 3: Cost and Management Performance	\$5,675,000	Tank Farms
SEA 4: Quality Assurance Program	\$835,000	Quality Assurance
SEA 5: Nuclear Safety	\$835,000	Nuclear Safety
SEA 6: Environmental Regulatory Management	\$835,000	Environmental
SEA 7: Safety Program Implementation	\$835,000	Safety and Health
SEA 8: Support for DFLAW and WTP Commissioning	\$835,000	Tank Farms
SEA 9: Contractor Assurance System (CAS)	\$835,000	Tank Farms
SEA 10: Integration and Implementation of Comprehensive Vapor Actions	\$1,000,000	Tank Farms
Total SEA Fee Available	\$13,355,000	

The PBIs are for specific scopes of work to be performed during the annual evaluation period. Each PBI will be evaluated on a pass/fail basis.

The available fee for both the PBIs and the SEAs combined is to be determined at \$44,640,000. Unearned fee is not available to be earned in any subsequent evaluation period.

PBI-25.0 CLIN 2 C Farm Retrievals

Performance Fee value is established at \$2,950,000 of Fiscal Year 2017 fee pool.

Fee Structure: Straight-Line and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Straight-Line	\$1,350,000	September 30, 2017	Expense
2	Terminal	\$1,250,000	September30, 2017	Expense
3 (Delete Mod 441)				Expense
4	Terminal	\$250,000	September 30, 2017	Expense
5	Terminal	\$100,000	September 30, 2017	Expense
Total		\$2,950,000		

Desired Endpoint/Outcome:

Hose-in-hose transfer lines (HIHTL) that are used in the tank farms for the temporary movement of waste for retrieval are required to be removed from the Hanford Tank Farms once retrieval activities in a Farm are complete in accordance with the schedule in the temporary HIHTL Management Plan. Prepare C-105 using an approved third Technology retrieval method that will assist in completion of tank waste retrieval activities to meet or exceed performance requirements of the Consent Decree – Appendix B and C.

Fee Bearing Milestones:

1. Complete removal of eighteen (18) interim stabilization HIHTLs by September 30, 2017. The Contractor shall earn \$75,000 of fee for each HIHTL removal for a total available fee of \$1,350,000.

Work scope/completion criteria for HIHTL removal: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented by Operations acceptance of the work package. At the completion of the HIHTL removal, the field work supervisor will verify all housekeeping activities related to the work having been completed. Completion of housekeeping will be signed off in the work record of the work package.

Completion document: Letter transmitting the performance expectation completion notice and work package coversheet documenting completion and acceptance by Operations. If two (2) or more removals are completed within a month the completion documentation will be combined into one performance expectation completion notice.

2. Complete construction and installation of a third technology retrieval system for Tank 241-C-105 by September 30, 2017. The Contractor shall earn \$1,250,000 of incremental fee.

Work Scope/Completion Criteria: Construction and system installation shall be completed in 241-C-105.

Completion document: Letter transmitting the performance expectation completion notice and copy of Construction Completion Document(s) (CCD) approved through Sections 1a and 1b.

3. Delete (Mod 441)
4. In partial completion of Tri-Party Agreement (TPA) Milestone M-45-86, provide retrieval data report for Tank 241-C-111 in C Farm that has completed retrieval under the Consent Decree. The Contractor shall earn a total of \$250,000 of fee upon completion of the report.

Work scope/completion criteria: The retrieval data report shall include the following elements:

- Residual tank waste volume measurement, including associated calculations
- The results of residual tank waste characterization
- Retrieval technology performance documentation
- The updated post-retrieval risk assessment
- Opportunities and actions being taken to refine or develop tank waste retrieval technologies based on lessons learned
- Leak detection monitoring and performance result

The tank residual characterization and residual volume estimate shall be based on the version of RPP-23403 (*Single-Shell Tank Component Closure Data Quality Objectives*) in effect at the time of retrieval completion certification for the tank in question, modified by any specific changes agreed to in the applicable Tank Sampling and Analysis Plans (TSAPs). The post-retrieval risk assessment shall be based on the risk model used in DOE/ORP-2005-01, *Initial Single-Shell Tank System Performance Assessment for the Hanford Site*. A draft of the retrieval data report shall be provided to ORP for review, and all written comments submitted to the contractor on the draft, within 30 calendar days of providing the draft to ORP, will be addressed in the final retrieval data report. Note: Development of a retrieval data report does not require Washington State Department of Ecology (Ecology) approval of completion of retrieval.

Completion document: A letter transmitting the performance expectation completion notice and a formally released retrieval data report addressing the elements described above.

5. Complete isolation of the C Farm POR008 Exhauster in accordance with a C Farm Equipment Stabilization Plan by September 30, 2017. The Contractor shall earn \$100,000 of fee for POR008 isolation.

Work scope/completion criteria: The POR008 exhauster has been isolated from service in

accordance with a C Farm Equipment Stabilization Plan that includes, as a minimum, capping the stack and isolation of the upstream filter system from the stack. Isolation will be documented by Operations acceptance of the work package(s).

Completion document: A letter transmitting the performance expectation completion notice and a copy of the C Farm Equipment Stabilization Plan for the POR008 Exhauster and work package data documenting POR008 exhauster isolation, including capping of the stack and isolation of the upstream filter system from the stack, completion and acceptance by Operations.

PBI-26.0 CLIN 2 Begin A/AX Retrieval

Performance Fee value is established at \$6,150,000 of Fiscal Year 2017 fee pool.

Fee Structure: Straight-Line and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Straight-Line	\$400,000	September 30, 2017	Expense
2	Straight-Line	\$200,000	September 30, 2017	Expense
3	Terminal	\$1,000,000	September 30, 2017	Expense
4	Terminal	\$400,000	September 30, 2017	Expense
5 (Delete Mod 441)				
6 (Delete Mod 441)				
7	Straight-Line	\$1,200,000	September 30, 2017	Expense
8	Straight-Line	\$750,000	September 30, 2017	Expense
9	Straight-Line	\$450,000	September 30, 2017	Expense
10	Terminal	\$1,500,000	September 30, 2017	Expense
11 (Delete Mod 441)				
12	Straight-Line	\$100,000	September 30, 2017	Expense
13	Straight-Line	\$150,000	September 30, 2017	Expense
Total		\$6,150,000		

Desired Endpoint/Outcome:

The work outlined in this performance based incentive is required to prepare and retrieve tanks in A/AX farms for waste retrieval. Completion of tank waste Retrieval activities to meet or exceed performance requirements in the Consent Decree – Appendix B and C.

Fee Bearing Milestones:

1. Complete equipment procurement of Extended Reach Sluicing Systems (ERSS) for Tank AX-101 by September 30, 2017. Three sluicers will be procured for AX-101. The Contractor shall earn \$400,000 of incremental for procurement of the set of ERSSs.

Work scope/completion criteria: Three sluicers for Tank AX-101 shall be received and QA accepted.

Completion document: Letter transmitting the performance expectation completion notice and a copy of the QA acceptance for the set of sluicers.

2. Complete equipment procurement and fabrication of retrieval waste distribution components for Tanks AX-101, AX-102, AX-103, and AX-104 by September 30, 2017. There are four (4) primary components to the system. The Contractor shall earn \$50,000 of incremental fee for procurement of diversion boxes (one for AX-102/AX-104 and one for AX-101/ AX-103), splitter box for AX Retrieval, and HIHTL for the diversion box to AX-102 and AX-104 tank interfaces for a total available fee of \$200,000.

Work scope/completion criteria: The two double-shell tank (DST) Diversion Boxes (AX-102/AX-104 and AX-101/AX-103) and Splitter Box for AX Retrievals and HIHTL for the diversion box to AX-102 and AX-104 tank interfaces shall be received and green tagged.

Completion document: Letter transmitting the performance expectation completion notice and copy of the green tags for each component.

3. Complete installation of the A/AX Retrieval Air and Service Water Building (A-285) by September 30, 2017. The Contractor shall earn \$1,000,000 for completion of installation of facility systems.

Work scope/completion criteria: Complete installation inclusive of building internals, such as building electrical, HVAC, facility distribution systems (i.e., air, water, and caustic), and associated facility piping.

Completion document: Letter transmitting the performance expectation completion notice and copy of work package(s) signature page(s) signed off as field work complete by the Field Work Supervisor.

4. Procure A-Farm ventilation system by September 30, 2017. The Contractor shall earn \$400,000 for completion of procurement.

Work scope/completion criteria: Procure A-Farm ventilation system. This scope is the procurement of two (2) 3,000 CFM Exhausters and associated platforms.

Completion document: Letter transmitting the performance expectation completion notice and copy of the QA acceptance for each component.

5. Delete (Mod 441)
6. Delete (Mod 441).
7. Complete six long-length equipment (LLE) removal actions at AX-102 and AX-104 by September 30, 2017. The Contractor shall earn \$200,000 in incremental fee for each of 6 long length contaminated equipment removals for a total available fee of \$1,200,000.

Work scope/completion criteria: The Contractor shall remove equipment from AX-102 and

AX-104 farm tanks to prepare the two tanks for installation of the waste retrieval systems. The equipment to be removed from each AX tank is identified in RPP-RPT-57187, *241-AX Farm Riser Utilization Evaluation*. The work scope will be completed when equipment has been removed from two of the four tanks in accordance with RPP-RPT-57187.

Completion document: Letter transmitting the performance expectation completion notice(s) and a copy of the work package signed off as completed by the Field Work Supervisor for each LLE. If two (2) or more LLE removal actions are completed within a month the completion documentation will be combined into one performance expectation completion notice.

8. Complete the following AX-102 and AX-104 equipment removal actions by September 30, 2017. The Contractor shall earn \$187,500 in incremental fee for each pit cleanout (excluding long length contaminated equipment removals) for a total available fee of \$750,000.

Work scope/completion criteria: AX-102 and AX-104 equipment removal actions includes complete removal of cover block, and clean out four (4) pits (excluding long length contaminated equipment removals).

Completion document: Letter transmitting the performance expectation completion notice and for each pit cleanout a copy of the work package signed off as complete by the Field Work Supervisor.

9. Complete the demolition of Buildings 801A, 801B, and 801C by September 30, 2017. The Contractor shall earn \$150,000 in incremental fee for each building demolition for a total available fee of \$450,000.

Work scope/completion criteria: Removal of AX-Farm Buildings 801A, 801B, and 801C to facilitate new retrieval equipment system installation. Completion criteria includes complete removal of Buildings 801B, 801C, and 801A above grade (excludes 801A below grade).

Completion document: Letter transmitting the performance expectation completion notice and for building removal a copy of the work package signed off as complete by the Field Work Supervisor. If two (2) or more building demolitions are completed within a month the completion documentation will be combined into one performance expectation completion notice.

10. Complete fabrication of the A/AX Water Service Skid (POR-466) by September 30, 2017. The Contractor shall earn \$1,500,000 of incremental fee upon completion of fabrication and receipt for field installation.

Work scope/completion criteria: Complete procurement, fabrication and installation of components into their environmentally controlled container (building) to comprise the A/AX Water Service Skid POR-466.

Completion document: Letter transmitting the performance expectation completion notice and QA acceptance of (POR-466) as a complete unit.

11. Delete (Mod 441)
12. Complete AZ Drop Leg installation and AX Splitter Box installation by September 30, 2017. The Contractor shall earn \$50,000 in incremental fee for each of two equipment installations for a total available fee of \$100,000.

Work scope/completion criteria: Complete field installation of AZ Drop Leg installation and AX Splitter Box installation (excluding HIHTL connection and excavation, placement and service connections, radiation monitoring component installation, shield plate and hose barn installation, Construction Acceptance Testing (CATs) and OATs). These systems are needed to support AX-102 and AX-104 retrieval.

Completion document: Letter transmitting the performance expectation completion notice for each installation and a copy of the work package signed off as complete by the Field Work Supervisor. If two (2) equipment installations are completed within a month the completion documentation will be combined into one performance expectation completion notice.

13. Complete A Farm Ventilation Equipment procurements by September 30, 2017. The Contractor shall earn \$50,000 in incremental fee for each of the three (3) component groups for a total available fee of \$150,000.

Work scope/completion criteria: The Contractor shall procure A-Farm ventilation equipment component groups as follows: 1) Demisters, 2) Duct isolation/butterfly valves, and 3) Inlet assemblies/vacuum controllers.

Completion document: Letter transmitting the performance expectation completion notice and a copy of the QA acceptance for each of the three (3) component groups. If two (2) or more procurements are completed within a month the completion documentation will be combined into one performance expectation completion notice.

PBI-27.0 CLIN 1 Manage DST Space (including DST Tank Integrity)

Performance Fee value is established at \$4,100,000 of FY 2017 fee pool.

Fee Structure: Straight-Line Method and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Straight-Line	\$1,500,000	September 30, 2017	Expense
2	Straight-Line	\$450,000	September 30, 2017	Expense
3 Delete (Mod 441)				
4	Straight-Line	\$1,000,000	September 30, 2017	Expense
5	Terminal	\$300,000	March 31, 2017	Expense
6	Straight-Line	\$700,000	September 30, 2017	Expense
7	Straight-Line	\$150,000	September 30, 2017	Expense
Total		\$4,100,000		

Desired Endpoint/Outcome:

Prior to operations of the Waste Treatment and Immobilization Plant (WTP), conservation of DST space is critical to allow continued single-shell tank (SST) retrievals in accordance with negotiated regulatory milestones. The 242-A Evaporator is the primary tool to reduce waste volumes stored in the DST system, as well as DST to DST transfers, appropriate sampling, encasement pressure tests, SST and DST visual inspections, SST intrusion mitigation, Effluent Treatment Facility (ETF) Liquid Effluent Retention Facility (LERF) inventory reduction, etc.

Fee Bearing Milestones:

1. Operate the 242-A Evaporator to process cumulative 480,000 waste volume reduction volume by September 30, 2017. The Contractor shall earn \$500,000 upon completion of each 160,000 gallons of waste volume reduction for total available fee of \$1,500,000.

Work scope/completion criteria: Operate the 242-A Evaporator as a key component of the transfer and treatment system for Tank Farms. The evaporator will process the waste to the parameters determined by Process Engineering. The after-flush waste volume reduction (WVR) will be determined by the Process Control Plan (e.g., specific gravity goal and limits on the amount of waste removed from AW-102) with a cumulative 480,000 gallons waste volume reduction by September 30, 2017, of free DST volume achieved. Any WVR achieved above the 480,000 gallons in FY 2017 will carry over and count towards FY 2018 WVR and associated 242-A processing milestones.

Completion document: Letter transmitting the performance expectation completion notice and letter report and evidence of completion documenting that the waste volume reduction volume has been achieved and summarizing the volume reduction results.

2. Complete six (6) grab samples in support of the Tank Operations Contract (TOC) mission by September 30, 2017. The Contractor shall earn \$75,000 of incremental fee upon completion of the each grab sample (total of \$450,000 of incremental fee is available to be earned).

Work scope/completion criteria: Completion of 6 grab samples as described in the applicable TSAPs. The plan shall identify; the type of sample, the technical need for the sampling activity, the location of the samples, and the sampling requirements. Sampling activities for double-shell tanks may include up to two activities per TSAP, provided they are discrete sampling activities and are described as such in a TSAP.

Completion document: Letter transmitting performance expectation completion notice, copy of the chain of custody, and copy of the Sampling Data sheet. These items document completion of the grab sample and transfer of ownership to the laboratory. If two (2) or more grab samples are completed within a month the completion documentation will be combined into one performance expectation completion notice.

3. Delete (Mod 441).
4. Perform eight (8) DST enhanced annulus visual inspections in specified tank farms by September 30, 2017. The Contractor shall earn \$200,000 of fee for completing each DST enhanced annulus visual inspection report for total available fee of \$1,000,000.

Work scope/completion criteria: Perform eight (8) DST enhanced annulus visual inspections on tanks and document the results of the inspections in five (5) inspection reports (i.e., one (1) report per tank farm).

An enhanced annulus visual inspection consists of ≥ 95 percent inspection of the annulus floor. In addition, the visual inspection will include the primary tank dome, upper and lower haunches, sidewall, and insulating refractory visible from the annulus inspection risers.

Completion document: Letter transmitting performance expectation completion notice and applicable DST Annulus visual inspection report to the ORP. If two (2) or more enhanced visual inspections are completed within a month the completion documentation will be combined into one performance expectation completion notice.

5. Reduce LERF inventory by 2,000,000 gallons by March 31, 2017. The Contractor shall earn \$150,000 of incremental fee upon completion of each 1,000,000 gallons of LERF inventory with an initial reduction for total available fee pool of \$300,000 for 2,000,000 cumulative gallons.

Work scope/completion criteria: Operate the ETF as a key component of the Tank Farms. The ETF will process the waste to the parameters determined by Process Engineering. The volume of waste processed shall be based on LERF inventory transferred to the Surge Tank as

determined by the Process Control Plan. Any processing achieved above the 2,000,000 gallons in FY 2017 will carry over and count towards FY 2017 processing and associated ETF processing milestones.

Completion document: Letter transmitting the performance expectation completion notice and letter report and evidence of completion documenting that the LERF inventory reduction has been achieved and summarizing the processing results.

6. Reduce LERF inventory by an additional 4,000,000 gallons September 30, 2017. The Contractor shall earn \$175,000 of incremental fee upon completion of each 1,000,000 gallons of LERF inventory additional reduction for total available fee pool of \$700,000 for 4,000,000 cumulative gallons.

Work scope/completion criteria: Operate the ETF as a key component of the Tank Farms. The ETF will process the waste to the parameters determined by Process Engineering. The volume of waste processed shall be based on LERF inventory transferred to the Surge Tank as determined by the Process Control Plan. Any processing achieved above the 4,000,000 gallons in FY 2017 will carry over and count towards FY 2018 processing and associated ETF processing milestones.

Completion document: Letter transmitting the performance expectation completion notice and letter report and evidence of completion documenting that the LERF inventory reduction of a total 6,000,000 has been achieved and summarizing the processing results. If two (2) or more LERF inventory reductions are completed within a month the completion documentation will be combined into one performance expectation completion notice.

7. Perform ultrasonic testing examination of the secondary liner floors of three double-shell tanks (DSTs): SY-101, SY-102, and SY-103. The secondary liner floor examination of each tank will consist of a 16-foot by 15-inch scan taken from each of 24-inch DST annulus risers. The Contractor shall earn \$50,000 for each tank for total available fee of \$150,000.

Work scope/completion criteria: Perform Ultrasonic Testing Examination of the secondary liner floors of the three DSTs: SY-101, SY-102, and SY-103 by September 30, 2017.

Completion document: Letter transmitting the performance expectation completion notice and copy of Operations Acceptance associated with DST Ultrasonic Testing Examination work package. If two (2) or more ultrasonic testing examinations are completed within a month the completion documentation will be combined into one performance expectation completion notice.

FBI-28.0 CLIN 1 Improve Tank Farm Infrastructure

Performance Fee value is established at \$4,400,000 of FY 2017 fee pool.

Fee Structure: Straight-Line Method and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Straight-Line	\$300,000	September 30, 2017	Expense
2	Straight-Line	\$500,000	September 30, 2017	Expense
3	Terminal	\$150,000	September 30, 2017	Expense
4	Straight-Line	\$1,000,000	September 30, 2017	Expense
5	Terminal	\$700,000	September 30, 2017	Expense
6	Terminal	\$200,000	December 31, 2016	Expense
7	Straight-Line	\$750,000	September 30, 2017	Expense
8	Straight-Line	\$300,000	September 30, 2017	Expense
9	Straight-Line	\$100,000	September 30, 2017	Expense
10	Straight-Line	\$100,000	September 30, 2017	Expense
11	Straight-Line	\$300,000	September 30, 2017	Expense
Total		\$4,400,000		

Desired Endpoint/Outcome:

Improvements to the tank farm infrastructure is essential for providing waste treatment capabilities to meet future need. Upgrading aging infrastructure provides safe, reliable systems which are necessary to support the mission. Replacing the aging tank farm infrastructure through upgrades in the 242-A Evaporator, 222-S Laboratory, AN Farm, AW Farm, AY/AX Farm, and nonfarm specific areas will support projects retrieval of waste activities, direct-feed of low-activity waste to the waste treatment and immobilization plant, etc.

Vapors inefficiencies are captured within the individual projects.

Fee Bearing Milestones:

1. Complete one (1) 222-S Laboratory Facility Upgrade by September 30, 2017. The Contractor shall earn \$300,000 of incremental fee upon completion of the upgrade.

Work scope/completion criteria: Complete facility upgrade in support of the 222-S Laboratory as follows: 1) replace secondary transformer(s).

Completion document: Letter transmitting the performance expectation completion notice and copy of work order signature pages approved through Operations acceptance.

2. Procure and install four (4) 222-S Laboratory Analytical Instruments by September 30, 2017. The Contractor shall earn \$125,000 incremental fee upon completion of each instrument install for a total available fee pool of \$500,000.

Work scope/completion criteria: Procure and install four (4) analytical instruments such as: 1) thermal desorption unit, 2) cold vapor atomic absorption spectrometer, 3) gas chromatograph/mass spectrometer, and 4) total organic/inorganic carbon chromatograph, etc.

Completion document: Letter transmitting the performance expectation completion notice(s) and copy of work order signature pages approved through Operations acceptance. If two (2) or more analytical installations are completed within a month the completion documentation will be combined into one performance expectation completion notice.

3. Complete one (1) 222-S Laboratory Facility Upgrade Design by September 30, 2017. The Contractor shall earn \$150,000 incremental fee upon completion of the upgrade design.

Work scope/completion criteria: Complete design of one (1) facility upgrade in support of the 222-S Laboratory as follows: 1) 1J room renovation.

Completion document: Letter transmitting the performance expectation completion notice and a copy of the design documentation for the 1J room renovation.

4. Complete three (3) double-shell tank farm upgrades by September 30, 2017. The Contractor shall earn \$600,000 of fee upon completion of the first pump replacement, \$200,000 for the second pump replacement, and \$200,000 for the radiation monitors upgrade for a total available fee pool of \$1,000,000.

Work scope/completion criteria: Complete upgrades in support of the AP, AW, and 242-A Evaporator upgrades:

- AW-106 pump replacement;
- AP-106 pump replacement;
- Process Condensate Radiation Monitors (RC-1/2/3) Upgrade

Completion document: Letter transmitting performance expectation completion notice and copy of the work order signature page approved through Operations Acceptance. If two (2) or more DST upgrades are completed within a month the completion documentation will be combined into one performance expectation completion notice.

5. Complete one (1) basin cover replacement at the LERF by September 30, 2017. The Contractor shall earn \$700,000 of fee upon completion.

Work scope/completion criteria: Complete upgrade in support of the nonfarm specific upgrade as follows: 1) one LERF basin cover replacement.

Completion document: Letter transmitting performance expectation completion notice and copy of the work order signature page approved through Operations Acceptance.

6. Award a contract for procurement of a spare E-A-1 reboiler for the 242-A evaporator by December 31, 2016. The Contractor shall earn \$200,000 of incremental fee upon award.

Work Scope/Completion criteria: Complete all necessary engineering and quality assurance documentation to support the procurement of a spare reboiler. Provide evidence associated with the award of a contract to a vendor for design/build of new safety significant 242-A evaporator reboiler.

Completion document: Letter transmitting performance expectation completion notice and procurement documentation indicating the award of a contract for the design/build of a spare E-A-1 reboiler for the 242-A Evaporator.

7. Complete three (3) double-shell tank farm upgrades in support of DNFSB 2012-2 recommendations for safety significant flow monitoring by September 30, 2017. The Contractor shall earn \$250,000 of fee upon completion of each upgrade for a total available fee pool of \$750,000.

Work scope/completion criteria:

- AZ Farm Power upgrades
- AP Farm SS flow instrumentation installation
- AN Farm SS flow instrumentation installation.

Completion document: Letter transmitting performance expectation completion notice and copy of the work order signature page approved through Operations Acceptance. If two (2) or more DST upgrades in support of DNFSB 2012-2 recommendations are completed within a month the completion documentation will be combined into one performance expectation completion notice.

8. Upgrade facility stairs by removal, repair, and/or replacement in and around the tank farms by September 30, 2017. The Contractor shall earn \$300,000 of incremental fee upon upgrading facility stairs to meet current industrial safety standards.

Work scope/completion criteria: Plant Forces: Repair/upgrade existing stairs and rails/platforms (48 total). This scope of work is to have HAMTC craft painting, repair existing stairs, and rails/platforms. The outside fence area has 30 stairs requiring painting and/or repair. The inside fence area has 18 stairs requiring painting and/or repairs. Construction Forces: Remove, repair, and/or replace facility stairs (48 total). This scope is to have Construction Forces (subcontract) remove, replace (designated) existing stairs, rails, and platforms. The outside fence area has 22 replacement upgrades and 2 complete stair removals (24 total). The inside the fence area has 13 replacements upgrades and 11 complete removals (24 total).

The replacement of stairs in and around the tank farms will lead to a safer working environment due to infrastructure upgrades and be compliant to current industrial safety standards.

Completion document: Letter transmitting performance expectation completion notice and copy of the work order/documentation signature page approved through Field Work Supervisor.

9. Complete design for the installation of the 241-SY Exhauster by September 30, 2017. The Contractor shall earn \$100,000 incremental fee upon completion of the design.

Work scope/completion criteria: Complete design for installation of the SY Exhauster.

Completion document: Letter transmitting the performance expectation completion notice and a matrix identifying the completed and released design media.

10. Complete installation of permanent shore power to safety showers POR251-EMER-001 at the AP Tank Farm and POR254-EMER-004 at the A/AX Tank Farm and purchase three (3) additional safety showers by September 30, 2017. The Contractor shall earn \$50,000 incremental fee upon completion of the installation and \$50,000 upon receipt of the three additional showers for a total of \$100,000.

Work scope/completion criteria: Complete installation of permanent shore power to the AP and A/AX safety showers and delivery/receipt of three (3) additional safety showers.

Completion document: Letter transmitting the performance expectation completion notice and copies of the pages in the associated work packages signifying operations acceptance of the installations and QA acceptance of the shower units.

11. Complete fabrication and receipt of three (3) new vertical turbine waste transfer pumps by September 30, 2017. The Contractor shall earn \$300,000 of incremental fee upon completion.

Work scope/completion criteria: Complete design, fabrication and receipt of three (3) new vertical turbine pumps.

Completion document: Letter transmitting the performance expectation completion notice and copy of the QA acceptance applied to each pump upon receipt.

PBI-29.0 CLIN 3 Integrated Tank Farms and WTP

Performance Fee value is established at \$2,160,000 of FY 2017 fee pool.

Fee Structure: Straight-Line and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Terminal	\$750,000	August 15, 2017	Expense
2	Terminal	\$250,000	September 30, 2017	Expense
3 Moved to PBI-32.0.7 (Mod 441)			7	
4	Terminal	\$500,000	September 30, 2017	Expense
5 Moved from PBI-32.0.6	Straight-Line	\$100,000	September 30, 2017	Expense
6	Straight-Line	\$110,000	September 30, 2017	Expense
7	Straight-Line	\$100,000	September 30, 2017	Expense
8	Straight-Line	\$100,000	September 30, 2017	Expense
9	Terminal	\$150,000	July 31, 2017	Expense
10	Straight-Line	\$100,000	September 30, 2017	Expense
Total		\$2,160,000		

Desired Endpoint/Outcome:

The completion of these activities contribute to increased schedule confidence that Direct-Feed Low-Activity Waste (DFLAW) processing will start by December 2021. This includes providing critical support to major elements of the program such as the Integrated Disposal Facility (IDF) Performance Assessment and the Flowsheet Maturation Plan.

Fee Bearing Milestones:

1. Submit the River Protection Project (RPP) System Plan 8 revision by August 15, 2017. The Contractor shall earn \$750,000 of fee upon completion.

Work scope/completion criteria: The RPP System Plan to reflect assumptions approved by the U.S. Department of Energy Office of River Protection in accordance with HFFACO, Ecology et al. 1989) Milestone M-062-40 (due tri-annually).

Completion document: Letter transmitting performance expectation completion notice and a copy of the Contractor-approved RPP System Plan revision.

2. Modify and issue technical documents as required/described in the work scope/completion criteria below by September 30, 2017. The Contractor shall earn \$250,000.

Work scope/completion criteria: Modify and issue the following documents as required to support DFLAW commissioning:

Document	FY 2017
DFLAW First Feed Flowsheet	X
Flowsheet Maturation Plan	X

Completion document: Letter transmitting performance expectation completion notice and a copy of the DFLAW First Feed Flowsheet and the Flowsheet Maturation Plan to ORP.

3. Moved to PBI-32.0.7 (Mod 441).
4. Complete the prototype immobilized low-activity waste (ILAW) transporter performance specification and award design/fabrication contract by September 30, 2017. The Contractor shall earn \$500,000 of fee upon award of the design/fabrication contract.

Work scope/completion criteria: WRPS shall complete the award of the prototype ILAW transporter system design/fabrication contract.

Completion document: Award design/fabrication contract for the prototype ILAW transporter system.

5. Complete necessary studies in support of the DFLAW waste feed delivery qualification program. The Contractor shall earn a total of \$100,000 of fee for documentation of the completed studies necessary for waste feed qualification program by September 30, 2017.

Work scope/completion criteria: Complete and document studies necessary for the DFLAW waste feed delivery qualification program.

Completion document: Letter transmitting the performance expectation completion notice and final technical report describing the results of the studies for the waste feed qualification efforts.

6. Complete the joint TOC/WTP/PRC evaluation and Issue the One System LAW Melter Replacement Logistics Report by September 30, 2017. The Contractor shall earn \$110,000 of fee upon completion.

Work scope/completion criteria: Complete the joint TOC/WTP/PRC evaluation and Issue the One System LAW Melter Replacement Logistics Report.

Completion document: Letter transmitting performance expectation completion notice and a copy of the One System LAW Melter Replacement Logistics Report to ORP.

7. Submit the RPP Integrated Flowsheet, Revision 2, by September 30, 2017. The Contractor shall earn \$100,000 of fee upon completion.

Work scope/completion criteria: The RPP Integrated Flowsheet report provides an analysis of the current flowsheet for completing the RPP Mission, including a comparison of projected stream characteristics against RPP facility Waste Acceptance Criteria.

Completion document: Letter transmitting performance expectation completion notice and a copy of the Contractor-approved RPP Integrated Flowsheet.

8. Demonstrate a prototype of the manual waste transfer functionality in the near-term operations (NTO) tool by September 30, 2017. The FY17 prototype will allow for rapid evaluation of alternative transfer sequences. The Contractor shall earn \$100,000 of fee for the completion of the operating prototype.

Work scope/completion criteria: Completion of a report documenting the NTO Prototype demonstration.

Completion document: Letter transmitting performance expectation completion notice and NTO Prototype demonstration report.

9. Complete development of an uncertainty analysis tool and perform an uncertainty analysis of the System Plan 8 base case by July 31, 2017. The Contractor shall earn \$150,000 of fee for the completion of model and analysis.

Work scope/completion criteria: Completion of uncertainty analysis tool and completion of a report describing the tool and providing an initial analysis of the System Plan 8 base case.

Completion document: Letter transmitting performance expectation completion notice and report describing the tool and providing an initial analysis of the System Plan 8 base case.

10. Submit volumes 1, 2, and 3 of the Integrated Waste Feed Delivery Plan, Revision 4 by September 30, 2017. The Contractor shall earn \$100,000 of fee for the completion of the plan.

Work scope/completion criteria: The Integrated Waste Feed Delivery Plan provides the process requirements, analysis of the feed batching process and description of the tank farms infrastructure required for feeding the Hanford Waste Treatment and Immobilization Plant.

Completion document: Letter transmitting performance expectation completion notice and a copy of the Contractor-approved final volume of the Integrated Waste Feed Delivery Plan.

PBI-30.0 CLIN 1 AY-102 Retrieval

Performance Fee value is established at \$1,750,000 of Fiscal Year 2017 fee pool.

Fee Structure: Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Terminal	\$1,500,000	March 4, 2017	Expense
2	Straight-Line	\$250,000	September 30, 2017	Expense
Total		\$1,750,000		

Desired Endpoint/Outcome:

The work outlined in this performance based incentive is required to prepare for and complete tank AY-102 waste retrieval. Completion of tank waste Retrieval activities to meet or exceed performance requirements in the Administrative Order.

Fee Bearing Milestones:

1. Complete retrieval operations of AY-102 by March 4, 2017. The Contractor shall earn a total of \$1,500,000 of fee upon completion waste retrieval by March 4, 2017 (Terminal method milestone).

Work scope/completion criteria: Complete waste retrieval operations of AY-102. This includes completion of the AY-102 primary tank waste retrieval operations to the limit of the Modified Sluicing and High Pressure Water technologies.

Completion document: Letter transmitting performance expectation completion notice, a copy of the material balance data and engineering calculation summary information demonstrating retrieval is complete.

2. Complete HD Camera Installation in AY-102 Riser and perform video examination of the primary area of interest for leak site investigation identified in the Retrieval Completion Status Report for Tank 241-AY-102 (RPP-RPT-59728) by September 30, 2017. The Contractor shall earn a total available fee of \$250,000.

Work scope/completion criteria: Perform video examination of the primary area of interest for leak site investigation identified in the Retrieval Completion Status Report for tank 241-AY-102 (RPP-RPT-59728). This examination is needed to locate and observe the tank bottom suspected leak site(s) to investigate the flaw type(s) (Crack-Like Flaws, Pitting Corrosion, etc.) and damage mechanism(s). Data collected in this examination will provide input to the Fitness-For-Service assessment procedure (ASME FFS-1/API 579), for selection of in-tank inspection techniques, inspection acceptance criteria, remaining life evaluation, and tank repair.

Completion document: Letter transmitting the performance expectation completion notice for the video examination, HD pictures of the tank bottom, and brief description of observations.

PBI-31.0 CLIN 2 Tank Farm Closure Activities

Performance Fee value is established at \$1,300,000 the FY 2017 fee pool

Fee Structure: Straight-Line and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1 Delete (Mod 441)				
2	Straight-Line	\$400,000	September 30, 2017	Expense
3	Straight-Line	\$750,000	September 30, 2017	Expense
4	Straight-Line	\$400,000	September 30, 2017	Expense
5	Straight-Line	\$100,000	September 30, 2017	Expense
6	Straight-Line	\$150,000	September 30, 2017	Expense
Total		\$1,300,000		

Desired Endpoint/Outcome:

Complete draft of the Integrated Disposal Facility (IDF) Performance Assessment (PA) for ORP and Low-Level Waste Disposal Facility Federal Review Group (LFRG) review. Complete five Waste Management Area (WMA) C Closure Support Documents based upon ORP input and Hanford Federal Facility Agreement and Consent Order (HFFACO) M-045-82 negotiations. Complete development of initial conceptual and numerical models for the WMA A-AX PA. Complete draft of WMA A-AX RCRA Facility Investigation (RFI)/Corrective Measures Study (CMS) Data Quality Objectives (DQO) report for ORP review. Support ORP in reaching agreement with the Washington State Department of Ecology (Ecology) on locations for interim barriers 3 and 4. Complete draft WMA C PA Maintenance Plan and Monitoring Plan for ORP review.

Fee Bearing Milestones:

1. Delete (Mod 441)
2. Complete draft Integrated Disposal Facility Performance Assessment (IDF PA), and provide the draft to ORP and the LFRG, this document shall be provided in a high quality with few modification for final completion and approval. The Contractor shall earn \$200,000 for delivery of draft to ORP, and \$200,000 for delivery to the LFRG for a total available fee of \$400,000 upon completion.

Work scope/completion criteria: Complete all necessary modeling and delivery draft IDF PA to ORP for review with consequent delivery to LFRG for review.

Completion document: Draft IDF-PA report delivered to ORP for review. Draft IDF PA report delivered to LFRG for review. If both documents are completed within a month the completion documentation will be combined into one performance expectation completion notice.

3. Complete up to five (5) WMA C Closure Support Documents based upon DOE Order 435.1, RCRA requirements, and/or TPA Appendix I requirements. The Contractor shall receive \$150,000 for each completed document for total available fee of \$750,000 upon completion.

Work scope/completion criteria: Complete five WMA C Closure Support Documents for ORP's review prior to finalization and submittal. These documents are necessary to meet the requirements of DOE Order 435.1, RCRA, and/or TPA Appendix I. ORP input and negotiation updates on TPA M-045-82 are needed for completion of reports. Provide a draft final Tier 1 Closure Plan that meets the requirements of DOE Order 435.1. Provide a draft Tier 2 Closure Plan for WMA C that meets the requirements of DOE Order 435.1. Provide a draft final basis document for the WMA C Waste Incidental to Reprocessing (WIR) decision that meets the requirements of DOE Order 435.1. Provide a final version of a Tier 2 Closure Plan for WMA C that meets requirements of TPA Appendix I and RCRA. Provide a final version of a Tier 3 Closure Plan for the C-200 Tanks in WMA C that meets the requirements of TPA Appendix I and RCRA.

Completion document: Letter transmitting the performance expectation completion notice and up to five (5) Closure Support Documents for ORP's review prior to finalization and submittal. 1) draft final DOE Order 435.1 Tier 1 Closure Plan; 2) draft WMA C DOE Order 435.1 Tier 2 Closure Plan; 3) draft final basis document for the WMA C WIR determination; 4) final version of WMA C RCRA Tier 2 Closure Plan; and 5) final RCRA Tier 3 Closure Plan for C-200 Tanks.. If two (2) or more documents are completed within a month the completion documentation will be combined into one performance expectation completion notice.

4. Develop draft conceptual and numerical model for the WMA A/AX. The Contractor shall earn \$200,000 for a report on the conceptual model and \$200,000 for a report on the numerical model for a total available fee of \$400,000.

Work scope/completion criteria: Development of the draft WMA A/AX conceptual model and the numerical model for ORP's review prior to finalization and submittal.

Completion document: Letter transmitting the performance expectation completion notice and draft report documenting the conceptual models and draft report documenting the numerical model. The documentation will be an internal, unreleased technical report. If two (2) or more documents are completed within a month the completion documentation will be combined into one performance expectation completion notice.

5. Complete draft of WMA A/AX DQO report for ORP review. The Contractor shall earn \$100,000 of fee upon completion.

Work scope/completion criteria: Development of the draft of WMA A/AX DQO report. The WMA A/AX DQO is needed to support future development of sampling plan for RFI and CMS for WMA A/AX and the A/AX Performance Assessment.

Completion document: Letter transmitting the performance expectation completion notice with the draft WMA A/AX DQO report.

6. Complete the draft WMA C Performance Assessment Maintenance Plan, WMA C Performance Assessment Monitoring Plan, the Unreviewed Disposal Question (UDQ) Procedure for ORP's review prior to finalization and submittal. The Contractor shall earn \$50,000 for each document plan for a total fee of \$150,000 upon completion.

Work scope/completion criteria: Development of the draft WMA C Performance Assessment Maintenance Plan, WMA C Performance Assessment Monitoring Plan and UDQ procedure.

Completion document: Letter transmitting the performance expectation completion notice with the draft WMA C Performance Assessment Maintenance Plan, WMA C Performance Assessment Monitoring Plan and UDQ procedure. If two (2) or more plans/procedures are completed within a month the completion documentation will be combined into one performance expectation completion notice.

PBI-32.0 CLIN 3 Chief Technology Office

Performance Fee value is established at \$2,100,000 the FY 2017 fee pool

Fee Structure: Straight-Line and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Terminal	\$750,000	September 30, 2017	Expense
2	Straight-Line	\$150,000	September 30, 2017	Expense
3	Terminal	\$350,000	September 30, 2017	Expense
4	Terminal	\$350,000	September 30, 2017	Expense
5	Terminal	\$50,000	September 30, 2017	Expense
6 Moved to PBI-29.0.5 (Mod 441)				
7	Straight-Line	\$250,000	September 30, 2017	Expense
8	Straight-Line	\$200,000	September 30, 2017	Expense
Total		\$2,100,000		

Desired Endpoint/Outcome:

Complete testing and laboratory studies to support disposal related waste form performance necessary for advanced glasses, secondary liquid waste streams, and secondary solid waste forms in support of DFLAW. Complete Pretreatment Engineering Platform (PEP) demobilization. Complete development and demonstration of radioactive waste test platform for specific LAW/ Effluent Management Facility (EMF) bottoms disposition. Complete testing of confined sluicing end-effector (CSEE) retrieval technology and testing of non-visual under tank inspection technologies. Complete necessary studies in support of Waste Feed Delivery Qualification (WFD) for DFLAW.

Fee Bearing Milestones:

1. Complete testing and laboratory studies to support disposal related waste form performance necessary for advanced glasses, secondary liquid waste streams, and secondary solid waste forms by September 30, 2017. The Contractor shall earn \$750,000 upon submittal.

Work scope/completion criteria: Complete testing and laboratory studies to support disposal related waste form performance necessary for advanced glasses, secondary liquid waste streams, and secondary solid waste forms by September 30, 2017:

- Report detailing the results of the advanced glass testing including glass rate dissolution rate parameters and potential secondary phase formulation.
- Report detailing the results of secondary liquid waste form performance including constituents and 4 melter runs.
- Report detailing the secondary solid waste form performance as part of the IDF-PA needs.

Completion document: Letter submitting the performance expectation completion notice and the comprehensive reports described above.

2. Complete development of radioactive waste test platform for processing tank waste into a LAW form by initiating test platform operations by September 30, 2017. The Contractor shall earn \$50,000 for design, procurement, and installation of equipment necessary for processing tank waste into LAW waste form and \$100,000 of fee for initiating test platform operations and pretreating 1 gallon of waste for total available fee of \$150,000.

Work scope/completion criteria: The Contractor shall 1) design, procure, install the equipment necessary for processing tank waste; and 2) pretreat a minimum of 1 gallon of waste through development, installation, and operation of a system capable of processing the waste into a Low Level Waste form.

Completion document: Letter(s) transmitting performance expectation completion notice(s) and 1) letter documenting WRPS walkdown concurrence that the equipment is installed at the test platform location, and 2) letter documenting results. If both milestones are completed within a month the completion documentation will be combined into one performance expectation completion notice.

3. Complete cold testing of an alternate retrieval technology to demonstrate its potential effectiveness as a retrieval technology. The Contractor shall earn a total of \$350,000 of fee for completion of the initial testing and submittal of the final test report by September 30, 2017.

Work scope/completion criteria: Define the alternate retrieval technology configuration, develop a test platform, develop test plan, and complete initial effectiveness testing and submit the final test results report.

Completion document: Letter transmitting the performance expectation completion notice and the final test report.

4. Complete cold testing demonstration of non-visual inspection technology to demonstrate its potential effectiveness as a double-shell under tank inspection technology. The Contractor shall earn a total of \$350,000 of fee for completion of the initial testing and submittal of the final test report by September 30, 2017.

Work scope/completion criteria: Define the under tank inspection technology and configuration, develop a test platform, develop test plan, and complete initial effectiveness testing and submit the final test results report.

Completion document: Letter transmitting the performance expectation completion notice and the final test report.

5. Complete demobilization of the pretreatment engineering platform (PEP) to support excessing the equipment. The Contractor shall earn a total of \$50,000 of fee for documentation of the demobilization by September 30, 2017.

Work scope/completion criteria: Complete demobilization of the pretreatment engineering platform (PEP).

Completion document: Letter transmitting the performance expectation completion notice and final completion report.

6. Moved to PBI-29.0.5 (Mod 441)

7. Complete waste form development and performance testing for EMF bottoms disposition either onsite/offsite by September 30, 2017. The Contractor shall earn \$250,000 of fee upon completion.

Work scope/completion criteria: Complete technical report with waste form and performance data for any subsequent regulatory analyses.

Completion document: Letter submitting the performance expectation completion notice and the technical report with waste form and performance data for any subsequent regulatory analyses.

8. Modify and issue revision to the RPP Technology Roadmap by September 30, 2017. The Contractor shall earn \$200,000 of fee upon completion.

Work scope/completion criteria: The RPP Technology Roadmap to reflect mission and technology maturation priorities provided by the Us Department of Energy Office of River Protection.

Completion document: Letter transmitting performance expectation completion notice and a copy of the approved RPP Technology Roadmap revision.

PBI-33.0 CLIN 5 Low-Activity Waste Pretreatment System

Performance Fee value is established at \$3,450,000 the FY 2017 fee pool

Fee Structure: Straight-Line Method and Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Terminal	\$575,000	June 30, 2017	Capital
2	Terminal	\$1,250,000	September 30, 2017	Capital
3	Terminal	\$1,250,000	September 30, 2017	Capital
4	Terminal	\$375,000	September 30, 2017	Expense
Total		\$3,450,000		

Desired Endpoint/Outcome:

Support the DFLAW mission of providing filtered Low-Activity Waste (LAW) to the WTP for glassification and ultimately reduce the volume of the LAW in the double-shell tanks at Hanford.

Fee Bearing Milestones:

1. Submit the Low Activity Waste Pretreatment Project (LAWPS) 60% Design Review Documents/Package to ORP for review by June 30, 2017. The Contractor shall earn \$575,000 in fee upon completion.

Work scope/completion criteria: The 60% Design Review Documents/Package for the LAWPS will consist of primarily alpha revision design (with the exception of the P&ID/V&ID, numeric revisions) and will include the following:

- Calculations
- Studies
- Specifications (construction/performance)
- General Arrangement Drawings
- Plot plans
- Building plans
- Sections/Elevations
- P&ID, V&ID, etc.

The Design Package will have been through the WRPS design review with comments collected, dispositioned, and a comment incorporation path forward planned.

Completion document: Letter transmitting the performance expectation completion notice and 60% Design Review Documents/Package to ORP for review.

2. Complete the LAWPS Engineering-scale Integrated Test and Full-scale Ion Exchange Column Test by September 30, 2017. The Contractor shall earn \$1,250,000 upon completion

Work scope/completion criteria: The scope of Engineering Scale Integrated Test and Full-scale Ion Exchange Column Test comprises a series of prototypic tests during CD-2 design to test interactions between equipment at scale to inform/validate the final design of the permanent plant. The testing shall comprise completing the base test scope commenced in FY 2016 of the four critical technologies identified in the Technology Maturation Plan in an integrated manner at a nominal one-ninth scale. In addition, a separate series of tests will be conducted on a prototypic full-scale ion exchange column, recirculation system and resin de-watering function.

Completion document: Letter transmitting the performance expectation completion notice and Contractor-issued Summary Test Report.

3. Submit the LAWPS Preliminary Safety Design Report (PSDR) by September 30, 2017. The Contractor shall earn \$1,250,000 upon submittal.

Work scope/completion criteria: The Contractor shall complete the updated LAWPS PSDR with the initial ORP comments dispositioned and incorporated so that the document is ready for U.S. Department of Energy Headquarters (DOE-HQ) concurrence. This assumes a 30-day ORP review cycle after the Contractor initial submittal of the PSDR. The updated PSDR shall reflect current design changes in active ventilation, flammable gas mitigation, radioactive inventory monitoring, and misroute prevention, as well as enhanced description of the confinement strategy and natural phenomenon hazard mitigation.

Completion document: Letter submitting the performance expectation completion notice and PSDR to ORP.

4. Submit an initial LAWPS RCRA permit application to ORP by September 30, 2017. The Contractor shall earn \$375,000 in fee upon completion.

Work scope/completion criteria: The initial LAWPS RCRA permit application will consist of information elements required by WAC 173-303-806. This includes various narrative sections describing the proposed LAWPS facility configuration and operations; a signed Part A form; and available facility design documentation such as engineering drawings, specifications and calculations. This initial application package is the first of three being planned for preparation and submittal to support issuance of the LAWPS RCRA permit. This initial LAWPS RCRA permit application package is expected to represent approximately 50% of the total information that will be provided to Ecology as part of the permitting process. The application will be certified by Contractor senior management consistent with the Contractor's role as co-operator of the proposed LAWPS facility.

Completion document: Letter transmitting the performance expectation completion notice and copy of the Contractor-issued and certified initial LAWPS RCRA permit application package.

PBI-34.0 CLIN 1 Comprehensive Vapor Action Plan

Performance Fee value is established at \$2,425,000 the FY 2017 fee pool.

Fee Structure: Straight-Line Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Straight-Line	\$150,000	September 30, 2017	Expense
2	Straight-Line	\$150,000	September 30, 2017	Expense
3	Straight-Line	\$250,000	September 30, 2017	Expense
4	Straight-Line	\$425,000	September 30, 2017	Expense
5	Straight-Line	\$900,000	September 30, 2017	Expense
6	Straight-Line	\$150,000	September 30, 2017	Expense
7	Straight-Line	\$100,000	September 30, 2017	Expense
8	Straight-Line	\$300,000	September 30, 2017	Expense
Total		\$2,425,000		

Desired Endpoint/Outcome:

Complete specified actions within the Comprehensive Vapor Action Plan to support resolution of the tank vapor concerns at the Hanford Site and activities directed by ORP via letter 17-TF-0015, "Contract No. DE-AC27-08RV14800 – Direction to Continue Comprehensive Vapor Actions," dated March 1, 2017.

Fee Bearing Milestones:

1. Design the inclusion of stack monitoring for AW, AN, and 702-AZ exhausters by September 30, 2017. The Contractor will also update TFC-ENG-STD-07, *Ventilation System Design Standard*, for future exhausters to include the installation of approved stack monitoring equipment. The design will include capability to retrofit system the new, enhanced Autosampler. The Contractor shall earn \$75,000 upon completion of the design and \$75,000 upon the completion of the revision to TFC-ENG-STD-07 for total incremental fee of \$150,000 upon completion.

Work scope/completion criteria: Complete 100% design documents for the installation of stack monitoring equipment on the AW, AN, and 702-AZ exhausters.

Completion document: Letter transmitting the performance expectation completion notice(s) and the 100% design documents for AW, AN, and 702-AZ and copy of the revised exhauster design basis document. If both milestones are completed within a month the completion documentation will be combined into one performance expectation completion notice.

2. Complete a Proton-Transfer-Reaction Mass Spectrometer (PTR-MS) targeted campaign by September 30, 2017. The Contractor shall earn \$150,000 upon completion.

Work scope/completion criteria: Conduct measurement campaigns utilizing the PTR-MS mobile laboratory and generate a test report that contains the following:

- Utilize the PTR-MS to complete strategically planned monitoring campaigns during two (2) waste disturbing activities.
- Establish background levels for nitrosamines and furans for the 200 Area plateau

Completion document: Letter transmitting the performance expectation completion notice and Contractor-issued project test report.

3. Complete the vessel vent stack extension field installation and Cerex vessel vent stack monitor software upgrade for 242-A and turnover to operations by September 30, 2017. The Contractor shall earn \$250,000 upon submittal.

Work scope/completion criteria: The exhaust stack extension at 242-A shall be constructed, Cerex software upgraded, both turned over to Operations, and initial operational procedures implemented.

Completion document: Letter transmitting the performance expectation completion notice; copy of Letter transmitting the performance expectation completion notice and copy of work order signature pages for the completed installation and initial function testing of the exhaust stack extension and Cerex software upgrade work scope approved through Operations acceptance.

4. Complete the public address system field installations and functional testing of the speaker systems via mobile test cases at A/AX/AY/AZ/AN/AW Farms and the Central Shift Office by September 30, 2017. The Contractor shall earn \$62,500 each for A, AX, AY, AZ, AN, AW Farm, and \$50,000 for the Central Shift office for total incremental fee of \$425,000 upon completion.

Work scope/completion criteria: Complete field installation of the public address speaker system upgrades at A/AX/AY/AZ/AN/AW Farms and the Central Shift Office and the Central Shift Office and functional testing via mobile test cases of the newly designed public address systems.

Completion document: Letter transmitting the performance expectation completion notice and copy of work order signature pages for the completed installation and initial function testing of public address systems work scope approved through Operations acceptance. If two (2) or more locations are completed within a month the completion documentation will be combined into one performance expectation completion notice.

5. Complete six (6) cartridge tests using the cartridge test jigs and submit for review by September 30, 2017. The Contractor shall earn \$150,000 for each test for total incremental fee of \$900,000 upon completion.

Work scope/completion criteria: The Contractor shall complete chemical cartridge testing field activities using the cartridge test jig for six (6) tests.

Completion document: Letter transmitting the performance expectation completion notice(s); chain of custody document(s) from the six (6) tests. If two (2) or more tests are completed within a month the completion documentation will be combined into one performance expectation completion notice.

6. Complete cartridge testing at one (1) source during waste disturbing activities, perform laboratory analysis, and provide national laboratory report on findings by September 30, 2017. The Contractor shall earn \$150,000 upon submittal.

Work scope/completion criteria: The Contractor shall complete the cartridge testing at one (1) source during waste disturbing activities; transmit the national laboratory cartridge testing during waste disturbing activities report on the findings; and quality assurance assessment for field sampling and lab analysis standard methodology and validation.

Completion document: Letter transmitting the performance expectation completion notice; the national laboratory cartridge testing during waste disturbing activities report on the findings; and quality assurance assessment for field sampling and lab analysis standard methodology and validation.

7. Provide the national laboratory report on a multi-tank analysis from eight (8) sources for air-purifying respirator (APR) cartridges by September 30, 2017. The Contractor shall earn \$100,000 upon submittal.

Work scope/completion criteria: The Contractor shall provide completed report for multi-tank analysis; and quality assurance assessment on data methodology standard and validation.

Completion document: Letter transmitting the performance expectation completion notice and the national laboratory cartridge testing report on findings; and quality assurance assessment on data methodology standard and validation.

8. Issue Quantitative Risk Analyses (QRA) for three (3) tank farms in support of the effort in defining unrestricted work boundaries. The Contractor shall earn \$100,000 per QRA for total available fee of \$300,000.

Work scope/completion criteria: The Contractor shall issue QRAs for three (3) east area tank farms.

Completion document: Letter transmitting the performance expectation completion notice(s) and copy of the QRAs for three (3) east area tank farms. If two (2) or QRAs are completed within a month the completion documentation will be combined into one performance expectation completion notice.

**SPECIAL EMPHASIS AREA
 OVERALL GRADES & ASSOCIATED PERCENTAGES OF EARNED FEE**

Award-Fee Adjectival Rating	Award-Fee Pool Available To Be Earned	Description
Excellent	91%-100%	Contractor has exceeded almost all of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Very Good	76%-90%	Contractor has exceeded many of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Good	51%-75%	Contractor has exceeded some of the significant award-fee criteria and has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Satisfactory	No Greater Than 50%	Contractor has met overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.
Unsatisfactory	0%	Contractor has failed to meet overall cost, schedule, and technical performance requirements of the contract in the aggregate as defined and measured against the criteria in the award-fee plan for the award-fee evaluation period.

Award Fee: The period of performance is October 1, 2016, through September 30, 2017. The total available fee is split between the PBIs and SEAs. At the conclusion of the 12-month evaluation period DOE will determine the award fee associated with the SEAs. ORP's evaluation of the contractor's performance in the SEAs will be combined to an overall rating. **Failure in any of the SEAs could result in a change to the overall rating as determined by the Fee Determination Official.**

To be minimally acceptable, all contractor formal products by contract, DOE Order, regulation, procedure, plan, or DOE written direction shall be complete, accurate, and on schedule. Requirements shall clearly flow down and be transparent within the product and ensure compliance with ES&H and QA requirements. Evidence of unsatisfactory performance on the part of the contractor is: (1) technical errors or omissions in contractor developed products, (2) performance not completed by close of business on the agreed upon date scheduled, and (3) non-compliance with designated Completion Criteria.

SEA 1: Management of Single-Shell Tank (SST) and Double-Shell Tank (DST) System

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome:

In the execution of the contract, Contractor is expected to provide holistic, comprehensive, and effective management as conscientious stewards of all Tank Farm facilities and activities through:

- Demonstrating safety leadership and risk-informed, conservative decision-making
- Anticipating project challenges and providing timely resolution
- Open communication with the workforce – fostering a questioning attitude and an environment free from retribution
- Aggressive self-discovery of project issues to ORP through critical self-analysis, meaningful performance monitoring, comprehensive extent of condition reviews, and effective risk identification and management
- Management focus on maintenance, compliance, surveillance and integrity of the Tank Farms facility.

Areas of focus include overall Contractor management of the Hanford Tank Farm facilities and systems including SST and DST infrastructure, DST Chemistry, SST and DST Integrity, and Support for WTP Commissioning.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

Overall Tank Farm Management

Demonstrate effective long-term stewardship of the entire Hanford Tank Farm project facilities and processes through:

1. Demonstrating safety leadership and risk-informed, conservative decision-making.
2. Anticipating project challenges and providing timely resolution.
3. Open communication with the workforce – fostering a questioning attitude and an environment free from retribution, building trust and promoting transparency, including communication of vapor-related work through a comprehensive, user-friendly public website.
4. Aggressive self-discovery of project issues to ORP through critical self-analysis, meaningful performance monitoring, comprehensive extent of condition reviews, and effective risk identification and management.

5. Ensure spares are on hand to reduce delays in mission operations due to procurement or construction.

SST and DST Infrastructure

General maintenance of all SST and DST Infrastructure, to include but not limited to:

1. Perform required design and upgrades to the DST system necessary to support the Direct Feed Low-Activity Waste Project.
2. Support upgrades to existing DST ventilation as necessary.
3. Prioritize and perform necessary infrastructure upgrades such as but not limited to: waste transfer system pit modifications, transfer pump and jumper replacements.

DST Chemistry and Integrity

The maintenance of DST and waste transfer system piping and associated containment system (waste transfer fitness for service) integrity is crucial to cost-effective completion of the tank waste cleanup mission. The Contractor shall:

1. Maintain tank chemistry per Operations Specifications Documents to ensure long term integrity of tanks
2. Obtain better understanding of the susceptibility of the primary and secondary liners to corrosion.
3. Support work done by Pacific Northwest National Laboratories in order to automate updating of the Monthly Tank Waste Summary Report.

Single-Shell Tank Integrity

Maintain the SST Integrity program.

1. Continue routine SST video inspections and dome reflection surveys in support of SST structural integrity and SST intrusion investigations.
2. Ensure prompt and thorough review of monitoring data.
3. Evaluate ways to minimize the resources required to verify and validate monitoring data as well as minimize the required time in field to obtain monitoring data.

SEA 2: Performance of Tank Farm Project Operations – Conduct of Operations

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome: Ensure focus is maintained on overall safety and efficiency of Tank Farm project operations through improvements in Conduct of Operations and Work Control.

Areas of focus include Work Control/Procedure Development process continuous improvement, the field implementation of work instructions, general Conduct of Operations improvement.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

1. DOE oversight indicates WRPS self-identification of event precursors and resolution of causal factor prior to significant issues or consequential (\geq SC-2) events;
2. Personnel are cognizant of and avoid at-risk behaviors and conditions. Senior Managers (Level 0, 1, 2) are proactive in identifying these behaviors and correcting conditions in the field through established WRPS processes (i.e., Problem Evaluation Requests, Management Observations Program/Worksite Visits, assessments, investigation process, etc.) that result in improved WRPS performance;
3. Responsiveness to and management of performance and assessment areas needing attention as identified by contractor self-assessments, ORP assessments, and external reviews as evidenced by a high ratio of WRPS self-identified issues that eliminate the need for ORP issues to be identified and minimal ORP rejection of corrective action plans;
4. Additional trending data such as Occurrence Reporting and Processing System Reports, Problem Evaluation Requests, and Performance Indicators are established and monitored for Conduct of Operations and Work Control that monitor the health and status of the programs to both normalize and evaluate the safety significance of trending data and Contractor management takes actions to mitigate performance deficiencies;
5. Tank Farm general area housekeeping and maintenance is improved. Examples may include overall radiological zone reduction, farm signage and equipment labeling, and demonstrated reduction of radioactive contaminated material and equipment;
6. The Conduct of Operations Council Focus demonstrate continuous improvement as evidenced by Contractor performance indicators, effective improvement initiatives, and/or Contractor/ORP oversight results. Examples may include items such as implementing continued work control enhancements, senior management field presence, Conduct of Operations/Mentors/Senior Technical Engineer ownership of Conduct of Operations initiatives and issues, additional Human Performance Improvement Labs, response to abnormal events or lessons learned, training program status and initiatives, or drill program improvement;

7. Production Operations Transfer and Single-Shell Retrieval and Closure Transfer processes, where applicable, demonstrate continuous improvement and consistency between the two line organizations for increased safety or more efficient transfer process.
8. Contractor conduct of operations principles are effectively applied in operational, maintenance, and upgrade activities incorporating practices that result in an effective hierarchy of controls being implemented to mitigate Tank Farm hazards which include chemical hazards.
9. Effectively control vegetation and biological vectors within TOC radiological posted areas, which have potential to spread contamination through root take-up and transport mechanisms and animal intrusion and subsequent transport;

Conduct of Engineering – Improvement in effectiveness, consistency of Engineering systems and programs.

1. Identify, evaluate and provide effective and timely solutions to emerging Tank Farms technical issues.
2. Provide efficient and sound Process Engineering support to on-going or new Tank Farms projects, including Sampling and Analysis Plans and Best and Tank Inventory Reports.
3. Maintain the Engineering Change Notice backlog > 3 years old below 30.
4. Monitor and continue to maintain design errors that result in engineering or field rework at acceptable levels.
5. Continue to monitor and improve ventilation system performance maintaining a 90 percent availability.
6. Delete (Mod 441).
7. Develop and issue up-to-date piping specifications to ensure appropriate application of ASME B31.3 Process Piping Guide for the TOC facilities.
8. Implementation of further enhancements to SmartPlant® Foundation document control and configuration management system to support effective implementation of the Contractor's processes.
9. Provide innovative engineering solutions that result in improved safety and/or radiological safety performance.
10. Where appropriate standardize Tank Farm tools and equipment.
11. Complete implementation of the improved Engineering qualification and training process and other changes addressed in the revision to TFC-ENG-PLN-03.

12. Continue to monitor and reduce issues related to Technical Rigor.

Conduct of Maintenance –

1. Establish a technical basis for what constitutes steady state level for corrective maintenance (CM) backlog and a 25% reduction in prioritized repairs. Maintain CM backlog less than the established range within priorities for CM of equipment critical to Documented Safety Analysis (DSA)/Technical Safety Requirement and environmental compliance
2. Establish deferred maintenance processes and achieve a 50% reduction in delinquent items to support the long term goal of zero delinquent preventive maintenances; Establish a technical basis for what constitutes steady state level for preventive maintenance backlog and maintain preventive maintenance backlog less than the established range within priorities for preventive maintenance of equipment critical to DSA/Technical Safety Requirement and environmental compliance;
3. Identification and implementation of at least two improved stewardship opportunities (i.e., Tool Crib equipment tracking), including metrics to demonstrate improvement;
4. Improve maintenance of equipment to prevent and resolve radiological leaks (e.g., ventilation ducting, ETF system leaks, etc.).

Work Processes –

1. Measure performance of work scheduling versus work execution effectiveness, evaluate the causes for cancelation of planned work, evaluate trends and respond to improve performance.
2. Evaluate work packages for appropriate level of planning, including use of “skill of the craft” and effective integration of controls into work instructions.
3. 900 (75/month) management oversight observations of work execution.

SEA 3: Cost and Management Performance

Performance Fee value is established at \$5,675,000 of FY 2017 fee pool.

Desired Outcome: Contractor's cost and schedule performance is in alignment with the negotiated estimated costs and milestone dates contained in the contract. Contractor maintains a fully integrated cost, schedule and risk/opportunity management program.

Areas of Focus: Includes Contractor's Cost/Schedule, Earned Value Management System (EVMS)/Reporting, and Risk/Opportunity Management Performance.

Evaluation Criteria: To measure performance based on ORP's evaluation of the following criteria:

Cost/Schedule Management – ORP will evaluate the Contractor's cost and schedule management based upon Contractor's actual incurred costs and performance compared to the contract costs estimated completion dates of that work under active CLINs and Sub-CLINs (identified in Table B.4-1 of the Contract) within the award fee evaluation period. The analysis of cost and schedule control performance will give consideration to changed programmatic requirements, changed statutory requirements, and/or changes beyond the Contractor's control. ORP will rely on objective and/or subjective cost and schedule performance elements to evaluate the Contractor's performance, which includes, but is not limited to the following:

Cost/Schedule Performance Indices – Evaluate and utilize cost and schedule performance indices in support of sound project management practices including implementation of cost and schedule recovery initiatives as appropriate. This should include fiscal year focus, alignment and tracking of recovery plans and TCPI trending justification.

Acumen Fuse 14 Point Schedule Check – Complete Acumen Fuse 14 point schedule check evaluation on TOC Baseline and current schedule and track/trend schedule health improvement. Perform additional schedule health checks as beneficial to assessing or improving EVMS health.

Effective Change Control Process and Baseline Management – Includes monthly evaluation of MR utilization and effective implementation of Authorized unpriced scope. Timely implementation of baseline changes in support of effective execution plan management.

Portfolio Management – Establish a disciplined Portfolio Management process in support of EM Operations Activities Protocol policy including development of a fiscal year work plan with above/below the line scope that maintains alignment of budget and funds and ensures EACs are reconciled with funding targets while planning for an appropriate amount of carryover to cover outstanding year-end commitments. Supports reinvestment of identified cost savings to perform additional work scope or addresses emergent directed work scope as applicable. Provide the Monthly Funds Analysis Report to communicate contract funding needs for duration of the contract.

Estimate Bench-Marking – Develop benchmarking information for 3 significant recurring activities. The benchmarking information will include a reasonable number of data points for each recurring activity. It will also include a narrative describing the scope of the activity and the specific characteristics of each data point to allow the data points to be normalized. Examples of significant recurring activities are SST retrieval total costs, SST retrieval design costs, SST retrieval PM costs, SST waste transfer pump replacement costs, trailer installation costs, etc. Also, use established estimate benchmarks as an input in project estimating activities as applicable (for instance, in the development of proposal estimates, fiscal year work plans, or other related products).

Improved Control Account Manager (CAM) Training – Maintain CAM qualification program in support of improved training, with greater than 85% of all current CAMs maintaining the CAM Qualification Card.

Development of Senior Management EVMS Training - Develop training approach and material for WRPS Senior Management (typically Work Area Managers responsible for CAMs), aligned to the requirements and expectations of the Project Controls System Description and the latest Earned Value Management System Interpretation Handbook (EVMSIH) (Version 2.0).

EVMS/Reporting – ORP will evaluate the Contractor’s effective use of EVMS in managing their projects to ensure that sound management actions are taken when negative variances and/or cost overruns are projected. Development and submittal of the TOC Monthly Report shall meet contract requirements, be submitted on time, and of high quality. ORP will rely on objective and/or subjective cost and schedule performance elements to evaluate the Contractor’s performance, which includes, but is not limited to the following:

Perform EVMS compliance and self-governance oversight in the following areas:

- Realignment of the WRPS surveillance approach and procedure to align with DOE PM-30 requirements of the EVMSIH 2.0 and the automated testing protocol.
- Enhance EVMS surveillance to include protocol for continued compliance and improvement of “Qualified” CAMs through comprehensive CAM interview protocol, tracking and trending.
- Revision to the Project Control System Description in alignment with the EVMSIH Version 2.0, QE LOIs. Align new system description with clarifying expectation of Operations Protocol versus Capital Asset (i.e., EM guidance, versus DOE Order 413.3B).

A key indicator of excellence in EVMS practices will be achieved through ensuring that WRPS and the ORP are on the leading edge of EVMS compliance through the support and implementation of DOE initiatives such as:

- QE LOI Automated testing protocol implementation.
- Support to Pilot initiatives with DOE PM-30 and EFCOG regarding the EVMSIH 3.0 incremental release.
- Provide whitepapers and position papers to support further clarification and compliance expectations where needed for the TOC.

- Support to DOE PM-30 in process development and enhancement of EVMS related initiatives, as well as HQ procedural updates, SOPs and Guide development.

TOC Monthly Report – 1) Prepare and submit TOC Monthly Report on time and with high quality. 2) Develop protocol and successfully implement unique reporting for LAWPS using the IPMR requirements.

Corrective Action Tracking/Closeout – Demonstrate proactive identification of variance conditions requiring corrective action and effective management of corrective actions to closure.

Reporting Tools/Systems – Demonstrate effective implementation of the Contractor Integrated EVM System. Develop and enhance project management tools and reports in support of performance monitoring, predictive analysis, and identification of recovery plan actions.

Program Log Reconciliation – Maintain monthly logs for Contract Budget Base and Total Allocated Budget, to include all transactions affecting Management Reserve, Undistributed Budget, and Authorized Unpriced Work tracking and aging. Develop and include a separate Log for LAWPS, to support unique monthly reporting, aging of undistributed budget and staging for contract disposition, as well as authorized unpriced work aging and tracking for definitization.

Risk/Opportunity Management – DOE will evaluate the Contractor's Risk and Opportunity Management performance within the award fee period based upon the Contractor's ability to identify the risks associated with the execution of their work and assess their potential impact. ORP will rely on objective and/or subjective risk/opportunity performance elements to evaluate the Contractor's performance, which includes but is not limited to the following:

Active risk registers developed for all line item projects, and category 1 and 2 projectized operational activities as defined in TFC-PLN-84.

Application of disciplined processes to:

- Forecast the expected impacts of future risks and opportunities consistent with project schedules and to-go work.
- Assess the sum of the budget utilized to respond to or handle risks.
- The frequency of contractor risk register updates (i.e., the number of registers beyond the 90 day update cycle required by the Contractor risk management procedure).
- The quality of regular monthly reporting of risks and opportunities.
- Execution of the contractor risk management process, such as how risk workshops are conducted, how risks, opportunities, and handling actions are identified, and the methods used and level of effort expended to quantify and document the characterization of risks and opportunities.
- Complete a detailed analysis of schedule risk associated with the LAWPS line item project (for example, a Monte Carlo or Schedule Risk Assessment).

SEA 4: Quality Assurance Program

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome: Continued improvement of the contractor's QA program.

Areas of Focus for Quality Assurance Program Improvement:

Effectiveness of the contractor's QA program in providing products and services that are satisfactory for their intended function. Effectiveness will be measured by the ability of the products and services to be used as originally produced or provided, versus the need for rework to reach an acceptable status. Self-identification of quality-related problems, as well as prompt, effective corrective actions, is required rather than having those problems identified by ORP or by external organizations.

Evaluation Criteria for measuring the contractor's QA program performance will include ORP's subjective evaluation of the contractor's progress based on the following:

Adequate flow-down and effective application of TOC QA program management criteria (TFC-PLN-02, Quality Assurance Program Description);

Improved efficiency and timely reporting in the performance of the independent QA audit process, including adequate auditor and auditee resources to support scheduled QA audits;

Improved management of QA program requirements including the ability to demonstrate compliance with contractually imposed standards in applicable program plans and implementing procedure provisions (steps);

Effective planning and performance of QA Surveillance consistent with the Contractor's graded-approach;

Effective performance of the procurement quality funding, including Vendor Oversight, consistent with the Contractor's graded-approach; and

Improved Software Quality Assurance implementation and supporting documentation.

SEA 5: Nuclear Safety

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome: Improvements in the Management of the Tank Farms safety basis, and required amendments.

Areas of Focus include Contract requirements and responsiveness to emerging issues, high visibility items, and any areas needing attention as identified by contractor self-assessments, ORP assessments, and external reviews.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

Completion of Planned Improvements identified in the 242-A Evaporator and Tank Farms DSA;

Timely declaration and management of Potential Inadequacies in the Safety Basis;

Unreviewed Safety Question process compliance with 10 CFR 830.203 and DOE Guide 424.1-1, Implementation Guide for Use in Addressing Un-reviewed Safety Question Requirements;

Responsiveness to and management of performance and assessment areas needing attention as identified by contractor self-assessments, ORP assessments, and external reviews; and

Proactive development of DSA amendments and Justifications for Continued Operations to identify and resolve implementation challenges prior to transmittal to ORP for approval.

SEA 6: Environmental Regulatory Management

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome: Demonstrated improvement in environmental stewardship

Areas of Focus for environmental stewardship and compliance:

Environmental Management System and performance metrics;

Permitting documents and compliance to permits and licenses and environmental reporting;

Number and seriousness of any findings of noncompliance, infractions or violations, and timeframes and quality of related reporting and responses.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

Quality and implementation of the documented environmental protection program and the contractor's establishment and implementation of environmental performance metrics;

Data and regulatory approaches are prepared in a timely manner and integration with Hanford Site regulatory compliance to support annual reports and compliance activities;

Quality, timeliness, completeness, and technical accuracy of environmental reports, and permitting and licensing documents. Permit and license documents are of high quality, have been integrated into project schedules which reflect adequate and appropriate timeframes for DOE and regulatory review. Permit and license documents are technically accurate, with minimal revisions needed and fast track approval of submittals is not needed. This includes:

Number and seriousness of any noncompliances, infractions, or violations and the timeliness and quality of related reporting and responses;

Implementation of waste minimization and pollution prevention practices;

Coordination of environmental activities across Contractor (e.g., areas such as permitting actions amongst One System, Contractor Environmental, and Retrieval and Closure, and direct contracting with other site contractors to ensure proper implementation of requirements) and effective use of resources;

SEA 7: Safety Program Implementation

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome: Ensure focus is maintained on overall safety and efficiency of the Tank Farm Project through improvements in radiological controls, industrial health and safety, and emergency preparedness.

Areas of Focus include radiological control, industrial health and safety, emergency preparedness.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

Radiological Controls:

1. Evaluate and implement appropriate configurations of radiological control points to allow for efficient control point operations.
2. Improvement of radiological conduct of operations, procedure compliance demonstrated by documented oversight. Emphasis in the area of release surveys and boundary control.
3. Emphasize the as low as reasonably achievable (ALARA) concept to drive occupational dose to the lowest reasonably achievable level.
 - Improvement in documentation of ALARA lessons from TOC work activities, and incorporation of those lessons into new TOC work activities.
 - Continued development of innovative tools and processes to reduce dose.
 - Improvement in tracking of extremity dose through the year to better predict and drive lower the dose taken.

Reduction in the overall radiological risk through appropriate management/reduction of radiological areas with high dose rates and levels of contamination.

Industrial Health and Safety:

1. Assessment of compliance to Industrial Safety (IS) programs and procedures will occur as scheduled. Focus on vehicle safety, impacts of increased SCBA use, and electrical safety practices.
2. Plan and implement the review of Industrial Hygiene Program procedures and initiate continuous improvement cycle (to maintain mature and Industry Leading program). 1. Plan and implement Program Procedure Review process. 2. Document findings / observations using ATS (MOPs) system or Safety and Health Field Surveillance System. IH Programs preferred focus areas shall include, but not limited to: Cold Stress, Hazard Communication, Ergonomics, Respiratory Protection, EJTA, Industrial Hygiene Reporting and Records Management, Lead, Hearing Conservation, Heat Stress, and Asbestos.

3. Plan and implement the review of Industrial Hygiene Program Field Operations and initiate continuous improvement cycle (*to maintain mature and Industry Leading program*).
 1. Program Field review (oversight) by IH or SME shall address one of the following: observe training, or observe field implementation, or observe field compliance.
 - 2 Document findings / observations using ATS (MOPs) or Safety and Health Field Surveillance system. IH Field preferred focus areas shall include, but not limited to: Cold Stress, Hazard Communication, Field Ergonomics, Respiratory Protection, CHAT, VCZ-VRZ Postings, Posting and Labeling, Beryllium, Lead, Hearing Conservation/Noise, Heat Stress, and Asbestos.
4. Complete Assessment and Characterization of remaining Conex Boxes and Structures for contract Mod 203 in accordance with the Hanford Site-Wide CDBPP (DOE-0342) and its referenced sub-tier beryllium procedures. Sampling to be completed in FY17 are as follows: Contract Mod 203: 87 buildings and modular offices. 50 verification samples will be completed. 1 Beryllium Controlled Facility downgrade. Complete Beryllium Program Field Implementation effort in accordance with DOE-0342 to include posting and labeling strategy, Technical Evaluation (Technical Basis to Correlate Beryllium Concentration to Radioactivity in Hanford), and periodic sampling.
5. Industrial health and safety related communications will be distributed the WRPS workforce. For Industrial Health provide quarterly comprehensive updates to topics of high visibility and/or concern for employees and general public, e.g., SCBA/Breathing Air odors, Regulator Cleaning Process, Tank Farm/Site Wide vapor and odor concerns, Stack emissions, and cross contamination of respiratory protection equipment. Continue seasonal appropriate communication/briefing/training/knowledge, e.g., Heat Stress.
6. WRPS will continue industrial health and safety related outreach and benchmarking activities, at least one per quarter.
7. Hanford Site Programs support and effective implementation of revisions to these processes to drive continuous improvement.
8. Promote an effective safety conscious work environment and culture through implementation of programs and dissemination of expectations in order to establish a work environment in which employees feel free to raise safety concerns to management and/or a regulator without fear of retaliation.
9. Clear roles and responsibilities are defined and established for the comprehensive vapor management program (CVAP). Integration of CVAP elements is demonstrated between WRPS organizations.

Emergency Preparedness:

1. Conduct a minimum of one evaluated field drill a quarter that minimizes simulations and control cell actors in order to maximize field responses by Facility Emergency Response Organization (FERO) and skilled support personnel (i.e., health physics technician, industrial hygiene technician, NCO). Two of these drills shall integrate Hanford Fire Department and/or Hanford Patrol such that FERO members interact directly with their counterparts (e.g., FOS and On-scene Coordinator) in the field.
2. Conduct two (2) no-notice Incident Command Post limited drills in FY 2017 requiring FERO activation. One of these drills shall be conducted on a weekend or off-shift.
3. Conduct Event Scene Set-up and Hanford Fire Department doffing for all four Production Operations Shifts.
4. Conduct a drill involving a severe event that results in hazards from adjacent facility (i.e., PUREX or Contractor multiple event scenes) that causes loss of an infrastructure capability (power, radio, phone, HLAN network, cell phone, water).

SEA 8: Support for DFLAW and WTP Commissioning

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome:

Development of improved Management systems and technical support for WTP commissioning. Areas of focus include overall Contractor management of the Hanford Tank Farm facilities and systems including for WTP commissioning.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

DFLAW Integration – Coordinate, trace, measure and report on a prioritized set of activities and timing in a DFLAW Integrated Schedule to fully integrate Tank Farms, WTP and other Hanford Site Contractors to meet the contractual dates for startup and commissioning of DFLAW.

Transition - Recommend to ORP actions needed to more effectively and efficiently conduct the transition to DFLAW startup, commissioning, and operation.

Flowsheet Management - Continuously improve a long-term RPP integrated flow sheet stewardship and technical management process that involves the national laboratories. Flowsheet management also includes waste feed qualification and delivery.

System Planning - Provide for the integration of TOC and WTP system planning and modeling, with a focus on long-term RPP mission planning, TPA milestone support, software modeling and development.

Contract Management - Identify those DOE directives and contract changes needed to align and/or maintain aligned the TOC Contractor and Bechtel National, Inc. contracts, and establish an optimum or necessary time to have each item aligned.

Chief Technology Office - Establish an integrated national laboratory support program for TOC Contractor including procurement, communication, reporting protocols, and a mission directed research and development program. Develop an integrated TOC Contractor technology development roadmap including integration with TOC Contractor mission planning documents (System Plan, Risk Management Plan, etc.) and DOE-HQ technology development program.

Project Management - Management of the Project Management Program is effective and supports the LAWPS Project.

DFLAW Execution Process - TOC Contractor direct field execution of projects and activities supporting DFLAW startup.

SEA 9: Contractor Assurance System (CAS)

Performance Fee value is established at \$835,000 of FY 2017 fee pool.

Desired Outcome: Ensure focus is maintained on an effective CAS in accordance with DOE Order 226.1B. Effective implementation of the approved CAS will provide assurance that workers, the public, and the environment are adequately protected. Requirements delineated in the contract and/or DOE approved plans are effectively implemented in a manner to ensure work performance meets the applicable requirements for environment, safety, and health, including quality assurance and integrated safety management; safeguards and security; cyber security; and emergency management.

Evaluation Criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

1. Self-discovery of project issues through critical self-analysis, meaningful performance monitoring, comprehensive extent of condition reviews, and effective risk identification and management.
2. An issues management process that supports categorization, tracking, trending, and analysis of performance data. Corrective actions are clear, appropriate, and effective.
3. Independent evaluation of the CAS by entities such as corporate parent companies.
4. Open and continuous communication on issues identified with the CAS and/or programs that make up parts of the CAS.
5. Assessment and investigation processes proactively identify noncompliances and opportunities for improvement that result in improved performance.
6. Flow down of CAS implementation requirements to work performed by subcontractors.
7. Metrics are effectively used to provide an accurate picture of current performance against goals.
8. Lessons learned experiences and good practices are incorporated into the overall work process and used to inform the organizations of adverse work practices or experiences.
9. Programs are established to promote quality awareness and ownership at the worker level.

SEA 10: Integration and Implementation of Comprehensive Vapor Actions

Performance Fee value is established at \$1,000,000 of FY 2017 fee pool.

Desired Outcome: Maintain a WRPS company-wide Industrial Hygiene Program that identifies and abates industrial and occupational health hazards efficiently, including, but not limited to chemical exposures, tank farm vapors, beryllium, asbestos, lead, occupational noise, etc. Completed actions will support resolution of the tank vapor concerns at the Hanford Site and activities directed by ORP via letter 17-TF-0015, "Contract No. DE-AC27-08RV14800 – Direction to Continue Comprehensive Vapor Actions," dated March 1, 2017.

Areas of Focus include integration of WRPS Industrial Hygiene policies, programs, procedures, and communications with vapor program requirements, and products and definition of unrestricted work boundaries for defense in depth. Industrial Hygiene policies, programs, procedures, and communications are effectively implemented in the field.

Evaluation criteria to measure performance will include ORP's subjective evaluation of the contractor's performance based on the following:

Improvement and Institutionalization of Industrial Hygiene Program Requirements:

Develop the Industrial Hygiene Program Manual to integrate all WRPS Industrial Hygiene Program areas. The manual would consolidate and institutionalize program requirements, policies, procedures, best practices, program parity, communications, and training across Industrial Hygiene Program areas (Comprehensive Vapor Action Plan Key Performance Parameter 3). The completed Industrial Hygiene Program Manual at the end of 2017 would include new or revised processes and procedures, related to effective implementation of a strengthened vapors management program beginning fiscal year 2018, and would demonstrate how the chemical vapors technical basis compliments and/or is integrated with the Industrial Hygiene Program Manual. Support field implementation of vapor management program requirements.

Vapors Communications and Engagement Effectiveness:

Establish a comprehensive vapor management communication plan, engagement processes, and effectiveness measurements (Comprehensive Vapor Action Plan Key Performance Parameter 1). The vision of the plan is to drive consistent and routine communications on vapors to workers and the public, increase management presence in the field, and integrate the vapors management communication plan into the overall WRPS site-wide communication plan.

Revise RPP-22491, Industrial Hygiene Chemical Vapors Technical Basis:

Update the Industrial Hygiene Chemical Vapor Technical Basis and chemicals of potential concern (Comprehensive Vapor Action Plan Key Performance Parameter 2). Institutionalize a disciplined and rigorous process for updates. Integrate the technical basis into the Industrial Hygiene Program.

Unrestricted Work Boundaries for Defense in Depth:

Define, determine, and document unrestricted work boundaries (Comprehensive Vapor Action Plan Key Performance Parameter 5) utilizing an ESH&Q, Operations, and Engineering led team for worker safety and health requirements and operational planning and institutionalization, including, but not limited to:

1. Documented defensible basis and processes,
2. Chemicals to be monitored and basis for why these are supportive of identifying an upset condition,
3. Engineered controls in place (or soon to be in place),
4. Evaluation of design parameters for monitoring and detection,
5. Characterization criteria and data quality (including evaluation and description of applicable field and laboratory data quality standards and sampling methodologies),
6. Criteria and/or process for reevaluating whether boundary has changed (e.g., tank transfers among or within farms),
7. Modeling aspects and configurations,
8. Operational aspects including alarm response and steps to restore the facility to operation, and
9. Description of any changes needed for operational and programmatic ownership and institutionalization of unrestricted work boundary processes (describe strategy, logic, and timeline if a phased approach).

ATTACHMENT 2 - PERFORMANCE MONITOR EVALUATION REPORT FORM

I. EVALUATION PERIOD: _____

II. DOE PERFORMANCE MONITOR:

Signature: _____ Date: _____

III. PERFORMANCE BASED INCENTIVES (PBI) EVALUATIONS:

PBI # _____ Recommended Fee Earned _____

Discussion:

IV. EVALUATION OF AWARD FEE SPECIAL EMPHASIS AREAS:

SEA # _____ Adjective Rating _____

Discussion:

Discussion summaries should describe the method used to evaluate timeliness, quality and completion of performance objectives/measures; clarifying remarks regarding the timeliness and sufficiency of the products/activities against defined performance objectives/measures; identification of significant deviations; rationale for recommended fee payment/rating (if necessary, provide computations); and mitigating factors, if any, that were considered in determining the amount of fee.

Areas to consider:

1. Contractor monthly performance indicator results including positive or negative trends.
2. Management reviews and reports including the new monthly reviews.
3. Contractor's self-assessment report.
4. DOE independent and program assessments.
5. Issues and corrective action of issue

**ATTACHMENT 3 - FDO AND PERFORMANCE EVALUATION BOARD
MEMBERS**

FEE DETERMINATION OFFICIAL

Manager, ORP

PERFORMANCE EVALUATION BOARD MEMBERSHIP

Assistant Manager, Tank Farms Project, ORP (Chair Person)

Deputy Assistant Manager, Tank Farms Project, ORP

Assistant Manager, Technical and Regulatory Support Services, ORP

Manager, WTP Start-up and Commissioning Integration, ORP

Contracting Officer, Contracts and Property Management, ORP

**ATTACHMENT 4 - PERFORMANCE EVALUATION AND MEASUREMENT PLAN
CHANGE REQUEST**

1. Initiator of Change Request:		2. Office Symbol:	3. Phone No:
4. Current Version of PEMP:	a. Revision No:	b. Change No:	5. Date of Request:
6. Reason for Request:			
7. Authority for Change:		e. Explain reason for change here, if necessary: (required for Other)	
a. Technical Direction Letter <input type="checkbox"/> b. Contracting Officer Letter <input type="checkbox"/> c. Baseline Change Proposal <input type="checkbox"/> d. Other <input type="checkbox"/>			
8. Section No. in PEMP of Change:			
9. Exact Wording: (rewrite the section with changes identified)			
10. Request Disposition:		11. Comments: (including changes made, rejection reason, or other)	
a. Accepted, Change Implemented <input type="checkbox"/> b. Accepted with Changes <input type="checkbox"/> c. Rejected <input type="checkbox"/> d. Other <input type="checkbox"/>			
12. Approved By:	13. Effective Date:	14. New PEMP Rev No/Change No.:	
		a. Rev No:	b. Change No.:

ATTACHMENT 5 - INTERIM RATING CHART – OBJECTIVE AND SUBJECTIVE ITEMS

ORP will use this separate color-coded table for informal monthly performance evaluations. The final evaluation will reflect the adjectival rating scale in Attachment 1.

		OBJECTIVE ITEMS	SUBJECTIVE ITEMS
Dark Blue "Excellent" Performance		<ul style="list-style-type: none"> - Objective measures are achieved on or ahead of time - Very high probability of achieving the outcome - Meeting all Cost, Scope, and Schedule objectives - Very high degree of transparency 	<ul style="list-style-type: none"> - 100% of key areas meeting requirements - 100% of key deliverables will be met on time - 90% of sub or supporting areas are performing very well - No safety, security, or quality issues of note - Very high degree of self-identification and reporting deficiencies - Very high degree of transparency - Strong ISMS practices, timely reporting, critiqued/EOC whenever needed
Light Blue "Very Good" Performance		<ul style="list-style-type: none"> - Objective measures expected to be achieved on time - Very good probability of achieving the outcome - Expect to meet Cost, Scope, and Schedule objectives - High degree of transparency 	<ul style="list-style-type: none"> - 100% of key areas meeting or close to meeting requirements - 100% of key deliverables are meeting or expected to meet requirements - Majority of sub or supporting areas are performing very well - At most minor safety, security, or quality issues of note - High degree of self-identification and reporting deficiencies - High degree of transparency - Strong ISMS practices, timely reporting, critiqued/EOC whenever needed
Green "Good" Performance		<ul style="list-style-type: none"> - Objective measures reasonably expected to be achieved on time - Reasonable probability of achieving the outcome - Expect to meet or be very close to Cost, Scope, and Schedule - Good degree of transparency 	<ul style="list-style-type: none"> - Almost all key areas meeting or close to meeting requirements - Majority of key deliverables are satisfactory or better - Majority of sub or supporting areas are performing satisfactorily - Mostly minor safety, security, or quality issues of note - Good degree of self-identification and reporting deficiencies - Good degree of transparency - Infrequent deviation in ISMS practices, timely reporting, critiqued/EOC reviews

<p>Yellow "Underperforming" "Needs improvement" "Elevated risk"</p>		<ul style="list-style-type: none"> - Elevated risk of objectives not being achieved on time - Reasonable probability of not achieving the outcome - Expect to not meet Cost, Scope, or Schedule - Partial degree of transparency 	<ul style="list-style-type: none"> - Majority key areas meeting or close to meeting requirements - Notable percentage of key deliverables are satisfactory or better - Notable percentage of sub or supporting areas are performing satisfactorily - Occasional mid-level safety, security, or quality issues of note - ~75% of issues are self-identified with most reporting in a timely manner - Partial degree of transparency - Clear deviations of ISMS practices, reporting, critiques, Extent of Condition reviews, safety basis/CONOPS/Engineering deviations that are generally infrequent or have minor consequences - Nominal NOV, PAAA, Fine, Injury, security infraction(s)
<p>Red "Does not meet rqmts" "Failing or will fail"</p>		<ul style="list-style-type: none"> - A clear (or high) risk of objectives not being achieved on time - High probability of not achieving the outcome - Expect to not meet or significantly miss Cost, Scope, or Schedule - Inadequate degree of transparency 	<ul style="list-style-type: none"> - Overall most key areas meeting or close to meeting requirements - Inadequate percentage of key deliverables are satisfactory or better - Inadequate percentage of sub or supporting areas are performing satisfactorily - Too high a frequency of mid-level safety, security, or quality issues of note - Major safety, security, or quality issue - Less than ~75% of issues are self-identified and reported in a timely manner - Inadequate degree of transparency - Significant deviations of ISMS practices, reporting, critiques, Extent of Condition reviews, multiple safety basis/CONOPS/Engineering deviations or a significant deviation with nuclear safety or operational implications - Significant NOV, PAAA, Fine, Injury, security deviation(s)
<p>Grey "Insufficient data" "Not able to assess"</p>		<ul style="list-style-type: none"> - Insufficient data to assess at this time 	<ul style="list-style-type: none"> - Insufficient data to assess at this time - Parties misaligned on the objective

Attachment 2

DE-AC27-08RV14800, MODIFICATION 441

Fiscal Year 2017 Performance Evaluation Measurement Plan

Replacement Pages

(Total: Four (4) including this Cover Page)

- **List of FY2017 PEMP Changes**

FY 2017 PEMP Changes

Page #	PBI #	PBI Title	Reason
1	Fee Concept		Add statement PBI will be documented to differentiate if it is expense or capital funded
1	Fee Concept		Add statement SEA performance objectives will not be differentiated by funding source
Throughout	Fee Structure Tables		Added fund type to fee structure tables
Throughout	Completion Documents		Where multi milestones exist added statement (this will decrease number of PECNs submitted in one month): If two (2) or more are completed within a month the completion documentation will be combined into one performance expectation completion notice.
2 and 3	Fee Structure Tables		Modified fee values. Fee values within PBI changed but overall fee split between PBI and award fee remained the same.
4	PBI-25.0.1	Complete removal of eighteen (18) interim stabilization HIHTLs ...	Modified fee values
5	PBI-25.0.2	Complete construction and installation of a third technology retrieval system for Tank 241-C-105	Modified fee values
5	PBI-25.0.3	Complete retrieval of 241-C-105 to the limits of three technologies...	Deleted milestone
5	PBI-25.0.4	In partial completion of Tri-Party Agreement (TPA) Milestone M-45-86, provide retrieval data report for Tank 241-C-111	Deleted duplicated bullet: Leak Detection monitoring and performance results.
7	PBI-26.0.1.2	Complete equipment procurement of Extended Reach Sluicing Systems (ERSS) for Tank AX-103. Three sluicers will be procured for each tank	Deleted due to CR
8	PBI-26.0.4	Procure A-Farm ventilation system	Modified completion criteria and changed green tags to QA acceptance in completion document.
8	PBI-26.0.5	Complete down selection for A-104 and A-105 Tank retrieval technologies	Deleted due to CR
9	PBI-26.0.6	Complete A Farm Equipment Removal Design	Deleted due to CR
9	PBI-26.0.7	Complete fifteen long-length equipment (LLE) removal actions at AX-102 and AX-104	Delete 9 LLEs due to CR
10	PBI-26.0.10	Complete fabrication of the A/AX Water Service Skid (POR-466)	Completion document: changed green tags to QA acceptance
10	PBI-26.0.11	Complete AZ Drop Leg, AX Splitter Box, and AZ to AX Splitter Box HIHTL field installation	Deleted due to CR
10	PBI-26.0.12.1	Complete AZ Drop Leg installation	Proposed New
10	PBI-26.0.12.2	Complete AX Splitter Box installation	Proposed New
11	PBI-26.0.13.1	Complete A Farm Ventilation Equipment procurements: 1) Demisters	Proposed New
11	PBI-26.0.13.2	Complete A Farm Ventilation Equipment procurements: 2) duct isolation/butterfly valves	Proposed New
11	PBI-26.0.13.3	Complete A Farm Ventilation Equipment procurements: 3) inlet assemblies/vacuum controllers	Proposed New
13	PBI-27.0.2	Modified eight grab samples to six grab samples	Deleted 2 grab samples
13	PBI-27.0.3.1	Complete rotary mode readiness for core sample platform operations	Deleted due to CR
13	PBI-27.0.3.2	Complete one (1) core sample in support of the TOC mission	Deleted due to CR
13	PBI-27.0.4	Perform eight (8) DST enhanced annulus visual inspections in specified tank farms	Modified how reports are to be issued - per tank farm instead of per inspection
14	PBI-27.0.7	Perform ultrasonic testing examination of the secondary liner floors of three double-shell tanks	Proposed New
16	PBI-28.0.1.2	Complete 222-S Laboratory Facility Upgrade 2) complete site preparation and slab foundation for new Non-Rad Laboratory	Deleted due to CR
17	PBI-28.0.4.1	Complete one DST farm upgrade 1) installation of wireless freeze protection monitoring for waste transfers in nine pits	Deleted due to CR
17	PBI-28.0.4.3	Complete one DST farm upgrade 3) 242-A instrument air dryer upgrade	Deleted due to CR
17	PBI-28.0.4.4	Complete one DST farm upgrade 4) replace failed wiring to AW-3 and AW-4 transfer pumps	Deleted due to CR
17	PBI-28.0.4.2	Complete one DST farm upgrade 2) Two AW-106 pump replacements	Proposed revision
17	PBI-28.0.4.5	Complete one DST farm upgrade AP-106 pump replacement	Proposed New

Page #	PBI #	PBI Title	Reason
17	PBI-28.0.4.6	Complete one DST farm upgrade process condensate radiation monitors (RC-1/2/3)	Proposed New
18	PBI-28.0.8	Upgrade facility stairs by removal, repair, and/or replacement in and around the tank farms	Proposed New
19	PBI-28.0.9	Complete design for the installation of the 241-SY Exhauster	Proposed New
19	PBI-28.0.10.1	Complete installation of permanent shore power to safety showers POR251-EMER-001 at the AP Tank Farm and POR254-EMER-004 at the A/AX Tank Farm	Proposed New
19	PBI-28.0.10.2	purchase three (3) additional safety showers	Proposed New
19	PBI-28.0.11	Complete fabrication and receipt of three (3) new vertical turbine waste transfer pumps	Proposed New
21	PBI-29.0.3	Complete waste form development and performance testing for EMF bottoms disposition either onsite/offsite	Moved to PBI-32.0.7
21	PBI-29.0.5	Complete necessary studies in support of the DFLAW waste feed delivery qualification program	Moved from PBI-32.0.6
23	PBI-29.0.6	Complete the joint TOC/WTP/PRC evaluation and Issue the One System LAW Melter Replacement Logistics Report	Proposed New
23	PBI-29.0.7	Submit the RPP Integrated Flowsheet, Revision 2	Proposed New
23	PBI-29.0.8	Demonstrate a prototype of the manual waste transfer functionality in the near-term operations (NTO) tool	Proposed New
23	PBI-29.0.9	Complete development of an uncertainty analysis tool and perform an uncertainty analysis of the System Plan 8 base case	Proposed New
23	PBI-29.0.10	Submit volumes 1, 2, and 3 of the Integrated Waste Feed Delivery Plan, Revision 4	Proposed New
24	PBI-30.0.2	Complete HD Camera Installation in AY-102 Riser and perform video examination	Proposed New
26	PBI-31.0.1	Complete the final WMA C PA documentation in accordance with HFFACO appendix I and DOE O 435.1	Deleted
27	PBI-31.0.2	Complete draft Integrated Disposal Facility Performance Assessment (IDF PA), and provide the draft to ORP and the LFRG...	Editorial change
27	PBI-31.0.3.4	Provide a final version of a Tier 2 Closure Plan for WMA C that meets requirements of TPA Appendix I and RCRA	Proposed New
27	PBI-31.0.3.5	Provide a final version of a Tier 3 Closure Plan for the C-200 Tanks in WMA C that meets the requirements of TPA	Proposed New
28	PBI-31.0.4	Develop draft conceptual and numerical model...	Clarified as draft
28	PBI-31.0.5	Complete draft of WMA A/AX DQO report for ORP review	Proposed New
28	PBI-31.0.6.1	Complete the draft WMA C Performance Assessment Maintenance Plan for ORP review prior to finalization and submittal	Proposed New
28	PBI-31.0.6.2	Complete the draft WMA C Performance Assessment Monitoring Plan for ORP's review prior to finalization and submittal	Proposed New
28	PBI-31.0.6.3	Complete draft Integrated Disposal Facility Per	Proposed New
21 and 31	PBI-32.0.6	Complete necessary studies in support of the DFLAW waste feed delivery qualification program	Moved to PBI-29.0.5
21 and 31	PBI-32.0.7	Complete waste form development and performance testing for EMF bottoms disposition either onsite/offsite	Was PBI-29.0.3
31	PBI-32.0.8	Modify and issue revision to the RPP Technology Roadmap	Proposed New
33	PBI-33.0.4	Submit an initial LAWPS RCRA permit application to ORP	Proposed Revision
35	PBI-34.0.1	Design the inclusion of stack monitoring for AW, AN, and 702-AZ exhausters	Proposed New
35	PBI-34.0.2	Complete a Proton-Transfer-Reaction Mass Spectrometer (PTR-MS) targeted campaign	Proposed New

Page #	PBI #	PBI Title	Reason
36	PBI-34.0.3	Complete the vessel vent stack extension field installation and Cerex vessel vent stack monitor software upgrade for 242-A and turnover to operations	Proposed New
36	PBI-34.0.4	Complete the public address system field installations and functional testing of the speaker systems via mobile test cases at A/AX/AY/AZ/AN/AW Farms and the Central Shift Office	Proposed New
36	PBI-34.0.5	Complete six (6) cartridge tests using the cartridge test jigs and submit for review	Proposed New
37	PBI-34.0.6	Complete cartridge testing at one (1) source during waste disturbing activities, perform laboratory analysis, and provide national laboratory report on findings	Proposed New
37	PBI-34.0.7	Provide the national laboratory report on a multi-tank analysis from eight (8) sources for APR cartridges	Proposed New
37	PBI-34.0.8	Issue Quantitative Risk Analyses (QRA) for three (3) tank farm in support of the effort in defining unrestricted work boundaries	Proposed New
40	SEA 1	Clarified Maintain existing DST... to support upgrades to existing DST...	Wording clarification
42	SEA 1	Conduct of Engineering - delete item #6	Delete
44-46	SEA 3	Clarified wording, deleted cost savings/avoidance, added EVMS training and compliance requirement.	Wording clarification
50	SEA 6	Develop an integrated permitting strategy support the DFLAW Project...	Delete
51-53	SEA 7	Industrial Health and Safety - revised requirements 2, 3, and 4, deleted 8, and added 9	Proposed Revision
56	SEA 10	Integration and Implementation of Comprehensive Vapor Actions	Proposed New
58	report form	Spelling correction	