

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. 0454	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.	
CODE 806500521 FACILITY CODE		9B. DATED (SEE ITEM 11)	
		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)

See Schedule

**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 \_\_\_\_\_ copies to the issuing office.

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

- The purpose of this modification is to incorporate the Performance Evaluation and Measurement Plan (PEMP) for Fiscal Year (FY) 2018. As such, this modification replaces Section J, Attachment J.4 in its entirety.
- Attached to this modification is Section J, Attachment J.4, FY 2018 PEMP, pages 1 through 73.
- All other contract 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)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) David R. Garcia	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA Signature on File (Signature of Contracting Officer)	16C. DATE SIGNED 09/28/2017

**CONTINUATION SHEET**REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DE-AC27-08RV14800/0454PAGE OF  
2 2NAME 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 454**

**Fiscal Year 2018 Performance Evaluation Measurement Plan**

**Replacement Pages**

**(Total: Seventy-Four (74) including this Cover Page)**

- **Section J, Attachment J.4, Performance Evaluation and Measurement Plan, Pages 1 thru 73**

**SECTION J, ATTACHMENT J.4**

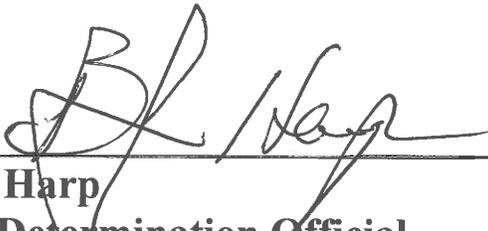
**PERFORMANCE EVALUATION AND  
MEASUREMENT PLAN**

**Fiscal Year 2018**

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

**Performance Period:**  
**October 1, 2017 through September 30, 2018**

**Issued by:**

  
\_\_\_\_\_  
**Ben Harp**  
**Fee Determination Official**  
**DOE/ORP**

9/27/17  
**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 retaliation.
- 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 Option Year 2 of the contract with a period of performance from October 1, 2017 through September 30, 2018.

### 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.

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 complete and accurate technical information/products delivered in mutually agreed time frames that meet all applicable codes, standards, rules, regulations and orders.

**B. REFERENCES**

DOE ORP contract with WRPS; Contract DE-AC27-08RV14800.

**C. ORGANIZATIONAL STRUCTURE FOR PERFORMANCE FEE ADMINISTRATION**

The PEMP is established unilaterally by ORP to provide for successful completion of ORP's significant management and program objectives. The effectiveness of this PEMP also requires the establishment of a close working relationship between ORP and WRPS because all entities are responsible for successful implementation of the plan and successful completion of ORP's significant management and program objectives. The roles and responsibilities of the key personnel are as follows:

1. **DOE-Headquarters (HQ)**

Deputy Assistant Secretary for Acquisition and Project Management

- Serves as Head of Contracting Activity for the Office of Environmental Management.
- Reviews and comments on the PEMP and Recommended Fee Determination.
- Coordinates with the Deputy Secretary of Energy (S-2) and the Office of Assistance and Management as necessary.

2. **ORP**

a. Manager, ORP

- Approves annual PEMP.
- Approves changes to the PEMP during the execution period.
- Serves as FDO.
- Formally charters the PEB to ensure senior management involvement and accountability.
- Issues annual Award Fee Determination.
- Approves PBI Completion Determination.

b. Assistant Manager, Tank Farms Project

- Serves as Chair of the PEB.

c. Director, Contracts and Property Management

- Forwards draft PEMP to the Environmental Management Head Contracting Authority for review and comment.
- Forwards draft Award Fee Determination for review and comment.
- Works with PEB to address any HQ comments concerning PEMP or Award Fee Determination, adjudicated by the FDO.
- Ensures a unilateral or bilateral plan is issued prior to the start of the performance period.
- Reviews draft evaluation report.
- Coordinates with FDO during PEMP evaluation and fee recommendation.

d. ORP PEB

- Accountable for final selection and recommendation of contract-specific performance-based and award fee incentives.
- Assigns responsibilities to PMs to monitor and evaluate completion of performance against objectives and measures for PBIs and SEAs.
- Provides input, reviews, and concurs on the PEMP.
- Accountable for addressing any external stakeholder comments concerning PEMP or Award Fee Determination through the FDO.
- Reviews WRPS performance at the end of the evaluation period and upon completion of key milestones.
- Evaluates WRPS performance and recommends earned fee to the FDO.

e. PEB Chair Person

- Issues call letters for input in the development of the PEMP.
- Submits draft PEMP to PMs and WRPS for review and comment.
- Consolidates, coordinates, and incorporates comments to the PEMP.
- Obtains appropriate concurrence and approvals of the PEMP.
- Issues call letter to PMs for input to WRPS performance evaluation report.
- Coordinates evaluations of WRPS's performance with the PEB.
- Consolidates input from ORP PMs.
- Coordinates training for participants in the performance fee process.
- Coordinates changes with PMs.
- Provides fee recommendation to the FDO.

f. PEB Members/PMs

- Attend all meetings unless formally excused by the Chair.
- Actively participate in meetings.
- Assure all program activities are represented.
- Accountable for finalizing performance objectives/measures.
- Monitor and evaluate completion of performance objectives.
- Provide input, review, and concur on performance objectives.
- Provide independent assessment of WRPS performance and recommend earned fee to the FDO.
- Validate and document completion of PBI and SEA performance objectives and measures.
- Elevate recommendations, issues or concerns to the Chair.
- Review and consider WRPS self-assessments in recommending fee.

g. Contracting Officer

- Transmits the PEMP to the contractor and incorporates the PEMP into the contract either bilaterally or unilaterally.
- Provides input, reviews, and concurs on the PEMP PBI and SEA objectives and measures to achieve ORP's management and program requirements.
- Determines the completion and achievement of the performance objectives and measures for the FDO.

3. WRPS

General Manager

- Collaborates with ORP management to establish a working relationship that enables production of high value deliverables.
- Responsible for the achievement of performance objectives and measures.
- Provides critical self-assessments of performance against PBI and SEA performance objectives and measures to the ORP Contracting Officer.

**D. METHOD FOR DETERMINING PERFORMANCE FEE**

**1. Communication with WRPS during the Evaluation Period**

One important consideration for evaluation will be discussions between the PM and their WRPS counterpart. It is a management expectation that PMs meet with their WRPS counterpart at least monthly to review, discuss, and provide interface on WRPS' performance against the performance-based and award fee incentives and overall contract performance.

Regular communication with WRPS at the PM level will contribute to the success of the fee process. PM should discuss performance which may not currently meet performance objectives and measures, and thereby keep WRPS informed as to achievements and deficiencies that may appear in the final evaluation for the period.

ORP will use this separate color-coded table for informal monthly performance evaluations (see Attachment 5). The final evaluation will reflect the adjectival rating scale in Attachment 1.

**2. WRPS Self-Assessment**

WRPS shall provide the ORP Contracting Officer with a critical self-assessment within ten (10) working days after the end of an award fee evaluation period. WRPS must also provide an electronic copy of its critical self-assessment of performance to ORP Contracting Officer for distribution to ORP PMs.

WRPS shall critically assess progress in meeting deliverables within cost, schedule and scope, including meeting the specified acceptance criteria. WRPS shall identify issues potentially affecting the completion of individual PBIs and SEAs and the overall success of the program, and actions taken or recommended to resolve those issues. WRPS's critical self-assessment shall propose and justify the amount of performance based incentive and award fee earned, and include a discussion of fee reductions warranted by any failure to meet performance expectation. In the event the contractor self-discloses a situation that falls within the support of a special emphasis area, and appropriately self-corrects the situation in a timely manner, fee reduction may be waived by the FDO.

**3. ORP Assessment**

ORP PMs shall prepare and submit to ORP PEB Chair Person, an independent assessment of WRPS's performance within 20 calendar days upon receipt of the WRPS end of the year self-assessment. The ORP PM shall consider WRPS's input with respect to completing the SEA performance criteria and with respect to the quality. Where significant disagreement exists between WRPS's self-assessment and ORP's assessment, the responsible ORP PM shall raise such disagreements to the PEB for resolution. WRPS may be requested to attend a Board meeting to assure their view is understood.

ORP PMs shall also consider the additional input received during monthly operating reviews. Such reviews will enable program-wide understanding of progress, an integrated assessment of impacts, and the identification of corrective actions. Assessments shall also document the rationale for any reduction in the amount of award fee earned.

ORP PEB Chair Person will consolidate ORP PM Evaluation Reports and submit a written evaluation report to the PEB members (see attachment 4 for the list of PEB members) with recommendations for final approval from the FDO.

**4. Performance Evaluation Process**

<b>Performance Evaluation Process</b>		
<b>Activity</b>	<b>Duration</b>	<b>Evaluation Period</b>
Award fee evaluation period	365 days	October 1, 2017 to September 30, 2018
WRPS Monthly list of completed PBIs and supporting documentation are provided to the ORP Contracting Officer	10 days	10 working days after each calendar month
WRPS third quarter and end of year self-assessment of award fee performance objectives and measures are provided to the ORP Contracting Officer	10 days	10 working days after each the end of the quarter
ORP PMs will prepare and submit Independent Assessment of WRPS performance to ORP PEB Chair	20 days	20 working days after each calendar month for PBIs and 20 days after third and fourth quarters for award fee assessment
ORP consolidate performance monitor evaluation reports and submit to ORP PEB members for review	30 days	~ 30 days after receipt of monthly PBI completion letter and third quarter or end of year award fee self-assessment
PEB will review, validate and prepare evaluation report with recommendation to the FDO	60 days	~ 60 days after receipt of monthly PBI completion letter and end of year award fee self-assessment
FDO determines amount of PBI fee earned (monthly) and award fee earned (annually)	70 days	70 days after receipt of monthly PBI completion letters and 70 days after receipt of end of year award fee self-assessment

- a. Within ten (10) working days after the end of a calendar month, WRPS shall provide the ORP Contracting Officer with a list of the PBIs completed in that month and supporting documentation demonstrating the performance based incentives have been earned. Within ten (10) days after the end of the third quarter, WRPS shall provide the Contracting Officer with a self-assessment of their performance towards achievement of the award fee performance objectives and measures during the first three quarters. The contractor will provide an electronic copy of its monthly PBI completion report and third quarter award fee self-assessment report to the ORP Contracting Officer for distribution to ORP PMs.
- b. Within twenty (20) working days upon receipt of the monthly WRPS PBI completion letter, and twenty (20) working days upon receipt of the third quarter award fee self-assessment report ORP PMs will prepare and submit an independent assessment of WRPS’s performance, with respect to quality and schedule, against the PBI completion criteria and/or award fee performance objectives and measures

to the ORP PEB Chair Person for consolidation. The ORP PM shall consider WRPS's input with respect to payments of fee. Where significant disagreement exists between WRPS's self-assessment and ORP's assessment, the responsible PM shall raise such disagreements to the ORP PEB for resolution.

- c. The ORP assessment must be submitted on the PM Evaluation Report form, Attachment 2 of the Plan, and will only be accepted by the ORP PEB Chair Person upon the approval of the ORP PM.
- d. Within approximately thirty (30) calendar days upon receipt of the monthly WRPS PBI completion letter, and third quarter award fee evaluation period, the ORP PEB Chair Person will consolidate PM Evaluation Reports and submit to the PEB members for review.
- e. Within approximately sixty (60) calendar days upon receipt of the monthly WRPS PBI completion letter, and end of year award fee evaluation period, the PEB will review, validate, and prepare an evaluation report and submit a fee recommendation to the FDO.
- f. Within seventy (70) calendar days upon receipt of the monthly WRPS PBI completion letter, and end of year award fee self-assessments, the FDO will make a determination of the fee earned.

#### **5. Evaluation and Discussion Documentation**

Where meetings or discussions are held by the PM (with WRPS, HQ, or others) that significantly impact award fee evaluations, it is necessary that appropriate documentation be created. This documentation can be in the form of signed and dated notes, minutes, or correspondence. Copies of the PM documentation should be maintained by the PM in support of the PM Evaluation Report.

Rationale for fee payments will be documented by the PEB for the FDO. The final PEB Fee Recommendation and FDO Fee Determination reports along with supporting rationale will be maintained by the ORP Contracts and Property Management organization in the official "contract file."

#### **E. PEB INVOLVEMENT IN FINAL EVALUATIONS**

The PEB is responsible for reviewing the PM Evaluation Reports and developing a Fee Recommendation Report to the FDO. The PEB Chair will provide updates and feedback to the FDO prior to receiving the PEB's final signed fee recommendation report.

#### **F. FDO RESPONSIBILITIES IN FINAL EVALUATIONS**

Based on the FDO's personal knowledge, the information contained in WRPS's self-

assessment, the PEB Fee Recommendation Report, and/or other information relating to WRPS's performance of the contract requirements, the FDO develops a determination on the evaluation and award fee.

**G. METHOD FOR CHANGING PLAN COVERAGE**

Proposed changes to the PEMP may be initiated by ORP. Proposed changes to the PEMP may be initiated on the official PEMP Change Form (Attachment 4). The respective PM will review and concur on proposed changes prior to any changes being made to the PEMP. The FDO will either approve or disapprove any proposed changes to the PEMP.

**Attachment 1**

**PERFORMANCE BASED INCENTIVES**

<b>PERFORMANCE BASED INCENTIVES</b>	<b>VALUE</b>	<b>PERFORMANCE MONITOR</b>
PBI-35.0 CLIN 2: C Farm Retrievals	\$3,360,000	Tank Farms
PBI-36.0 CLIN 2: A/AX Retrievals	\$5,355,000	Tank Farms
PBI-37.0 CLIN 2: Manage DST Space (includes DST Tank Integrity)	\$3,050,000	Tank Farms
PBI-38.0 CLIN 1: Improve Tank Farm Infrastructure	\$5,870,000	Tank Farms
PBI-39.0 CLIN 3: Integrate Tank Farms and WTP	\$1,950,000	Tank Farms
PBI-40.0, CLIN 2: Facility Maintenance	\$800,000	Tank Farms
PBI-41.0 CLIN 2: Tank Farm Closure Activities	\$2,150,000	Tank Farms
PBI-42.0 CLIN 3: Chief Technology Office	\$3,250,000	Tank Farms
PBI-44.0 CLIN 1: Comprehensive Vapor Action Plan	\$3,437,500	Tank Farms
PBI-45.0 CLIN 2: AY-102 Retrieval	\$250,000	Tank Farms
PBI-46.0 CLIN 1 Waste Feed Delivery Infrastructure Project Improvements	\$1,700,000	Tank Farms
<b>Total Expense PBI Fee Available</b>	<b>\$31,172,500,</b>	

PBI-43.0 CLIN 5: Low-Activity Waste Pretreatment System	\$7,500,000	Tank Farms
<b>Total Capital PBI Fee Available</b>	<b>\$7,500,000</b>	

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.

*Fee Pool is \$55,625,000*

*Base Fee Pool \$31,172,500*

*LAWPS Fee Pool \$7,500,000*

*Award Fee Pool is \$16,952,500*

**AWARD FEE SPECIAL EMPHASIS AREAS**

<b>SPECIAL EMPHASIS AREAS</b>	<b>VALUE</b>	<b>PERFORMANCE MONITOR</b>
SEA 1: Management of Single-Shell Tank (SST) and Double-Shell Tank (DST) System	\$2,852,000	Tank Farms
SEA 2: Performance of Tank Farm Project Operations – Conduct of Operations	\$2,100,000	Tank Operations
SEA 3: Cost and Management Performance	\$2,100,000	Tank Farms
SEA 4: Quality Assurance Program	\$1,300,000	Quality Assurance
SEA 5: Nuclear Safety	\$1,300,000	Nuclear Safety
SEA 6: Environmental Regulatory Management	\$1,300,000	Environmental
SEA 7: Safety Program Implementation	\$1,300,000	Safety and Health
SEA 8: Support for DFLAW and WTP Commissioning	\$1,300,000	Tank Farms
SEA 9: Contractor Assurance System (CAS)	\$1,300,500	Tank Farms
SEA 10: Integration and Implementation of Comprehensive Vapor Actions	\$2,100,000	Tank Farms
<b>Total SEA Fee Available</b>	<b>\$16,952,500</b>	

The available fee for both the PBIs and the SEAs combined is to be determined dependent on project funding and is currently estimated at \$55,625,000. Unearned fee is not available to be earned in any subsequent evaluation period.

**PBI-35.0 CLIN 2 C Farm Retrievals**

**Performance Fee value is established at \$3,360,000 of Fiscal Year 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$960,000	September 30, 2018	Expense
2	Terminal	\$1,500,000	September 30, 2018	Expense
3	Terminal	\$250,000	September 30, 2018	Expense
4	Terminal	\$250,000	September 30, 2018	Expense
5	Terminal	\$250,000	September 30, 2018	Expense
6	Terminal	\$150,000	September 30, 2018	Expense
<b>Total</b>		<b>\$3,360,000</b>		

**Desired Endpoint/Outcome:**

Complete the removal of hose-in-hose transfer lines that have been used for the temporary movement of waste for retrieval activities. Complete retrieval and certify completion of C-105 to meet the performance requirements of the Consent Decree – Appendix B and C. Complete post-retrieval sampling at C-105 in support of Tri-Party Agreement milestone M-25-86. Reduce the C-Farm maintenance foot print by isolating major equipment and systems such as the POR107 exhauster and the POR357 Water Skid. Reduction of the maintenance foot print will make critical resources available for other mission priorities and support transition of C Farm back to minimum safe operations.

**Fee Bearing Milestones:**

1. Complete removal of twelve (12) interim stabilization HIHTLs by September 30, 2018. The Contractor shall earn \$80,000 of fee for each HIHTL removal for a total available fee of \$960,000.

Work scope/completion criteria: 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 retrieval of 241-C-105 with a residual waste volume of less than 360 cubic feet, or complete retrieval to the limits of three approved technologies by September 30, 2018. The Contractor shall earn \$1,500,000 of fee upon completion of 241-C-105 Retrieval.

Work scope/completion criteria: Complete waste retrieval operations with a residual waste volume of less than 360 cubic feet, or complete retrieval to the limits of three approved technologies as defined by the applicable Tank Waste Retrieval Work Plan.

Completion document: Letter transmitting performance expectation completion notice and a released copy of the Contractor's Retrieval Completion Report (RCR) documenting the field results of retrieval. (Note: The Contractor's RCR is an engineering report summarizing the results of retrieval operations and is separate and distinct from the Retrieval Completion Certification document required by the Consent Decree).

3. Obtain post-retrieval waste samples to support Tank Closure in accordance with an approved Tank Sampling and Analysis Plan (TSAP) for Tank 241-C-105 by September 30, 2018. The Contractor shall earn a total of \$250,000 of fee upon completion of the sampling.

Work scope/completion criteria: Completion of post-retrieval waste samples as described in the applicable TSAP. The plan shall identify; the type of sample, the technical need for the sampling activity, the location of the samples, and the sampling requirements.

Completion document: Letter transmitting performance expectation completion notice, copy of the chain of custody, and copy of the sampling datasheet. These items document completion of the post-retrieval waste samples and transfer of ownership to the laboratory.

4. Complete 241-C-105 Retrieval Completion Certification report by September 30, 2018. The Contractor shall earn a total of \$250,000 of fee upon completion of the report.

Work scope/completion criteria: The Retrieval Completion Certification Report to include the following elements:

- Retrieval Process Description and Chronology
- Post Retrieval Conditions
- Residual waste volume based on Camera/CAD Modeling
- TOC sub-certification.

A draft of the Retrieval Completion Certification shall be provided to ORP for review. ORP written comments submitted to the contractor on the draft within 30 calendar days will be addressed in the final retrieval data report.

Completion document: A letter transmitting the performance expectation completion notice and the Retrieval Completion Certification report addressing the elements described above.

5. Reduce the C Farm preventative and corrective maintenance footprint by performing the

mechanical isolation necessary for the layup of the POR107 exhauster by September 30, 2018. The Contractor shall earn \$250,000 of fee for POR107 isolation.

Work scope/completion criteria: Isolation of the POR107 exhauster will occur after C-105 retrieval and post-retrieval sampling activities have been completed. The POR107 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.

Completion document: A letter transmitting the performance expectation completion notice and a copy of the C Farm Equipment Stabilization Plan for the POR107 Exhauster and work package completion and acceptance by Operations documenting POR107 exhauster isolation, including capping of the stack and isolation of the upstream filter system from the stack.

6. Reduce the C Farm preventative and corrective maintenance footprint by isolating POR357 Water Skid from the C Farm single-shell tank system by September 30, 2018. The Contractor shall earn \$150,000 of fee for isolation of the Water Skid.

Work scope/completion criteria: Isolation of the POR357 Water Skid will occur after C-105 retrieval operations have been completed. The isolation of the POR357 Water Skid will remove the retrieval water service to the C Farm single shell tank system, eliminating future maintenance and winterization activities associated with maintaining active water service to the C Farm single shell tanks. Perform the mechanical isolation necessary for the layup of the POR357 Water Skid that includes, as a minimum, electrically determination of the skid, draining and isolating the distribution of water from the skid to the C Farm single shell tanks. Isolation will be documented by Operations acceptance of the work package.

Completion document: A letter transmitting the performance expectation completion notice and work package completion and acceptance by Operations documenting POR357 Water Skid isolation.

**PBI-36.0 CLIN 2 A/AX Retrieval**

**Performance Fee value is established at \$5,355,000 of Fiscal Year 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$400,000	September 30, 2018	Expense
2	Terminal	\$1,800,000	September 30, 2018	Expense
3	Terminal	\$200,000	September 30, 2018	Expense
4	Terminal	\$200,000	September 30, 2018	Expense
5	Terminal	\$400,000	September 30, 2018	Expense
6	Terminal	\$600,000	September 30, 2018	Expense
7	Terminal	\$400,000	September 30, 2018	Expense
8	Terminal	\$80,000	September 30, 2018	Expense
9	Terminal	\$150,000	September 30, 2018	Expense
10	Terminal	\$125,000	September 30, 2018	Expense
11	Terminal	\$1,000,000	September 30, 2018	Expense
<b>Total</b>		<b>\$5,355,000</b>		

**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-103 by September 30, 2018. Three sluicers will be procured for AX-103. The Contractor shall earn \$400,000 of incremental for procurement of the set of ERSSs.

Work scope/completion criteria: Three sluicers for Tank AX-103 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 nine (9) long-length equipment (LLE) removal actions at AX-102 and AX-104 by September 30, 2018. The Contractor shall earn \$200,000 in incremental fee for each of the nine (9) LLE removals for a total available fee of \$1,800,000.

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 approved 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.

3. Complete AZ to AX Splitter Box HIHTL field installation by September 30, 2018. The Contractor shall earn \$200,000 of incremental fee upon completion of field installation.

Work scope/completion criteria: Complete field installation of AZ to AX Splitter Box HIHTL installation (excluding Service Connections, Construction Acceptance Testing [CAT], and OATs). These systems are needed to support AX-102 and AX-104 retrieval.

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

4. Complete A Farm Equipment Removal Design for Tanks A-101, A-102, A-103, and A-106 by September 30, 2018. The Contractor shall earn \$200,000 in fee upon completion.

Work scope/completion criteria: Complete equipment removal design for A Farm Tanks A-101, A-102, A-103, and A-106.

Completion document: Letter transmitting the performance expectation completion notice and a matrix that identifies equipment removal design media issued to support retrieval activities in A Farm for tanks A-101, A-102, A-103, and A-106.

5. Complete A Farm Waste Retrieval System Design for Tanks A-101, A-102, A-103, and A-106 by September 30, 2018. The Contractor shall earn \$400,000 in fee.

Work scope/completion criteria: Complete Retrieval design for A Farm tanks.

Completion document: Letter transmitting the performance expectation completion notice and a matrix that identifies design media issued to support retrieval activities in A Farm for tanks A-101, A-102, A-103, and A-106.

6. Complete concrete pad, placement of POR518 exhauster skid, and placement of POR519 exhauster skid in support of exhauster skid operations. Install concrete pad, POR518, and POR519 platforms and stack support structures by September 30, 2018. The Contractor shall earn \$200,000 in incremental fee for each of the concrete pad, POR518, and POR519 for a total available fee of \$600,000.

Work scope/completion criteria: Place concrete pad, exhauster skid POR518, and POR519 (excluding Service Connections, Construction Acceptance Testing [CAT], and OATs) to support operation, fabricate, deliver and erect platforms, and stack support structures in A Farm.

Completion document: Letter transmitting the Performance Expectation Completion Notice and copies of the work package signature page(s) approved through the Field Work Supervisor for the concrete pad installation, POR518 exhauster skid and associated structures, and POR519 exhauster skid and associated structures.

7. Complete the following AX-101 and AX-103 equipment removal actions by September 30, 2018. The Contractor shall earn \$100,000 in incremental fee for each pit cleanout (excluding long length contaminated equipment removals) for a total available fee of \$400,000.

Work scope/completion criteria: AX-101 and AX-103 equipment removal actions includes complete removal of cover block, 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 and a copy of the work package signed off as complete by the Field Work Supervisor.

8. Complete installation of a new 13.8 kV power distribution system to support A/AX retrieval systems by September 30, 2018. The Contractor shall earn \$80,000 for installation of the 13.8 kV Power Distribution system.

Work Scope/completion criteria: 13.8 kV Power Distribution System is installed including the following components: 13.8kV transformer and main distribution panel AX241-EDS-DP-001 (note: system will not be physically tied into the 13.8 kV system).

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

9. Complete isolation of the existing ventilation ducting to Tanks A-101, A-102, A-103, A-104, A-105, and A-106 in support of new ventilation system isolation by September 30, 2018. The Contractor shall earn \$25,000 in incremental fee for each tank isolation activity for a total available fee of \$150,000.

Work Scope/completion criteria: Isolate existing ventilation ducting to tanks A-101, A-102, A-103, A-104, A-105, and A-106 is completed.

Completion document: Letter transmitting the performance expectation completion notice and for the ducting isolations and a copy of the work package(s) signed off as complete by the

Field Work Supervisor.

10. Complete installation of AX-102/AX-104 control trailer POR-471 by September 30, 2018. The Contractor shall earn \$125,000 for installation of the control trailer.

Work scope/completion criteria: Control trailer installation includes procurement of the trailer per RPP-SPEC-60185, installation of supporting slab, field placement and tie-down of trailer, and installation of internal electrical cabinets.

Completion document: Letter transmitting the performance expectation completion notice and a copy of the QA acceptance for POR-471 and the fabricated electrical cabinets, along with a copy of the installation work package(s) signed off as complete by the Field Work Supervisor.

11. Complete installation of water and chemical piping between building 241-A-285 and splitter manifold POR-496 (reference drawing H-14-110034, sheets 1 and 2) by September 30, 2018. The Contractor shall earn \$100,000 in incremental fee for every two hundred and forty-five (245) linear feet of piping (for a total of 2,450 feet) installed for a total available fee of \$1,000,000.

Work Scope/completion criteria: Complete placement of two hot water lines, one cold water line, and one chemical line between 241-A-285 and POR-496. The piping will be variously buried and/or supported by pipe supports per design, welded or bolted per design, and heat traced and insulated in configuration for future readiness testing.

Completion document: Letter transmitting the performance expectation completion notice (PECN) and a copy of the installation work package(s) with pictures signed off as complete by the Field Work Supervisor. The final PECN submittal will include the signed work package.

**PBI-37.0 CLIN 1 Manage DST Space (including DST Tank Integrity)**

**Performance Fee value is established at \$3,050,000 of the FY 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$1,000,000	September 30, 2018	Expense
2	Terminal	\$600,000	September 30, 2018	Expense
3	Terminal	\$750,000	September 30, 2018	Expense
4	Terminal	\$100,000	September 30, 2018	Expense
5	Terminal	\$300,000	September 30, 2018	Expense
6	Terminal	\$300,000	September 30, 2018	Expense
<b>Total</b>		<b>\$3,050,000</b>		

**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 260,000 waste volume reduction volume by September 30, 2018. The Contractor shall earn \$500,000 upon completion of each 130,000 gallons of waste volume reduction for total available fee of \$1,000,000.

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 260,000 gallons waste volume reduction by September 30, 2018, of free DST volume achieved.

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 eight (8) grab samples in support of the Tank Operations Contract (TOC) mission by September 30, 2018. The Contractor shall earn \$75,000 of incremental fee upon completion of the each grab sample (total of \$600,000 of incremental fee is available to be earned).

Work scope/completion criteria: Completion of 8 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 datasheet. 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. Reduce LERF inventory by 4,000,000 gallons by September 30, 2018. The Contractor shall earn \$187,500 of incremental fee upon completion of each 1,000,000 gallons of LERF inventory for total available fee pool of \$750,000 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 reduction in LERF Inventory achieved above the FY 2017 PBIs accomplished in FY 2017 will carry over and count towards the FY 2018 Reduce LERF Inventory 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.

4. Complete robot crawler demonstration through field deployment in one DST by September 30, 2018. The Contractor shall earn \$100,000 upon completion.

Work scope/completion criteria: Perform field deployment in one DST planned for ultrasonic testing during FY 2018.

Completion document: Letter transmitting the performance expectation completion notice and copy of work package work record entry documented by field work supervisor. .

5. Perform Ultrasonic Testing (UT) Examination of the three DSTs by September 30, 2018. The Contractor shall earn \$100,000 of fee upon completion of each examination for a total fee of \$300,000.

Work scope/completion criteria: Perform UT Examination of the three DSTs. The UT examination shall include at a minimum the primary walls and the floor of the annulus for each tank.

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.

6. Complete design, fabrication, and testing of an annulus pumping system capable of deployment in any one of the 27 double-shell tanks by September 30, 2018. The Contractor shall earn \$300,000 fee upon completion.

Work scope/completion criteria: Smart Plant Foundation (SPF) documentation showing design media completion and an inspection and factory test demonstrating operability of the system.

Completion documentation: Letter transmitting the performance expectation completion notice, copies of SPF released design media documentation, and a copy of the inspection and test report demonstrating operability of the system.

**PBI-38.0 CLIN 1 Improve Tank Farm Infrastructure**

**Performance Fee value is established at \$5,870,000 of the FY 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$550,000	September 30, 2018	Expense
2	Terminal	\$475,000	September 30, 2018	Expense
3	Terminal	\$1,150,000	September 30, 2018	Expense
4	Terminal	\$1,750,000	September 30, 2018	Expense
5	Terminal	\$850,000	September 30, 2018	Expense
6	Terminal	\$650,000	September 30, 2018	Expense
8	Terminal	\$445,000	September 30, 2018	Expense
<b>Total</b>		<b>\$5,870,000</b>		

**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, AW Farm, 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 cost and schedule inefficiencies are captured within the individual projects.

**Fee Bearing Milestones:**

1. Complete two (2) 242-A Facility Upgrades by September 30, 2018. The Contractor shall earn \$275,000 of incremental fee upon completion of the upgrade for a total available fee pool of \$550,000.

Work scope/completion criteria: Complete facility upgrade in support of the 242-A Facility as follows: 1) HVAC Control room upgrade (Complete the removal and replacement of the 242-A Evaporator Control Room HVAC system), and 2) Fire alarm panel upgrade (the 242-A fire alarm system is obsolete and has already experienced a failure which resulted in a delay of an evaporator campaign. This has been recognized by the Hanford Fire Department (Letter, R. J. Kobelski, Hanford Fire Marshall, to J. T. Devere, Jr., et al, *WRPS Fire Alarm Control Panels End-of-Life Removal Process*, 41320-12-006, dated August 1, 2012), stating the panel is entering the end of its life. In order to achieve stability at the 242-A facility an upgrade is required to replace the system).

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

one performance expectation completion notice.

2. Procure and install three (3) 222-S Laboratory Analytical Instruments by September 30, 2018. The Contractor shall earn \$158,333 incremental fee upon completion of each instrument install for a total available fee pool of \$475,000.

Work scope/completion criteria: Procure and install three (3) analytical instruments: 1) thermal desorption unit (TDU), 2) gamma energy analyzer (GEA), 3) gas chromatograph mass spectrometer (GC/MS).

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 three (3) 222-S Laboratory Facility upgrades by September 30, 2018. The Contractor shall earn \$383,333 incremental fee upon completion of each upgrade for total available fee of \$1,150,000.

Work scope/completion criteria: Complete three (3) facility upgrade in support of the 222-S Laboratory as follows: 1) 222-S HVAC upgrades installation and construction acceptance testing, 2) complete site preparation and slab foundation for the 222-SL Cold Laboratory, and 3) complete Room 4N renovation.

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

4. Complete six (6) double-shell tank farm upgrades by September 30, 2018. The Contractor shall earn \$291,666 of fee upon completion of each upgrade for a total available fee pool of \$1,750,000.

Work scope/completion criteria: Complete upgrades in support of the AN, AP, AW, AZ, and/or SY Farm upgrades:

- In-Pit Heating - Complete installation of in-pit heaters in ten (10) pits.
- AZ-102 Pump - Pump replacement.
- AW-103 Pump - Pump replacement.
- Tank Farm Automation Upgrades Part II - Complete wireless instrumentation installation in nine (9) pits of AP Farm.
- AW-103/AW-104 Electrical Upgrade -In support of upcoming 242-A Evaporator campaigns, transfers from tanks 241-AW-3 & 241-AW-4 will be required. Previous testing results identified the wiring of the AW-03A & AW-04A transfer pumps needing to be replaced along with pump breakers in 271-AW.

- Safety Shower Installation and Permanent Power - Electrical installation of one permanent shower and three electrical racks to existing showers.

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 ETF by September 30, 2018. The Contractor shall earn \$850,000 of fee upon completion.

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

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

6. Complete two (2) double-shell tank farm upgrades in support of DNFSB 2012-2 recommendations for safety significant flow monitoring by September 30, 2018. The Contractor shall earn \$325,000 of fee upon completion of each upgrade for a total available fee pool of \$650,000.

Work scope/completion criteria:

- AW Farm safety-significant flow upgrades
- AZ Farm safety-significant flow upgrades.

Completion document: Letter transmitting performance expectation completion notice and copy of the work order signature page approved through Operations Acceptance. If two (2) 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.

7. Complete two (2) 222-S Laboratory Facility Upgrade Designs by September 30, 2018. The Contractor shall earn \$222,500 incremental fee upon completion of each upgrade design for a total available fee pool of \$445,000.

Work scope/completion criteria: Complete design of two (2) facility upgrades in support of the 222-S Laboratory as follows: 1) 222-S Ancillary Equipment Addition Design and 2) 222-S Ancillary Equipment Remodel Design.

Completion document: Letter transmitting the performance expectation completion notice and a copy of the design documentation. If two (2) facility upgrade designs are completed within a month the completion documentation will be combined into one performance expectation completion notice.

**PBI-39.0 CLIN 3 Integrated Tank Farms and WTP**

**Performance Fee value is established at \$1,950,000 of FY 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$500,000	September 30, 2018	Expense
2	Terminal	\$400,000	June 30, 2018	Expense
3	Terminal	\$250,000	February 28, 2018	Expense
4	Terminal	\$100,000	September 30, 2018	Expense
5	Terminal	\$100,000	September 30, 2018	Expense
6	Terminal	\$100,000	September 30, 2018	Expense
7	Terminal	\$200,000	March 31, 2018	Expense
8	Terminal	\$100,000	September 30, 2018	Expense
9	Terminal	\$200,000	September 30, 2018	Expense
<b>Total</b>		<b>\$1,950,000</b>		

**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 Addendum (Strategic Plan) by September 30, 2018. The Contractor shall earn \$500,000 of fee upon completion.

Work scope/completion criteria: The RPP System Plan 8 Addendum (Strategic Plan) to reflect assumptions approved by the U.S. Department of Energy (DOE) Office of River Protection (ORP).

Completion document: Letter transmitting performance expectation completion notice and a copy of the Contractor-approved RPP System Plan 8 Addendum (Strategic Plan).

2. Accept delivery of the fabricated prototype Immobilized Low Activity Waste (ILAW) Transporter System by June 30, 2018. The Contractor shall earn \$400,000 of fee upon delivery of the transporter system.

Work scope/completion criteria: WRPS shall accept delivery of the fabricated prototype ILAW Transporter System.

Completion document: Letter transmitting performance expectation completion notice and a copy of the delivery and receipt inspection documentation for the prototype ILAW transporter system.

3. Submit Final Phase 2 ILAW Waste Incidental to Reprocessing (WIR) Technical Basis document to ORP by February 28, 2018. The Contractor shall earn \$250,000 of fee upon completion.

Work scope/completion criteria: Complete the Final Phase 2 ILAW Waste Incidental to Reprocessing (WIR) Technical Basis document and submit to ORP.

Completion document: Letter transmitting performance expectation completion notice and a copy of the Final Phase 2 ILAW Waste Incidental to Reprocessing (WIR) Technical Basis document.

4. Complete the Draft ILAW container Packaging Specific Safety Document (PSSD) and submit to ORP for comment by September 30, 2018. The Contractor shall earn \$100,000 of fee upon completion.

Work scope/completion criteria: Complete the Draft ILAW container PSSD and submit to ORP.

Completion document: Letter transmitting performance expectation completion notice and a copy of the Draft ILAW container PSSD.

5. Submit the revised Operational Readiness Support Plan (Revision 4) to ORP by September 30, 2018. The Contractor shall earn \$100,000 of fee upon completion.

Work scope/completion criteria: Complete the revised Operational Readiness Support Plan (Revision 4) and submit to ORP.

Completion document: Letter transmitting performance expectation completion notice and a copy of the Operational Readiness Support Plan (Revision 4).

6. Issue the DFLAW Integrated Operational Research (OR) Model Results Report by September 30, 2018. The Contractor shall earn \$100,000 of fee upon completion.

Work scope/completion criteria: Issue the Direct Feed Low Activity Waste (DFLAW) Integrated Operational Research Model Results Report.

Completion document: Letter transmitting performance expectation completion notice and a copy of the DFLAW Integrated Operational Research Model Results Report.

7. Release Near-Term Operations Tool (NTO) to operational status by March 31, 2018. The Contractor shall earn \$200,000 of fee upon completion.

Work scope/completion criteria: Release of NTO to operational status. NTO will be capable of modeling near-term transfer strategy, given a user defined assumption set.

Completion document: Letter transmitting performance expectation completion notice and Hanford Information System Inventory (HISI) registration.

8. Integration of Near-Term Operations Tool (NTO) with TOPSim by September 30, 2018. The Contractor shall earn \$100,000 of fee upon completion.

Work scope/completion criteria: Release of TOPSim Version 3.0. This version release will include the integration of the NTO tool with TOPSim, removing manual transfer sets from TOPSim, and improving modeler productivity.

Completion document: Letter transmitting performance expectation completion notice and Hanford Information System Inventory (HISI) registration.

9. Develop the Long-Term Operations (LTO) Tool prototype by September 30, 2018. The Contractor shall earn \$200,000 of fee upon completion.

Work scope/completion criteria: Develop a prototype tool that allows rapid modeling of the RPP Mission, and customer defined “what-if” scenarios. The tool will also support sensitivity and uncertainty analysis of high level mission metrics.

Completion document: Letter transmitting performance expectation completion notice and letter report documenting results of demonstration of the LTO prototype.

**PBI-40.0 CLIN 2 Facility Maintenance**

**Performance Fee value is established at \$800,000 of the FY 2018 fee pool**

**Fee Structure:** Terminal

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$250,000	June 30, 2018	Expense
2	Terminal	\$250,000	September 30, 2018	Expense
3	Terminal	\$300,000	September 30, 2018	Expense
<b>Total</b>		<b>\$800,000</b>		

**Desired Endpoint/Outcome:**

Maintain 200 East area facilities to support the mission of the Hanford Site. Tank Farm general area housekeeping and maintenance is improved also reducing hazards.

**Fee Bearing Milestones:**

1. Complete replacement of the 2750E Switchgear by June 30, 2018. The Contractor shall earn \$250,000 upon completion.

Work scope/completion criteria: This is an electrical upgrade to replace the aging infrastructure at 2750E located in the 200 East Area. The switchgear is original to the building and beyond its service life, replacement parts are no longer available, the installation does not meet the requirements of the National Electrical Code and the arc flash incident energy exceeds the amount allowable for maintenance to perform preventative maintenance (PM) on the equipment. The main 13.8 kV service and switchgear equipment needs to be removed and a new larger transformer (500k VA and 225kVA) and new switchgear installed. The new larger capacity equipment will allow maintenance to perform PMs and support future expansion of the building and increased occupancy. B-wing switchgear is currently scheduled to be complete in FY 2017 with the replacement to D-wing switchgear to be completed in FY 2018. Installation of a new service entrance rated enclosed circuit breaker in B-wing will serve the new power panel in D-Wing.

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

2. Complete repair of the 2704-HV roof by September 30, 2018. The Contractor shall earn \$250,000 upon completion.

Work scope/completion criteria: This is a roof repair to the aging infrastructure at 2704-HV. The building is 24 years old and part of our aging infrastructure. 2704-HV is the largest administrative building for WRPS, housing many different groups. Maintaining this building is vital for WRPS moving forward. The roof is the original to the building and beyond its

service life. The roofing material is ethylene propylene diene monomer (EPDM) and will be replaced with a similar product.

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

3. Complete fieldwork for ten (10) Reusable Contaminated Equipment (RCE) program items requiring extensive planning by September 30, 2018. The Contractor shall earn \$30,000 per item dispositioned for total available fee of \$300,000. If fieldwork for two (2) or more RCE program items are completed within a month the completion documentation will be combined into one performance expectation completion notice.

Work scope /completion criteria: Deliver a copy of the paperwork demonstrating that the item(s) has been evaluated, packaged for disposal, and has been assigned an accumulation date.

Completion document: Letter transmitting performance expectation completion notice and copy of the signed generator certification form.

**PBI-41.0 CLIN 2 Tank Farm Closure Activities**

**Performance Fee value is established at \$2,150,000 of the FY 2018 fee pool**

**Fee Structure:** Terminal

Milestone	Method	Fee Value	Due Date	Fund Type
1	Terminal	\$250,000	May 30, 2018	Expense
2	Terminal	\$500,000	September 30, 2018	Expense
3	Terminal	\$500,000	September 30, 2018	Expense
4	Terminal	\$500,000	September 30, 2018	Expense
5	Terminal	\$400,000	September 30, 2018	Expense
<b>Total</b>		<b>\$2,150,000</b>		

**Desired Endpoint/Outcome:**

Perform tank farm closure activities that meet state requirements.

**Fee Bearing Milestones:**

1. In support of completion of TPA M-045-92, prepare Barrier 3 Design/Monitoring Plan by May 30, 2018. The Contractor shall earn \$250,000 upon completion.

Work scope/completion criteria: The design and monitoring plan will be consistent with those developed for WMA T and TY unless DOE and Ecology agree otherwise. A draft of the Barrier 3 design/monitoring plan 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. Comments will be addressed and incorporated into the Barrier 3 design/monitoring plan.

Completion document: Letter transmitting the performance expectation completion notice and Contractor-approved Barrier 3 design/monitoring plan.

2. In support of completion of TPA M-045-92, Complete Evapotranspiration Basin at SX Farm by September 30, 2018. The Contractor shall earn \$500,000 upon completion.

Work scope/completion criteria: Construction of evapotranspiration basin at SX farm.

Completion document: Letter transmitting the performance expectation completion notice and transmitting construction complete with minor punchlist items.

3. In support of completion of TPA M-045-92, Complete North Barrier as designed at SX Farm by September 30, 2018. The Contractor shall earn \$500,000 upon completion.

Work scope/completion criteria: Construction of North Barrier at SX farm.

Completion document: Letter transmitting the performance expectation completion notice and construction complete with minor punchlist items.

4. In support of completion of TPA M-045-92, Complete South Barrier as designed at SX Farm by September 30, 2018. The Contractor shall earn \$500,000 upon completion.

Work scope/completion criteria: Construction of South Barrier at SX farm.

Completion document: Letter transmitting the performance expectation completion notice and construction complete with minor punchlist item.

5. Provide to ORP and DOE LFRG responses to DOE LFRG review comments on Rev. B of the Integrated Disposal Facility Performance Assessment (IDF PA) along with an updated PA document that incorporates the proposed revisions to address the comments by September 30, 2018. The Contractor shall earn \$400,000 for delivery to ORP and to the LFRG.

Work scope/completion criteria: Complete all necessary modeling and documentation updates to address DOE-LFRG comments on the IDF PA and provide responses to all DOE LFRG comment and updated IDF PA documentation to ORP and DOE LFRG. This document shall be provided in a high quality with few modifications needed for final completion and approval.

Completion document: The responses to the DOE LFRG review comments and updated IDF PA report are delivered to ORP and DOE LFRG for review comment concurrence.

**PBI-42.0 CLIN 3 Chief Technology Office**

**Performance Fee value is established at \$3,250,000 of the FY 2018 fee pool**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$1,250,000	September 30, 2018	Expense
2	Terminal	\$500,000	September 30, 2018	Expense
3	Terminal	\$250,000	September 30, 2018	Expense
4	Terminal	\$200,000	September 30, 2018	Expense
5	Terminal	\$150,000	September 30, 2018	Expense
6	Terminal	\$150,000	September 30, 2018	Expense
7	Terminal	\$200,000	September 30, 2018	Expense
8	Terminal	\$300,000	September 30, 2018	Expense
9	Terminal	\$250,000	September 30, 2018	Expense
<b>Total</b>		<b>\$3,250,000</b>		

**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 necessary development of technologies in support of retrieval and tank integrity field solutions. Complete revision to the RPP Technology Roadmap.

**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, 2018. The Contractor shall earn \$1,250,000 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, 2018:

- LAW glass performance using the SPFT to expand the range of glass compositions tested
- Evaluate secondary alteration phases and potential for Stage III dissolution rate
- Determine method for measuring alkali ion-exchange rate in LAW glass
- Evaluate methods to address/mitigate ammonia release hazard from liquid secondary waste grout
- Characterize the debris SSW waste form (e.g., HEPA filters) made with clean encapsulation grout
- Determine contaminant release rate from grouted IX resin non-debris SSW waste form.

Completion document: Letter submitting the performance expectation completion notice and the comprehensive report(s) described above.

2. Complete selection of non-destructive examination (NDE) technology based on FY 2017 Effectiveness Testing and complete integration testing with a delivery system for under double-shell tank developed by the Tank and Pipeline Integrity (TAPI) group by September 30, 2018. The Contractor shall earn \$500,000 upon completion.

Work scope/completion criteria: Define the under-DST NDE sensor delivery system, complete effectiveness testing, and submit the final effectiveness test report.

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

3. Complete waste form development and performance testing for EMF bottoms disposition onsite by September 30, 2018. The Contractor shall earn \$250,000 of fee upon completion.

Work scope/completion criteria: Complete technical report(s) with waste form and performance data associated with removal of key contaminants (e.g., Tc-99 and I-129) and disposition of chemical hazards (e.g., mercury) and submit final test report.

Completion document: Letter submitting the performance expectation completion notice and the technical report with waste form and performance data.

4. Modify and issue revision to the RPP Technology Roadmap by September 30, 2018. 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 ORP.

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

5. Complete design of a new sampling technique for the Tank Farms by September 30, 2018. The Contractor shall earn \$150,000 of fee for completion of the demonstration and submittal of the final test report by September 30, 2018.

Work scope/completion criteria: Define the new sampling technique with improved capability (e.g., larger samples, reduced work hazards / risks) based on the results from the FY 2017 sampling and transportation study, and, complete design.

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

6. Complete detailed test configuration definition and pretest modeling for lysimeter testing by

September 30, 2018. The Contractor shall earn \$150,000 of fee upon completion.

Work scope/completion criteria: Define test configuration and instrumentation for the lysimeter, complete pretest modeling, and issue status report.

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

7. Complete AP-105 Radioactive Waste Platform Operations, including grouting evaporator bottoms by September 30, 2018. The Contractor shall earn \$200,000 of fee upon completion.

Work scope/completion criteria: The Contractor shall provide a simulant run through the Cold Continuous Lab Scale Melter, run the AP-105 radioactive waste through the Rad Continuous Lab Scale Melter, collect off gas and simulate the EMF bottoms, grout the bottoms and test for off-site shipment to WCS. ORP to provide WIR, and direction to ship.

Completion document: Letter transmitting the performance expectation completion notice and the final report of AP-105 test platform operations and analytical data to ship grouted material off site.

8. Operate the current first feed AP-107 through the DFLAW Radioactive Waste Test Platform to support Waste Feed Qualifications by September 30, 2018. The Contractor shall earn \$300,000 of incremental upon completion.

Work scope/completion criteria: The Contractor shall provide waste to the Platform to run through the Crossflow Filter (CUF), IX and Meter. Provide analytical data to support the first feed to LAWPS/WTP LAW.

Completion document: Letter transmitting the performance expectation completion notice and letter report of the unit operations to support LAWPS/WTP LAW First Feed.

9. Complete requirement and specification definition, detailed design, and fabrication and factory acceptance testing of a mechanical waste gathering system technology and submit an effectiveness test report by September 30, 2018. The Contractor shall earn a total of \$250,000 of fee for completion of the integrated testing.

Work scope/completion criteria: Completed requirement and specification definition and detailed design for a mechanical waste gathering system technology, and submit the final effectiveness test results report.

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

**PBI-43.0 CLIN 5 Low-Activity Waste Pretreatment System**

**Performance Fee value is established at \$7,500,000 of the FY 2018 fee pool**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$2,000,000	February 28, 2018	Capital
2	Terminal	\$1,250,000	September 30, 2018	Capital
3	Terminal	\$750,000	September 30, 2018	Capital
4	Terminal	\$250,000	September 30, 2018	Capital
5	Terminal	\$1,000,000	September 30, 2018	Capital
6	Terminal	\$1,000,000	September 30, 2018	Capital
7	Terminal	\$1,000,000	September 30, 2018	Capital
8	Terminal	\$250,000	September 30, 2018	Capital
<b>Total</b>		<b>\$7,500,000</b>		

**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. Obtain approval of the LAWPS Critical Decision-3A (CD-3A) Package from DOE-HQ by February 28, 2018. The Contractor shall earn \$2,000,000 upon completion

Work scope/completion criteria: DOE-HQ approval of the LAWPS Critical Decision-3A.

Completion document: Letter transmitting the performance expectation completion notice and Approval Letter from DOE-HQ of the LAWPS Critical Decision-3A Package.

2. Submit the LAWPS Preliminary Documented Safety Analysis (PDSA) by September 30, 2018. The Contractor shall earn \$1,250,000 upon submittal.

Work scope/completion criteria: The Contractor shall complete the LAWPS PDSA with the initial ORP comments dispositioned and incorporated so that the document is ready for U.S. Department of Energy Headquarters (DOE-HQ) concurrence. The PDSA with comments disposition will assist ORP in preparing their Safety Evaluation Report (SER). This assumes a 60-day ORP review cycle after the Contractor initial submittal of the PDSA.

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

3. Award Facility Construction Planning Subcontract to down selected offeror by September 30, 2018. The Contractor shall earn \$750,000 in fee upon completion.

Work scope/completion criteria: Facility Planning subcontract will be awarded to the two best value proposing firms by recommendation of a source selection board. The completion criteria will be to have signed subcontracts with both offerors and issued Notice to Proceed (NTP) to each for the facility planning scope.

Completion document: Letter transmitting the performance expectation completion notice and copy of the signed subcontracts with both offerors and issued NTP.

4. Complete award of the LAWPS site preparation activities by September 30, 2018. The Contractor shall earn \$250,000 in fee upon completion.

Work scope/completion criteria: This scope will be executed under a stand-alone subcontract. A signed subcontract with the Site Preparation Subcontractor and issuance of the Notice to Proceed (NTP) for the site preparation scope will constitute the completion criteria.

Completion document: Letter transmitting the performance expectation completion notice and subcontract with the Site Preparation Subcontractor and issued NTP.

5. Submit the LAWPS 90% Design Review Documents/Package to ORP for review by September 30, 2018. The Contractor shall earn \$1,000,000 in fee upon completion.

Work scope/completion criteria: The 90% Design Review Documents/Package for the LAWPS Project will include the following:

- Calculations
- Studies
- Specifications (construction/performance)
- General Arrangement Drawings
- Plot plans
- Building plans
- Sections/Elevations
- P&ID, V&ID, etc.
- Ion Exchange Column/Cross-Flow Filter (without submersible pumps), ASME Tanks, Bridge Crane and Process Valves vendor design media.

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 90% Design Review Documents/Package to ORP for review.

6. Complete 1/9<sup>th</sup> scale and bench scale testing by September 30, 2018. The Contractor shall earn \$1,000,000 in fee upon completion.

Work scope/completion criteria: The scope of the follow on Engineering Scale Integrated Testing comprises a series of prototypic tests that are being performed based on the outcome of the test effort initiated in FY 2016. The testing shall comprise completing the follow on test scope commenced in FY 2017 that address two critical technologies (ion exchange and cross flow filtration) identified in the Technology Maturation Plan in an integrated manner at a nominal one-ninth scale. These tests evaluate the system for cross flow filter cleaning, high viscosity simulant, high sodium molarity simulant, and low or nominal Cesium run.

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

7. Issue updated Technology Maturation Plan (TMP) and Technology Readiness Level (TRL) to support Technology Readiness Assessment (TRA) and achieving TRL6 by September 30, 2018. The Contractor shall earn \$1,000,000 in fee upon completion.

Work scope/completion criteria: The Contractor shall complete the updated LAWPS TMP. The updated TMP shall include the TRL calculators for the Critical Technology Elements (CTEs) it addresses.

Completion document: Letter transmitting the performance expectation completion notice and Contractor-issued TMP document to ORP.

8. Issue the Rev. 0 Full Scale Integrated Cold Test Plan by September 30, 2018. The Contractor shall earn \$250,000 in fee upon completion.

Work scope/completion criteria: The Contractor shall complete the Full Scale Integrated Test Plan. The plan shall identify the scope of the test objectives, plant prototypic equipment that will be utilized, simulant planned for use, overall test configuration and a summary of the tests planned.

Completion document: Letter transmitting the performance expectation completion notice and Contractor-issued Integrated Cold Test Plan to ORP.

**PBI-44.0 CLIN 1 Comprehensive Vapor Action Management**

**Performance Fee value is established at \$3,437,500 of the FY 2018 fee pool.**

**Fee Structure:** Terminal Method

Milestone	Method	Fee Value	Due Date	Fund Type
1	Terminal	\$550,000	September 30, 2018	Expense
2	Terminal	\$837,500	September 30, 2018	Expense
3	Terminal	\$300,000	September 30, 2018	Expense
4	Terminal	\$300,000	September 30, 2018	Expense
5	Terminal	\$300,000	September 30, 2018	Expense
6	Terminal	\$250,000	September 30, 2018	Expense
7	Terminal	\$900,000	September 30, 2018	Expense
<b>Total</b>		<b>\$3,437,500</b>		

**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. Complete installation of stack monitoring for AW, AX (2 individual stacks), AN, and 702-AZ, exhausters by September 30, 2018. The Contractor shall earn \$90,000 upon completion of each installation for total incremental fee of \$450,000 upon completion. If all stacks monitors are installed in the above five stacks by September 30, 2018, the contractor shall earn an additional \$100,000 for a total possible fee of \$550,000.

Work scope/completion criteria: Complete installation of stack monitoring equipment on the AW, AX (two individual stacks), AN, and 702-AZ exhausters.

Completion document: Letter transmitting the performance expectation completion notice and work package coversheet documenting completion and acceptance by Operations.

2. Complete the public address system field installations and functional testing of the speaker systems via mobile test cases at ten (10) locations by September 30, 2018. The Contractor shall earn \$83,750 upon completion of each installation for total incremental fee of \$837,500 upon completion.

Work scope/completion criteria: Complete field installation of the public address speaker system upgrades at B/BX/BY/S/SX/SY/T/TY/TX/U Farms 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.

3. Complete SST stewardship farm automation upgrades at one pilot farm by September 30, 2018. The Contractor shall earn \$300,000 upon submittal.

Work scope/completion criteria: The Contractor shall complete field installation of farm automation upgrades at one (1) farm, as well as functional testing of the newly designed automation systems. Upgrades will be the installation of remote monitoring capabilities for ENRAFs and temperature readings.

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 farm automation systems work scope approved through Operations acceptance.

4. Complete NUCON Vapor Abatement Unit (VAU) bench scale test by September 30, 2018. The Contractor shall earn \$300,000 upon completion of bench scale tests per the IPT approved test plan.

Work scope/completion criteria: The Contractor shall complete bench scale tests consistent with the test plan of the NUCON VAU and prepare a summary of results. This test shall demonstrate the destruction efficiencies of the chemical vapors of potential concern at both high and low inlet concentrations. In addition, the total exhaust gas emissions shall be characterized to evaluate the composition and concentrations of the combustion products. This demonstration shall be done using the existing propane fueled NUCON VAU prototype at an off-site location. Provided successful test results for the propane unit, perform bench scale test on the planned fabricated diesel unit at an off-site location. Recommendations for further development and testing needs shall be included in a final bench scale test report. The test report will guide initiation of field testing of the NUCON VAU in a tank farm.

Completion document: Letter transmitting the performance expectation completion notice and final bench scale report summarizing NUCON technology demonstration results.

5. Complete Strobic Air System off-site demonstration by September 30, 2018. The Contractor shall earn \$100,000 upon completion of initial offsite testing (i.e., Factory Acceptance Testing) on the Strobic unit no later than March 31, 2018; and the Contractor shall earn \$200,000 upon completion of a second phase of off-site testing to complete a full Strobic off-site demonstration no later than September 30, 2018, for total available fee of \$300,000.

Work scope/completion criteria: The Contractor shall complete initial off-site testing (i.e., Factory Acceptance Testing), and prepare a summary of results. The Contractor shall also

complete a second phase of off-site testing to complete a full Strobic off-site demonstration, and prepare a summary of results. This second phase of testing shall demonstrate integrated electrical control and variable frequency drive functionality with current exhaust fans, potential range of emission management, and effective stack height capability. Recommendations for further development and testing needs shall be included in the second phase test report.

Completion document: Letter transmitting the performance expectation completion notice and summary of Strobic Air System technology demonstration results.

6. Complete stack extension field installation for AW farm primary exhauster and turnover to operations by September 30, 2018. The Contractor shall earn \$250,000 upon submittal.

Work scope/completion criteria: The exhaust stack extension at AW farm primary exhauster shall be constructed and turned over to Operations.

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 the exhaust stack extension work scope approved through Operations acceptance.

7. Complete six (6) cartridge tests using the cartridge test jigs and submit chain of custody document by September 30, 2018. 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.

**PBI-45.0 CLIN 2 AY-102 Retrieval**

**Performance Fee value is established at \$250,000 of Fiscal Year 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$250,000	June 30, 2018	Expense
<b>Total</b>		<b>\$250,000</b>		

**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 Milestone:**

1. Complete modification of the AY-102 annulus pump system and perform operations to transfer residual waste from the annulus to an alternate DST by June 30, 2018. The Contractor shall earn \$250,000 of fee upon completion.

Work scope/completion criteria: Equipment installation will be considered complete when the jumper is installed in the AY-02A pit, the annulus pump HIHTL is connected to the pit, and the pit cover is in place. Operations will be considered complete when the residual annulus waste is removed to the limit of the annulus pump.

Completion document: Letter transmitting performance expectation completion notice, copy of the completed work package(s), and operations trend data documenting annulus waste removal.

**PBI-46.0 CLIN 1 Waste Feed Delivery Infrastructure Project Improvements**

**Performance Fee value is established at \$1,700,000 of the FY 2018 fee pool.**

**Fee Structure:** Terminal Method

<b>Milestone</b>	<b>Method</b>	<b>Fee Value</b>	<b>Due Date</b>	<b>Fund Type</b>
1	Terminal	\$250,000	September 30, 2018	Expense
2	Terminal	\$250,000	September 30, 2018	Expense
3	Terminal	\$850,000	September 30, 2018	Expense
4	Terminal	\$350,000	September 30, 2018	Expense
<b>Total</b>		<b>\$1,700,000</b>		

**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. Complete design of AP-105 for Tank Farm Upgrades by September 30, 2018. The Contractor shall earn \$250,000 of fee upon completion.

Work scope/completion criteria: The Contractor shall complete AP-105 design released in SmartPlant.

Completion document: Letter transmitting the performance expectation completion notice and the document control notice reflecting the issuance of the design media which may include: Field modification ECNs

- Project status installation/configuration drawings
- Equipment drawings to support fabrication
- Procurement specifications
- Supporting analyses.

2. Submit the 90% design submittal for AP-107 Tank Farm Upgrades by September 30, 2018. The Contractor shall earn \$250,000 of fee upon completion.

Work scope/completion criteria: The Contractor shall complete 90% AP-107 design for Tank Farm Upgrades.

Completion document: Letter transmitting the performance expectation completion notice

and the AP-107 Tank Farm Upgrades 90% Project Design Review Internal Memorandum as required per TFC-ENG-DESIGN-D-17.1.

3. Remove and installation of AP-105 equipment to support Tank Farm Upgrades by September 30, 2018. The Contractor shall earn \$850,000 upon completion.

Work scope/completion criteria: The Contractor shall complete the installation of the AP-105 transfer pump, electrical upgrades, jumper(s), tank return/drop leg, and two new transfer line nozzles to support the Tank Farm Upgrades project.

Completion document: Letter transmitting the performance expectation completion notice and the AP-105 work completed ECN(s).

4. Procure and fabricate AP-105 equipment to support Tank Farm Upgrades by September 30, 2018. The Contractor shall earn \$350,000 upon receipt of equipment.

Work scope/completion criteria: The Contractor shall receive AP-105 transfer pump, jumper(s), tank return/drop leg, wall nozzle spool pieces, to support the install of AP-105 Tank Farm Upgrades.

Completion document: Letter transmitting the performance expectation completion notice and the completed quality assurance inspection plans for the AP-105 equipment receipt and inspection for the transfer pump, jumper(s), and tank return/drop leg, and wall nozzle spool pieces.

**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, 2017, through September 30, 2018. 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.**

Factors for consideration in the contractor's performance will include, effective WRPS management at all levels, overall or specific risk reductions and contractor efficiencies (faster, reduced costs, etc.) created or generated in the conduct of work.

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 \$2,852,000 or 5.1% of the FY 2018 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
- 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, and effective decision-making.
2. Anticipating project challenges and providing timely resolution.
3. Effective communication with the workforce – to include tools such as the comprehensive vapors website, reader board, public announcements and other communication methods.
4. Maintain a high level of trust and confidence with the workforce.
5. Sustain an environment where employees have a questioning attitude and feel free to bring up issues without fear of retaliation.
6. Effectively manage the mission activities (such as work-planning and control, critical spares, and procurements) to avoid mission delays.

7. Seek methods to reduce worker risk, increase efficiency, standardize/streamline procedures and activities, and reduce the overall risk to mission accomplishment.

### **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. Seek methods to reduce worker risk, increase efficiency, standardize/streamline procedures and activities, and reduce the overall risk to mission accomplishment.

### **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.
4. Seek methods to reduce worker risk, increase efficiency, standardize/streamline procedures and activities, and reduce the overall risk to mission accomplishment.

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

**Performance Fee value is established at \$2,100,000 or 3.8% of the FY 2018 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. 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;
3. 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;
4. 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;
5. 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.
6. 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.
7. 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;

8. Maintain safe nuclear operations compliant with 10 CFR 830, Nuclear Safety Management.
9. Adequate flow-down and effective application of TOC Nuclear Safety requirements.

**Conduct of Engineering** – Sustaining and improving the effectiveness and consistent delivery of Engineering solutions, systems and programs.

1. Deliver effective and timely solutions to emerging Tank Farms technical issues as and when the need arises.
2. Provide efficient and effective Process Engineering support to Tank Farm projects and programs. Key tasks will include:
3. Maintain the backlog of Engineering Change Notices (ECNs) > 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 sustain ventilation system performance, maintaining 90 percent availability for active systems.
6. Implement additional enhancements to the SmartPlant® Foundation document control and configuration management system in support of the effective implementation of TOC processes.
7. Provide innovative engineering solutions that result in improved industrial safety and/or ALARA performance.
8. Continue improvements to the Engineering training and qualification program, including implementing engineering fundamentals training and updates to the Engineering Technical Staff, Cog System Engineer, and Shift Technical Engineer Qualification Cards.
9. Continue to monitor and improve Engineering Technical Rigor performance. Implement the recommendations of the technical rigor Common Cause Analysis (WRPS-PER-2017-1088).
10. Initiate a Reliability Centered Maintenance pilot program focusing on critical VTP components in the two double-shell tank farms. This pilot program will ideally be conducted over a multi-year period. Subject to funding, scope for FY 2018 includes:
  - Selecting and purchasing monitoring and analysis instrumentation.
  - Beginning data collection and testing of select technologies.
  - Issue interim report evaluating the initial efficacy of the select techniques on improving the reliability/availability of the critical components studied.

**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 \$2,100,000 or 3.8% of the FY 2018 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 as a key element of managing both capital projects and operational activities.

**Areas of Focus:** Includes Contractor's Cost/Schedule, Earned Value Management System (EVMS)/Reporting, Estimating System, 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 Management – Evaluate and utilize project performance data and cost and schedule metrics to support sound project management decisions, such as implementation of cost and schedule recovery initiatives as appropriate.

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 – Assesses the quality of planning including the conversion of planning packages to work packages, realization of risk or plan changes and associated baseline change control actions. Three principle measures of how planning is implemented into the PMB include:

- a. The quality of justifications and explanations provided in Baseline Change Requests
- b. Management processes to adapt to major adjustments in fiscal year funding, spend forecasts, and new scope direction
- c. Clear, timely, and effective communication of issues and the rationale for plan changes

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. 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. Segregate funding reporting for capital and operating dollars to ensure project funds traceability.

Excellence in 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 DOE EVMS guidelines including the Earned Value Management Interpretation Handbook (EVMSIH).

**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. 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:

- Administration of a surveillance approach that considers DOE PM-30 requirements and the automated testing protocol as applicable.
- Enhance EVMS surveillance to include protocol for continued compliance and improvement of “Qualified” CAMs through comprehensive CAM interview protocol, tracking and trending.
- Support the development and implementation of DOE-EM policies and EVMS related initiatives.

TOC Monthly Report – 1) Prepare and submit TOC Monthly Report on time and with high quality. Pursue continuous improvement in monthly performance review conducted in parallel with submission of the TOC Monthly Report.

Corrective Action Tracking/Closeout – Demonstrate proactive identification of variance conditions requiring corrective action and effective management of corrective actions to closure. Potential problems are identified and corrective actions are implemented to minimize cost/schedule impacts.

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. The contractor is proactive in assisting ORP with problem identification. Potential problems are identified and corrective actions are implemented to minimize cost/schedule impacts.

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, contingency and staging for contract disposition, as well as authorized unpriced work aging and tracking for definitization.

**Estimating System** – Maintain an estimating system in compliance with contractual and DOE requirements, including consideration of the Government Accountability Office 12-Step estimating process and best practices. DOE will assess the Contractor’s performance in:

- Incorporating enhancements or improvements to the estimating system based on the results of external reviews including estimating system audits and capital project peer reviews or independent cost estimates
- Completing estimating tasks necessary to progress towards upcoming critical decision points for the LAWPS capital project
- Use of 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).

**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:

Development and maintenance of active risk registers 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.
- Ensure contractor risk register updates occur, on average, at least once every 60 days, and all active risk registers are updated quarterly.
- Ensure the quality of regular monthly reporting of risks and opportunities.
- Execute contractor risk management processes, 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 to allow for effective risk handling/mitigation and elimination.(for example, a Monte Carlo or Schedule Risk Assessment).

**SEA 4: Quality Assurance Program**

**Performance Fee value is established at \$1,300,000 or 2.3% of the FY 2018 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 and TFC-PLN-50, Quality Implementation Plan);

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

**SEA 5: Nuclear Safety**

**Performance Fee value is established at \$1,300,000 or 2.3% of the FY 2018 fee pool.**

**Desired Outcome:** Effectively manage the Tank Farms safety basis and all nuclear activities in accordance with the safety basis.

**Areas of Focus for Safe Compliant Nuclear Operations**

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

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

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;

Un-reviewed Safety Question process compliance with 10 CFR 830.203, Unreviewed Safety Question Process and DOE Guide 424.1-1B, 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 \$1,300,000 or 2.3% of the FY 2018 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:

1. Establish and implement environmental performance metrics.
2. Prepare data and regulatory approaches on time and integrate them with associated Hanford Site regulatory compliance actions.
3. Provide on schedule and accurate input to Hanford Site environmental reports and Site-wide compliance initiatives.
4. Integrate permit and licensing document preparation activities with project schedules allowing adequate timeframes for DOE and regulatory review.
5. Minimize the number and seriousness of any non-compliances, infractions, or violations. Ensure responses to inspections are coordinated with facility operations and DOE, of high quality and on schedule.
6. Integrate DOE Sustainable Program Goals into WRPS planning and operations.
7. Coordinate environmental activities across the Tank Farms Contract (e.g., One System and Retrieval/Closure).

## **SEA 7: Safety Program Implementation**

**Performance Fee value is established at \$1,300,000 or 2.3% of FY 2018 fee pool.**

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

**Areas of Focus for 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 to allow for efficient radiological control point operations.
2. Improve radiological conduct of operations. Demonstrate procedure compliance by documented oversight. Emphasize 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.
  - Improve documentation of ALARA lessons from TOC work activities and incorporate those lessons into new TOC work activities.
  - Continue to develop innovative tools and processes to reduce dose.
  - Improve tracking of extremity dose through the year to better predict and reduce the dose taken.
4. Reduce radiological risk through appropriate management/reduction of radiological areas with high dose rates and levels of contamination.

### Industrial Health and Safety:

1. Plan and complete management-directed assessments of Industrial Safety and Industrial Hygiene programs to maintain an industry leading program. Plan and implement Program Procedure Review process. Document findings/observations using ATS (MOPs) system, the Safety and Health Field Surveillance System, or the Problem Evaluation Report (PER) system.
2. Conduct verification sampling of conex boxes and structures as required by the Hanford CDBPP (DOE-0342) and referenced sub-tier procedures (target of 28 to be sampled). Complete verification sampling of buildings as required by the Hanford CDBPP and referenced sub-tier procedure (target of 79 buildings or mobile offices). Move two beryllium controlled facilities (DOE-0342-002) to a beryllium cleared status. Complete beryllium assessments, maintain technical documents up to date and field implementation consistent with

the Hanford CBDPP.

3. 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.
4. Continue VPP sustainment actions, and complete the 2017 VPP Improvement actions.
5. The Contractor will continue industrial health and safety related outreach and benchmarking activities, at least one per quarter.
6. Hanford Site Programs will demonstrate support and effective implementation of revisions to these processes to drive continuous improvement.

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 an evaluated field 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 (e.g., power, radio, phone, HLAN network, cell phone, water).
3. Develop and perform a pilot of a standardized field response drill package of one Emergency Action Level (EAL) event. –The piloted drill package shall describe all elements of field response including, but not limited to;
  - a. Field FERO functions (FOS, RHA, CHA)
  - b. FERO support functions (NCO, HPT, IHT)
  - c. Emergency response trailer
  - d. Acquisition of and minimum number of required response personnel, materials, instruments, and PPE for existing EAL events
  - e. Firefighter doffing

Following the performance of the drill using the model package, perform an evaluation of the effectiveness of the response package along with a recommendation on whether to deploy to all emergency events to include a cost estimate.

## **SEA 8: Support for DFLAW and WTP Commissioning**

**Performance Fee value is established at \$1,300,000 or 2.3% of FY 2018 fee pool.**

**Desired Outcome:** Development of improved Management systems and technical support for WTP commissioning.

**Areas of focus for 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 ORP including procurement, communication, and reporting protocols that ensures technology maturation in support of the project schedules. Conduct an annual national laboratory coordination meeting and monthly conference calls to integrate the national laboratory efforts in support of the RPP mission. Utilize the prioritized technology development roadmap (accounting for ORP mission needs and priorities) to integrate with TOC Contractor mission planning documents (System Plan, Risk Management Plan, Comprehensive Vapor Action Plan, etc.) ORP's other prime contractors, ORP's Grand Challenge Competition, DOE-HQ technology development program, capture and record results of completed research on OSTI and document in the technology roadmap, and define and prioritize future TOC technology development initiatives. .

Project Management - Through the Project Management Office provide the processes, PM qualification, and direct project assistance to support effective delivery of TOC projects.

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

## **SEA 9: Contractor Assurance System (CAS)**

**Performance Fee value is established at \$1,300,500 or 2.3% of FY 2018 fee pool.**

**Desired Outcome:** Ensure focus is maintained on an effective CAS in accordance with DOE Order 226.1B, Implementation of Department of Energy Oversight Policy. 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. Aggressive 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. Additional trending data such as Occurrence Reporting and Processing System Reports, Problem Evaluation Requests, and Performance Indicators are established 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.
4. Independent evaluation of the CAS by entities such as corporate parent companies.
5. Open and continuous communication on issues identified with the CAS and/or programs that make up parts of the CAS.
6. Personnel are cognizant of and avoid at-risk behaviors and conditions. Senior Managers (Level 0, 1, 2) are proactive in identifying these behaviors; proactively identify non-compliances and opportunities for improvement; and correct 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.
7. Flow down of CAS implementation requirements to work performed by subcontractors.
8. Metrics are effectively used to provide an accurate picture of current performance against goals.

9. 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.

## **SEA 10: Integration and Implementation of Comprehensive Vapor Actions**

**Performance Fee value is established at \$2,100,000 or 3.8% of FY 2018 fee pool.**

**Desired Outcome:** Improve the WRPS company-wide Industrial Hygiene Program that identifies and abates industrial and occupational health hazards. Completed actions will support resolution of the tank vapor concerns at the Hanford Site and activities.

**Areas of Focus** includes integration and implementation of vapor program requirements and unrestricted work boundaries for defense-in-depth with WRPS Industrial Hygiene policies, programs, procedures, and communications. Industrial Hygiene policies, programs, procedures, and communications are effectively implemented in the field and consistent with Integrated Safety Management.

**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:

1. Implement those sections of the Industrial Hygiene Program Manual relating to institutionalizing vapor program requirements and IH programs, policies, procedures, best practices, program parity, communications, and training (Comprehensive Vapor Action Plan Key Performance Parameter 3). Support field implementation of vapor management program requirements including necessary evaluations of existing work package documentation and impacts as a result of this implementation.
2. Update the WRPS industrial hygiene training plan, and continue to make improvements to the IH training course materials to maintain industry leading industrial hygienists and industrial hygiene technicians.
3. Execute the comprehensive vapor management communication plan, engagement processes, and effectiveness measurements (Comprehensive Vapor Action Plan Key Performance Parameter 1). Create a quarterly report of the effectiveness of the communication plan (e.g., effectiveness of metrics, focus groups, surveys, CPPO notebooks, CVST, etc. and associated feedback.)
4. Maintain and enhance the unrestricted work boundaries process (Comprehensive Vapor Action Plan Key Performance Parameter 5).
5. Maintain and 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.

6. Clear roles and responsibilities are defined in writing and established for the Comprehensive Vapor Management Program (CVAP). Integration of CVAP elements is demonstrated between WRPS organizations.
7. Document that CVAP recommended actions, engineering studies, and laboratory studies, have been evaluated, meet SMART criteria, and have been accepted and implemented by the IH Program through an appropriate integration process.

**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: 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"/>		e. Explain reason for change here, if necessary: (required for Other)	
8. Section No. in PEMP of Change:			
9. Exact Wording: (rewrite the section with changes identified)			
10. Request Disposition: a. Accepted, Change Implemented <input type="checkbox"/> b. Accepted with Changes <input type="checkbox"/> c. Rejected <input type="checkbox"/> d. Other <input type="checkbox"/>		11. Comments: (including changes made, rejection reason, or other)	
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.

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

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