AMENDMENT OF SOLICITATION/MODIFIC			1. CONTRACT ID CODE		PAGE OF	PAGES
AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT				1	4
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PR	OJECT NO.	(If applicable)
111	See Block 16C	11EM	002790			
6. ISSUED BY CODE	00603	7. ADN	INISTERED BY (If other than Item 6)	CODE	0060	3
Office of River Protection		Offi	.ce of River Protecti	.on	•	
U.S. Department of Energy		U.S.	. Department of Energ	у		
Office of River Protection		Off	ice of River Protecti	.on		
P.O. Box 450			. Box 450			
Richland WA 99352 MS: H6-60						
			nland WA 99352			
8. NAME AND ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x) <sup>9A.</sup>	AMENDMENT OF SOLICITATION NO.			
WASHINGTON RIVER PROTECTION	SOLUTIONS LLC					
Attn: DUANE SCHMOKER		9B.	DATED (SEE ITEM 11)			
PO BOX 73						
720 PARK BLVD				<u></u>		
BOISE ID 837290001			A. MODIFICATION OF CONTRACT/ORD D-AC27-08RV14800	EK NO.		
		10	B. DATED (SEE ITEM 13)			
CODE 806500521	FACILITY CODE	<sub>0</sub>	5/29/2008			
	11. THIS ITEM ONLY APPLIE					
Items 8 and 15, and returning cc separate letter or telegram which includes a referenc THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an off to the solicitation and this amendment, and is received 12. ACCOUNTING AND APPROPRIATION DATA ( <i>If re</i>	e to the solicitation and amendmen OFFERS PRIOR TO THE HOUR A er already submitted, such change ad prior to the opening hour and dat	t numbers. FA AND DATE SP may be made	ECIFIED MAY RESULT IN REJECTION	T TO BE RE	ECEIVED AT	
See Schedule						
13. THIS ITEM ONLY APPLIES TO R	MODIFICATION OF CONTRACTS/C	ORDERS. IT M	ODIFIES THE CONTRACT/ORDER NO. A	AS DESCRIE	BED IN ITEM	14.
CHECK ONE A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority	/) THE CHANG	GES SET FORTH IN ITEM 14 ARE MADI	E IN THE CO	ONTRACT	
B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	ACT/ORDER IS MODIFIED TO REF TH IN ITEM 14, PURSUANT TO TH	FLECT THE AL	MINISTRATIVE CHANGES (such as cha ( OF FAR 43.103(b).	anges in pay	ving office,	
C. THIS SUPPLEMENTAL AGREEME	NT IS ENTERED INTO PURSUAN	T TO AUTHOR	ITY OF:			
X FAR 52.243-2, Change	es-Cost Reimbursem	nent (AU	G 1987)			
D. OTHER (Specify type of modificatio	n and authority)					
·						
E. IMPORTANT: Contractor	x is required to sign this docum	nent and return	2 copies to the	issuing offic	e.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION	N (Organized by UCF section head	ings, including	solicitation/contract subject matter where	feasible.)		
See continuation pages.						

Attached to this modification are the replacement pages for Section I, page I-4, Section J, Attachment J.2, Page J.2-6, and Section J.4, Attachment J.4 in its entirety. Period of Performance: 06/20/2008 to 09/30/2013

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A. NAME AND TITLE OF SIGNER (*Type or print*)

Abus B. Dunnic Konteret May	Susan E. Bechtol
15B. CONTRACTORIOFERRIAR . 15C. DATESIGNE	D 16B. UNITED STATES OF AMERICA . / 16C. DATE SIGNED
	ORIGINAL SIGNED BY
NSN 7540-01-152-8070	STANDARD FORM 30 (REV. 10-83)
Previous edition unusable	Prescribed by GSA FAR (48 CFR) 53.243

#### **Purpose of Modification:**

The following changes are hereby incorporated into the contract:

1. Update Section I, Contract Clauses, Clause I.71 to remove FAR 52.226-1, Utilization of Indian Organizations and Indian-Owned Economic Enterprises (Jun 2000). The change is as follows:

#### FROM:

I.70B	FAR 52.225-24	Notice of Required Use of American Iron, Steel, and	Full Text
		Other Manufactured GoodsBuy American Act Construction Materials under Trade Agreements.	
-		(Mar 2009)	~~~
I.71	FAR 52.226-1	Utilization of Indian Organizations and Indian- Owned Economic Enterprises (Jun 2000)	None
I.72	FAR 52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement (Dec 2007)	None

#### <u>TO:</u>

I.70B	1	Notice of Required Use of American Iron, Steel, and Other Manufactured GoodsBuy American Act Construction Materials under Trade Agreements. (Mar 2009)	Full Text
I.71	Reserved		
I.72	FAR 52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement (Dec 2007)	None

2. Update Section J, Attachment J.2 to add Department of Energy (DOE) Order (O) 225.1B, Accident Investigations with no cost impact to the government. The change is as follows:

#### FROM:

DOE O 225.1A	Accident Investigations

#### <u>TO:</u>

DOE O 225.1B	Accident Investigations	3
	i teeraent in estiganons	

3. This modification also clarifies the total available fee pool for work scope authorized by DOE in accordance with contract clause B.14, DOE Authorization of Work. The total available fee pool for the base contract work scope is \$77,493,000. The table below shows the work scope that DOE has not authorized yet or, as in the case of sub-CLIN 4.3, has been authorized but the price (cost and fee) has not been negotiated:

Base Period - CLINS not authorized or revised price not definitized yet							
(\$ in Thousands)							
				FY	FY		
	FY 2009	FY 2010	FY 2011	2012	2013	Totals	
Sub-CLIN 3.4	\$16,536	\$17,333	\$23,879	\$19,024	\$15,145	\$91,917	
Sub-CLIN 4.1	\$49,228	\$37,388	\$19,799	\$13,895	\$4,689	\$124,999	
Sub-CLIN 4.2	\$0	\$0	\$22	\$308	\$6,353	\$6,683	
Sub-CLIN 4.3	\$0	\$101	\$382	\$389	\$9,149	\$10,021	
Sub-CLIN 4.4	\$0	\$104	\$396	\$471	\$676	\$1,647	
Sub-CLIN 4.5	\$9,533	\$5,686	\$17,008	\$9,751	\$9,932	\$51,910	
Sub-CLIN 5.1	\$34,118	\$6,848	\$2,674	\$1,973	\$2,648	\$48,261	
Sub-CLIN 5.2	\$0	\$34,417	\$49,008	\$43,452	\$35,379	\$162,256	
Sub-CLIN 5.3	\$0	\$0	\$0	\$0	\$0	\$0	
Sub-CLIN 5.4	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	
Subtotal	\$109,415	\$101,877	\$113,168	\$89,263	\$83,971	\$497,694	
Fee reduction (7.5% of							
costs)	\$8,206	\$7,641	\$8,488	\$6,695	\$6,298	\$37,327	

The fee adjustment has been applied to fiscal years 2012 and 2013, as shown in the table below:

	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Totals
Total Available Fee from B.4-1 Table	\$16,187	\$24,604	\$23,180	\$27,367	\$23,482	\$114,820
Fee Reduction	\$0	\$0	\$0	-\$13,845	-\$23,482	-\$37,327
Available Fee for Authorized CLINS	\$16,187	\$24,604	\$23,180	\$13,522	<b>SO</b>	\$77,493
nnmen Jahon moosa ga an an ann an garaga ga da para an targan din da ay sigila da	(Maintain Available Fee FY 09-11)			(reductio	n taken in F	Y 12 & 13)

The costs for Contract Line Item Numbers (CLINS) 4 and 5 and sub-CLIN 3.4 were established by DOE (government estimated costs) and are not the result of the contractor's proposal at time of the contract award. The fee associated with these costs was based on the contractors proposed fee rate of 7.5% for the purpose of establishing a total contract value at award. Before or at the time when DOE directs the contractor to proceed with work on these CLINS, DOE and the contractor are required to negotiate the price (cost and fee) for these sub-CLINS. At this time, DOE has only authorized the contractor to proceed on sub-CLIN 4.3 but the price for sub-CLIN 4.3 has yet to be negotiated. Therefore the fee for these CLINS and sub-CLINS is not available to be earned at this time. As a result of this clarification on the current available fee, the Performance

#### Contract Number DE-AC27-08RV14800 Continuation Page, Modification 111

Evaluation Measurement Plan (PEMP) must also be adjusted to reduce the amount of fee on numerous performance based incentives (PBI). The available fee pool will be further adjusted as DOE and the contractor negotiate proposals for changed scope, including proposals for CLINS 4 and 5 and sub-CLIN 3.4, and DOE authorizes work under these CLINS in accordance with clause B.14.

- 4. Replace Section J, Attachment J.4, Performance Evaluation and Measurement (PEMP) Plan in its entirety with Revision 5 of the PEMP. The revised PEMP adds the Fiscal Year (FY) 2011 Award Fee Plan and reduces the current base period fee pool by \$37.3 million. The revised PEMP is attached, in its entirety, to this modification.
- 5. <u>Contractor's Statement of Release</u>- In consideration of the modifications agreed to herein as complete equitable adjustments for the incorporation of DOE O 225.1B with no cost impact to DOE, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the incorporation of this DOE Order.
- 6. Attached to this modification are replacement pages for the following sections:
  - Section I, pages I-4
  - Section J, Attachment J.2, Page J.2-6
  - Section J.4, Attachment J.4 in its entirety
- 7. All other Terms and Conditions remain unchanged.

## **Replacement Pages**

## (Total: One Hundred and Six (106) including this Cover Page)

- Section I, page I-4
- Section J, Attachment J.2, Page J.2-6
- Section J.4, Attachment J.4 in its entirety

Clause No.	FAR/DEAR Reference	Title	Fill-In Information (see FAR 52.104(d))
.59A	FAR 52.223-2	Affirmative Procurement of Bio-Based Products under Services and Construction Contracts (Dec 2007)	None
.60	FAR 52.223-3	Hazardous Material Identification and Material Safety Data (Jan 1997) – Alternate I (Jul 1995)	(b) Offeror fill-ir
.61	FAR 52.223-5		None
.62	FAR 52.223-10	Waste Reduction Program (Aug 2000)	None
.63	FAR 52.223-11	Ozone-Depleting Substances (Mar 2001) (see full text version in Section I)	(b) Offeror fill-ir
.64	FAR 52.223-12	Refrigeration Equipment and Air Conditioners (May 1995)	None
.65	FAR 52.223-14	Toxic Chemical Release Reporting (Aug 2003)	None
.65A	FAR 52.223-16	IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (Dec 2007) Alt I (Dec 2007)	None
.65B	FAR 52.223-15	Energy Efficiency in Energy Consuming Products (Dec 2007)	None
l.65C	FAR 52.223-17	Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts (May 2008)	None
1.66	FAR 52.224-1	Privacy Act Notification (Apr 1984)	None
1.67	FAR 52.224-2	Privacy Act (Apr 1984)	None
1.68	FAR 52.225-1	Buy American Act – Supplies (Jun 2003)	None
1.69	FAR 52.225-11	Buy American Act – Construction Materials Under Trade Agreements (Aug 2007) (see full text version in Section I	(d) Offeror fill-
1.70	FAR 52.225-13	Restrictions on Certain Foreign Purchases (Feb 2006)	None
1.70A	FAR 52.225-23	Required Use of American Iron, Steel, and Other Manufactured GoodsBuy American ActConstruction Materials under Trade Agreements (Mar 2009)	Full Text
I.70B	FAR 52.225-24	Notice of Required Use of American Iron, Steel, and Othe Manufactured GoodsBuy American ActConstruction Materials under Trade Agreements. (Mar 2009)	er Full Text
1.71	Reserved		
1.72	FAR 52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement (Dec 2007)	None
1.73	FAR 52.227-3	Patent Indemnity (Apr 1984)	None
1.74	FAR 52.227-9	Refunds of Royalties (Apr 1984)	None
1.75	DEAR 952.227-82	Rights to Proposal Data (Apr 1994)	Offeror fill-in
1.76	FAR 52.230-2	Cost Accounting Standards (Apr 1998)	None
1.77	FAR 52.230-6	Administration of Cost Accounting Standards (Apr 2005)	None
1.78	FAR 52.232-9	Limitation on Withholding of Payments (Apr 1984)	None
1.79	FAR 52.232-12	Advance Payments (May 2001) Alt II (May 2001) (see fu text version in Section I)	// (a), (b), (c) (e (p) (8), (13), (14). Fill-in information is

Document Number	Title
	International Atomic Energy Agency
DOE M 142.2-1	Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency
DOE O 142.3 A	Unclassified Foreign Visits and Assignments Program
DOE N 144.1	Change to DOE Order 1230.2
DOE O 150.1	Continuity Programs
DOE O 151.1C	Comprehensive Emergency Management System
DOE O 153.1	Departmental Radiological Emergency Response Assets
DOE O 200-1A	Information Technology Management
DOE O 203.1	Limited Personal Use of Government Office Equipment Including Information
DOE O 205.1A	DOE Cyber Security Management
DOE M 205.1-4	National Security System Manual
DOE O 206-1	Department of Energy Privacy Program
DOE N 206.4	Personal Identity Verification
DOE N 206.5	Response and Notification Procedures for Data Breaches Involving Personally Identifiable Information
DOE O 210.2	DOE Corporate Operating Experience Program
DOE O 221.1A	Reporting Fraud, Waste, and Abuse to the Office of Inspector General
DOE O 221.2A	Cooperation With the Office of the Inspector General
DOE O 225.1B	Accident Investigations
DOE O 226.1A	Implementation of DOE Oversight Policy
DOE G 231.1-1	Occurrence Reporting and Performance Analysis Guide
DOE M 231.1-1A, Chg 2	Environment, Safety, and Health Reporting Manual
DOE O 231.1A Chg 1	Environment, Safety and Health Reporting
DOE M 231.1-2	Occurrence Reporting and Processing of Operations Information
DOE N 234.1	Reporting of Radioactive Sealed Sources
DOE O 241.1A, Chg 1	Scientific and Technical Information Management
DOE O 243.1	Records Management Program
DOE O 243.2	Vital Records
DOE M 250.1-5, Chg 2	Cyber Security Process Requirements Manual
DOE M 250.1-6, Chg 2	Media Sanitization Manual
DOE M 250.1-7, Chg 2	Security Controls for Unclassified Information Systems Manual
DOE M 250.1-8, Chg 2	Cyber Security Incident Management Manual
DOE O 251.1C	Departmental Directives Program
DOE O 252.1	Technical Standards Program
DOE O 350.1, Chg 3	Contractor Human Resource Management Program
DOE O 413.1A	Management Control Program
Reserved	
DOE O 413.3B	Program and Project Management for the Acquisition of Capital Assets
DOE O 414.1C	Quality Assurance

#### ATTACHMENT J.4

## PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)

## PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP) FOR THE TANK OPERATIONS CONTRACT

Rev 5

#### Tank Operations Contract

#### Performance Evaluation and Measurement Plan

The Performance Evaluation and Measurement Plan (PEMP) detail the administration of performance measures and allocation of *Total Available Fee* as defined in Section B, *Supplies or Services and Prices/Costs*.

#### 1. PERFORMANCE MEASURES

Each performance measure will set forth the specific requirements, criteria and/or specifications for acceptable performance of an outcome and the amount of fee assigned to the individual performance measure (See PEMP Table 4-1 for a summary of work requirements that may be targeted for performance measure's).

#### 2. ALLOCATION OF AVAILABLE FEE

DOE will heavily weight the assignment of fee toward meeting production goals, such as treatment of waste and end-product goals, such as the retrieval of single-shell tank (SST) waste, treatment of tank waste, closure of SSTs, closure of SST Farms and full operational status constructed facilities.

#### 3. PERFORMANCE MEASURE FEE STRUCTURE METHODS

- Each performance measure may have a distinct fee structure to incentivize maximum performance and resource utilization by the Contractor. Individual performance measures may require the contractor to exceed approved baseline performance to earn 100 percent (%) of the fee allocated to that performance measure. DOE is not limited to the following list of Fee Structure Methods and may combine elements of multiple fee structures. Regardless of the Fee Structure Method used, payment of fee is subject to the fee reduction terms of this Contract, and Fee Determining Official (FDO) approval that the Contractor has achieved the stated outcome for the specific performance measure.
  - (a) <u>Straight-line Method</u>: This method provides a 100% incremental fee for completion of the performance measure prior to the expiration of the Contract period.
  - (b) <u>Declining Method</u>: This method provides 100% incremental fee for completion of the performance measure by a specific date and/or milestone, but the percentage is reduced incrementally beyond that event. The specific percentage of reduction and corresponding time or specific milestones triggering the reductions are defined within the performance measure.
  - (c) <u>Terminal Method</u>: This method provides 100% incremental fee for completion of the performance measure prior to a specific date and/or milestone; however, the Contractor will forfeit 100% 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.

- (d) <u>Provisional Dependent Method</u>: This method provides the Contractor the opportunity to earn only *Provisional Fee* until completion of a specific milestone, a separate performance measure or multiple performance measure's, upon which the fee becomes progress or final. For example, the Contractor may complete performance measure-1, earn 90% of the fee as *Provisional*, then complete performance measure-2 and earn the associated fee for performance measure-2, as well as convert the *Provisional Fee* earned for performance measure-1 to an incremental fee.
- (e) <u>Subjective Method</u>: This method provides the Contractor the opportunity to earn up to 100% fee for performance of Contract requirements based on subjective criteria as determined by DOE.
- (f) <u>Target Method</u>: This method provides for the initially negotiated fee to be adjusted later by a formula based on the relationship of performance measures against the baseline. This method specifies a target baseline performance, a target fee, minimum and maximum fees, and a fee adjustment formula. After performance, the fee payable is determined in accordance with the formula. The formula provides, within limits, for increases in fee above target fee when baseline performance is exceeded, and decreases in fee below target fee when baseline performance is not achieved. This increase or decrease is intended to provide an incentive for the Contractor to management the Contract effectively.
- 4. Table 4.1 summarizes the Contract work requirements that may become fee-bearing via performance measures. This table establishes a conceptual framework as a basis for development of future performance measures in accordance with Section B Clause entitled, *Fee Structure*.
- 5. Table 4.1 includes DOE's estimated range of available fee allocation. This table will be used as a guide in establishing available fee allocation among performance incentives for the work contained in each Sub-CLIN. This table is only a guide and actual fee allocation during contract performance will vary. Individual performance incentives within each Sub-CLIN will be assigned fee based on performance risk and other factors.

If the workscope within a Sub-CLIN is impacted by a change in the WBS, the estimated available fee allocation percentages may be adjusted at the unilateral discretion of the Contracting Officer.

OBJECTIVE	OUTCOMES <sup>1</sup>	POTENTIAL MEASURES	Estimated Weight of Total Available Fee				
CLIN 1 – Base Operations							
C.2.1.1 Sub-CLIN 1.1 Transition	Safe and efficient transition of workscope from the Tank Farm Contract to the Tank Operations Contract	<ul> <li>No fee attached directly to this scope</li> <li>Required to successfully perform other CLINs</li> </ul>	No Fee				
C.2.1.2 Sub-CLIN 1.2 Safe, Compliant Operations	Safe, efficient, and compliant management of the tank waste inventory and all physical systems to support River Protection Project (RPP) System Plan requirements	<ul> <li>Increased operability and availability of tank farm infrastructure</li> <li>Safe and efficient tank farm operations</li> <li>Double-Shell Tank (DST) life baselined and extended</li> <li>Reduction of sodium addition to DSTs</li> <li>Baseline costs reduced</li> </ul>	5%				
C.2.1.3 Sub-CLIN 1.3 Analytical Laboratory Support	Optimal facility availability to support timely, cost-effective laboratory analysis	<ul> <li>No fee attached directly to this scope</li> <li>Required to successfully perform CLINs 1.2, 2.1 and 2.2</li> </ul>	No Fee				
CLIN 2 – Single-She	ll Tank (SST) Retrieval and Closure						
C.2.2.1 Sub-CLIN 2.1 Single-Shell Tank Retrieval	Tank wastes are safely removed from selected single-shell tanks (SSTs) to the extent required in the Tri-Party Agreement (TPA), thereby facilitating SST farm closure while assisting with the optimization of DST space and staging of tank waste for future treatment	<ul> <li>Retrieve waste from SSTs; B-104, B-201, B-202, B- 203, B-204, BY-101, C- 101, C-102, C104, C105, C-107, C-110, C-111, C- 112, S105, S-109,T-104, T-110, T-111, T-201, T- 202, T-203, T-204, U-103, U-201, U-202, U-203, U- 204, etc.</li> <li>Volume of waste removed</li> <li>Number of tanks ready for closure</li> </ul>	18%				

<sup>&</sup>lt;sup>1</sup> Any features of the Offeror's proposed strategy and approach may be implemented as first and subsequent years' performance measures for the PEMP.

OBJECTIVE	OUTCOMES <sup>1</sup>	POTENTIAL MEASURES	Estimated Weight of Total Available Fee
C.2.2.2 Sub-CLIN 2.2 Single-Shell Tank Farm (Waste Management Area) Closure	Closure of the waste management areas containing the SST farms	<ul> <li>Resource Conservation and Recovery Act of 1976 (RCRA)-compliant closure of C Tank Farm Waste Management Area</li> <li>RCRA-compliant closure of additional Waste Management Areas</li> </ul>	6%
CLIN 3 – Waste Trea	tment and Immobilization Plant (W7	P) Support	
C.2.3.1 Sub-CLIN 3.1 Treatment Planning, Waste Feed Delivery, and WTP Transition	Implementation of the RPP System Plan and performance of required waste feed delivery	<ul> <li>Operability and availability of waste delivery systems as required</li> <li>Tank waste staged for delivery</li> <li>Delivery of tank waste</li> </ul>	4%
C.2.3.2 Sub-CLIN 3.2 WTP Operational Readiness	Evaluate the operational readiness of the WTP construction project to support safe, efficient turnover of completed facilities.	• Five WTP topical reports signed by the Responsible Corporate Official	<1%
C.2.3.3 Sub-CLIN 3.3 Immobilized High Level Waste (IHLW) Storage and Shipping Facility Construction	The capability to safely store IHLW and the means to prepare Hanford IHLW and Spent Nuclear Fuel for compliant shipment to the Yucca Mountain Project	<ul> <li>Completion of IHLW storage and shipping facility design</li> <li>Completion of IHLW storage and shipping facility construction and permitting</li> <li>Successful completion of Critical Decision (CD)-0 though CD-4 and Operational Readiness Review</li> <li>IHLW storage and shipping facility is operational and receiving IHLW</li> </ul>	2%
CLIN 4 – Supplemei	ntal Treatment		
C.2.4.1 Sub-CLIN 4.1 Demonstration Bulk Vitrification System (DBVS) Construction and Operations	An operable pilot scale bulk vitrification system that will enable DOE to determine if bulk vitrification is a viable supplemental Low Activity Waste (LAW) treatment process for completing the RPP mission	<ul> <li>Completion of DBVS Design</li> <li>Completion of DBVS Construction and permitting</li> <li>Operation of DBVS</li> <li>Completion of DBVS testing objectives</li> </ul>	4%

OBJECTIVE	OUTCOMES <sup>1</sup>	POTENTIAL MEASURES	Estimated Weight of Total Available Fee
C.2.4.2 Sub-CLIN 4.2 Extended Demonstration Bulk Vitrification System Operations	To treat and immobilize tank waste as part of the RPP System Plan, and to transfer the immobilized waste to an on-site disposal facility	<ul> <li>Complete permitting for bulk vitrification system</li> <li>Operation of bulk vitrification system by volume of waste treated</li> </ul>	3%
C.2.4.3 Sub-CLIN 4.3 Supplemental Treatment Design	Design of supplemental treatment plant(s) that augment the WTP, thereby expediting mission completion	<ul> <li>Completion of supplemental treatment plant(s) conceptual design</li> <li>Successful completion of CD-0, CD-1, and CD-2</li> <li>Completion of supplemental treatment plant(s) early permitting</li> </ul>	1%
C.2.4.4 Sub-CLIN 4.4 Supplemental Treatment Construction and Operations	Construction and operation of supplemental treatment plant(s) to augment the WTP, thereby expediting mission completion	<ul> <li>Completion of treatment plant(s) design</li> <li>Completion of treatment plant(s) construction and permitting</li> <li>Completion of treatment plant(s) CD-3, CD-4, and Operational Readiness Review</li> <li>Treatment plant(s) operations by volume of waste treated and staged for treatment</li> </ul>	20%
C.2.4.5 Sub-CLIN 4.5 Transuranic Tank Waste Treatment and Packaging	Safe packaging, characterization, and loading for shipment of transuranic tank waste to its appropriate repository, thereby reducing the volume of tank waste that must be immobilized in the WTP or other treatment facilities	<ul> <li>Volume of waste removed and treated</li> <li>Volume of waste shipped off-site</li> <li>Number of tanks ready for closure</li> </ul>	3%
CLIN 5 – Early Feed	and Operation of the WTP Low Act	ivity Waste (LAW) Facility	
C.2.5.1 Sub-CLIN 5.1 Tank Selection, Retrieval, Pretreatment and Feed Delivery Design	Evaluation and Design of retrieval, pretreatment and feed delivery systems to facilitate early use of WTP LAW treatment capabilities	<ul> <li>Completion of conceptual design to maximize total tank waste treated using measures such as volume, curies and sodium</li> <li>Successful completion of CD-0, CD-1, and CD-2</li> <li>Completion of up front permitting</li> </ul>	30%

OBJECTIVE	OUTCOMES <sup>1</sup>	POTENTIAL MEASURES	Estimated Weight of Total Available Fee
C.2.5.2 Sub-CLIN 5.2 Retrieval, Pretreatment and Feed Delivery Construction and Operations	Complete Design and Construction of retrieval, pretreatment and feed delivery systems, and Operate to stage and/or deliver feed for WTP LAW	<ul> <li>Completion of design</li> <li>Successful completion of CD-3, CD-4, and Operational Readiness Reviews</li> <li>Completion of permitting</li> <li>Operate systems to provide pretreated waste to WTP LAW and/or stage for delivery</li> </ul>	
C.2.5.3 Sub-CLIN 5.3 Upgrade and Operate Effluent Treatment Facility (ETF)	Transition operations of ETF into this contract and upgrade facility to process WTP secondary waste	<ul> <li>Operability and availability of waste treatment systems as required</li> <li>Treatment of WTP, Tank Farms, and other Hanford waste</li> </ul>	
C.2.5.4 Sub-CLIN 5.4 LAW/BOF/LAB Operations	Manage, maintain and operate the LAW/BOF/LAB Facilities	<ul> <li>Operate LAW/BOF/LAB to treat tank waste for disposal</li> <li>Maximize tank waste treated using measures such as volume, curies and sodium</li> </ul>	
CLIN 6 – Pension ar	nd Welfare Plans		
C.2.6 Sub-CLIN 6.1 Hanford Employee Retirement and Benefit Plan Management and Sub-CLIN 6.2 Legacy Pension and Benefit Plan Management	Effective sponsorship, management and administration of Hanford Employee Retirement and Benefit Plans Effective sponsorship, management and administration of designated Legacy Pension and Benefit Plans from other DOE sites	<ul> <li>No fee attached directly to this scope</li> </ul>	No Fee

OBJECTIVE	OUTCOMES <sup>1</sup>	POTENTIAL MEASURES	Estimated Weight of Total Available Fee
C All elements of scope	Overall performance effectiveness, quality, timeliness, efficiency, compliance and safety.	<ul> <li>Completion of Contractor Performance Objectives, Measures and Commitments</li> <li>Upgrade of facility Voluntary Protection Program status</li> <li>Nuclear Safety Analysis and Process Improvements</li> <li>Industrial Safety Process Improvements</li> <li>Subjective determination, cross-cutting all scope, not otherwise incentivized.</li> </ul>	4%

- 6. In accordance with the Section B Clause entitled, *Changes to Contract Cost and Contract Fee*, if for any reason the Contracting Officer does not authorize work in accordance with the Section B Clause entitled, *DOE Authorization of Work*, the *Total Available Fee* as a percentage of *Total Contract Cost* by Contract Period, excluding nonfee bearing costs identified in the Section B Clause entitled, *Basis for Total Available Fee*, may be adjusted.
- 7. In accordance with the Section B Clause B.7 (a) entitled, Fee Structure, Hanford Tank Farm performance measures are provided in the following attachments:

J.4 Attachment 1: Performance Measures for Base Contract Period Effective FY2009-2010

J.4 Attachment 2: Performance Measures for Base Contract Period Effective FY2010-2013

## Section J.4 Performance Evaluation and Measurement Plan (PEMP)

# Attachment 1–Performance Measures for Base Contract Period Effective: FY 2009-2010

## Summary Table of Performance Based Incentives and Award Fee Elements

PBI No.	Title	Туре	Value of PBI/Element	Completion Due Date	PBI Revision	Contract Mod
PBI 1.1.1	A 242-A evaporator campaign 240,000 gallon waste volume reduction	Incremental	\$200,000	9/30/2009	0	M009
PBI 1.1.2	A 242-A evaporator campaign 240,000 gallon waste volume reduction	Incremental	\$500,000	9/30/2009	0	M009
PBI 1.1.3	A 242-A evaporator campaign 240,000 gallon waste volume reduction	Incremental	\$800,000	9/30/2009	0	M009
PBI 1.2.1	Complete work to increase the rated maximum tank level in DST AP-103	Incremental	\$500,000	9/30/2009	0	M009
PBI 1.3.1	Perform 222-S Laboratory Upgrades. Complete design and installation of the fire detection system and 219S overflow protection for the 2nd floor of the 222-S building	Incremental	\$200,000	9/30/2009	0	M009
PBI 1.3.2	Perform DST Upgrade, AW-B pit gear actuated valves	Incremental	\$150,000	9/30/2009	0	M009
PBI 1.4.1	Successfully Complete Phase I and Phase II Verification of ISM System Implementation	Incremental	\$500,000	9/30/2009	0	M009
PBI 1.5.1	Remove Liquids from the secondary containment of the 244-CR Vault. Perform all necessary sealing activities to protect the 244-CR Vault from intrusion of liquids	Incremental (MULTI-YEAR)	\$350,000	9/30/2010	1	M021
PBI 1.6.1	Remove liquids from the UX-302A catch tank. Perform all necessary sealing activities to protect the catch tank from intrusion of liquids	Incremental	\$250,000	9/30/2009	0	M009
PBI 1.6.2	Investigate source of water intrusion and recommend isolation options	Incremental	\$100,000	9/30/2009	0	M009
PBI 1.7.1	Plan and Execute multi-depth sample supernatant and analyze.	incremental	\$100,000	9/30/2009	0	M013
PBI 1.7.2	Based on analysis results, adjust appropriate amount of caustic within limits or if not needed.	incremental	\$150,000	9/30/2009	0	M013
PBI 1.7.3	Plan and execute follow-up multi-depth grab sample and analyze; if no caustic addition is required or more samples	incremental	\$100,000	9/30/2009	0	M013
PBI 1.7.4	Evaluate compliance with waste chemistry limits and document results	incremental	\$50,000	9/30/2009	0	M013
PBI 2.1.1	Complete C-104 Construction	Incremental	\$1,600,000	9/30/2009	2	M021
PBI 2.1.2	Initiate C-104 Retrieval	Incremental	\$500,000	9/30/2009	2	M025
PBI 2.1.3	C-104 Retrieval - 50%, (\$100,000 incremental for each 5% between 25 and 50%)	Incremental (MULTI-YEAR)	\$500,000	9/30/2010	2	M021
PBI 2.1.4	Milestone Deleted	-			2	M021
° PBI 2.2.1	Complete C-110 Construction	Incremental	\$1,000,000	9/30/2009	0	M009
PBI 2.2.2	C-110 Retrieval - 50%	Incremental	\$500,000	9/30/2009	0	M009
PBI 2.2.3	C-110 Retrieval	Incremental	\$1,000,000	9/30/2009	0	M009

#### Tank Operations Contract Contract No. DE-AC27-08RV14800

PBI No.	Title	Туре	Value of PBI/Element	Completion Due Date	PBI Revision	Contract Mod
PBI 2.3.1	Complete sampling per new Tank Sample Analysis Plan (TSAP)	Incremental	\$150,000	9/30/2009	2	M021
PBI 2.3.2	Milestone Deleted				2	M021
PBI 2.4.1	Milestone Deleted				1	M021
PBI 2.4.2	Milestone Deleted				1	M021
PBI 2.5.1	Complete removal of the interim stabilization hose-in-hose transfer line (HIHTL) from U- 108 valve pit to U-D valve pit (RBHS-2EHT- 4EINS) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.2	Complete shipping of the HIHTL RBHS- 2EHT-4EINS	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.3	Complete removal of the interim stabilization HIHTL from U-107 valve pit to U-D valve pit HIHTL RBHS-2MHT-4MINS) package for shipping	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.4	Complete shipping of the HIHTL RBHS- 2MHT-4MINS	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.5	Complete removal of the interim stabilization HIHTL from U-111 valve pit to U-D valve pit CHG-2NHT-4NINS) package for shipping	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.6	Complete shipping of the HIHTL CHG- 2NHT-4NINS	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.7	Complete removal of the interim stabilization HIHTL from 244-AR valve pit to 241-AR-151 valve pit CHG-2UHT-4UINS) package for shipping	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.8	Complete shipping of the HIHTL CHG- 2UHT-4UINS	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.9	Complete removal of the interim stabilization HIHTL from 241-U-09A valve pit to 241-U- 09B valve pit and package for shipping	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.10	Complete shipping of the HIHTL 241-U-09A valve pit to 241-U-09B valve pit	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.11	Complete removal of the interim stabilization HIHTL from U-D valve pit to SY (1) valve pit (I-49637-0-10) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.12	Complete shipping of HIHTL I-49637-0-10	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.13	Complete removal of the retrieval HIHTL from C-06B pit to C06A pit (I-19643-5 ) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.14	Complete shipping of HIHTL I-19643-5	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.15	Complete removal of the retrieval HIHTL from C-106 pit to C103 pit area (I-19643-2) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.16	Complete shipping of HIHTL I-19643-2	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.17	Complete removal of the retrieval HIHTL from POR104 area to C-103 pump area (I- 52355-0-1) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.18	Complete shipping of HIHTL I-52355-0-1	incremental	\$20,000	9/30/2009	1	M013

#### Tank Operations Contract Contract No. DE-AC27-08RV14800

PBI No.	Title	Туре	Value of PBI/Element	Completion Due Date	PBI Revision	Contract Mod
PBI 2.5.19	Complete removal of the retrieval HIHTL from POR104 area to C-103 sluicer pit (I- 52355-0-2) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.20	Complete shipping of HIHTL I-52355-0-2	incremental	\$20,000	9/30/2009	1	M013
PBI 2.5.21	Complete removal of the retrieval HIHTL fromC103 heel pit to POR104 area (I- 52355-0-3) package for shipment	incremental	\$80,000	9/30/2009	1	M013
PBI 2.5.22	Complete shipping of HIHTL I-52355-0-3	Incremental	\$20,000	9/30/2009	1	M013
PBI 2.6.1	Complete the near-surface vadose zone characterization for new barrier site in TY Farm by September 30, 2009	Incremental	\$300,000	9/30/2009	1	M013
PBI 2.6.2	Deploy Surface Geophysical Exploration in tank farms S/SX	Incremental	\$250,000	9/30/2009	11	M013
PBI 2.6.3	Deploy Surface Geophysical Exploration in C tank farm	Incremental	\$150,000	9/30/2009	1	M013
PBI 2.6.4	Complete Design of TY Surface Barrier (NOTE: subject to re-negotiation if characterization determines TY Barrier ineffective)	Incremental	\$300,000	9/30/2009	1	M013
PBI 2.6.5	Complete the near-surface vadose zone characterization for new barrier site in SX Farm	Incremental	\$300,000	9/30/2009	1	M013
PBI 2.6.6	Provide a criteria document for interim barriers as described in Agreement (5) of the TPA Milestone M-45-56 Annual meeting of July 22, 2008, by June 30, 2009	Incremental	\$25,000	6/30/2009	1	M013
PBI 2.6.7	Implement direct push soil characterization in Waste Management Area (WMA) C, obtaining 40 samples, to support development of a corrective measures study for WMA closure, consistent with the WMA C RFI/CMS Work Plan (RPP-PLAN-39114)	Incremental, \$12,500 for each sample up to \$500K	\$500,000	9/30/2009	1	M013
PBI 2.6.8	Perform laboratory testing of a beta- detection system, suitable for deployment with a direct push unit for field screening of technetium	Incremental	\$100,000	9/30/2009	1	M013
PBI 2.7.1	Submission of a DOE-approved report to the Ecology	Incremental	\$375,000	9/30/2009	0	M009
PBI 2.8.1	Telerobotic arm Phase I qualification testing	Incremental	\$200,000	9/30/2009	2	M021
PBI 2.8.2	Telerobotic arm final design	Incremental	\$200,000	9/30/2009	2	M021
PBI 2.8.3	Telerobotic arm Phase II qualification testing	Incremental	\$400,000	9/30/2009	2	M021
PBI 2.8.4	Milestone Deleted				2	M021
PBI 2.8.5	Procure and evaluate shear strength measuring equipment for CTF	Incremental	\$300,000	9/30/2009	2	M021
PBI 2.8.6	Milestone Deleted				2	M021
PBI 2.8.7	Milestone Deleted				2	M021
PBI 2.8.8	Milestone Deleted				2	M021
PBI 2.8.9	Completed Design for installation of new riser in C-Farm Tank	Incremental	\$100,000	9/30/2009		M021
PBI 2.8.10	A Retrieval Technology review and roadmap will be completed and issued	Incremental (MULTI-YEAR)	\$150,000	9/30/2010	0	M021

#### Tank Operations Contract Contract No. DE-AC27-08RV14800

PBI No.	Title	Туре	Value of PBI/Element	Completion Due Date	PBI Revision	Contract Mod
PBI 2.8.11	Select two technologies required to complete heel retrieval and prepare a specification and award a contract for design and subcontractor testing for each technology.	Incremental \$50,000 for each technology for a total of \$100K (MULTI-YEAR)	\$100,000	9/30/2010	0	M021
PBI 2.8.12	Complete design, fabrication, and subcontractor functional testing of two technologies required to complete heel retrieval	Incremental \$100,000 for each technology for a total of \$200K (MULTI-YEAR)	\$200,000	9/30/2011	0	M021
PBI 2.8.13	Receive shipment and perform integrated system testing at CTF of two technologies required to complete heel retrieval.	Incremental \$200,000 for each technology for a total of \$400K (MULTI-YEAR)	\$400,000	9/30/2011	0	M021
PBI 2.9.1	Restore exhauster to operation by performing required preventative and corrective maint. Perform all activities to start exhauster to evaporate supernate liquid	Incremental	\$200,000	9/30/2009	0	M013
PBI 2.9.2	Operate S-102 exhauster until <5,000 gallons of supernate remain	Incremental	\$100,000	9/30/2009	0	M013
PBI 2.10.1	Complete Design media for removal of legacy equipment	Incremental	\$200,000	9/30/2009	0	M013
PBI 2.10.2	Complete design media for the installation of the modified sluicing system	Incremental	\$300,000	9/30/2009	0	M013
PBI 2.10.3	Award procurement contract for long-lead equipment to construct Waste Retrieval system.	Incremental	\$100,000	9/30/2009	0	M013
PBI 2.10.4	Mobilize construction forces and initiate removal of legacy equipment required for installation of Waste Retrieval system	Incremental	\$100,000	9/30/2009	0	M013
PBI 3.1.1	HTWOS Model Revision	Incremental	\$100,000	3/30/2009	0	M009
PBI 3.1.2	RPP Systems Plan revision - ORP approved updated system plan	Incremental	\$200,000	5/31/2009	0	M009
PBI 3.1.3	Strategic Management Plan for Waste Feed Delivery and DST Upgrades - ORP approved completed Strategic Management Plan to support WTP	incremental	\$200,000	7/30/2009	0	M009
Award Fee						
AF-1.1	Submit PMB	Award Fee	\$200,000	6/30/2009	1	M021
AF-1.2	Independent Project Review Support	Award Fee	\$125,000	9/30/2009	0	M009
AF-2	EVMS Certification	Award Fee	\$325,000	9/1/2009	0	M009
AF-3	Revise DSA (3009,1186,1189)	Award Fee	\$325,000	9/30/2009	0	M009
NOTES:			<u> </u>		1	
1	1/14/09 - Modification M009 reissued the PE	MP and incorporate	ed signed PBIs			
2	Modification M013 added PBIs 1.7, 2.9, 2.10	) and revised PBIs 2	2.1, 2.3, 2.4, 2.5,	2.6, 2.8.		
3	Modification M021 revised the PEMP PBIs 1	.5,2.1,2.3,2.8 and V	Vorkset Title 1			
4	Modification M025 revised the PEMP PBI 2.	1.2.		<b></b>		
1	Modification 054 reissues the PEMP and inc a summary of Performance Measures incorp	corporates the PBI's	as attachments.	i ne above tab	neis	

## Section J.4 Performance Evaluation and Measurement Plan (PEMP)

Attachment 2 – Performance Measures for Base Contract Period, Effective: FY 2010-2013

The performance measures described in this attachment provide performance criteria for the base contract period, specifically for during FY 2010-FY 2013. Section J.4, Attachment 1, contains performance measures incorporated into the contract during FY 2009 including some "multi-year" performance based incentives (PBIs) that have milestones in 2010 and 2011.

Configuration Table

Version	Date Approved	Summary of Changes
Original	May 12, 2010 (Modification 54)	Established FY 2010-2013 PBIs
Revision 1	July 14, 2010 (Modification 59)	Addition of PBI 3-20 through PBI 3-24
Revision 2	August 27, 2010 (Modification 66)	Addition of PBI 2.18
Revision 3	September 23, 2010 (Modification 72)	Addition of PBI 7.3 through PBI 7.6
Revision 4	January 12,2011 (Modification 87)	Update PBIs 1.1, 1.3 and 2.17
Revision 5	April 4, 2011 (Modification 101)	Increase unallocated fee pool amount
Revision 6	April 4, 2011 (Modification 102)	Misc. Changes to PBI 1, PBI 2 and PBI 3
Revision 7	April 15, 2011(Modification 105)	Increase unallocated fee pool amount
Revision 8	May 26, 2011 (Modification 109)	Increase unallocated fee pool amount
Revision 9	See date of Modification 111	Adjust PBIs to reflect decrease in total available Base Period fee pool.

Signature Block

Charles Spencer, President and Project Manager Washington River Protection Solutions

Scott Samuelson, Fee Determination Official U.S. Department of Energy, Office of River Protection

61911

Date

6/10/11 Daté

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PBI-1.3 CLIN 1 Project Upgrades and Life Extension Projects Completion
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## PM 01 – Award Fee Performance Measure

#### Fee available assigned to this performance measure:

Fiscal Year	Total AF	AF 1	AF 2	AF-3	AF-4	AF-5
FY 2010	\$1,600,000	\$500,000	\$350,000	\$350,000	\$300,000	100,000

#### Fee Structure: Subjective Measure

This award fee performance measure is achieved if the Contractor meets the mission performance expectations of the U.S. Department of Energy (DOE) as stipulated within the contract. Evaluations under the award fee performance measure shall be completed annually, based on both objective and subjective criteria for performance during the evaluation period.

#### Award Fee Criteria

#### 1) Safety Performance of Tank Farm Project Operations

**Desired Outcome**: Assure focus is maintained on overall safety and efficiency of Tank Farm project operations.

Areas of focus in overall safety and efficiency of Tank Farm project operations are:

- a) Nuclear Safety Basis Performance
- b) Environmental Performance.
- c) Radiological Safety improvements.
- d) Work Control process and Conduct of Operations improvements (e.g., work package/procedure development, field implementation of work instructions, effectiveness of Conduct of Operations councils, and Conduct of Operation mentors).
- e) Emergency Preparedness improvements.
- f) Feedback and Improvement effectiveness enhanced through improved assessments and corrective action program performance.

**Evaluation criteria** to measure safety performance will include both objective performance indicators and ORP's subjective evaluation of the contractor's daily operational performance.

Objective Evaluation Criteria:

Evaluation will be under the Performance Indicator Program and will be made for the six (6) programs listed in the Areas of focus portion of the award fee criteria. Under each program, the agreed upon annual performance measures will be calculated and published monthly. The three-month average for performance measures for each program will be used to calculate a composite program score.

Performance Level for Individual Performance Metric	Score	
Blue: Exceptional, exceeds expectations	100	
Green: Effective, meets expectations	75	
Yellow: Borderline or declining performance	50	
Red: Degraded or adverse performance	0	

Subjective Evaluation Criteria:

- Contract requirements.
- Integrated Environment, Safety, and Health Management System (ISMS) performance objectives, measures (POM), and commitments established by the DOE.
- Responsiveness to emerging issues or high visibility items identified during senior management project reviews.
- Responsiveness to and management of performance and assessment areas needing attention as identified by contractor self-assessment s, ORP assessments, and external reviews.

#### 2) Environmental Stewardship and Compliance

Desired Outcome: Contractor's demonstrated environmental stewardship and compliance.

Areas of Focus for environmental stewardship and compliance:

- a) Environmental Protection and Compliance Plan and performance metrics
- b) Permitting documents and compliance to permits and licenses
- c) Proactive assessment/evaluation program
- d) 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 both objective performance indicators and ORP's subjective evaluation of the contractor's performance based on the following:

- quality of the documented environmental protection program;
- contractor's establishment and implementation of environmental performance metrics;
- early identification of issues and concerns through a proactive assessment/evaluation program;
- openness and professionalism of interactions with DOE and regulators;

- integration with Hanford Site regulatory compliance and the quality, timeliness, completeness, and technical accuracy of site-wide environmental reports, permits, and licenses;
- quality, timeliness, completeness, and technical accuracy of permitting documents;
- number and seriousness of any non-compliances, infractions, or violations and the timeliness and quality of related reporting and responses;
- implementation of waste minimization and pollution prevention practices; and
- compliance to environmental permit and license conditions.

#### 3) Quality Assurance Program Compliance.

**Desired Outcome:** The Contractor is required to develop and implement a quality assurance program (QAP) based upon the requirements of DOE-EM EM-QA-001,DOE O 414.1C and 10CFR830 to implement a compliant QA program.

Areas of Focus for Quality Assurance Program Compliance:

- a) Compliance with all Management Criteria of the QAP-including: Program Requirements, Training and Qualifications; Quality Improvement, Documents and Records;
- b) work processes; design; procurement;
- c) Inspection and Acceptance testing;
- d) Independent and Management Assessment;
- e) Software QA;
- f) Implementation of ASME NQA-1-2004 as the implementing standard to meet DOE requirements.

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

- Compliance with all management criteria of the QAP(TFC-PLN-02,"Quality Assurance Program Description")
- Contractor Performance
- Responsiveness to corrective action plans and issues.

#### 4) Contract and Business System Management -

**Desired Outcome:** The Contractor will be evaluated for performance on a wide range of contract management and business system management areas. This Performance Measure includes consideration of:

- EVMS Management- Maintaining certification; results of reviews and assessments
- Cost and Schedule Integrity- Provide and maintain accurate schedules of work performed by TOC. Activities to be activity based, logic driven and integrated. Cost management efficiency, performance and effectiveness using the current baseline.

- Compliance with Federal and Departmental acquisition regulations, procedures, and guidance
- Compliance with Contract requirements not covered by PBIs and other Award Fee Performance Measures;
- Effectiveness of Subcontract and Purchasing management (including compliance with internal procedures and the Contractor's approved purchasing system) and increasing the ratio of competition awards to non-competition awards;
- Small Business Subcontracting Plan goal achievement;
- Compliance and adequacy of the Contractor's business system approvals (e.g., purchasing, accounting, budget & planning, billing, estimating, and labor accounting)
- Property Management -Maintain an effective property management system for the control, use, preservation, protection, and maintenance of Government property in the contractor's possession consistent with voluntary consensus standards and/or industry leading practices and standards (from FAR 52.245-1).

Areas of Focus for Contract and Business System Management Compliance:

- a) EVMS
- b) Cost and Schedule Integrity
- c) Subcontracting and Purchasing Management
- d) Small Business Subcontracting Plan Goals
- e) Contractors Business Systems compliance and adequacy
- f) Property Management compliance with the requirements of FAR 52.245-1

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

- CPI and SPI performance
- Baseline Change Requests (BCR)
- Balanced Score Card metrics and self-assessment
- Subcontract reviews
- Assessments, reviews and audit results
- Contractors Purchasing System Review
- Subcontracting metrics against subcontracting plan goals
- Property Management System Review and assessments of contractor's property management system
- Periodic surveillances of the adequacy of the contractor's property management operations such as procedural and process compliance, storage and maintenance activities, effectiveness of inventory and custodial controls, and generation and maintenance of property records. Contractor shall be given credit for appropriate and effectiveness use of corrective action program for property deficiencies selfidentified.

#### 5) General Cleanup and Housekeeping of the Tank Farms

**Desired Outcome**: Improve workplace safety and compliance to procedures, especially with regard to contaminated equipment and abandoned infrastructure/facilities

#### Areas of Focus:

- a) Contaminated equipment packages in the Tank Farms are kept to a minimum, where only those items immediately in use, or staged for short term use are kept in the field.
- b) Demobilization of Tank Farms work should leave no removable contaminated equipment in the field (top hat assemblies, spray rings, hoses, etc.) unless short term use is planned.
- c) Contaminated equipment that is stored in the Tank Farms is managed under the Contaminated Reusable Equipment program, or dispositioned as waste if no need is identified.
- d) Contaminated equipment, wherever located, is managed with containers appropriate for the environmental condition they are stored in, to preclude the spread of contamination while stored.

**Evaluation criteria** to measure performance will include both objective performance indicators and ORP's subjective evaluation of the contractor's performance based on the results of periodic assessments and surveillances of the tank farms operations and facilities, and equipment and waste disposition records.

#### Award Fee Completion Documents

Following each evaluation period, the Contractor may submit a self-assessment, provided such assessment is submitted within thirty (30) calendar days after the end of the period. This self-assessment shall address both the strengths and weaknesses of the Contractor's performance during the evaluation period. Where deficiencies in performance are noted, the Contractor shall describe the actions planned or taken to correct such deficiencies and avoid their recurrence. The Contracting Officer will review the Contractor's self-assessment, if submitted, as part of its independent evaluation of the Contractor's management during the period."

All Documentation transmitting quarterly performance measures on Nuclear Safety Performance, Environmental Performance, Radiological Safety, Work Control (Conduct of Operations), and Emergency Preparedness, and Feedback and Improvement with total program score calculated per the Performance Indicator Program

All documentation demonstrating results of activities per the evaluation criteria in the areas of Environmental, Quality Assurance, Contract and Business System Management, and General Cleanup and Housekeeping of the Tank Farms.

## PM 02 - FY 2011 Award Fee Performance Measure

Fee available assigned to this performance measure: \$1,400,000

#### Fee Structure: Subjective Measure

The fee structure is subjective measure. This award fee performance measure is achieved if the Contractor meets the mission performance expectations of the U.S. Department of Energy (DOE) Office of River Projection (ORP) as stipulated within the contract. Ratings under the award fee performance measure will be based on ORP's subjective evaluation of the contractor's performance during the annual FY 2011 evaluation period. ORP's evaluation of the contractor's performance will be combined to an overall rating for each functional area using the following guidance:

Award-Fee Adjectival	Award-Fee Pool Available		
Rating	To Be Earned		
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 Functional Areas

#### 1) Performance of Tank Farm Project Operations – Conduct of Operations

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

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

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

- a) Results from DOE and Contractor Oversight (assessments, surveillances, Management Observation Programs (MOPs), and day-to-day oversight)
- b) Responsiveness to and management of performance and assessment areas needing attention as identified by contractor self-assessments, ORP assessments, and external reviews
- c) Additional trending data such as ORPS Reports, PERs, and Performance Indicators
- d) Results from the Conduct of Operations Council, Conduct of Operation mentors, training and Management Focus.

#### 2) Implementation of the Corrective Action Management Program

**Desired Outcome:** A strong Corrective Action Management Program supporting a strong Integrated Safety Management System.

Area of Focus is the implementation of the Corrective Action Management Program.

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

- a) Results from DOE and Contractor Oversight (assessments, surveillances, MOPs, and day-to-day oversight)
- b) The implementation of the Problem Evaluation Request (PER) system including appropriate PER generation, PER response/cycle time, quality of corrective action closure, and the PER backlog.
- c) Quality and timeliness of root cause evaluations
- d) Quality and timeliness of corrective action plans.

#### 3) Preparations for American Recovery and Reinvestment Act (ARRA) Transition

**Desired Outcome:** Contractor progress in FY 2011 that supports completion of ARRA work and prepares for ARRA close out. A planned, structured, and organized project closeout is essential to the success of the ARRA Program.

Areas of Focus for ARRA Transition include planning for ARRA transition and closeout of completed work.

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

- a) Develop a Transition Plan covering the transition of ARRA staff and any ARRA work that will continue into FY 2012.
- b) Implement the areas and activities of the Transition Plan that are applicable to FY 2011.
- c) Submit closure packages for completed ARRA work to DOE ORP within forty-five (45) calendar days of work completion. Closure packages are to meet the requirements of the January 13, 2011, Recovery Act Program Office Project Closeout Memorandum. The purpose of the ARRA closeout package is to ensure that actual performance and work scope completed under ARRA is documented and auditable.

#### 4) Contract Administration and Compliance

Desired Outcome: A strong adherence to the Tank Operations Contract's terms and conditions.

**Areas of Focus** is the implementation of the processes to improve the timely identification of changed conditions, the quality and timeliness of Contract Change Proposals, and provide for an effective means of evaluating changes to the contract.

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

- a) Compliance with Contract Requirements
- b) Quality and timeliness of proposals submitted in response to the ORP Contracting Officer
- c) Effectiveness of Subcontract and Purchasing management and increasing the rates of competitive to non-competitive awards

#### 5) Technology Development and Deployment Program Management

**Desired Outcome:** The development of a TDD Program that provides configuration management of TDD Project Scope and ensures adequate and useful reporting.

Areas of Focus is the implementation of the TDD Program which encompasses the oversight and control of TDD scope and reporting needs.

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

- a) Configuration Management of the TDD Scope and Budget
- b) Development of Reporting Requirements for TDD
- c) Overall Coordination of TDD reporting and requirements to service providers

#### Award Fee Completion Documents

The Contractor may submit a self-assessment after the evaluation period provided such assessment is submitted within thirty (30) calendar days after the end of the period. This self-assessment shall address both the strengths and weaknesses of the Contractor's performance during the evaluation period. Where deficiencies in performance are noted, the Contractor shall describe the actions planned or taken to correct such deficiencies and avoid their recurrence. The ORP Contracting Officer Representative (COR) and Contracting Officer will review the Contractor's self-assessment, if submitted, as part of its independent evaluation of the Contractor's management during the period.

# PBI-1.1 CLIN 1 Waste Volume Reduction via the 242-A Evaporator

Performance Fee value is established at \$3,600,000. \$2,800,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$800,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$1,000,000	Terminal	\$1,000,000	\$0
2	\$1,000,000	Terminal	\$1,000,000	\$0
3	\$800,000	Terminal	\$800,000	\$0
4	\$800,000	Terminal	\$0	\$800,000
Total	\$3,600,000		\$2,800,000	\$800,000

Fee Structure: Terminal Method

#### Desired Endpoint/Outcome

Prior to operations of the Waste Treatment and Immobilization Plant (WTP), conservation of Double-Shell Tank (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. This succession of PBIs will make space for nearly one million gallons of waste retrieved from the SSTs.

#### Fee-Bearing Milestones

1. A 242-A evaporator campaign that creates a 240,000 gallon waste volume reduction by September 30, 2010. For the first 240,000 gallons of waste volume reduction, the Contractor shall earn \$1,000,000 of incremental fee.

<u>Work scope/completion criteria</u>: Operate the 242-A evaporator as a key component of the transfer and treatment system for tank farms. The evaporator campaign will process the waste to the parameters determined by Process Engineering. The volume reduction 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 minimum of 240,000 gallons, before flush, of free DST volume achieved. This evaporator campaign shall be scheduled to ensure maintenance of sufficient proficiency of Tank Farm personnel operating the evaporator.

<u>Completion document</u>: 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. A 242-A evaporator campaign(s) that creates a 240,000 gallon waste volume by September 30, 2011.For the second 240,000 gallons (cumulative total 480,000 gallons) of waste volume reduction, the Contractor shall earn \$1,000,000 of incremental fee.

<u>Work scope/completion criteria</u>: Operate the 242-A evaporator as a key component of the transfer and treatment system for tank farms. The evaporator campaign will process the waste to the parameters determined by Process Engineering. The volume reduction 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 minimum of 240,000 gallons (cumulative total 480,000 gallons), before flush, of free DST volume achieved. This evaporator campaign shall be scheduled to ensure maintenance of sufficient proficiency of Tank Farm personnel operating the evaporator. Assumes the evaporator campaign volumes can be combined to achieve milestones, e.g., if Item 1's campaigns has a volume reduction of 300,000 gallons and Item 2's campaign has a volume reduction of 180,000 gallons, both Milestones 1 and 2 are complete.

<u>Completion document</u>: 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.

3. A 242-A evaporator campaign(s) that creates a 240,000 gallon waste volume reduction by September 30, 2012. For the third 240,000 gallons (cumulative total 720,000 gallons) of waste volume reduction, the Contractor shall earn \$800,000 of incremental fee.

<u>Work scope/completion criteria</u>: Operate the 242-A evaporator as a key component of the transfer and treatment system for tank farms. The evaporator campaign will process the waste to the parameters determined by Process Engineering. The volume reduction 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 minimum of 240,000 gallons (cumulative total 720,000 gallons) before flush, of free DST volume achieved. This evaporator campaign shall be scheduled to ensure maintenance of sufficient proficiency of Tank Farm personnel operating the evaporator. Assumes the evaporator campaign volumes can be combined to achieve milestones, e.g., if Item 1's campaigns has a volume reduction of 300,000 gallons and Item 2's campaign has a volume reduction of 180,000 gallons, both Milestones 1 and 2 are complete.

<u>Completion document</u>: 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.

4. A 242-A evaporator campaign(s) that creates a 240,000 gallon (cumulative total 960,000 gallons) waste volume reduction by September 30, 2013. For the fourth 240,000 gallons of waste volume reduction, the Contractor shall earn \$800,000 of incremental fee. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Operate the 242-A evaporator as a key component of the transfer and treatment system for tank farms. The evaporator campaign will process the waste to the parameters determined by Process Engineering. The volume reduction 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 minimum of 240,000 gallons (cumulative total 960,000 gallons), before flush, of free DST volume achieved. This evaporator campaign shall be scheduled to ensure maintenance of sufficient proficiency of Tank Farm personnel operating the evaporator. Assumes the evaporator campaign volumes can be combined to achieve milestones, e.g., if Item 1's campaigns has a volume reduction of 300,000 gallons and Item 2's campaign has a volume reduction of 180,000 gallons, both Milestones 1 and 2 are complete.

<u>Completion document</u>: 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.

# PBI-1.2 CLIN 1 Submittal of the SST Integrity Assurance Review Tri-Party Agreement Change Package to Office of River Protection

## Performance Fee available and assigned to this PBI: \$200,000

Fee Structure: Terminal Method

### **Desired Endpoint/Outcome**

The Office of River Protection desires to negotiate achievable milestones to implement Single-Shell Tank (SST) integrity recommendations provided by the SST Integrity Expert Panel. Timely implementation of these recommendations will improve the safe management of the SSTs until the waste can be retrieved and transferred to safer Double-Shell Tanks (DST). Submittal of these Tri-Party Agreement change packages fulfills a required regulatory milestone.

### Fee Bearing Milestones

1. Prepare a Tri-Party Agreement Change Package per TPA milestone M-045-91 and submit to the Office of River Protection (ORP) based on the report for the Single-Shell Tank (SST) enforceable IA-4 integrity assurance review within 60 days of the SST Integrity Assurance Review Report issuance and no later than August 30, 2010. The Contractor shall earn \$200,000 of incremental fee upon completion of work scope.

Work Scope/Completion Criteria: Tri-Party Agreement Change Package with interim milestones prepared and submitted to the ORP in accordance with TPA milestone M-045-91.

Completion Document: Letter transmitting Tri-Party Agreement Change Package to the ORP.

# PBI-1.3 CLIN 1 Project Upgrades and Life Extension Projects Completion

Performance Fee value is established at \$4,215,000. \$3,305,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$910,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete. Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$ 350,000	Straight-Line	\$ 250,000	\$100,000
2	\$ 150,000	Straight-Line	\$ 150,000	\$0
3	\$1,400,000	Straight-Line	\$1,400,000	\$0
4	\$1,575,000	Straight-Line	\$1,275,000	\$300,000
5	\$740,000	Straight-Line	\$ 230,000	\$510,000
Total	\$4,215,000	-	\$3,305,000	\$910,000

## Desired Endpoint/Outcome

Highly reliable waste evaporation and waste transfer systems are crucial to safe, efficient management of the Hanford Tank Farms prior to and during tank waste treatment. This planned scope will replace systems in support of 242-A Evaporator upgrades and life extension projects, complete life extension project s and evaporator upgrades as defined in the document titled "Engineering Study for the 242-A Life Cycle Extension Upgrades for FY 2010 through 2015", procure nondestructive equipment and complete ultrasonic test examination and video assessment reports in support of DST integrity and complete the DST Transfer System encasement pressure tests and pit coating inspections.

## Fee-Bearing Milestones

 Replace seven (7) systems in support of 242-A Evaporator Upgrades and Life Extension Projects. Fee on two (2) systems is not available to be earned. The Contractor shall earn \$50,000 of incremental fee upon completion of each system replaced (total of \$250,000 of incremental fee is available and a total of \$100,000 of incremental fee is not available to be earned).

<u>Work scope/completion criteria:</u> Replace seven (7) systems in support of the 242-A Evaporator upgrades and life extension projects. (1. Reboiler Condensate Piping System, 2. Manual Flush Valve, 3. Steam Line Replacement, 4. Control Valve Upgrades, 5. Sanitary Drain Upgrades, 6. Slurry Sampling Station Upgrades (milestone not available to be earned), and 7. Process Condensate Sampling Station (milestone not available to be earned).)

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the work package signature page documenting completion of installation.

2. Procure nondestructive examination equipment (NDE) for the DST Integrity Project. The Contractor shall earn \$30,000 of incremental fee upon completion of each life extension project upgrade (total \$150,000 available of incremental fee).

<u>Work scope/completion criteria</u>: 1) Procure three video vans, 2) NDE crawler replacement, 3) two GE Cameras, 4) procure one new ultrasonic examination control (UT) trailer, and 5) one P-Scan Projection-4 (PSP-4).

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and receipt of procurements.

3. Complete six DST farm upgrades. The Contractor shall earn \$100,000 of incremental fee upon completion of each of the following upgrades: AY-101 ENRAF Densitometer, AZ-101 ENRAF Densitometer, and AW-102 ENRAF Densitometer; \$300,000 of incremental upon completion of the AW-102 Transfer Pump Replacement,; and \$400,000 of incremental fee upon completion of each exhauster upgrade, AP Farm Primary Exhauster Installation and SY-Farm Exhauster Installation.

<u>Work scope/completion criteria</u>: Complete six DST farm upgrades: 1.) AY-101 ENRAF Densitometer, 2.) AZ-101 ENRAF Densitometer, 3.) AP Farm Primary Exhauster Installation, 4.) AW-102 ENRAF Densitometer, 5.) AW-102 Transfer Pump Replacement, and 6.) SY-Farm Exhauster Installation.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of work package signature page documenting completion of installation.

4. Complete UT examination and video assessment and issue report(s) for DST integrity. The Contractor shall earn \$75,000 of incremental fee upon completion of each UT examination report (13 total; fee on 4 UT examination reports is not available to be earned) and \$75,000 of incremental fee upon completion for each video assessment report (8 reports) (total of \$1,275,000 of incremental fee is available and a total of \$300,000 of incremental fee is not available to be earned).

Work scope/completion criteria: Perform UT examinations on thirteen (13) DSTs, perform four (4) DST Annulus Video Assessments, and four (4) DST Primary Video Assessments.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and applicable UT examination and video assessment report(s).

5. Complete DST transfer system encasement pressure tests of 49 pipes (fee on 40 pipes is not available to be earned) and pit coating inspections by a qualified National Association of Corrosion Engineering qualified inspector of 25 pits (fee on 11 pit coatings is not available to

be earned). The Contractor shall earn \$10,000 of incremental fee upon completion of work scope for each encasement pressure check or pit coating inspection (total \$230,000of incremental fee is available and a total of \$510,000 of incremental fee is not available to be earned).

<u>Work scope/completion criteria</u>: Perform transfer line encasement pressure checks of 49 (fee on 40 pipes is not available to be earned) transfer lines and pit coating inspections of 25 pits (fee on 11 pit coatings is not available to be earned).

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and a copy of the work package signature page documenting completion of the encasement pressure checks or the pit coating inspections.

# PBI-1.4 CLIN 1 222-S Upgrades and Life Extension Projects Completion

Performance Fee value is established at \$846,000. \$366,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$480,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Terminal (with dates identified below) or Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$ 96,000	Straight Line	\$16,000	\$80,000
2	\$ 50,000	Terminal	\$50,000	\$0
3	\$ 50,000	Terminal	\$0	\$50,000
4	\$ 50,000	Terminal	\$0	\$50,000
5	\$ 600,000	Straight Line	\$300,000	\$300,000
Total	\$ 846,000	<u> </u>	\$366,000	\$480,000

## **Desired Endpoint/Outcome**

The 222-S Laboratory, with its unique capabilities to analyze and store highly radioactive tank waste samples, must operate reliably in support of the tank waste cleanup mission. The contractor must replace systems in support of 222-S Laboratory and life extension projects and complete four life extension project upgrades.

## Fee-Bearing Milestones

 Replace twelve (12) pieces of analytical equipment at the 222-S Laboratory. Fee on ten pieces of analytical equipment is not available to be earned. The Contractor shall earn \$8,000 of incremental fee upon completion of each piece of equipment replaced (total of \$16,000 of incremental fee is available and a total of \$80,000 of incremental fee is not available to be earned).

<u>Work scope/completion criteria</u>: Replace twelve pieces of analytical equipment at the 222-S Laboratory such as viscometer, liquid scintillation counter, thermal desorption units, GC, ASE, (actual equipment to be replaced may change due to emergent needs).

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the work package signature page documenting completion of installation.

2. Procure and install new manipulator by September 30, 2011. The Contractor shall earn \$50,000 of incremental fee upon completion.

Work scope/completion criteria: Procure and install new manipulator.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the work package signature page documenting completion of installation.

 Procure and install new manipulator by September 30, 2012. The Contractor shall earn \$50,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

Work scope/completion criteria: Procure and install new manipulator.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the work package signature page documenting completion of installation.

4. Procure two new manipulators by September 30, 2013. The Contractor shall earn \$50,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

Work scope/completion criteria: Procure two new manipulators.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of vendor notice to proceed via contractor procurement award.

Complete four (4) life extension project upgrades at the 222-S Facility. Fee on two (2) extension project upgrades is not available to be earned. The Contractor shall earn \$150,000 of incremental fee upon completion of each life extension project upgrade (total of \$300,000 of incremental fee is available to be earned and a total of \$300,000 of incremental fee is not available to be earned.

Work scope/completion criteria: Complete four (4) life extension projects at 222-S Facility. Fee on two (2) extension project upgrades is not available to be earned.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the work package signature page documenting completion of construction.

# PBI-1.5 CLIN 1Construction Management Complex with Shops

### Performance Fee available and assigned to this PBI: \$300,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

### **Desired Endpoint/Outcome**

The scale of tank farm construction activities will increase in future years in support of an increased rate of Single-Shell Tank retrievals, and waste feed delivery projects in support of the Waste Treatment and Immobilization Plant. The contractor shall design and construct a construction management complex with shops to support Tank Farm Construction.

#### **Fee-Bearing Milestones**

1. Design, procure, and build a construction management complex with shops. The Contractor shall earn \$300,000 of incremental fee upon completion of the complex.

<u>Work scope/completion criteria</u>: Design, procure, and build a 20,000 square foot construction management complex with shops. Complex will include shops with A/V, local area network, telecom equipment, fire protection and alarms, and utilities (water, electricity, and sewer).

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and notice of completion of facility.

# PBI-1.6 CLIN 1 Tank Sampling (Grab and Cores)

Performance Fee value is established at \$2,100,000. \$1,485,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$615,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$1,500,000	Straight-Line	\$1,125,000	\$375,000
2	\$ 600,000	Straight-Line	\$ 360,000	\$240,000
Total	\$2,100,000		\$1,485,000	\$615,000

Fee Structure: Straight-Line Method (September 30, 2013)

## Desired Endpoint/Outcome

Tank waste sampling is essential to maintaining required tank waste chemistry, for maintaining tank integrity, for waste transfers and retrievals, and for post-retrieval reports. Tank waste sampling is high-risk work that must be completed safely to not impede project schedules. The contractor must ensure that sampling operations are completed with increasing efficiency and effectiveness allowing more resources to be applied to other mission critical work.

## Fee-Bearing Milestones

1. Complete 20 grab samples in support of the Tank Operations Contract (TOC) mission. Fee on 5 grab samples is not available to be earned. The Contractor shall earn \$75,000 of incremental fee upon completion of the each grab sample (total of \$1,125,000 of incremental fee is available and a total of \$375,000 of incremental fee is not available to be earned).

<u>Work scope/completion criteria</u>: Completion of 20 grab samples as described in the applicable Tank Sampling and Analysis Plans (TSAPs). Fee on 5 grab samples is not available to be earned. The plan shall identify; the type of sample, the technical need for the sampling activity, the location of the samples, and the sampling requirements.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the chain of custody (COC) documenting completion of grab samples and transfer of ownership to the laboratory.

2. Complete 5 core or off-riser samples in support of the TOC mission. Fee on 2 core samples is not available to be earned. The Contractor shall earn \$120,000 of incremental fee upon completion of the each core or off-riser sample (total of \$360,000 of incremental fee is available and a total of \$240,000 of incremental fee is not available to be earned).

<u>Work scope/completion criteria</u>: Completion of 5 samples as described in the applicable Tank Sampling and Analysis Plans (TSAPs). Fee on 2 core samples is not available to be earned. The plan shall identify; the type of sample, the technical need for the sampling activity, the location of the samples, and the sampling requirements.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of the COC documenting completion of core samples and transfer of ownership to the laboratory.

# PBI-1.7 CLIN 1 Tank Chemistry Control

Performance Fee value is established at \$1,750,000. \$1,400,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$350,000 is not allocated and is not available to be earned. The Contractor is not entitled to this Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$ 700,000	Straight-Line	\$ 500,000	\$200,000
2	\$ 500,000	Straight-Line	\$ 500,000	\$0
3	\$ 150,000	Straight-Line	\$0	\$150,000
4	\$ 100,000	Straight-Line	\$ 100,000	\$0
5	\$ 50,000	Straight-Line	\$ 50,000	\$0
6	\$ 50,000	Straight-Line	\$ 50,000	\$0
7	\$ 200,000	Straight-Line	\$ 200,000	\$0
Total	\$1,750,000		\$1,400,000	\$350,000

### Desired Endpoint/Outcome

The maintenance of Double-Shell Tank (DST) integrity is crucial to cost-effective completion of the tank waste cleanup mission. The Contractor shall:

- maintain tank chemistry per Operations Specifications Documents to ensure long term integrity of tanks
- confirm data obtained from active portions of the corrosion probe and gain better understanding of actual corrosion and corrosion mechanisms within the double-shell tanks (DSTs)
- obtain better understanding of the corrosion potential of the waste.
- Perform analyses of dynamic mixing, benchmark analysis, and ventilation flow modeling.

### Fee-Bearing Milestones

 Remove and replace corrosion probe coupons for three DST corrosion probes. Fee on one (1) corrosion probe coupon set is not available to be earned. The Contractor shall earn \$300,000 of incremental fee upon completion of the first each set of coupons removed and replaced (as required) to support the TOC mission, and \$200,000 for the remaining two sets of coupons replaced (total of \$500,000 of incremental fee is available and a total of \$200,000 of incremental fee is not available to be earned). Note that replacement will only occur if required to support the Tank Operations Contract (TOC) mission.

<u>Work scope/completion criteria</u>: Removal and replacement (as required) of corrosion probe coupons.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and completed chain of custody form documenting receipt of the coupon(s) at the laboratory.

2. Remove corrosion probe coupon from tank AN-107 corrosion probe. Note: The AN-107 corrosion probe is thought to have failed and potentially contains waste within the corrosion probe. Special precautions will be required during removal to ensure worker safety. The Contractor shall earn \$500,000 of incremental fee upon completion of coupon removed.

Work scope/completion criteria: Removal of corrosion coupon.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and completed chain of custody form documenting receipt of the coupon(s) at the laboratory.

3. Design, fabricate, and install corrosion probe in AW-105. The Contractor shall earn \$150,000 of incremental fee each upon completion of the work scope. Fee for this milestone is not available to be earned.

Work scope/completion criteria: Design, fabricate, and install corrosion probe in AW-105.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and copy of approved work package page documenting successful completion of installation.

4. Perform dynamic mixing analysis on AN-106 and AY-102. The Contractor shall earn \$50,000 of incremental fee upon completion of each report (total \$100,000 available of incremental fee).

Work scope/completion criteria: Perform dynamic mixing analysis on AN-106 and AY-102.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and dynamic mixing analysis report.

5. Perform ventilation flow modeling study on AZ-702. The Contractor shall earn \$50,000 of incremental fee upon completion of the study.

Work scope/completion criteria: Perform ventilation flow modeling study on AZ-702.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and the ventilation flow modeling report.

6. Perform dynamic mixing model benchmark analysis. The Contractor shall earn \$50,000 of incremental fee each upon completion of the work scope.

Work scope/completion criteria: Perform dynamic mixing model benchmark analysis and prepare report.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and the dynamic mixing model benchmark analysis study.

7. Perform slow strain rate (SSR) laboratory testing and prepare testing report. The Contractor shall earn \$200,000 of incremental fee each upon completion of the work scope.

Work scope/completion criteria: Perform SSR laboratory testing and prepare report.

<u>Completion Document:</u> Letter transmitting performance expectation completion notice and the SSR laboratory testing report to the ORP.

## PBI-2.1 CLIN 2 Vadose Zone/Barriers

Performance Fee value is established at \$10,700,000. \$8,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$2,700,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,000,000	Terminal	\$2,000,000	\$0
2	\$ 600,000	Terminal	\$ 600,000	\$0
3	\$ 250,000	Terminal	\$ 250,000	\$0
4	\$ 600,000	Terminal	\$ 400,000	\$ 200,000
5	\$ 500,000	Terminal	\$ 500,000	\$0
6	\$ 500,000	Terminal	\$0	\$ 500,000
7	\$4,000,000	Terminal	\$2,600,000	\$1,400,000
8	\$1,000,000	Terminal	\$1,000,000	\$0
9	\$ 300,000	Terminal	\$ 300,000	\$0
10	\$ 600,000	Terminal	\$0	\$ 600,000
11	\$ 200,000	Terminal	\$ 200,000	<b>\$0</b>
12	\$ 150,000	Terminal	\$ 150,000	\$0
Total	\$10,700,000		\$8,000,000	\$2,700,000

### Fee Structure: Terminal Method

## Desired Endpoint/Outcome

Upon completion of these PBI activities, the following outcomes will be achieved:

Barriers: Characterization of four high priority sites for possible future interim surface barriers has been completed to support definition and design of barriers. Barrier design has been completed for three tank farm interim barriers based on the characterization results. Construction of interim surface barriers in TY farm and two additional locations has been completed.

NOTE: Barrier sites are subject to change based on the outcome of negotiations with Washington State Department of Ecology.

Waste Management Area (WMA) C Characterization and Corrective Measures: Phase 2 characterization of Waste Management Area C has been performed, consistent with the WMA C RFI/CMS Work Plan (RPP-PLAN-39114), including surface geophysical exploration (SGE) of two unplanned release sites and collection of soil samples using the direct push unit. Testing of a beta probe has been completed to support design of a field deployable unit. The WMA C

RCRA Facility Investigation/Corrective Measures Study (TPA Milestone M-45-61) has been submitted to the Office of River Protection (ORP) in support of WMA C closure planning.

### Fee Bearing Milestones

1. Perform vadose zone direct push characterization for four potential barrier sites. The Contractor shall earn \$500,000 of incremental fee upon completion of direct push characterization of each site (total of \$2,000,000 available incremental fee).

<u>Work scope/completion criteria</u>: Use the hydraulic hammer/direct push technology to perform logging and sampling for each of the following sites, or alternate sites mutually agreed to by the ORP and the Contractor:

- 241-S Farm, Southeast (near catch tanks/diversion box northeast of SX) by 9/30/2010
- 241-BY Farm, West (near BY-107/108 historic leak sites) by 3/31/2011
- 241-BY Farm, East (near BY-103 historic leak site) by 9/30/2011
- 241-S Farm, North by 3/31/2012

For each potential barrier location, field work shall include: placement of 4-8 direct push probes (probes pushed to refusal), geophysical logging of direct push probe holes, obtaining up to 3 soil samples per location for analysis, and placement of 2 or more deep electrodes per location. Samples will be analyzed for technetium and nitrate.

<u>Completion documents</u>: For each potential barrier location evaluated, provide to the ORP a letter report documenting completion of direct push probe-hole, logging results, placement of deep electrodes, sample locations, and summary of analytical results.

 Perform vadose zone electrical resistivity characterization, including SGE and use of deep electrodes as appropriate, for four potential barrier sites. The Contractor shall earn \$150,000 of incremental fee upon completion of resistivity characterization of each site (total \$600,000 available incremental fee).

<u>Work scope/completion criteria</u>: Use electrical resistivity technology for each of the following sites, or alternate sites as directed by the ORP:

- 1. 241-S Farm, Southeast (near catch tanks/diversion box northeast of SX) by3/31/2011
- 2. 241-BY Farm, West (near BY107/108 historic leak sites) by 9/30/2011
- 3. 241-BY Farm, East (near BY103 historic leak site) by3/31/2012
- 4. 241-S Farm, North by 9/30/2012

For each potential barrier location, resistivity measurements will be obtained and analyzed employing the deep electrodes and appropriate surface electrodes.

<u>Completion documents</u>: For each potential barrier location evaluated, provide to the ORP a letter report providing the results of electrical resistivity data analysis and the resistivity anomaly maps for the potential barrier location.

3. Perform well-to-well electrical resistivity measurements in WMA A-AX by 12/31/2010 to support evaluation of a potential future barrier site. The Contractor shall earn \$250,000 of incremental fee upon completion.

<u>Work/scope/completion criteria:</u> Historic leaks in WMA A/AX present a risk to groundwater; an interim barrier may mitigate that risk. Vadose zone characterization is limited. Use of well-to-well electrical resistivity measurements will provide needed characterization data for evaluation of a future barrier site and for closure planning. These measurements will guide possible future characterization of WMA A-AX for interim barrier selection, if appropriate.

<u>Completion document:</u> Letter report submitted to the ORP providing the results of electrical resistivity data analysis and the resistivity anomaly maps.

4. Complete design of three Tank Farm Interim Surface Barriers. Fee for one Tank Farm Interim Surface Barrier is not available to be earned. The Contractor shall earn \$200,000 of incremental fee upon completion of the SX farm southern barrier design by June 30, 2011, \$200,000 of incremental fee upon completion of the SX farm northern barrier design by June 30, 2012, and \$200,000 of incremental fee upon completion of the BY farm west barrier design by June 30, 2013 (total of \$400,000 of incremental fee is available and a total \$200,000 of incremental fee is not available to be earned).

Work scope/completion criteria: Design an interim surface barrier for each these sites:

- 1. SX farm south
- 2. SX farm north
- 3. BY farm west.

Based on results of site characterization, an alternate location mutually agreed to by the ORP and the Contractor may replace any of these locations. Each barrier shall be designed to cover an area identified by characterization, and shall be designed to handle precipitation expected in the 25-year maximum rainfall event. The designed water retention system and/or discharge will not impact any ORP/RL waste sites. DOE-ORP and DOE-RL will be included in the design review process. Design will be issued into Hanford Document Control System (HDCS).

<u>Completion document</u>: Letter report submitted to the ORP providing information that the design of each Tank Farm Interim Surface Barrier has been issued into HDCS.

5. Complete Construction of SX Farm South Interim Surface Barrier (or alternate location, as agreed by the ORP and the Contractor) by October 30, 2012, or by date required by TPA Milestone M-045-92 if revised, whichever is later. The Contractor shall earn \$500,000 of incremental fee upon completion.

<u>Work scope/completion criteria</u>: An interim surface barrier in 241-SX farm south shall be constructed per the documented and ORP-approved design.

<u>Completion document</u>: Letter transmitting the construction completion document approved through Section 1, Physical Construction Completion and Completion of Construction Acceptance Tests (if required) per Statement of Work (SOW), of the SX south barrier, per the documented and ORP-approved design.

6. Complete Construction of SX Farm North Interim Surface Barrier (or alternate location, as agreed by the ORP and the Contractor) by June 30, 2013 or by date required by TPA milestone M-045-92 if revised, whichever is later. The Contractor shall earn \$500,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

Work scope/completion criteria: An interim surface barrier in 241-SX farm, north shall be constructed per the documented and ORP-approved design.

<u>Completion document</u>: Letter transmitting the construction completion document approved through Section 1, Physical Construction Completion and Completion of Construction Acceptance Tests (if required) per Statement of Work (SOW) of the SX farm north barrier.

7. Implement direct push soil characterization in Waste Management Area (WMA) C by June 30, 2013, to support development of a corrective measures study for WMA closure, in accordance with the WMA C RFI/CMS Work Plan (RPP-PLAN-39114). The Contractor shall earn incremental fee at a rate as indicated in the table below for each set of samples obtained per the plan.

Milestone	Item	Description	Fee
7	1	Direct push soil characterization in WMA C – 2 locations (16 samples)	\$400,000
7	2	Direct push soil characterization in WMA C – 2 locations (16 samples)	\$400,000
7	3	Direct push soil characterization in WMA C – 3 locations (24 samples)	\$600,000
7	4	Direct push soil characterization in WMA C – 3 locations (24 samples)	\$600,000
7	5	Direct push soil characterization in WMA C – 3 locations (24 samples)	\$600,000
7	6	Direct push soil characterization in WMA C – 3 locations (24 samples) Fee is not available to be earned.	\$600,000 of incremental fee is not available to be earned
7	7	Direct push soil characterization in WMA C – 3 locations (24 samples) Fee is not available to be earned.	\$600,000 of incremental fee is not available to be earned
7	8	Direct push soil characterization in WMA C – 1 location (8	\$200,000 of

samples) Fee is not available to be earned.	incremental fee is not available to be earned
Milestone 7 Total	\$2,600,000 available to be earned and \$1,400,000 not available to be earned

<u>Work scope/Completion Criteria</u>: Perform direct push logging, sampling and probe hole decommissioning at sites identified in the WMA C work plan, per the plan including obtaining surface samples, as directed by the plan. Deliver the samples to the laboratory for analysis and commence analysis per the plan.

<u>Completion documents</u>: A letter report will be submitted to the ORP providing direct push locations, probe-hole logging results, sample identification numbers, and chain of custody forms for each direct push location and associated samples. Completion reports may be submitted periodically for completion of one or more locations in each report.

 Perform vadose zone electrical resistivity characterization, including Surface Geophysical Exploration (SGE) and use of deep electrodes as appropriate, at two unplanned release (UPR) sites in C tank farm by September 30, 2011 for the first site and December 31, 2011 for the second site. The Contractor shall earn \$500,000 of incremental fee upon completion of each site (total of \$1,000,000 available incremental fee).

<u>Work scope/completion criteria</u>: Perform vadose zone electrical resistivity characterization at the following unplanned release (UPR) sites in waste management area C:

- 1. UPR-200-E-86
- 2. UPR-200-E-82

At each location, collect surface to surface resistivity data and surface to deep electrode resistivity data, using the previously installed deep electrodes. Analyze the data to identify resistivity anomalies.

<u>Completion document</u>: For each UPR, submit a letter report to the ORP providing the results of data analysis and the resistivity anomaly maps for the UPR in waste management area C.

9. Perform testing of a beta detection system, identify detector design improvements, and define design requirements for a field deployable system by December 31,2010. The Contractor shall earn \$300,000 of incremental fee upon completion.

<u>Work scope/completion criteria</u>: In FY 2009, initial laboratory testing of a proof-of-concept beta detection probe was performed (RPP-ENV-42267) and showed promise. The initial detector will

be further tested, an enhanced detector will be designed, constructed and tested, and requirements for design of a vadose zone field deployable system will be defined.

<u>Completion document</u>: Provide to DOE a letter report documenting the results of further testing of the proof-of-concept beta detection system, testing results of the enhanced detector, and requirements for design of a field deployable beta detection system.

10. Provide a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C (TPA Milestone M-045-61) by September 30, 2013. The Contractor shall earn \$600,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Provide a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C, by 09/30/2013, to facilitate closure of WMA C by 2019. The report will include results of characterization completed to date per RPP-PLAN-39114, evaluation of potential corrective measures for WMA C contaminated soil, and recommendations for corrective measure implementation.

<u>Completion document</u>: Provide to DOE as a formal report a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C.

11. In partial completion of TPA Milestone M-045-90, complete an interim barrier demonstration report for the T-106 interim barrier by September 30, 2010 The Contractor shall earn \$200,000 of incremental fee upon completion.

<u>Work scope/completion criteria</u>: Complete an interim barrier demonstration report for the T-106 interim barrier. The report shall include a recommendation and commitment on whether to proceed with additional interim barriers, and an evaluation of the barrier's ability to reduce water infiltration that drives migration of subsurface contamination to groundwater. A baseline change request (BCR) to add the new scope will be submitted, the PBI method will be defined in the associated BCR package.

<u>Completion document</u>: Letter transmitting an interim barrier demonstration report for the T-106 interim barrier.

12. Complete and document a pipeline leak detection technology field test by March 31, 2011. The Contractor shall earn \$150,000 of incremental fee upon completion.

<u>Work scope/completion criteria</u>: In support of identifying and evaluating historic waste leaks from pipelines, identify and plan a field test of technology for leak detection. Perform a field test of the selected technology on a pipeline where historic records indicate a probable leak. Report results and future recommendations.

<u>Completion document</u>: Letter transmitting a report of pipeline leak detection technology field test.

## PBI-2.2 CLIN 2 Waste Management C Area Closure

Performance Fee value is established at \$4,250,000. \$3,350,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$900,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete. Fee Structure: Straight-Line Method (September 30, 2013) and Declining Method (Milestones #1, #2, #3, and #4)

Milestone	Fee Value	Method	Amount allocated and available to be	Amount not allocated and not available to be
4	¢ 000 000	Deelisiee	earned	earned \$0
1	\$ 200,000	Declining	\$ 200,000	
2	\$ 200,000	Declining	\$ 200,000	\$0
3	\$ 200,000	Declining	\$ 200,000	\$0
4	\$ 200,000	Declining	\$ 200,000	\$0
5	\$ 200,000	Straight Line	\$ 200,000	\$0
6	\$ 200,000	Straight Line	\$ 200,000	\$0
7	\$ 800,000	Straight Line	\$ \$400,000	\$ \$400,000
8	\$ 750,000	Straight Line	\$ 750,000	\$0
9	\$ 200,000	Straight Line	\$ 200,000	\$0
10	\$ 200,000	Straight Line	\$ 200,000	\$0
11	\$ 200,000	Straight Line	\$ 200,000	\$0
12	\$ 200,000	Straight Line	\$ 200,000	\$0
13	\$ 200,000	Straight Line	\$ 200,000	\$0
14	\$ 500,000	Straight Line	\$0	\$ 500,000
Total	\$4,250,000		\$ 3,350,000	\$ 900,000

### **Desired Endpoint/Outcome**

Upon completion of these PBI activities, the following outcomes will be achieved: Closure Demonstration and Planning: DOE receives the deliverables for those portions of the C-200 Closure Demonstration Plan necessary to complete TPA Milestone M-045-80, including: (1) a description of the radioactive waste determination process that DOE will utilize for the component of Tank Waste residuals subject to DOE authority, (2) a RCRA/CERCLA integration white paper, (3) a tank removal engineering study, and (4) an evaluation of alternatives for removal of waste from the C-301 catch tank. DOE receives reports on feasibility studies for pipeline and diversion boxes, in support of WMA C closure decisions.

Performance assessment and regulatory documents: Waste release studies have been completed on up to 4 C farm tanks, to provide input to risk assessments. An initial risk assessment/performance assessment of WMA C has been completed and delivered to DOE. A

Tier 1 closure plan meeting the requirements of DOE O 435.1 and basis documentation for a WIR determination, have been delivered to DOE. A closure plan meeting the requirements of the TPA for the SST System and a TPA Tier 2 closure plan for WMA C have been delivered to DOE.

### Fee Bearing Milestones

 In partial completion of TPA milestone M-045-80 (Part 1), provide a report describing the radioactive waste determination process that DOE will utilize for the component of Tank Waste residuals subject to DOE authority by December 2, 2010 (Declining Method milestone). The Contractor shall earn \$200,000 of incremental fee upon completion of this deliverable, subject to declining method deductions, if applicable.

<u>Work scope/completion criteria</u>: Develop a report describing the radioactive waste determination process, meeting all requirements of DOE Order 435.1which DOE will utilize for the component of Tank Waste residuals in WMA C subject to DOE authority. Provide the draft report to DOE for comment. The declining method penalty calculation date for Milestones 1, 2, 3, and 4 is December 2, 2010. For each milestone there shall be a \$500 per day penalty and there shall be no fee earned after January 21, 2011.

<u>Completion document</u>: Submit a letter report to the Office of River Protection (ORP) describing the radioactive waste determination process that DOE will utilize for the component of Tank Waste residuals in WMA C subject to DOE authority.

 In partial completion of TPA milestone M-045-80 (Part 2), provide a RCRA/CERCLA integration white paper by December 2, 2010 (Declining Method milestone). The Contractor shall earn \$200,000 of incremental fee upon completion of this deliverable, subject to declining method deductions, if applicable.

<u>Work scope/completion criteria</u>: Develop RCRA/CERCLA integration white paper, describing the RCRA/CERCLA integration process as it applies to WMA C closure. Provide the white paper to DOE for comment. The declining method penalty calculation date for Milestones 1, 2, 3, and 4 is December 2, 2010. For each milestone there shall be a \$500 per day penalty and there shall be no fee earned after January 21, 2011.

<u>Completion document</u>: Submit a white paper to the ORP describing the RCRA/CERCLA integration process as it applies to WMA C closure.

3. In partial completion of TPA Milestone M-045-80 (Part 3), provide a tank removal engineering study by December 2, 2010 (Declining Method milestone). The Contractor shall earn \$200,000 of incremental fee upon completion of this deliverable, subject to declining method deductions, if applicable.

<u>Work scope/completion criteria</u>: Provide a tank removal engineering study, evaluating the practicability of removal of a 100-Series Single-Shell Tank. The report should evaluate and augment previously completed work as necessary to meet Ecology's requirements for a

demonstration of impracticability for removal or decontamination of a tank system pursuant to WAC 173-303-640(8)(b). The report will provide supporting information to make a decision on whether landfill closure for WMA C can be pursued in the RCRA Site-Wide Permit. Provide the draft report to DOE for comment. The declining method penalty calculation date for Milestones 1, 2, 3, and 4 is December 2, 2010. For each milestone there shall be a \$500 per day penalty and there shall be no fee earned after January 21, 2011.

<u>Completion document</u>: Submit a letter report to the ORP providing a tank removal engineering study.

4. In partial completion of TPA Milestone M-045-80 (Part 4), provide an evaluation of alternatives for removal of waste from the C-301 catch tank by December 2, 2010 (Declining Method milestone). The Contractor shall earn \$200,000 of incremental fee upon completion of the document, subject to declining method deductions, if applicable.

<u>Work scope/completion criteria</u>: Provide an evaluation of alternatives for removal of waste from the C-301 catch tank. The report should evaluate the methods available for retrieving solid and liquid waste from the C-301 Catch Tank, and estimate the costs and benefits for each viable alternative. Provide the draft report to DOE for comment. The declining method penalty calculation date for Milestones 1, 2, 3, and 4 is December 2, 2010. For each milestone there shall be a \$500 per day penalty and there shall be no fee earned after January 21, 2011.

<u>Completion document</u>: Submit a letter report to the ORP providing an evaluation of alternatives for removal of waste from the C-301 catch tank.

5. Complete an analysis of the seven diversion boxes in 241-C Tank Farm. The Contractor shall earn \$200,000 of incremental fee upon completion of the document.

<u>Work scope/completion criteria</u>: Evaluate existing information on the seven diversion boxes in WMA C, in support of closure planning. For each diversion box, document the condition of the diversion box based on existing information, and identify additional data that needs to be addressed prior to closure planning. The report should meet the following criteria:

- Evaluate existing characterization data for each diversion box.
- Recommend further characterization where no data exists.
- Evaluate the physical condition of each diversion box.
- Recommend further work where no data exists.
- Document the analysis findings in a written report.

<u>Completion documents</u>: The completed report shall be transmitted to the DOE.

6. Complete a pipeline feasibility study. The Contractor shall earn \$200,000 of incremental fee upon completion of the document.

Work scope/completion criteria: The report should meet the following criteria:

- Evaluate the existing data regarding physical condition and characterization of the pipe lines in WMA C.
- Indentify option to obtain additional data necessary for closure.
- Evaluate existing information regarding available methods to characterize, stabilize and remediate pipelines, including cost and risk data.
- Provide recommendations for actions to support decisions on closure of pipelines in WMA C.
- Document the analysis findings in a written report.

Completion documents: The completed report shall be transmitted to the DOE.

7. Perform waste release tests on up to four residual waste samples from retrieved or partially retrieved tanks, to provide technical input to risk assessment modeling. Fee on two waste release tests are not available to be earned. The Contractor shall earn \$200,000 of incremental fee upon completion of each waste release test (total of \$400,000 of incremental fee is available and a total of \$400,000 of incremental fee is not available to be earned).

<u>Work scope/completion criteria</u>: For each of up to four tank waste samples, perform waste release tests on residual waste obtained from one or more tanks following completion of initial or final retrieval. Document results as input into tank farm risk assessments and performance assessments.

<u>Completion document</u>: For each of up to four tank waste samples, submit a letter report to the ORP providing the results of residual waste release testing.

8. Develop five data packages and hold working sessions to develop the initial human health and environmental risk assessment/performance assessment for WMA C (WMA C PA). The Contractor shall earn \$150,000 of incremental fee upon completion of each topical area report from each of the five data package/working sessions (total of \$750,000 available incremental fee).

Work scope/completion criteria: The WMA C PA will be developed to meet the requirements of HFFACO Appendix I and DOE O 435.1. The inputs and assumptions for this activity will be developed through a series of working sessions with ORP, other DOE staff and regulatory agencies. For each topical area, develop a draft report and provide it to working session participants. Hold a working session involving DOE, Ecology, and other participants as invited by DOE. Issue meeting notes for the working session. Incorporate comments into the report and issue an update as input to the WMA C PA. Topical areas include at a minimum:

- Engineered systems #1
- Natural systems
- Engineered systems #2
- Exposure scenarios
- Numeric codes

<u>Completion document</u>: Provide to DOE the meeting notes for the applicable WMA C PA working session and the updated report for each topical area.

 Perform and document initial model runs for the initial human health and environmental risk assessment/performance assessment for WMA C (WMA C PA). The Contractor shall earn \$200,000 of incremental fee upon completion of this document.

<u>Work scope/completion criteria</u>: The human health and environmental risk assessment/performance assessment for WMA C will be developed to meet the requirements of HFFACO Appendix I and DOE O 435.1. The initial model runs will be performed per the inputs and assumptions, developed through a series of working sessions with ORP, other DOE staff and regulatory agencies. The initial WMA C PA model runs will employ available data regarding tank waste residuals following retrieval and soil contamination, supplemented with conservative assumptions for data that is not yet available. Initial runs of the numeric model developed through this process will be documented.

<u>Completion document</u>: A report documenting the output of the initial model runs for the initial human health and environmental risk assessment/performance assessment for WMA C, developed to meet the requirements of the HFFACO Appendix I and DOE Order 435.1.

10. Document the initial human health and environmental risk assessment/performance assessment for WMA C (WMA C PA). The Contractor shall earn \$200,000 of incremental fee upon completion of this document.

<u>Work scope/completion criteria</u>: The human health and environmental risk assessment/performance assessment for WMA C will be developed to meet the requirements of HFFACO Appendix I and DOE O 435.1. The inputs and assumptions for this activity will be developed through a series of working sessions with ORP, other DOE staff and regulatory agencies. The initial human health and environmental risk assessment/performance assessment for WMA C will employ available data regarding tank waste residuals following retrieval and soil contamination, supplemented with conservative assumptions for data that is not yet available. Model runs will be performed, updated, and results documented.

<u>Completion document</u>: A report documenting the initial human health and environmental risk assessment/performance assessment for WMA C, developed to meet the requirements of the HFFACO Appendix I and DOE O 435.1.

11. Provide a Tier 1 Closure plan for WMA C as defined in DOE Order 435.1. The Contractor shall earn \$200,000 of incremental fee upon completion of the document.

Work scope/completion criteria: Provide to DOE a Tier 1 Closure plan for WMA C that meets the requirements of DOE O 435.1.

<u>Completion documents</u>: A Tier 1 Closure plan for WMA C that meets the requirements of DOE O 435.1.

12. Provide documentation to form the basis for a Waste Incidental to Reprocessing (WIR) Determination for the residual wastes in WMA C. The Contractor shall earn \$200,000 of incremental fee upon completion of the document.

<u>Work scope/completion criteria</u>: Provide to DOE documentation to form the basis for a WIR Determination for the residual wastes in WMA C. The documentation shall meet the requirements of DOE O 435.1.

<u>Completion documents</u>: Documentation to form the basis for a WIR Determination for the residual wastes in WMA C that meets the requirements of DOE O 435.1.

13. Provide a Tier 1 Closure plan for the SST system, as defined in TPA Appendix I. The Contractor shall earn \$200,000 of incremental fee upon completion of the document.

<u>Work scope/completion criteria</u>: Provide to DOE a Tier 1 Closure plan for the SST system that meets the requirements of the TPA, Appendix I. (Document is TPA compliant when document meets TPA requirements. It does not require regulator approval to be TPA compliant to meet the intent of this PBI deliverable).

<u>Completion documents</u>: Formal TPA Tier 1 Closure plan for the SST system that meets the requirements of the TPA, Appendix I.

14. Provide a draft TPA compliant Tier 2 Closure plan for Waste Management Area C. The Contractor shall earn \$500,000 of incremental fee upon completion of the document. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Provide to DOE a draft Tier 2 Closure plan for WMA C that meets the requirements of the TPA, Appendix I. (Document is TPA compliant when document meets TPA requirements. It does not require regulator approval to be TPA compliant to meet the intent of this PBI deliverable).

<u>Completion documents</u>: Formal draft TPA Tier 2 Closure plan for WMA C that meets the requirements of the TPA, Appendix I.

# PBI-2.3 CLIN 2 Removal of SX Tank Farm Exhauster Station (Sludge Cooler)

## Performance Fee available and assigned to this PBI: \$600,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

Fee Value	
\$500,000	
\$100,000	
\$600,000	

## Desired Endpoint/Outcome

SX Tank Farm Exhauster Station (Sludge Cooler) removed.

### Fee Bearing Milestones

1. Remove SX Tank Farm Exhauster Station (Sludge Cooler). The Contractor shall earn \$500,000 of incremental fee upon completion of work scope.

Work scope/completion criteria: SX Tank Farm Exhauster Station (Sludge Cooler) removed and packaged for disposal.

<u>Completion document:</u> Letter transmitting the work package coversheet documenting completion and acceptance by Operations.

2. Complete shipping of waste package(s) generated by removal of SX Tank Farm Exhauster Station (Sludge Cooler). The Contractor shall earn \$100,000 of incremental fee upon completion of work scope.

<u>Work scope/completion criteria</u>: The waste package(s) generated by the removal activity have been shipped to the appropriate Treatment Storage Disposal (TSD) facility.

<u>Completion document:</u> The waste disposal facility verification of receipt of shipment for the waste package(s).

# PBI-2.4 CLIN 2 Complete removal and shipment to final disposition of expired Hose-In-Hose Transfer Lines

Performance Fee value is established at \$1,600,000. \$1,400,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$200,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete. Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$1,280,000	Straight-Line	\$1,120,000	\$160,000
2	\$ 320,000	Straight-Line	\$ 280,000	\$ 40,000
Total	\$1,600,000		\$1,400,000	\$200,000

### Desired Endpoint/Outcome

Expired Hose-In-Hose Transfer Lines (HIHTL) are removed from the Hanford Tank Farms in accordance with the schedule in the HIHTL Management Plan.

### Fee Bearing Milestones

1. Complete removal of the following sixteen (16) interim stabilization Hose-in-Hose Transfer Lines (HIHTL). Fee on two (2) HIHTL is not available to be earned. The Contractor shall earn \$80,000 for each of the HIHTL removed in incremental fee. A total of \$1,120,000 of incremental fee is available and a total of \$160,000 is not available to be earned.

Identification Number	Location (From)	Location (To)
I-34610-0-1	C-203 (1)	C-200 VESSEL
I-34623-0-2 Fee for this	241-C 200 Vessel	Outside C-03B
milestone is not available to		
be earned		
I-34610-0-8	C-204	C-200 VESSEL
I-34610-0-12	C-200 VAC	C-204
1-34610-0-17	C-200 VAC	C-200 VESSEL
1-54948-0-3	C-204	C-200 VESSEL
1-05457-0-1	S-A	SY-102 (1)
1-05457-0-2	S-A	SY-102 (2)
I-21844-0-1	S-A	SY-101 (1)
I-21844-0-2	S-A	SY-101 (2)

I-30512-0-1 Fee for this milestone is not available to be earned	S-102	S-A
I-42181-0-01	SY-101 R7	SY-A
1-49637-0-4	U-D	SY (3)
1-49637-0-5	U-D	SY (4)
1-49637-0-6	U-D	SY (5)
I-49637-0-11	U-D	SY (2)

2. Complete shipping of the following sixteen (16) HIHTLs. Fee on shipping of two (2) HIHTL is not available to be earned. The Contractor shall earn \$20,000 for each of the HIHTL waste shipment in incremental fee. A total of \$280,000 of incremental fee is available and a total of \$40,000 of incremental fee is not available to be earned.

Identification Number	Location (From)	Location (To)
I-34610-0-1	C-203 (1)	C-200 VESSEL
I-34623-0-2 Fee for this	241-C 200 Vessel	Outside C-03B
milestone is not available to		
be earned		
I-34610-0-8	C-204	C-200 VESSEL
1-34610-0-12	C-200 VAC	C-204
I-34610-0-17	C-200 VAC	C-200 VESSEL
1-54948-0-3	C-204	C-200 VESSEL
I-05457-0-1	S-A	SY-102 (1)
1-05457-0-2	S-A	SY-102 (2)
I-21844-0-1	S-A	SY-101 (1)
I-21844-0-2	S-A	SY-101 (2)
I-30512-0-1 Fee for this	S-102	S-A
milestone is not available to		
be earned		
I-42181-0-01	SY-101 R7	SY-A
1-49637-0-4	U-D	SY (3)
I-49637-0-5	U-D	SY (4)
I-49637-0-6	U-D	SY (5)
I-49637-0-11	U-D	SY (2)

<u>Work scope/completion criteria for HIHTL removal</u>: 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.

<u>Completion Document for HIHTL removal</u>: Letter transmitting the work package coversheet documenting completion and acceptance by Operations.

<u>Work scope/completion criteria for shipping</u>: The HIHTL waste package has been shipped to the waste TSD facility.

<u>Completion Document for shipping</u>: The waste disposal facility verification of receipt of shipment for the waste package(s).

# PBI-2.5 CLIN 2 Remove ducting and associated equipment associated with SX Farm

## Performance Fee available and assigned to this PBI: \$600,000

Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value
1	\$500,000
2	\$100,000
Total	\$600,000

### Desired Endpoint/Outcome

Disconnect, remove, and dispose of the ductwork in SX Tank Farm associated with the following tanks: 241-SX-107, -108, -109, -110, -111, -112, and -114.

### Fee Bearing Milestones

1. Remove ductwork associated with SX Exhauster system (from tanks listed above to the Exhauster Vent Station/Sludge Cooler) and package waste for disposal. The Contractor shall earn \$500,000 of incremental fee upon completion of work scope.

Work scope/completion criteria: Ductwork removed and packaged for disposal.

<u>Completion document:</u> Letter transmitting completed work package coversheet documenting completion and acceptance by Operations.

2. Ship waste to appropriate disposal facility based upon characterization of the waste. The Contractor shall earn \$100,000 of incremental fee upon completion of work scope.

<u>Work scope/completion criteria:</u> The waste packages have been shipped to the waste TSD facility.

<u>Completion document</u>: The waste disposal facility verification of receipt of shipment for the waste package(s).

# PBI-2.6 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-101

Performance Fee value is established at \$5,000,000. \$3,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$2,000,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete. Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,000,000	Straight-Line	\$2,000,000	\$0
2	\$1,000,000	Straight-Line	\$1,000,000	\$0
3	\$2,000,000	Straight-Line	\$0	\$2,000,000
Total	\$5,000,000		\$3,000,000	\$2,000,000

## **Desired Endpoint/Outcome**

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

## Fee Bearing Milestones

1. Complete waste retrieval system construction for Tank 241-C-101 and turnover to operations. The Contractor shall earn \$2,000,000 of incremental fee upon completion of construction of Tank 241-C-101 and turnover to operations.

<u>Work scope/completion criteria</u>: Complete waste retrieval system construction. The retrieval system must be approved by an Independent Qualified Registered Professional Engineer (IQRPE) as compliant with Washington Administrative Code (WAC) 173-303-640 as part of the completion of construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-101 waste retrieval system construction and the ORP FPD/COR's concurrence on the exceptions listing.

2. The Contractor shall earn \$1,000,000 of incremental fee upon completing retrieval of 50% of the Waste by Volume in Tank 241-C-101.

<u>Work scope/completion criteria</u>: Perform waste retrieval activities to achieve 50% reduction in the initial SST waste volume. The retrieval of 50% of initial SST waste by volume shall be based on an initial volume determined from the latest BBI information or a pre-retrieval volume determination, if completed. The retrieved volume will be an estimate based on material balance calculations.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.

3. Complete bulk retrieval of Tank 241-C-101. The Contractor shall earn \$2,000,000 incremental fee upon completion of bulk retrieval of Tank 241-C-101. In the event the initially deployed retrieval technology meets or exceeds the performance requirements of the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.6. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: .Submittal of material balance data and engineering calculations summary information demonstrating retrieval is complete or at the limits of the deployed technology

# PBI-2.7 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-102

Performance Fee value is established at \$5,000,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$5,000,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,000,000	Straight-Line	\$0	\$2,000,000
2	\$1,000,000	Straight-Line	\$0	\$1,000,000
3	\$2,000,000	Straight-Line	\$0	\$2,000,000
Total	\$5,000,000		\$0	\$5,000,000

### Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

## Fee Bearing Milestones

1 Complete waste retrieval system construction for Tank 241-C-102 and turnover to operations. The Contractor shall earn \$2,000,000 of incremental fee upon completion of construction of Tank 241-C-102 and turnover to operations. Fee for this milestone is not available to be earned.

Work scope/completion criteria: Complete waste retrieval system construction. The retrieval system must be approved by an Independent Qualified Registered Professional Engineer (IQRPE) as compliant with Washington Administrative Code (WAC) 173-303-640 as part of the completion of construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-102 waste retrieval system construction. and the ORP FPD/COR's concurrence on the exceptions listing.

2. The Contractor shall earn \$1,000,000 of incremental fee upon completing retrieval of 50% of the Waste by Volume in Tank 241-C-102. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Perform waste retrieval activities to achieve 50% reduction in the initial SST waste volume. The retrieval of 50% of initial SST waste by volume shall be based on an initial volume determined from the latest BBI information or a pre-retrieval volume determination, if completed. The retrieved volume will be an estimate based on material balance calculations.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume

3. Complete bulk retrieval of Tank 241-C-102. The Contractor shall earn \$2,000,000 incremental fee upon completion of bulk retrieval of Tank 241-C-102. In the event the initially deployed retrieval technology meets or exceeds the performance requirements of the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.7. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval is complete or at the limits of the deployed technology.

# PBI-2.8 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-104

Performance Fee value is established at \$4,000,000. \$2,500,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$1,500,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete. Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,500,000	Straight-Line	\$2,500,000	\$0
2	\$1,500,000	Straight-Line	\$0	\$1,500,000

Total	\$4,000,000	\$2,500,000	\$1,500,000

### **Desired Endpoint/Outcome**

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

### Fee Bearing Milestones

Complete bulk retrieval of Tank 241-C-104. The Contractor shall earn \$2,500,000
incremental fee upon completion of bulk retrieval of Tank 241-C-104. In the event the
initially deployed retrieval technology meets or exceeds the performance requirements of
the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.8.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval is\_complete or at the limits of the deployed technology

2. Complete heel retrieval of Tank 241-C-104. The Contractor shall earn \$1,500,000 of incremental fee upon completion of Tank 241-C-104 heel retrieval to the limits of technology. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete waste retrieval to meet performance requirements in the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment

# PBI-2.9 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-105

Performance Fee value is established at \$5,000,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$5,000,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,000,000	Straight-Line	\$0	\$2,000,000
2	\$1,000,000	Straight-Line	\$0	\$1,000,000
3	\$2,000,000	Straight-Line	\$0	\$2,000,000
Total	\$5,000,000		\$0	\$5,000,000

### Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

## Fee Bearing Milestones

1. Complete waste retrieval system construction for Tank 241-C-105 and turnover to operations. The Contractor shall earn \$2,000,000 of incremental fee upon completion of construction of Tank 241-C-105 and turnover to operations. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete waste retrieval system construction. The retrieval system must be approved by an Independent Qualified Registered Professional Engineer (IQRPE) as compliant with Washington Administrative Code (WAC) 173-303-640 as part of the completion of construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-105 waste retrieval system construction, and the ORP FPD/COR's concurrence on the exceptions listing.

2. The Contractor shall earn \$1,000,000 incremental fee upon completing retrieval of 50% of the Waste by Volume in Tank 241-C-105. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Perform waste retrieval activities to achieve 50% reduction in the initial SST waste volume. The retrieval of 50% of initial SST waste by volume shall be based on an initial volume determined from the latest BBI information or a pre-retrieval volume determination, if completed. The retrieved volume will be an estimate based on material balance calculations.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume,

3. Complete bulk retrieval of Tank 241-C-105. The Contractor shall earn \$2,000,000 incremental fee upon completion of bulk retrieval of Tank 241-C-105. In the event the initially deployed retrieval technology meets or exceeds the performance requirements of the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.9. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval is complete or at the limits of the deployed technology.

## PBI-2.10 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-107

Performance Fee value is established at \$8,250,000. \$6,750,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$1,500,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$1,750,000	Straight-Line	\$1,750,000	\$0
2	\$2,000,000	Straight-Line	\$2,000,000	\$0
3	\$1,000,000	Straight-Line	\$1,000,000	\$0
4	\$2,000,000	Straight-Line	\$2,000,000	\$0
5	\$1,500,000	Straight-Line	\$0	\$1,500,000
Total	\$8,250,000		\$6,750,000	\$1,500,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

#### Fee Bearing Milestones

 Complete large riser construction for Tank 241-C-107. The Contractor shall earn \$1,750,000 of incremental fee upon completion of the large riser construction on Tank 241-C-107.

Work scope/completion criteria: Complete large riser construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-107 large riser system construction, and the ORP FPD/COR's concurrence on the exceptions listing.

2. Complete waste retrieval system construction for Tank 241-C-107 and turnover to operations. The Contractor shall earn \$2,000,000 of incremental fee upon completion of construction of Tank 241-C-107 and turnover to operations.

<u>Work scope/completion criteria</u>: Complete waste retrieval system construction. The retrieval system must be approved by an Independent Qualified Registered Professional Engineer (IQRPE) as compliant with Washington Administrative Code (WAC) 173-303-640 as part of the completion of construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-107 waste retrieval system construction, and the ORP FPD/COR's concurrence on the exceptions listing.

3. The Contractor shall earn \$1,000,000 of incremental fee upon completing retrieval of 50% of the Waste by Volume in Tank 241-C-107.

<u>Work scope/completion criteria</u>: Perform waste retrieval activities to achieve 50% reduction in the initial SST waste volume. The retrieval of 50% of initial SST waste by volume shall be based on an initial volume determined from the latest BBI information or a pre-retrieval volume determination, if completed. The retrieved volume will be an estimate based on material balance calculations.

<u>Completion document</u>: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.

4. Complete bulk retrieval of Tank 241-C-107. The Contractor shall earn \$2,000,000 incremental fee upon completion of bulk retrieval of Tank 241-C-107. In the event the initially deployed retrieval technology meets or exceeds the performance requirements of the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.10, Milestone 5 below will also be earned.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval is complete or at the limits of the deployed technology.

5. Complete heel retrieval of Tank 241-C-107. The Contractor shall earn \$1,500,000 of incremental fee upon completion of Tank 241-C-107 heel retrieval to the limits of technology. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete waste retrieval to meet performance requirements in the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

1

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

## PBI-2.11 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-108

#### Performance Fee available and assigned to this PBI: \$1,500,000

## Fee Structure: Straight-Line Method (September 30, 2013) Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

#### Fee Bearing Milestones

1. Complete heel retrieval of Tank 241-C-108. The Contractor shall earn \$1,500,000 of incremental fee upon completion of Tank 241-C-108 heel retrieval to the limits of technology.

<u>Work scope/completion criteria</u>: Complete waste retrieval to meet performance requirements in the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment

## PBI-2.12 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-109

#### Performance Fee available and assigned to this PBI: \$1,500,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

#### Fee Bearing Milestones

1. Complete heel retrieval of Tank 241-C-109. The Contractor shall earn \$1,500,000 of incremental fee upon completion of Tank 241-C-109 heel retrieval to the limits of technology.

<u>Work scope/completion criteria</u>: Complete waste retrieval to meet performance requirements in the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

# PBI-2.13 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-110

#### Performance Fee available and assigned to this PBI: \$1,500,000

Fee Structure: Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

#### Fee Bearing Milestones

1. Complete heel retrieval of Tank 241-C-110. The Contractor shall earn \$1,500,000 of incremental fee upon completion of Tank 241-C-110 heel retrieval to the limits of technology.

Work scope/completion criteria: Complete waste retrieval to meet performance requirements in the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment

## PBI-2.14 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-111

Performance Fee value is established at \$6,500,000. \$4,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$2,500,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete. Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,000,000	Straight-Line	\$2,000,000	\$0
2	DELETED(Mod	Deleted	Deleted	Deleted
	102)	(Mod 102)	(Mod 102)	(Mod 102)
3	\$2,000,000	Straight-Line	\$2,000,000	\$0
4	\$2,500,000	Straight-Line	\$0	\$2,500,000
Total	\$6,500,000		\$4,000,000	\$2,500,000

#### Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

#### Fee Bearing Milestones

1. Complete waste retrieval system construction for Tank 241-C-111 and turnover to operations. The Contractor shall earn \$2,000,000 of incremental fee upon completion of construction of Tank 241-C-111 and turnover to operations.

<u>Work scope/completion criteria</u>: Complete waste retrieval system construction. The retrieval system must be approved by an Independent Qualified Registered Professional Engineer (IQRPE) as compliant with Washington Administrative Code (WAC) 173-303-640 as part of the completion of construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-111 waste retrieval system construction and the ORP FPD/COR's concurrence on the exceptions listing.

#### 2. DELETED

Complete bulk retrieval of Tank 241-C-111. The Contractor shall earn \$2,000,000
incremental fee upon completion of bulk retrieval of Tank 241-C-111. In the event the
initially deployed retrieval technology meets or exceeds the performance requirements of
the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.14,
Milestone 4 below, will also be earned.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval is complete or at the limits of the deployed technology.

 Complete bulk and heel retrieval of Tank 241-C-111. The Contractor shall earn \$2,500,000 of incremental fee upon completion of Tank 241-C-111 bulk and heel retrieval. Fee for this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete waste retrieval to meet performance requirements of the Hanford Federal Facility Agreement and Consent Order (HFFACO), or to the limits of the second deployed waste retrieval technology and the potential deployment of third technology (ORP "may request that the State agree that the U.S. Department of Energy (DOE) may forego implementing a third retrieval technology if DOE and WRPS believe that implementing such technology is not practicable under the criteria set forth" per the Consent Decree No. 08-5085-FVS, Appendix C, Part 1). The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with Appendix B of the Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating bulk and heel retrieval is complete.

# PBI-2.15 CLIN 2 Completion of Retrieval Operations from Single-Shell Tank 241-C-112

Performance Fee value is established at \$6,500,000. \$5,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$1,500,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$2,000,000	Straight-Line	\$2,000,000	\$0
2	\$1,000,000	Straight-Line	\$1,000,000	\$0
3	\$2,000,000	Straight-Line	\$2,000,000	\$0
4	\$1,500,000	Straight-Line	\$0	\$1,500,000
Total	\$6,500,000		\$5,000,000	\$1,500,000

#### Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B.

#### Fee Bearing Milestones

1. Complete waste retrieval system construction for Tank 241-C-112 and turnover to operations. The Contractor shall earn \$2,000,000 of incremental fee upon completion of construction of Tank 241-C-112 and turnover to operations.

<u>Work scope/completion criteria</u>: Complete waste retrieval system construction. The retrieval system must be approved by an Independent Qualified Registered Professional Engineer (IQRPE) as compliant with Washington Administrative Code (WAC) 173-303-640 as part of the completion of construction. The Construction Completion Document, Section Ia, will be completed.

<u>Completion Document</u>: Contractor approved, Construction Completion Document through Section Ia, with exceptions listing for completion of Tank 241-C-112 waste retrieval system construction, and the ORP FPD/COR's concurrence on the exceptions listing. 2. The Contractor shall earn \$1,000,000 of incremental fee upon completing retrieval of 50% of the Waste by Volume in Tank 241-C-112.

<u>Work scope/completion criteria</u>: Perform waste retrieval activities to achieve 50% reduction in the initial SST waste volume. The retrieval of 50% of initial SST waste by volume shall be based on an initial volume determined from the latest BBI information or a pre-retrieval volume determination, if completed. The retrieved volume will be an estimate based on material balance calculations.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.

3. Complete bulk retrieval of Tank 241-C-112. The Contractor shall earn \$2,000,000 incremental fee upon completion of bulk retrieval of Tank 241-C-112. In the event the initially deployed retrieval technology meets or exceeds the performance requirements of the Hanford Federal Facility Agreement then additional fee in accordance with PBI-2.15, Milestone 4 below, will also be earned.

<u>Work scope/completion criteria</u>: Complete bulk waste retrieval to the performance requirements of the Hanford Federal Facility Agreement or to the limits of the initially deployed waste retrieval technology.

<u>Completion document</u>: Submittal of material balance data and engineering calculations summary information demonstrating retrieval is complete or at the limits of the deployed technology

4. Complete heel retrieval of Tank 241-C-112. The Contractor shall earn \$1,500,000 of incremental fee upon completion of Tank 241-C-112 heel retrieval to the limits of technology. Fee of this milestone is not available to be earned.

<u>Work scope/completion criteria</u>: Complete waste retrieval to meet performance requirements in the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment.

<u>Completion document</u>: The submittal to DOE of material balance data and engineering calculation summary information demonstrating retrieval is complete to the Proposed Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment requirements. If residual volume does not comply with the completion criteria, prepare and submit to DOE an impracticality evaluation in accordance with appendix B of the proposed Consent Decree and Tri-Party Agreement

PBI-2.16 CLIN 2 Complete Ventilation Stack Extensions on POR-008 and POR-003

Performance Fee available and assigned to this PBI: \$800,000

Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value		
1	\$400,000		
2	\$400,000		
Total	\$800,000		

#### **Desired Endpoint/Outcome**

Completion of design, field work, and turnover of the Single-Shell Tanks POR-008 and POR-003 exhaust stack extensions.

Although tank vapor exposure levels are significantly below action levels, the stack extension projects will improve the ability of the workers to do their jobs by increasing the height of the exhaust stack to improve dispersion of tank vapors during tank waste retrieval activities.

#### Fee Bearing Milestones

1. Complete tank stack extension system field installation for POR-008 and turnover to operations. The Contractor shall earn \$400,000 of incremental fee upon field completion and turnover to operations.

<u>Work scope/completion criteria</u>: The exhaust stack extension shall be constructed and turned over to Operations.

<u>Completion Document</u>: Letter transmitting the work package coversheet documenting completion and acceptance by Operation.

2. Complete tank stack extension system field installation for POR-003 and turnover to operations. The Contractor shall earn \$400,000 of incremental fee upon field completion and turnover to operations.

Work scope/completion criteria: The exhaust stack extension shall be constructed and turned over to Operations.

<u>Completion Document</u>: Letter transmitting the work package coversheet documenting completion and acceptance by Operation.

## PBI-2.17 CLIN 2 A/AX Farm Retrieval Acceleration and 272-AW Facility Replacement

#### Performance Fee available and assigned to this PBI: \$1,040,000

Fee Structure: Straight-Line Method (September 30, 2013)

Milestone	Fee Value		
1	\$400,000		
2	\$250,000		
3	\$250,000		
4	\$140,000		
Total	\$1,040,000		

#### Desired Endpoint/Outcome

Complete significant work scope towards accelerating A-Farm and AX-Farm retrieval activities.

#### Fee Bearing Milestones

 Complete portable ventilation exhauster system refurbishment and vendor acceptance testing for two exhausters. Two exhausters are targeted for use in A-Farm and AX-Farm. The Contractor shall earn \$200,000 of incremental fee for each exhauster for a total fee potential of \$400,000 upon completing refurbishment and vendor acceptance testing.

Work scope/completion criteria: The ventilation exhausters shall be refurbished, tested, and accepted prior to deployment.

Completion Document: Letter report documenting successful acceptance testing.

2. Complete design of the HIHTL, Valve Box, Diversion Box retrieval systems for both A-Farm and AX-Farm. The Contractor shall earn \$250,000 of incremental fee upon issuing design documentation.

Work scope/completion criteria: The Contractor shall complete final design of the HIHTL, Valve Box, Diversion Box retrieval systems for both A-Farm and AX-Farm.

<u>Completion Document</u>: A letter report submitted to ORP, demonstrating completion of final design.

3. Complete design of the A-Farm and AX-Farm infrastructure upgrades necessary for accelerating retrieval including electrical supplies, lighting upgrades, and water/utility systems. The Contractor shall earn \$250,000 of incremental fee upon issuing design documentation.

Work scope/completion criteria: The Contractor shall complete final design of the A-Farm and AX-Farm infrastructure upgrades including electrical supplies, lighting upgrades, and water/utility systems.

<u>Completion Document</u>: A letter report submitted to ORP, demonstrating completion of final design.

4. Complete procurement and installation of the office infrastructure for use as replacement to the 272-AW Facility. The Contractor shall earn \$140,000 of incremental fee upon delivery and installation of the office infrastructure.

<u>Work scope/completion criteria</u>: The Contractor shall complete procurement and installation of office infrastructure for use as a replacement for the 272-AW Facility.

<u>Completion Document</u>: Letter transmitting the work package coversheet documenting completion and acceptance by Operations.

## PBI-2.18 CLIN 2 Articulating Mast System in 241-C-104

#### Performance Fee available and assigned to this PBI: \$1,000,000

#### Fee Structure: Straight-Line Method

#### Desired Endpoint/Outcome

An obstruction under the slurry pump has impacted the completion of 241-C-104 retrieval. Install a second retrieval technology to aid in the removal of the obstruction.

#### **Fee Bearing Milestones**

 Complete modification design, physical modifications, and factory acceptance testing for installation of the Articulating Mast System (AMS) in 241-C-104 by September 30, 2013. The Contractor shall earn \$500,000 of incremental fee upon completion of the modification design, physical modifications and factory acceptance testing of the AMS.

<u>Work Scope/Completion Criteria</u>: Complete modification design, modifications and factory acceptance testing for installation of the AMS in 241-C-104.

Completion Document: Letter transmitting copy of factory acceptance testing.

 Install the AMS into 241-C-104 to aid in the removal of an obstruction under the slurry pump, and assist completion of the sludge retrieval. Install an AMS in 241-C-104 by September 30, 2013. The Contractor shall earn \$500,000 of incremental fee upon completion of the AMS installation and turnover to operations.

Work Scope/Completion Criteria: Complete installation of the AMS into 241-C-104. Field work packages will be approved through Operations Acceptance.

<u>Completion Document</u>: Letter transmitting completed field work packages through Operations Acceptance.

## PBI-3.1 CLIN 3 Complete Submittal of Conceptual Design Report Documentation to Support Critical Decision 1 (CD-1) for the Interim Hanford Storage Facility (IHSF)

Performance Fee value is established at \$350,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$350,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the IHSF Contractor-approved Conceptual Design Report in support of CD-1 documentation prescribed in DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets. The IHSF is a project that will provide for receipt and interim onsite storage of immobilized high-level waste (IHLW) canisters produced by the Waste Treatment Plant (WTP). Without this interim onsite canister storage capability, the WTP will not be able to process high-level waste.

#### Fee Bearing Milestones

1. Submit a Contractor-approved Conceptual Design Report in support of CD-1 documentation package for IHSF to ORP. The Contractor shall earn \$350,000 incremental fee upon completion of this milestone. Fee for this milestone is not available to be earned.

Work Scope/Completion Criteria: Complete a Contractor-approved Conceptual Design Report in support of CD-1 documentation submittal package for IHSF.

Completion Document: Letter transmitting Conceptual Design Report to ORP.

## PBI-3.2 CLIN 3 Complete Submittal of Preliminary Design Documentation to Support Critical Decision 2 (CD-2) for the Interim Hanford Storage Facility (IHSF)

Performance Fee value is established at \$450,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$450,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### Desired Endpoint/Outcome

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the IHSF Preliminary Design in support of CD-2 documentation prescribed in DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets.

The IHSF is a project that will provide for receipt and interim onsite storage of immobilized highlevel waste (IHLW) canisters produced by the Waste Treatment Plant (WTP). Without this interim onsite canister storage capability, the WTP will not be able to process high-level waste.

#### Fee Bearing Milestones

1. Submit a Preliminary Design package in support of CD-2 documentation package for IHSF to ORP. The Contractor shall earn \$450,000 incremental fee upon completion of this milestone. Fee for this milestone is not available to be earned.

Work Scope/Completion Criteria: Complete a Preliminary Design package in support of CD-2 documentation submittal package for IHSF.

Completion Document: Letter transmitting a Preliminary Design package to ORP.

## PBI-3.3 CLIN 3 Complete Submittal of Conceptual Design Report Documentation to Support Critical Decision 1 (CD-1) for the Secondary Waste Treatment Project

#### Performance Fee available and assigned to this PBI: \$ 350,000

Fee Structure: Straight-Line Method (September 30, 2013)

#### Desired Endpoint/Outcome

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the Secondary Waste Treatment project contractor approved Conceptual Design Report in support of CD-1 documentation prescribed in DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets.

The Secondary Waste Treatment project will provide the capability to receive and treat secondary liquid waste produced by the Waste Treatment Plant (WTP). Without this secondary liquid waste treatment capability, the WTP will not be able to process high-level waste.

#### Fee Bearing Milestones

1. Submit a Contractor-approved Conceptual Design Report in support of CD-1 documentation package for the Secondary Waste Treatment project to ORP. The Contractor shall earn \$350,000 incremental fee upon completion of this milestone.

<u>Work Scope/Completion Criteria</u>: Complete a contractor approved Conceptual Design Report in support of CD-1 documentation submittal package for the Secondary Waste Treatment project.

Completion Document: Letter transmitting a Conceptual Design Report to ORP.

## PBI-3.4 CLIN 3 Complete Submittal of Preliminary Design Documentation to Support Critical Decision 2 (CD-2) for the Secondary Waste Treatment Project

Performance Fee value is established at \$450,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$450,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the Secondary Waste Treatment Preliminary Design package in support of CD-2 documentation prescribed in DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets. The Secondary Waste Treatment project will provide the capability to receive and treat secondary liquid waste produced by the Waste Treatment Plant (WTP). Without this secondary liquid waste treatment capability, the WTP will not be able to process high-level waste.

#### Fee Bearing Milestones

1. Submit a Preliminary Design package in support of CD-2 documentation package for Secondary Waste Treatment to ORP. The Contractor shall earn \$450,000 incremental fee upon completion of this milestone. Fee for this milestone is not available to be earned.

Work Scope/Completion Criteria: Complete a Preliminary Design package in support of CD-2 documentation submittal package for Secondary Waste Treatment Project.

Completion Document: Letter transmitting a Preliminary Design package to ORP.

## PBI-3.5 CLIN 3 AW-103 Feed Delivery System Design

Performance Fee value is established at \$100,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$100,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AW-103 Feed Delivery System Design documentation. The AW-103 Feed Delivery System Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. AW-103 Feed Delivery System Design. The Contractor shall earn \$100,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

<u>Work Scope/Completion Criteria</u>: Complete design documents for the AW-103 Feed Delivery System (Work Breakdown Structure 5.03.02.09.03.01). The documents will include the appropriate procurement/construction specifications, design drawings, and engineering change notices.

<u>Completion Document</u>: Letter transmitting the AW-103 Feed Delivery System Design to the ORP.

## PBI-3.6 CLIN 3 AZ-101 Feed Delivery System Design

Performance Fee value is established at \$100,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$100,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AZ-101 Feed Delivery System Design documentation. The AZ-101 Feed Delivery System Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. AZ-101 Feed Delivery System Design. The Contractor shall earn \$100,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

<u>Work Scope/Completion Criteria</u>: Complete design documents for the AZ-101 Feed Delivery System (Work Breakdown Structure 5.03.02.11.01.01). The documents will include the appropriate procurement/construction specifications, design drawings and engineering change notices.

<u>Completion Document</u>: Letter transmitting the AZ-101 Feed Delivery System Design to the ORP.

## PBI-3.7 CLIN 3 AY-102 Feed Delivery System Design

Performance Fee value is established at \$100,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$100,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AY-102 Feed Delivery System Design documentation. The AY-102 Feed Delivery System Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. AY-102 Feed Delivery System Design. The Contractor shall earn \$100,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

<u>Work Scope/Completion Criteria</u>: Complete design documents for the AY-102 Feed Delivery System (Work Breakdown Structure 5.03.02.06.05.01). The documents will include the appropriate procurement/construction specifications, design drawings, and engineering change notices.

<u>Completion Document</u>: Letter transmitting the AY-102 Feed Delivery System Design to the ORP.

## PBI-3.8 CLIN 3 AY/AZ Farm Infrastructure Design

#### Performance Fee available and assigned to this PBI: \$ 100,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### Desired Endpoint/Outcome

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AY/AZ Farm Infrastructure Design documentation. The AY/AZ Farm Infrastructure Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. AY/AZ Farm Infrastructure Design. The Contractor shall earn \$100,000 of incremental fee upon completion.

<u>Work Scope/Completion Criteria</u>: Complete design documents for the AY/AZ Farm Infrastructure Design (Work Breakdown Structure 5.01.04.02.20.02). The documents will include the appropriate procurement/construction specifications, design drawings, and engineering change notices.

Completion Document: Letter transmitting the AY/AZ Farm Infrastructure Design to the ORP.

## PBI-3.9 CLIN 3 AY/AZ Ventilation System Upgrade Design

#### Performance Fee available and assigned to this PBI: \$100,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AY/AZ Ventilation System Design documentation. The AY/AZ Ventilation System Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. AY/AZ Ventilation System Upgrade Design

The Contractor shall earn \$100,000 of incremental fee upon completion.

Work Scope/Completion Criteria: Complete Design documents for the AY/AZ Ventilation System Upgrade Design. The documents will include the appropriate procurement/construction specifications, design drawings, and engineering change notices.

<u>Completion Document</u>: Letter transmitting the AY/AZ Ventilation System Upgrade Design to the ORP.

### PBI-3.10 CLIN 3 SY Farm Infrastructure Design

Performance Fee value is established at \$100,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$100,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the SY Farm Infrastructure Design documentation. The SY Infrastructure Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### **Fee Bearing Milestones**

1. SY Farm Infrastructure Design. The Contractor shall earn \$100,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

<u>Work Scope/Completion Criteria</u>: Complete Design documents for the SY Farm Infrastructure Design (Work Breakdown Structure 5.03.02.12.04.01). The documents will include the appropriate procurement/construction specifications, design drawings and engineering change notices.

Completion Document: Letter transmitting the SY Farm Infrastructure Design to the ORP.

## PBI-3.11 CLIN 3 AW Farm Infrastructure Design

#### Performance Fee available and assigned to this PBI: \$ 125,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AW Farm Infrastructure Design documentation. The AW Infrastructure Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. AW Farm Infrastructure Design

The Contractor shall earn \$125,000 of incremental fee upon completion.

<u>Work Scope/Completion Criteria</u>: Complete Design documents for the AW Farm Infrastructure Design (Work Breakdown Structure 5.03.02.09.07.01). The documents will include the appropriate procurement/construction specifications, design drawings and engineering change notices.

Completion Document: Letter transmitting the AW Farm Infrastructure Design to the ORP.

## PBI-3.12 CLIN 3 AP Farm Infrastructure Design

Performance Fee value is established at \$100,000. \$0 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$100,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

Fee Structure: Straight-Line Method (September 30, 2013)

#### Desired Endpoint/Outcome

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the AP Farm Infrastructure Design documentation. The AP Infrastructure Design will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

Fee Bearing Milestones

1. AP Farm Infrastructure Design. The Contractor shall earn \$100,000 of incremental fee upon completion. Fee for this milestone is not available to be earned.

<u>Work Scope/Completion Criteria</u>: Complete Design documents for the AP Farm Infrastructure Design (Work Breakdown Structure 5.03.02.08.09.01). The documents will include the appropriate procurement/construction specifications, design drawings and engineering change notices.

<u>Completion Document</u>: Letter transmitting the AP Farm Infrastructure Design to the ORP.

## PBI-3.13 CLIN 3 Modeling and Planning to Establish RPP Technical Baseline (System Plan)

Performance Fee value is established at \$3,000,000. \$1,500,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$1,500,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Terminal (September 30, 2013)

Desired Endpoint/Outcome

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Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the annual updates of the RPP System Plan to reflect assumptions approved by the U.S. Department of Energy Office of River Protection and Hanford Tank Waste Operations Simulator modeling results. The annual updates will support waste transfers to the Waste Treatment Plant as prescribed in the RPP-40149 Integrated Waste Feed Delivery Plan to meet the mission performance expectations of the Department as stipulated within the contract.

#### Fee Bearing Milestones

1. Submit annual RPP System Plan revision. 2012 and 2013 annual revision submittals are not available to be earned. The Contractor shall earn \$750,000 per submittal of incremental fee upon completion of each annual update (total of \$1,500,000 of incremental fee is available and a total of \$1,500,000 of incremental fee is not available to be earned.).

Work scope/completion criteria: Annual updates of the RPP System Plan to reflect assumptions approved by the U.S. Department of Energy Office of River Protection and Hanford Tank Waste Operations Simulator modeling results.

Completion documents: Letter transmitting Contractor-approved RPP System Plan annual update to the ORP.

## PBI-3.14 CLIN 3 Issuance of the first Tank Waste Characterization Report

#### Performance Fee available and assigned to this PBI: \$ 250,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Completion of the initial release of the Tank 241-C-107 Waste Characterization Report will provide an expert engineering evaluation of the waste characteristics by combining process knowledge and available waste sample results. The short and long term strategic planning and support activities are completed in a manner that incrementally improves mission performance.

#### Fee Bearing Milestones

1. Issuance of the first tank waste characterization report (Tank 241-C-107 Waste Characterization Report). The Contractor shall earn \$250,000 of incremental fee upon completion.

<u>Work Scope/Completion Criteria</u>: Complete the initial release of the Tank 241-C-107 Waste Characterization Report. The Waste Characterization Report will provide an expert engineering evaluation of the waste characteristics by combining process knowledge and available waste sample results. The report (along with the BBI derivation document for the tank) will become the single-point reference for the current knowledge of waste in a tank. This report is the first of this series, so this report will set the standard for future tank characterization reports.

<u>Completion Document</u>: The Tank 241-C-107 Waste Characterization Report released as a WRPS technical document.

## PBI-3.15 CLIN 3 Data Quality Objective for Strategic Plan

#### Performance Fee available and assigned to this PBI: \$250,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the Data Quality Objectives to Support Strategic Planning. The data quality objects supports the data collection needed for strategic planning and mission analysis.

#### Fee Bearing Milestones

1. Data Quality Objectives to Support Strategic Planning. The Contractor shall earn \$250,000 of incremental fee upon completion.

Work Scope/Completion Criteria: Complete Revision 0 of the data quality objective document that supports the data collection needed for strategic planning and mission analysis.

Issues, including uncertainties and risks, associated with tank waste composition were identified during the waste treatment complex mission analysis and strategic planning process. These issues may have significant impacts on operations and efficiencies in the waste treatment complex. This document is important to ensure appropriate data (type, quantity, and quality) are collected to address the identified issues requiring existing tank waste data to evaluate and to project the future condition of the staged waste.

<u>Completion Document</u>: Letter transmitting completion and release of the document *Data Quality Objectives to Support Strategic Planning.* 

### PBI-3.16 CLIN 3 Best Basis Database Management

Performance Fee value is established at \$800,000. \$500,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$300,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Terminal Method (due 15 days after the end of each Quarter through September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the best basis inventory reports to support strategic planning. The data quality objects supports the data collection needed for strategic planning and mission analysis.

#### **Fee Bearing Milestones**

 Prepare and submit best basis inventory update reports on a quarterly basis. The last five (5) quarterly update reports are not available to be earned. The Contractor shall earn \$50,000 of incremental fee upon completion of each quarterly update report (total of \$500,000 of incremental fee is available and a total of \$300,000 of incremental fee is not available to be earned).

Work Scope/Completion Criteria: Complete quarterly update of the best basis inventory report.

<u>Completion Document</u>: Letter transmitting the best basis inventory update reports.

## PBI-3.17 CLIN 3 Waste Treatment Plant Operational Readiness Evaluation

Performance Fee value is established at \$2,000,000. \$1,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$1,000,000 is not allocated and is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee even if the workscope is complete.

**Fee Structure:** Terminal Method (Due 15 days after the end of the Semi-Annual timeframe for FY 2010 and Annual timeframe for September 30,2011 through September 30, 2013)

Milestone	Fee Value	Method	Amount allocated and available to be earned	Amount not allocated and not available to be earned
1	\$ 500,000	Terminal	\$ 500,000	\$0
2	\$1,500,000	Terminal	\$ 500,000	\$1,000,000
Total	\$2,000,000		\$1,000,000	\$1,000,000

#### Desired Endpoint/Outcome

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the Waste Treatment Plant (WTP) Operational Readiness Evaluation reports on a semi-annual basis for FY 2010 and submit the WTP Operational Readiness Support Report on an annual basis for FY 2011 through FY 2013. The in-process reviews of WTP Operational Readiness will identify recommendations for the resolution or mitigation of any issues or concerns which are identified to support the safe and efficient acceptance of the WTP facilities by the Contractor.

#### Fee Bearing Milestones

1. Prepare and submit the Waste Treatment Plant Operational Readiness Evaluation reports on a semi-annual basis. The Contractor shall earn \$250,000 of incremental fee upon completion of each semi-annual update (total \$500,000 available of incremental fee).

<u>Work Scope/Completion Criteria</u>: Complete the semi-annual Waste Treatment Plant Operational Readiness Evaluation that supports the WTP mission.

<u>Completion Document</u>: Letter transmitting the Waste Treatment Plant Operational Readiness Evaluation report.

Prepare and submit the WTP Operational Readiness Support Report on an annual basis.
 2012 and 2013 annual submittals are not available to be earned. The Contractor shall earn \$500,000 of incremental fee upon completion of each annual update (total of \$500,000 of

incremental fee is available and a total of \$1,000,000 incremental fee is not available to be earned).

Work Scope/Completion Criteria: Complete the annual WTP Operational Readiness Support Report that supports earliest effective operations of the WTP.

Completion Document: Letter transmitting the WTP Operational Readiness Support Report.

## PBI-3.18 CLIN 3 Complete Submittal of Documentation to Support Critical Decision 0 (CD-0) for the Supplemental Treatment Project

#### Performance Fee available and assigned to this PBI: \$300,000

**Fee Structure:** Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Submit to the U.S. Department of Energy, Office of River Protection (ORP), a Justification of Mission Need (JMN) document to support the CD-0 review and approval process for the Supplemental Treatment Project. The JMN shall be written in accordance with the requirements of DOE G 413.3-17, Mission Need Statement Guide. The Supplemental Treatment Project will provide additional processing capability for low activity waste (LAW).

#### Fee Bearing Milestones

1. Submit JMN for Supplemental Treatment Project to ORP. The Contractor shall earn \$300,000 incremental fee upon completion of this activity.

<u>Work Scope/Completion Criteria</u>: Complete submittal of a JMN document, written in accordance with the requirements of DOE G 413.3-17, Mission Need Statement Guide, to ORP for their use in the CD-0 review and approval process.

<u>Completion Document</u>: Letter transmitting the Supplemental Treatment Project Justification of Mission Need (JMN) to ORP.

## PBI-3.19 CLIN 3 Complete Submittal of Conceptual Design Report Documentation to Support Critical Decision 1 (CD-1) for the Supplemental Treatment Project

#### Performance Fee available and assigned to this PBI: \$750,000

Fee Structure: Straight-Line Method (September 30, 2013)

#### **Desired Endpoint/Outcome**

Complete and submit to the U.S. Department of Energy, Office of River Protection (ORP), the Supplemental Treatment Contractor-approved Conceptual Design Report in support of CD-1 documentation prescribed in DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets. The Supplemental Treatment Project will provide additional processing capability for low activity waste (LAW).

#### Fee Bearing Milestones

1. Submit a Contractor-approved Conceptual Design Report in support of CD-1 documentation package for Supplemental Treatment Project to ORP. The Contractor shall earn \$750,000 incremental fee upon completion of this milestone.

<u>Work Scope/Completion Criteria</u>: Complete a Contractor-approved Conceptual Design Report in support of CD-1 documentation submittal package for Supplemental Treatment Project.

Completion Document: Letter transmitting Conceptual Design Report to the ORP.

## PBI-3.20 CLIN 3 Flowsheet Development

#### Performance Fee available and assigned to this PBI: \$127,500

#### **Fee Structure:** Terminal Method (09/30/2010)

#### **Desired Endpoint/Outcome**

Develop preliminary flowsheets for Waste Feed Delivery, Single-Shell Tank (SST) Retrieval, and Supplemental Treatment.

#### Fee Bearing Milestones

1. Develop preliminary flowsheets for Waste Feed Delivery and SST Retrieval and perform a feed variability analysis for Supplemental Treatment by September 30, 2010. The Contractor shall earn \$127,500 of incremental fee.

<u>Work Scope/Completion Criteria</u>: Complete a flowsheet for delivery of HLW and LAW Hot Commissioning feed from double-shell tank AY-102 to the Waste Treatment Plant (WTP), a preliminary retrieval flowsheet that identifies potential flowsheet risks and risk mitigation activities for the next SST farms to be retrieved (A Farm and AX Farm), and a fluidized bed steam reformer feed variability analysis to support the WTP mission.

<u>Completion Document</u>: Letter transmitting the reports for the Waste Feed Delivery, Single-Shell Tank (SST) Retrieval, and Supplemental Treatment.

## PBI-3.21 CLIN 3 Life-Cycle Cost Model

#### Performance Fee available and assigned to this PBI: \$67,500

Fee Structure: Terminal Method (09/30/2010)

#### Desired Endpoint/Outcome

Complete Phase 1 of the Life-cycle Cost Model development.

#### Fee Bearing Milestones

1. Complete Phase 1 of the Life-cycle Cost Model development by September 30, 2010. The Contractor shall earn \$67,500 of incremental fee.

<u>Work Scope/Completion Criteria</u>: Complete Phase 1 of the Life-cycle Cost Model (LCM) development. This model is required to support the revised TPA milestones for System Planning in FY2011 and beyond. Phase 1 will develop a database for importing and exporting schedule and cost data from the HTWOS model and develop requirements in a Model Modification Request for implementing the LCM. The database will establish the initial crosstalk between Primavera P6 scheduling software and the HTWOS model.

<u>Completion Document</u>: Letter transmitting a Model Modification Request for implementing the Life-cycle Cost model into HTWOS.

# PBI-3.22 CLIN 3 Solid-Phase Aluminum Speciation

# Performance Fee available and assigned to this PBI: \$48,000

## **Fee Structure:** Terminal Method (09/30/2010)

### **Desired Endpoint/Outcome**

The speciation of aluminum in saltcake and sludges in all single-shell and double-shell tanks except those tanks where retrieval is complete is documented.

#### Fee Bearing Milestones

1. By September 30, 2010, estimate the aluminum species in sludge and saltcakes in the double-shell and single-shell tanks and submit report documenting the specific of aluminum in salt cake and sludges in all Single-shell and Double-shell tanks (except those tanks where retrieval is complete). The Contractor shall earn \$48,000 of incremental fee upon completion of the report.

<u>Work Scope/Completion Criteria</u>: This task will be to estimate the aluminum species in sludge and saltcakes in the double-shell and single-shell tanks. Specifically, this task will be to write a report that divides aluminum in solid phases between three different pools. These pools are: "easy to leach" aluminum, Boehmite (AIOOH), and refractor aluminum. These three pools correspond to aluminum fractions that behave differently during retrieval and leaching. "Easy to Leach" aluminum corresponds to aluminum that will be assumed to obtain solid-liquid chemical equilibrium during waste processing time frame. The "Boehmite" pool is defined as aluminum that only dissolves during caustic leaching process and never re-precipitates (consistent with the known behavior of the mineral boehmite in the waste). The "Refractory Aluminum" pool is aluminum that is expected to always remain in the solid phase during aqueous processing of the waste. This report will provide the speciation of the aluminum into pools, and will provide the methodology for doing so. This work is needed to provide a basis for predicting the partitioning of aluminum during waste treatment processes.

<u>Completion Document</u>: Letter transmitting a report documenting the speciation of aluminum in saltcake and sludges in all Single-shell and Double-shell tanks except those tanks where retrieval is complete.

# PBI-3.23 CLIN 3 Integrated Sample Analysis Plan

# Performance Fee available and assigned to this PBI: \$41,500

**Fee Structure:** Terminal Method (09/30/2010)

#### **Desired Endpoint/Outcome**

An integrated sample analysis plan for Fiscal Year (FY) 2011 for the double-shell, single-shell, and miscellaneous waste storage tanks is developed.

## Fee Bearing Milestones

1. Submit an Integrated Sample Analysis Plan for FY 2011 by September 30, 2010. The Contractor shall earn \$41,500 of incremental fee upon completion of the plan.

<u>Work Scope/Completion Criteria</u>: This task will be to develop an integrated sample analysis plan for FY 2011 for the double-shell, single-shell, and miscellaneous waste storage tanks. This plan will include the samples required for FY 2011, their drivers, applicable data quality objectives (DQOs), and associated schedule. The plan will also include a forecast of the sampling requirements for FY 2012 through 2016. These sampling events include grab samples, core samples, off-riser samples, vapor samples, and solids level measurements. Any new DQOs required for the post 2011 sampling events will also be listed and the schedule for their completion also provided.

Completion Document: Letter transmitting an Integrated Sample Analysis Plan for FY 2011.

# PBI-3.24 CLIN 3 Mission Analysis Report Updated

# Performance Fee available and assigned to this PBI: \$37,500

# Fee Structure: Terminal Method (09/30/2010)

### **Desired Endpoint/Outcome**

Issue a revised RPP Mission Analysis Report that provides assurance that the new initiatives are properly integrated into the baseline RPP mission architecture.

#### Fee Bearing Milestones

1. Submit the annual update of the RPP Mission Analysis Report, RPP-RPT-41742 by September 30, 2010. The Contractor shall earn \$37,500 of incremental fee upon completion of the report.

<u>Work Scope/Completion Criteria</u>: Complete the annual update of the RPP Mission Analysis Report, RPP-RPT-41742. The initial revision of the RPP Mission Analysis Report was completed in September 2009. Subsequent to that, significant new initiatives have been proposed to complete the RPP mission earlier and at a lower cost. An update to the RPP Mission Analysis Report is required to incorporate those initiatives as they are approved for implementation. This provides assurance that the new initiatives are properly integrated into the baseline RPP mission architecture.

<u>Completion Document</u>: Letter transmitting a revised RPP Mission Analysis Report (RPP-RPT-41742, Revision 1).

# PBI-Reserved - Unallocated Base Period Fee

Performance Fee unallocated value is established at \$7,897,568. \$1,072,663 of the total base period fee pool is available to be allocated. \$6,824,905 is not allocated and not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee.

 Total unallocated fee:
 \$1,072,663 (Mod 109)

 Base unallocated fee:
 \$1,072,663 (Mod 109)

 ARRA unallocated fee:
 \$0

Fee Structure: Method to be determined

Fee will be allocated to award fee or additional performance based incentives as the need is identified before the end of fiscal year 2012 for base fee, and before the end of FY 2011 for ARRA fee.

# PBI-7.1 CLIN 7 American Recovery and Reinvestment Act (ARRA) Program Reporting

**Performance Fee available and assigned to this PBI:** \$869,652 (5% of Available ARRA Fee Pool for FY 2010 and FY 2011)

Fee Structure: Terminal Method (Periodic deliverables through 9/30/2011)

## **Desired Endpoint/Outcome:**

Accurate and timely reporting of ARRA activities. Delivery of the weekly, monthly, and quarterly ARRA Program Reports.

## Fee Payment Schedule

The formula for applying this method is shown below:

Fee to be paid quarterly with the completion and submittal of

- Twelve (12) weekly reports,
- Six (6) monthly reports and
- Two (2) quarterly reports.

Fee calculation for each quarter payment is the FY 2010/FY 2011 ARRA Fee Pool dollars times 5% divided by eight quarters. (\$108,706 per quarter)

Fee earning per quarter is weighted as

- 20% Weekly Reports (\$21,741/12 weekly reports = \$1811.75per report)
- 60% Monthly Reports (\$65,224/6 monthly reports = \$10,870.75 per report)
- 20% Quarterly Reports (\$21,741/2 Quarterly reports = \$10,870.50 per report)

#### Fee Bearing Milestones

Weekly reports include:

• WRPS ARRA Weekly Performance Report submitted on Wednesday of each week, except for Thanksgiving and Christmas weeks.

Monthly reports include:

- WRPS Monthly ARRA Performance Report submitted the last Tuesday of each month.
- EM RA Status and Projected Site Headcount and Full-Time Equivalent (FTE) Information.

Quarterly reports include:

• WRPS Quarterly ARRA Performance Report submitted the last calendar day of the following month.

• Input to the federal reporting.gov website by the tenth calendar day of the month following the end of the quarter.

Work Scope/Completion Criteria: Submittal of weekly, monthly and quarterly reports to the ORP as outlined above.

<u>Completion Document</u>: Completion documentation will be the weekly, monthly and quarterly reports.

# PBI-7.2 CLIN 7 ARRA Key Performance Parameters

**Performance Based Incentive (PBI) Title**: Completion of Key Performance Parameters (KPP) associated with ARRA scope work for FY 2010 through FY 2011

Performance Fee available and assigned to this PBI: \$16,523.348

Milestone	Total
See Attachment	\$16,523,348
Total	\$16,523,348

Fee Structure: Terminal and Provisional Dependent

KPPs 1 through 8 are Terminal Method, with periodic deliverables through September 30, 2011, KPP 9 is Provisional Dependent, upon completion of KPPs 1 through 8

## Desired Endpoint/Outcome

ARRA funded activities and defined work packages are successfully completed within approved cost and schedule. The successful completion of each KPP.

## Fee Payment Schedule

KPP groupings are defined in the KPP American Recovery and Reinvestment Act (ARRA) Rate Schedule. The fee unit rate is defined by the Total Fee Value divided by the quantity identified in the KPP ARRA Rate Schedule. Fee calculation will be based on the completed performance measure/metric quantity(s) for that quarter multiplied by the fee unit rate. On a quarterly basis a milestone completion document for each of the performance measure/metric quantity(s) completed will be submitted for review and approval by the Office of River Protection (ORP). Fee associated with KPP 9, Waste Feed Preps and Project Closeout, cannot be earned until all other KPPs specified in the KPP ARRA Rate Schedule have been completed.

# Fee Bearing Milestones

1. Complete the KPPs identified in the attached KPP ARRA Rate Schedule and performance measure/metric quantity(s). Contractor shall earn incremental fee for each unit of work completed during the quarter.

<u>Work Scope/Completion Criteria</u>: For each performance measure/metric quantity the completion criterion is defined in the "Completion Evidence" column of the KPP ARRA Rate Schedule. When the completion criterion for a performance measure/metric quantity is completed, the PBI for that performance measure/metric quantity is complete

<u>Completion Document</u>: Submittal of Work Completion packages, as specified in the "Completion Evidence" column of the KPP ARRA Rate Schedule, and visual inspection by ORP.

# Attachment

# **KPP ARRA Rate Schedule**

Key Performance Parameter (KPP)		Completion Evidence	Performance Measure/Metric	QT Y	Total Fee Value (1,000)
1. Facility/Structure Upgrades		Upgrades installed in the field	Each facility/structure will be received/ installed/upgraded	10	\$1,565,390
2.	System Upgrades	Upgrades installed in the field	Each system will be received/ installed/upgraded	21	\$3,600,408
3.	Equipment/instr ument upgrades/Spares	Equipment/Instruments/Up grades/Spares are installed or received into warehouse (spares)	Each equipment upgrade will be received, refurbished or installed except spare parts will be received into warehouse	384	\$3,913,344
4.	D&D	System/Component Removed	Items will be removed/demolished	47	\$1,095,899
5.	System Demonstrations	Test Completion Report Issued	Individual Demonstrations are completed	6	\$2,817,696
6.	SY Farm Transfer Line Replacements	New Transfer Lines installed and construction complete (SL-180, SN-280, S1-177, SN-277, SN-278, SN-279, SN 285 and SN-286)	Replace 8 transfer lines	1	\$1,200,000
7.	AZ Condensate Line Installation	New Condensate Line installed and construction complete	New line Installed	1	\$699,053
8.	Drawing Reconstitution	Updated drawings electronically stored in IDMS system	Drawings field walked down, open ECN incorporated, and drawings revised and checked.	2171	\$939,218
9.	Waste Feed Preps and Project Closeout	Equipment, Instruments, Upgrades, Demos, Drawings and tests are complete, installed and reports/drawings issued	Installations, reports and drawing are issued	660	\$692,340
L		· · · · · · · · · · · · · · · · · · ·			\$16,523,348

# PBI-7.3 CLIN 7 ARRA AW-104 Corrosion Probe

# Performance Fee available and assigned to this PBI: \$253,000

**Fee Structure:** Terminal Method (September 30, 2011)

## **Desired Endpoint/Outcome**

ARRA funded activities and defined work scope are successfully completed within approved cost and schedule, and the successful completion of each ARRA PBI milestone.

## Fee Bearing Milestones

1. Design, fabricate, and install a corrosion probe in AW-104 by September 30, 2011. The Contractor shall earn \$253,000 of incremental fee upon completion of installation of the corrosion probe in AW-104.

Work Scope/Completion Criteria: Design, fabricate, and install corrosion probe in AW-104.

<u>Completion Document</u>: Letter transmitting performance expectation completion notice and copy of operations acceptance checklist from the installation work package documenting successful installation.

# PBI-7.4 CLIN 7 ARRA TY Farm Barrier

## Performance Fee available and assigned to this PBI: \$700,000

**Fee Structure:** Terminal Method (September 30, 2011)

#### **Desired Endpoint/Outcome**

ARRA funded activities and defined work scope are successfully completed within approved cost and schedule, and the successful completion of each ARRA PBI milestone.

#### Fee Bearing Milestones

1. Complete construction of the TY farm barrier. The Contractor shall earn \$500,000 of incremental fee upon completion of construction of the barrier.

<u>Work Scope/Completion Criteria</u>: Complete construction of the TY farm barrier. The Complete Construction Completion Document approved through Section 1a, "Completion of Construction and Construction Acceptance Testing," will be issued.

<u>Completion Document</u>: Letter transmitting the Construction Completion Document approved through Section 1a, "Completion of Construction and Construction Acceptance Testing."

2. Complete construction of the TY farm basin. The Contractor shall earn \$200,000 of incremental fee upon completion of construction of the TY farm basin.

<u>Work Scope/Completion Criteria</u>: Complete construction of the TY farm basin. The Complete Construction Completion Document approved through Section 1a, "Completion of Construction and Construction Acceptance Testing," will be issued.

<u>Completion Document</u>: Letter transmitting the Construction Completion Document approved through Section 1a, "Completion of Construction and Construction Acceptance Testing."

# PBI-7.5 CLIN 7 ARRA Mobile Arm Retrieval System Testing

# Performance Fee available and assigned to this PBI: \$895,000

### **Fee Structure:** Terminal Method (September 30, 2011)

### **Desired Endpoint/Outcome**

ARRA funded activities and defined work scope are successfully completed within approved cost and schedule, and the successful completion of each ARRA PBI milestone.

#### Fee Bearing Milestones

1. Complete the proof of principal testing of the Mobile Arm Retrieval System (MARS) to validate performance of key components and demonstrate systems unique to the vacuum configuration can be run in a sustained manner by September 30, 2010. The Contractor shall earn \$395,000 of incremental fee upon completion of the proof of principal testing.

<u>Work Scope/Completion Criteria</u>: Complete test report documenting completion of the proof of principal testing to validate performance of key components and systems. This testing will demonstrate the control system is capable of maintaining simulant levels in the separation tank during sustained operation.

Completion Document: Letter transmitting the proof of principal testing test report.

2. Complete the integrated testing of the MARS vacuum system by September 30, 2011. The Contractor shall earn \$500,000 of incremental fee upon completion of the integrated testing.

<u>Work Scope/Completion Criteria</u>: Complete the integrated testing of the MARS vacuum system and issue a final test report.

Completion Document: Letter transmitting the final test report issued.

# PBI-7.6 CLIN 7 ARRA AP Cathodic Protection

# Performance Fee available and assigned to this PBI: \$248,000

Fee Structure: Terminal Method (September 30, 2011)

## **Desired Endpoint/Outcome**

ARRA funded activities and defined work scope are successfully completed within approved cost and schedule, and the successful completion of each ARRA PBI milestone.

# Fee Bearing Milestones

1. Complete AP cathodic protection program system plan by September 30, 2011. The Contractor shall earn \$248,000 of incremental fee upon completion of the plan.

Work Scope/Completion Criteria: Complete AP cathodic protection program system plan.

<u>Completion Document</u>: Letter transmitting performance expectation completion notice and copy of the work package signature page documenting successful completion of the AP cathodic protection.