

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 4

2. AMENDMENT/MODIFICATION NO. 176
3. EFFECTIVE DATE See Block 16C
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

6. ISSUED BY CODE 00603
Office of River Protection
U.S. Department of Energy
Office of River Protection
P.O. Box 450
Richland WA 99352
7. ADMINISTERED BY (If other than Item 6) CODE 00603
Office of River Protection
U.S. Department of Energy
Office of River Protection
P.O. Box 450
MS: H6-60
Richland WA 99352

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
WASHINGTON RIVER PROTECTION SOLUTIONS LLC
Attn: KAREN VACCA
C/O URS ENERGY & CONSTRUCTION, INC.
PO BOX 73 / 720 PARK BLVD
BOISE ID 837290073
9A. AMENDMENT OF SOLICITATION NO. (x)
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO. x
DE-AC27-08RV14800
10B. DATED (SEE ITEM 13)
05/29/2008
CODE 806500521 FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Schedule

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

CHECK ONE
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)
X Clause B.5 Changes to Contract Cost and Fee and Clause B.7 Fee Structure

E. IMPORTANT: Contractor is not, is required to sign this document and return 0 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
See Continuation Page(s)
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)
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Susan C. Johnson
15B. CONTRACTOR/OFFEROR
(Signature of person authorized to sign)
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
Susan C. Johnson
(Signature of Contracting Officer)
16C. DATE SIGNED
07/19/2012

Purpose of Modification:

The following changes are hereby incorporated into the contract:

1. The Department of Energy is releasing hold on \$9,000,000.00 of fee.
2. Update Section J. Attachment J.4, Performance Evaluation Measurement Plan (PEMP), Attachment J.2 Performance Measures for Base Contract Period, Effective: FY2010 – 2013, to incorporate the following Performance Based Incentives (PBI) changes:

Deletions:

PBI-2.1.6	Complete Construction of S Farm Southeast Interim Surface Barrier - \$500,000.00
PBI-2.9.2	C-105 Complete Retrieval of 50% of the Waste by Volume - \$1,000,000.00
PBI-2.9.3	C-105 Complete Bulk Retrieval - \$2,000,000.00
PBI-3.2	HSF Project (Submit CD-2) - \$450,000.00
PBI-3.4	Secondary Waste Treatment/ETF (Submit CD-2) - \$450,000.00
PBI-3.6	AZ-101 Feed Delivery System Design - \$100,000.00
PBI-3.12	AP Farm Infrastructure Design - \$100,000.00

As a result of these deletions totaling \$4,600,000.00, the unallocated unavailable fee pool is increased by \$4,600,000.00.

Additions:

PBI-1.8.1	Complete of FAT of SmartPlant Foundation engineering information management system - \$100,000.00
PBI-1.8.2	Completion of Site Acceptance Testing of the SmartPlant Foundation engineering information management system with specific features for integrated document control and configuration management for the Tank Operations Contract - \$100,000.00
PBI-1.8.3	Implementation of the SmartPlant Foundation engineering information management system as the integrated document control and configuration management system for the Tank Operations Contract - \$300,000.00

- PBI-1.9.1 Increase rated maximum tank level in DST AP-101 - \$400,000.00
- PBI-1.9.2 Increase rated maximum tank level in DST AP-105- \$400,000.00
- PBI-1.12.1 AN Farm SN 264 Line Drainage - \$150,000.00
- PBI-2.20.1 Replace 241-AN-106 HIHTL - \$250,000.00

As a result of these new PBI milestones, the unallocated fee pool is decreased by \$1,700,000.00 and this fee is available to be earned.

Released from On Hold Status:

- PBI-1.3.4.10 Perform SY-102 UT examination - \$75,000.00
- PBI-1.3.5.013 Complete DST transfer system encasement pressure test of pipes - \$10,000.00
- PBI-1.3.5.014 Complete DST transfer system encasement pressure test of pipes - \$10,000.00
- PBI-1.3.5.015 Complete DST transfer system encasement pressure test of pipes - \$10,000.00
- PBI-1.3.5.016 Complete DST transfer system encasement pressure test of pipes - \$10,000.00
- PBI-1.3.5.141 Complete DST transfer system encasement pressure test of pipes - \$10,000.00
- PBI-1.7.3 AW-105 Install Corrosion Probe - \$150,000.00
- PBI-2.6.3 C-101 Complete Bulk Retrieval - \$2,000,000.00
- PBI-2.7.1 C-102 Complete Waste Retrieval System Construction - \$2,000,000.00
- PBI-2.7.2 C-102 Complete Retrieval of 50% of the Waste by Volume - \$1,000,000.00
- PBI-2.7.3 C-102 Complete Bulk Retrieval - \$2,000,000.00
- PBI-3.16.11 Completion of Best Basis Inventory Quarterly Reports – FY12 – Q3 - \$50,000.00
- PBI-3.16.12 Completion of Best Basis Inventory Quarterly Reports – FY12 – Q4 - \$50,000.00
- PBI-3.16.13 Completion of Best Basis Inventory Quarterly Reports – FY13 – Q1 - \$50,000.00
- PBI-3.16.14 Completion of Best Basis Inventory Quarterly Reports – FY13 – Q2 - \$50,000.00

As a result of these releases, the unallocated fee pool is decreased by \$7,475,000.00 and this fee is available to be earned.

3. Update Section J, Attachment J.4, PEMP, to update Table of Contents Pages J.4.2-2, J.4.2-3, and J.4-2-4.
4. Update Section J, Attachment J.4, PEMP, Page J.4.2-1, to update the Configuration Table to reflect the date of Modification 176 and to add Revision 22 of the PEMP as a result of this modification.
5. Update Section J, Attachment J.4, PEMP, to revise the PBI-Reserved-Unallocated Base Period Fee to reflect the PBI changes. The change is as follows:

FROM:

PBI-Reserved – Unallocated Base Period Fee

The Total Unallocated Base Period Fee value is **\$12,934,709**. The Total Available Unallocated Base Period Fee value is \$201,171. The Total Unavailable Unallocated Base Period Fee value is **\$12,733,538**. Unavailable Unallocated Base Period Fee is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee.

Available Unallocated Base Period Fee: **\$201,171 (Mod 167)**

Available Unallocated ARRA Fee: **\$ 0**

Total Available Unallocated Fee: \$201,171 (Mod 167)

TO:

PBI-Reserved – Unallocated Base Period Fee

The Total Unallocated Base Period Fee value is **\$15,659,709**. The Total Available Unallocated Base Period Fee value is \$26,171. The Total Unavailable Unallocated Base Period Fee value is **\$15,633,538**. Unavailable Unallocated Base Period Fee is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee.

Available Unallocated Base Period Fee: **\$26,171 (Mod 176)**

Available Unallocated ARRA Fee: **\$ 0**

Total Available Unallocated Fee: \$26,171 (Mod 176)

6. Attached to this modification are replacement pages for the following section:
 - Section J, Attachment J.4, Pages J.4-1, J.4.2-1, J.4.2-2 through J.4.2-4, J.4.2-26 through 28, J.4.2-34 through 47, J.4.2-57 through 60, J.4.2-63, J.4.2-79, J.4.2-81, J.4.2-83, J.4.2-85, J.4.2-91, J.4.2-95 and J.4.2-108.

Attachment 1

DE-AC27-08RV14800, MODIFICATION 176

Replacement Pages

(Total: Thirty-Seven (37) including this Cover Page)

- **Section J, Attachment J.4, Pages J.4-1, J.4.2-1, J.4.2-2 through J.4.2-4, J.4.2-26 through 28, J.4.2-34 through 47, J.4.2-57 through 60, J.4.2-63, J.4.2-79, J.4.2-81, J.4.2-83, J.4.2-85, J.4.2-91, J.4.2-95 and J.4.2-108.**

ATTACHMENT J.4

PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)

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	June 22, 2001 (Modification 111)	Adjust PBIs to reflect decrease in total available Base Period fee pool.
Revision 10	July 14, 2011 (Modification 118)	Increase unallocated fee pool amount
Revision 11	July 29, 2011 (Modification 123)	Increase unallocated fee pool amount
Revision 12	August 4, 2011 (Modification 126)	Increase unallocated fee pool amount
Revision 13	September 7, 2011 (Modification 128)	Misc Changes to PBIs 2.6 – 2.15
Revision 14	September 23, 2011 (Modification 131)	Increase unallocated fee pool amount
Revision 15	September 29, 2011 (Modification 135)	Increase unallocated fee pool amount
Revision 16	December 29, 2011 (Modification 142)	Adjust PBI's 1.4 and 2.1 to reflect increase in total available Base Period fee pool
Revision 17	January 27, 2012 (Modification 147)	Incorporate FY12 Award Fee Plan
Revision 18	February 15, 2012 (Modification 151)	Adjust PBIs and reflect adjusted total available Base Period Fee Pool
Revision 19	March 15, 2012 (Modification 158)	Add cost and fee for CLIN 3.4 – 4.4
Revision 20	April 4, 2011 (Modification 163)	Increase unallocated fee pool amount
Revision 21	May 29, 2012 (Modification 167)	Adjust PBIs and reflect adjusted total available Base Period Fee Pool
Revision 22	See Date of Modification 176	Adjust PBIs and reflect adjusted total available Base Period Fee Pool

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

Performance Fee value is established at \$3,195,000. \$2,895,000 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: 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	\$ 700,000	Straight-Line	\$ 700,000	\$0
4	\$1,635,000	Straight-Line	\$1,485,000	\$150,000
5	\$ 360,000	Straight-Line	\$ 310,000	\$ 50,000
Total	\$3,195,000		\$2,895,000	\$300,000

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 projects 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

1. 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).

Work scope/completion criteria: 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).)

Completion Document: 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).

Work scope/completion criteria: 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).

Completion Document: Letter transmitting performance expectation completion notice and receipt of procurements.

3. Complete four 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 and \$400,000 of incremental fee upon completion of exhauster upgrade of AP Farm Primary Exhauster Installation.

Work scope/completion criteria: Complete four DST upgrades: 1.) AY-101 ENRAF Densitometer, 2.) AZ-101 ENRAF Densitometer, 3.) AP Farm Primary Exhauster Installation, 4.) AW-102 ENRAF Densitometer, 5) DELETED Mod 151, 6) DELETED Mod 151.

Completion Document: 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 2 UT examination reports is not available to be earned) and \$75,000 of incremental fee upon completion for each video assessment report (8 reports) and a total of \$10,000 of incremental fee upon completion of each additional video assessment report (6 reports) (total of \$1,485,000 of incremental fee is available and a total of \$150,000 of incremental fee is not available to be earned).

Work scope/completion criteria: Perform UT examinations on thirteen (13) DSTs, perform seven (7) DST Annulus Video Assessments, and seven (7) DST Primary Video Assessments.

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

5. Complete DST transfer system encasement pressure tests of 20 pipes (fee on 4 pipes is not available to be earned) and pit coating inspections by a qualified National Association of Corrosion Engineering qualified inspector of 16 pits (fee on 1 pit coatings is not available to be earned). The Contractor shall earn \$10,000 of incremental fee completion of work scope for each encasement pressure check or pit coating inspection (total \$310,000 of incremental fee is available and a total of \$50,000 of incremental fee is not available to be earned).

Work scope/completion criteria: Perform transfer line encasement pressure checks of 20 (fee on 4 pipes is not available to be earned) transfer lines and pit coating inspections of 16 pits (fee on 1 pit coating is not available to be earned).

Completion Document: 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-1.7 CLIN 1 Tank Chemistry Control

Performance Fee value is established at \$1,750,000. \$1,750,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$0 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	\$ 700,000	Straight-Line	\$ 700,000	\$0
2	\$ 500,000	Straight-Line	\$ 500,000	\$0
3	\$ 150,000	Straight-Line	\$ 150,000	\$0
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		\$1,750,000	\$0

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

1. Remove and replace corrosion probe coupons for three DST corrosion probes. 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 \$700,000 of incremental fee is available to be earned). Note that replacement will only occur if required to support the Tank Operations Contract (TOC) mission.

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

Completion Document: 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.

Completion Document: 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.

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

Completion Document: 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.

Completion Document: 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.

Completion Document: 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.

Completion Document: 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.

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

PBI-1.8 CLIN 1 SmartPlant Foundation Implementation

Performance Fee value is established at \$500,000. \$500,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$0 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	\$100,000	Straight-Line	\$100,000	\$0
2	\$100,000	Straight-Line	\$100,000	\$0
3	\$300,000	Straight-Line	\$300,000	\$0
Total	\$500,000		\$500,000	\$0

Desired Endpoint/Outcome

Control of the configuration of structures, systems, and components (SSC) is essential to the safe, efficient management of the Hanford Tank Farms prior to and during tank waste treatment. This control requires the ability to readily identify the components of a given system or structure and the associated drawings and documents impacted by a change to the SSC. Identification of these impacts is difficult and inefficient with the systems in use in Tank Farms today, which contain information in separate disconnected systems. To resolve these issues, the TOC is implementing an integrated engineering information, document control, and configuration management system, based on the SmartPlant Foundation enterprise engineering information management system. Site licenses for SmartPlant Foundation have been procured to allow use of the software by both TOC and WTP. Software configuration and development will be completed to provide for the specific functionality required by the TOC for document and engineering information management and workflows for electronic creation, review, and approval of key work products.

Fee-Bearing Milestones

1. Completion of Factory Acceptance Testing of the SmartPlant Foundation engineering information management system with specific features for integrated document control and configuration management for the Tank Operations Contract (TOC). The Contractor shall earn \$100,000 of incremental fee upon completion of the work scope.

Work scope/completion criteria: Factory Acceptance Testing (FAT) of the SmartPlant Foundation engineering information management system shall be conducted at the software vendor's facilities in accordance with the System Test Plan. Testing shall demonstrate key functionality of the system including resolution of trouble reports and specific identified change requests from prior testing activities including testing revised functionality for interfacing with the Integrated Document Management System and for incorporation of vendor submittal work

processes. Any new issues identified during testing shall be logged and prioritized for need to resolve prior to Site Acceptance Testing and documented in a revision to the SmartPlant Foundation Factory Acceptance Test Report.

Completion Document: Issued SmartPlant Foundation System Test Plan, Requirements Traceability Matrix, and Factory Acceptance Test Report/s.

2. Completion of Site Acceptance Testing of the SmartPlant Foundation engineering information management system with specific features for integrated document control and configuration management for the TOC. The Contractor shall earn \$100,000 of incremental fee upon completion of the work scope.

Work scope/completion criteria: Site Acceptance Testing (SAT) of the SmartPlant Foundation engineering information management system shall be conducted with the software installed on the test server on the Hanford Local Area Network. Testing shall be in accordance with a documented System Test Plan/s. Testing shall demonstrate full functionality of the system in accordance with the test plan including resolution of trouble reports and specific identified change requests and will also test interfaces with existing Hanford Site systems that could not be fully tested at the software vendor's facilities. Any issues identified during testing shall be logged and prioritized for need to resolve prior to placing the software into production and documented in a Site Acceptance Test Report.

Completion Document: Issued SmartPlant Foundation System Test Plan/s, Requirements Traceability Matrix, and Site Acceptance Test Report/s.

3. Implementation of the SmartPlant Foundation engineering information management system as the integrated document control and configuration management system for the TOC. The Contractor shall earn \$300,000 of incremental fee upon completion of the work scope.

Work scope/completion criteria: The SmartPlant Foundation engineering information management system will be configured and installed on the Hanford Local Area Network providing an integrated document control and configuration management system for TOC. The installed software shall include resolutions for any issues identified from SAT as needed for production deployment. The system will contain key data for installed equipment for TOC facilities based on the current master equipment list in the maintenance management system. The system will also contain TOC documents and associated files based on information in the current document control system. The deployed system will include workflows to facilitate electronic review and approval of documents for the key engineering work processes as defined in the SmartPlant Foundation Functional Design Requirements Document, enabling critical relationships to be established and maintained between SSCs and related documents. Any issues identified as critical deficiencies in the Site Acceptance Test report shall be demonstrated to be resolved prior to declaring the software ready for production. The Version Description Document (VDD) in the Hanford Information System Inventory (HISI) shall be completed with reference to final documentation for the software and approval of the VDD by Quality Assurance, Chief Information Officer, and the Hanford Production Readiness Review Board (PRRB). Completion will be indicated by identification of the system status as operational in HISI.

Completion Document: Letter transmitting the performance expectation completion notice and copy of the printable view from HISI showing the system status as operational and providing the approved Version Description Document indicating completion of and referencing required software quality assurance documents.

PBI-1.9 CLIN 1 Increase Rated Maximum Tank Level AP-101 and AP-105

Performance Fee value is established at \$800,000. \$800,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$0 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	\$400,000	Straight-Line	\$400,000	\$0
2	\$400,000	Straight-Line	\$400,000	\$0
Total	\$800,000		\$800,000	\$0

Desired Endpoint/Outcome

Increase the fill height in the AP farm tanks will provide the double-shell tank space needed to support future single-shell tank retrievals.

Fee Bearing Milestones

1. Complete work to increase the rated maximum tank level in DST AP-101. The Contractor shall earn \$400,000 of incremental fee upon completion.

Work scope/completion criteria: Complete work to increase the rated maximum tank level in AP-101 in accordance with applicable requirements in RPP-19438, "Report of Expert Panel Workshop for Hanford Site Double-Shell Tank Waste Increase." The following identifies the work necessary to complete this evolution:

- a. Issue a Process Control Plan which provides direction to Operations during level rise activity in DST AP-101.
- b. Revise the Operating Specification Document to allow increase in operating limit for DST AP-101.
- c. Issue a technical operating procedure to perform level rise of DST AP-101.
- d. Perform the necessary transfer into and out of DST AP-101.

Completion document: Letter transmitting the Performance Expectation Completion Notice and completed Final Material Balance datasheets documenting the level rise test was successfully completed to increase the maximum level rating in DST AP-101.

2. Complete work to increase the rated maximum tank level in DST AP-105. The Contractor shall earn \$400,000 of incremental fee upon completion.

Work scope/completion criteria: Complete work to increase the rated maximum tank level in AP-105 in accordance with applicable requirements in RPP-19438, "Report of Expert Panel Workshop for Hanford Site Double-Shell Tank Waste Increase." The following identifies the work necessary to complete this evolution:

- a. Issue a Process Control Plan which provides direction to Operations during level rise activity in DST AP-105.
- b. Revise the Operating Specification Document to allow increase in operating limit for DST AP-105.
- c. Issue a technical operating procedure to perform level rise of DST AP-105.
- d. Perform the necessary transfer into and out of DST AP-105.

Completion document: Letter transmitting the Performance Expectation Completion Notice and completed Final Material Balance datasheets documenting the level rise test was successfully completed to increase the maximum level rating in DST AP-105.

PBI-1.12 CLIN 1 AN Farm Process Readiness

Performance Fee value is established at \$150,000.

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	\$150,000	Straight-Line	\$150,000	\$0
Total	\$150,000		\$150,000	\$0

Desired Endpoint/Outcome

The AN Farm is one of the main support farms for retrieval and success in all retrievals is highly dependent on the AN farm being fully functional. Additionally the Farm has planned capital and infrastructure upgrades planned in the near future. To support the retrieval and follow on WTP mission the farms must be in a state of readiness. Currently the farms have areas of improvement that will either reduce the risk of issues associated with maintaining the farms by increasing the farms ability to make a repeatable process and decrease legacy issues associated with failed or aging equipment. The desired outcome is to place the farm in a state that is ready to allow major upgrades and operational activities while minimizing any impacts associated with legacy equipment, labels, infrastructure, or housekeeping items.

Fee-Bearing Milestones

1. Drain SN-264 line of waste containing material. The Contractor shall earn \$150,000 of incremental fee for completion of line draining.

Work scope/completion criteria: During the 241-AN-A valve pit upgrade work performed in June 2011, liquid tank waste was observed inside of the vertical Nozzle 15 which is the high point of transfer line SN-264. Transfer line SN-264 is a 3-inch line which begins at the 241-AN-A valve pit and terminates at the 241-AN-04A central pump pit. There is a process blank installed on the low point of the line in the 241-AN-04A central pump pit preventing liquid from draining into 241-AN-104 Double-Shell Tank. SN-264 is a noncompliant deferred use transfer line and the discovery of liquid in this line proposes additional risks to the transfer line itself for future uses. Draining of SN-264 will decrease risk associated with future potential uses of this transfer line in support transfers to WTP.

Completion Document: Letter to ORP transmitting the performance expectation completion notice and copy of the completed work package demonstrating drainage of SN-264 line.

PBI-2.1 CLIN 2 Vadose Zone/Barriers

Performance Fee value is established at \$7,550,000. \$6,950,000 of the total base period fee pool has been allocated to this PBI and is available to be earned. \$600,000 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

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	\$ 450,000	Terminal	\$ 450,000	\$0
3	\$ 250,000	Terminal	\$ 250,000	\$0
4	\$ 600,000	Terminal	\$ 400,000	\$0
5 Deleted (Mod 151)	\$ 0	Terminal	\$ 0	\$0
6 Deleted (Mod 176)	\$ 0	Terminal	\$ 0	\$0
7	\$3,400,000	Terminal	\$2,200,000	\$0
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	\$0
12	\$ 150,000	Terminal	\$ 150,000	\$0
Total	\$7,550,000		\$6,950,000	\$ 600,000

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).

Work scope/completion criteria: 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.

Completion documents: 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.

2. Perform vadose zone electrical resistivity characterization, including SGE and use of deep electrodes as appropriate, for three potential barrier sites. The Contractor shall earn \$150,000 of incremental fee upon completion of resistivity characterization of each site (total \$450,000 available incremental fee).

Work scope/completion criteria: 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) by 3/31/2011
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) by 3/31/2012
4. DELETED (MOD 151)

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

Completion documents: 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.

Work/scope/completion criteria: 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.

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

4. Complete design of two Tank Farm Interim Surface Barriers. 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 (total of \$400,000 of incremental fee is available).

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

1. SX farm south
2. SX farm north
3. Deleted (Mod 167)

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 (HDGS).

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

5. DELETED (Mod 151)
6. DELETED (Mod 176).
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

		samples)	
7	4	Direct push soil characterization in WMA C – 3 locations (24 samples)	\$600,000
7	5	DELETED Mod 151	\$0
7	6	DELETED Mod 167.	\$0
7	7	DELETED Mod 167.	\$0
7	8	Direct push soil characterization in WMA C – 1 location (8 samples)	\$200,000
Milestone 7 Total			\$2,200,000 available to be earned

Work scope/Completion Criteria: 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.

Completion documents: 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.

8. 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).

Work scope/completion criteria: 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.

Completion document: 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.

Work scope/completion criteria: 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.

Completion document: 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.

Work scope/completion criteria: 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.

Completion document: 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.

Work scope/completion criteria: 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.

Completion document: 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.

Work scope/completion criteria: 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.

Completion document: Letter transmitting a report of pipeline leak detection technology field test.

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. \$5,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned.

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
Total	\$5,000,000		\$5,000,000	\$0

Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B. Fee for the following milestones shall be earned in sequential order, i.e. fee for completion of a milestone shall not be awarded until the fee for the previous milestone has been awarded.

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.

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.

Completion Document: 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.

Work scope/completion criteria: 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.

Completion document: 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.

Work scope/completion criteria: Complete bulk waste retrieval to the performance requirements of the Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment or to the limits of the initially deployed waste retrieval technology.

Completion document: 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. \$5,000,000 of the total base period fee pool has been allocated to this PBI and is available to be earned.

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
Total	\$5,000,000		\$5,000,000	\$0

Desired Endpoint/Outcome

Completion of tank waste retrieval activities to meet or exceed performance requirements in the "Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B. Fee for the following milestones shall be earned in sequential order, i.e. fee for completion of a milestone shall not be awarded until the fee for the previous milestone has been awarded.

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.

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.

Completion Document: 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.

Work scope/completion criteria: 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.

Completion document: 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.

Work scope/completion criteria: Complete bulk waste retrieval to the performance requirements of the Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment or to the limits of the initially deployed waste retrieval technology.

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

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

Performance Fee value is established at \$2,000,000. \$0 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	\$0	\$2,000,000
2	Deleted (Mod 176)			
3	Deleted (Mod 176)			
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 "Consent Decree and Tri-Party Agreement Modifications for Hanford Tank Waste Treatment" Appendix B. Fee for the following milestones shall be earned in sequential order, i.e. fee for completion of a milestone shall not be awarded until the fee for the previous milestone has been awarded.

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.

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 1a, will be completed.

Completion Document: Contractor approved, Construction Completion Document through Section 1a, 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.

PBI-2.20 CLIN 2 Replace 241-AN-106 HIHTL

Performance Fee value is established at \$250,000.

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	\$250,000	Straight-Line	\$250,000	\$0
Total	\$250,000		\$250,000	\$0

Desired Endpoint/Outcome

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

Fee Bearing Milestones

1. Complete layout and replacement of AN-106 Hose-In-Hose Transfer Lines (HIHTLs). The HIHTL from POR104 to Double Shell Tank (DST) Receiver tank 241-AN-106 will be replaced with new HIHTLs. Replaced HIHTLs include:
 - Slurry line Hose-in-Hose Transfer Line (HIHTL) segments (Serial # I-19643-1 and I-19643-3).
 - Supernate HIHTL segments (I-68511-01 and I-68511-02).

New replacement of HIHTL is necessary to replace existing expiring (8/31/12) HIHTLs. Replacement of HIHTL allows performance of retrieval operations in Tank 241-C-110 and 241-C-105. Install replacement HIHTL to 241-AN-106 by September 30, 2013. The Contractor shall earn \$250,000 of incremental fee upon completion of the HIHTL replacement.

Work Scope/Completion Criteria: Complete new HIHTL layout replacement of POR104 to AN-106 hose-in-transfer lines. Field work packages will be approved through Operations Acceptance.

Completion Document: Transmit PECN, completed work packages through Operations Acceptance, and Independent Qualified Registered Professional Engineer letter to the 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)**

PBI DELETED (Mod 176)

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

PBI DELETED (Mod 176)

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

PBI DELETED (Mod 176)

PBI-3.12 CLIN 3 AP Farm Infrastructure Design

PBI DELETED (Mod 176)

PBI-3.16 CLIN 3 Best Basis Database Management

Performance Fee value is established at \$800,000. \$700,000 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: 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

1. Prepare and submit best basis inventory update reports on a quarterly basis. The last two (2) 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 \$700,000 of incremental fee is available and a total of \$100,000 of incremental fee is not available to be earned).

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

Completion Document: Letter transmitting the best basis inventory update reports.

PBI-Reserved - Unallocated Base Period Fee

The Total Unallocated Base Period Fee value is \$15,659,709. The Total Available Unallocated Base Period Fee value is \$26,171. The Total Unavailable Unallocated Base Period Fee value is \$15,633,538. Unavailable Unallocated Base Period Fee is not available to be earned. The Contractor is not entitled to this unallocated and unavailable fee.

Available Unallocated Base Period Fee:	\$26,171 (Mod 176)
Available Unallocated ARRA Fee:	\$ 0
Total Available Unallocated Fee:	\$26,171 (Mod 176)

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.