

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1 OF 3
2. AMENDMENT/MODIFICATION NO. A160		3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO. NA		5. PROJECT NO. (If applicable)
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE			
U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352		Cloette B. Reid 509-373-6140 Cloette_b_reid@orp.doe.gov			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)			<input type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO.	
CH2M HILL Hanford Group, Inc. P.O. Box 1500 Richland, WA 99352			<input type="checkbox"/>	9B. DATED (SEE ITEM 11)	
			<input checked="" type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ ORDER NO. DE-AC27-99RL14047	
			<input checked="" type="checkbox"/>	10B. DATED (SEE ITEM 13) October 1, 1999	
CODE		FACILITY CODE			
11. THIS ITEM APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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 DATE AND HOUR 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 amendment and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (if required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS SET FORTH IN ITEM 14.					
<input type="checkbox"/> 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.					
<input type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO AUTHORITY OF FAR 43.103(b).					
<input checked="" type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF: Contract Clause I.65, FAR 52.243-2 Changes-Cost Reimbursement (AUG 1987) – Alternate II (APR 1984)					
<input type="checkbox"/> D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>2</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
A. The purpose of this modification is to amend Section J, Appendix D, Performance Based Incentive (PBI), 3.					
See following page(s)					
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) Daniel B. Cartmell, Vice President and Chief Financial Officer			16A NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Cloette B. Reid, Contracting Officer		
15B. CONTRACTOR/OFFEROR ORIGINAL SIGNED BY _____ (Signature of person authorized to sign)		15C. DATE SIGNED 7/1/08	16B. UNITED STATES OF AMERICA ORIGINAL SIGNED BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 7/8/08

2. Description of Modification:

- a. The scope of work for PBI 3 is *Waste Retrieval of Single-Shell Tanks*. The incentivized milestones and associated **acceleration fee** for work scope to complete waste retrievals from additional SSTs of new start C-Farm SST after 3.2.a and 3.2.b (C-104 or other C Farm SST with ORP concurrence) to be completed by September 30, 2008 was \$3,450,000.

Milestone element 3.b.4, Retrieval of 75% of the Waste by Volume, for available **acceleration fee** of \$450,000 upon completion and the completion criteria associated with it are hereby deleted, reducing available acceleration fee for this component from \$3,450,000 to \$3,000,000 at the stated completion points.

- b. Additional work scope and corresponding **acceleration fee** for PBI 3.4 for the removal and package for shipment S-Farm temporary, shielded, above-ground transfer lines by September 30, 2008 follows. The Contractor shall earn \$450,000 **acceleration fee** at the following completion points.

PBI No.	Milestones	Acceleration Fee
3.4.a	Complete removal of the interim stabilization hose-in-hose transfer line (HIHTL) from S-C valve pit to S-A valve pit (RBHS-2FHT-4FINS) and package for shipment by September 30, 2008	\$70,000
3.4.b	Complete removal of the interim stabilization HIHTL from tank S-111 to S-C valve pit (CHG-2QHT-4QINS) and package for shipment by September 30, 2008.	\$70,000
3.4.c	Complete removal of the interim stabilization HIHTL from tank S-101 to S-A valve pit (CHG-2RHT-4RINS) and package for shipment by September 30, 2008.	\$70,000
3.4.d	Complete removal of the interim stabilization HIHTL from tank S-107 to S-C valve pit (CHG-2SHT-4SINS) and package for shipment by September 30, 2008.	\$70,000
3.4.e	Complete removal of the HIP line from the S-B valve pit to the S-D valve pit (no ID number) and package for shipment by September 30, 2008.	\$100,000
3.4.f	Complete removal of the S-112 HIHTL from tank S-112 to the S-A (I-21844-0-3) and package for shipment by September 30, 2008.	\$70,000
Total		\$450,000

- c. Authorization to commence work on the new scope was given on June 16, 2008.

- d. Upon completion, the Contractor shall be paid **acceleration fee** in accordance with Contract Clause H.1 (f).
 - e. Amended PBI 3 and its Completion Criteria are attached.
- C. All other terms and conditions of this contract remain the same.

Attached PBI 3 and its Completion Criteria are not numbered pages of this modification but are incorporated into the contract

PBI-3

Performance Based Incentive (PBI) Title: Single-Shell Tank (SST) Waste Retrieval

Performance Fee available and assigned to this PBI: \$11,250,000

ORP Assistant Manager:	ORP POC:	CH2M Manager:	CH2M POC:
Stacy Charbonough	Ben Harp		

Desired Endpoint/Outcome

Complete interim retrieval activities that meet and/or exceed requirements established in the Hanford Federal Facility Agreement and Consent Order (HFFACO) or Tri-Party Agreement M-45 series milestones and Appendix I, Single-Shell Tank System Waste Retrieval and Closure Process. The Contractor is responsible for establishing the technical and regulatory pathway for tank farm retrieval (including National Environmental Policy Act, M-45 requirements, U.S. Department of Energy (DOE) Order 435.1, "Radioactive Waste Management," requirements, etc.). Additionally, the Contractor will develop and demonstrate the retrieval capability including the use of risk-informed approaches to properly align the retrieval, and closure approaches with the risk associated with the wastes in each tank.

Fee Payment Schedule

Upon completion of each fee bearing milestone set forth herein, Contractor will be paid incremental fee, in accordance with Contract Clause H.2, "Provisional and Incremental Payments of Fee."

The fee bearing milestones shall be completed by the delivery schedule date. If the delivery schedule date is not achieved the unearned fee will be reduced to the following amounts: 90% for first quarter, 80% for second quarter, 50% for third quarter, and entire amount for one year.

Fee Bearing Milestones

"Complete waste retrieval" shall mean completion to the goals of the HFFACO and submittal of the retrieval data report in accordance with Appendix I or with ORP concurrence, the appropriate Appendix H documentation.

1. Complete Waste Retrievals from the following SSTs that are in progress. Performance Fee: **\$5,350,000**
 - a. Complete waste retrieval of C-204 by September 30, 2007. The Contractor shall earn **\$325,000** of incremental fee at the completion of retrieval.
 - b. Complete waste retrieval of C-103 by September 30, 2007. The Contractor shall earn **\$25,000** of incremental fee at the completion of retrieval.
 - c. Complete waste retrieval of S-102 by September 30, 2008. The Contractor shall earn **\$4,000,000** incremental fee at the following completion points. Completion of retrieval operations on or before March 31, 2007 (HFFACO milestone M-45-05A). The Contractor shall earn an additional **\$500,000** in Acceleration Fee.

	Milestones	Incremental Fee
1	Completion of Construction and operational acceptance testing of a new retrieval technology or technique consistent with the approved Functions and Requirement or equivalent document.	\$750,000

2	Retrieval of 65% of the waste by volume	\$750,000
3	Retrieval of 80% of the waste by volume	\$850,000
4	Completion of retrieval operations	\$1,550,000
5	Complete Retrieval Data Report	\$100,000

- d. Complete waste retrieval of S-112 by September 30, 2008. The Contractor shall earn \$1,000,000 incremental fee at the completion of retrieval.

	Milestones	Incremental Fee
1	Completion of retrieval operations	\$900,000
2	Complete Retrieval Data Report	\$100,000

2. Complete Waste Retrievals from additional SSTs. Performance Fee: \$5,900,000

- a. Complete waste retrieval of next new start C-Farm SST, (C-108 or other C Farm SST with ORP concurrence) by September 30, 2008. The Contractor shall earn \$2,900,000 of incremental fee at the following completion points.

	Milestones	Incremental Fee
1	Completion of Construction and operational acceptance testing consistent with the approved Tank Waste Retrieval Work Plan.	\$500,000
2	Retrieval of 25% of the waste by volume	\$500,000
3	Retrieval of 50% of the waste by volume	\$500,000
4	Retrieval of 75% of the waste by volume	\$500,000
5	Completion of retrieval operations	\$900,000

- b. Complete waste retrieval of next new start C-Farm SST after 2.a. (C-109 or other C Farm SST with ORP concurrence) by September 30, 2008. The Contractor shall earn \$3,000,000 of incremental fee at the following completion points.

	Milestones	Incremental Fee
1	Completion of Construction and operational acceptance testing consistent with the approved Tank Waste Retrieval Work Plan	\$500,000
2	Retrieval of 25% of the waste by volume	\$500,000
3	Retrieval of 50% of the waste by volume	\$500,000
4	Retrieval of 75% of the waste by volume	\$500,000
5	Completion of retrieval operations	\$900,000
6	Complete Retrieval Data Report	\$100,000

- c. Completion of retrieval operations and demonstration that the TPA volume goal has been achieved for new start retrievals identified in milestones 2.a, and/or 2.b utilizing HFFACO approved Data Quality Objectives. The Contractor shall earn an additional \$500,000 in Acceleration Fee for each retrieval (2.a and/or 2.b).

3. Complete Waste Retrievals from additional SSTs.

- a. Complete waste retrieval of new start C-Farm SST after 2.a and 2.b. (C-110 or other C Farm SST categorized as an assumed leaker with ORP concurrence) by September 30, 2008. The retrieval technology/technique shall be designed for use in a 100 series SST which has assumed to leaked. The Contractor shall earn **\$3,000,000** acceleration fee at the following completion points.

	Milestones	Acceleration Fee
1	Completion of Construction and operational acceptance testing consistent with the approved Tank Waste Retrieval Work Plan	\$1,000,000
2	Retrieval of 25% of the waste by volume	\$1,500,000
3	Retrieval of 50% of the waste by volume	\$500,000

- b. Complete waste retrieval of new start C-Farm SST after 2.a and 2.b. (C-104 or other C Farm SST with ORP concurrence) by September 30, 2008. The Contractor shall earn **\$3,000,000** acceleration fee at the following completion points.

	Milestones	Acceleration Fee
1	Completion of Construction and operational acceptance testing consistent with the approved Tank Waste Retrieval Work Plan.	\$1,000,000
2	Retrieval of 25% of the waste by volume.	\$1,500,000
3	Retrieval of 50% of the waste by volume	\$500,000

4. Complete removal and package for shipment S-Farm temporary, shielded, above-ground transfer lines by September 30, 2008. The Contractor shall earn **\$450,000** acceleration fee at the following completion points:

- a. Complete removal of the interim stabilization hose-in-hose transfer line (HIHTL) from S-C valve pit to S-A valve pit (RBHS-2FHT-4FINS) and package for shipment by September 30, 2008. The Contractor shall earn **\$70,000** of acceleration fee at the completion of removal of this HIHTL.
- b. Complete removal of the interim stabilization HIHTL from tank S-111 to S-C valve pit (CHG-2QHT-4QINS) and package for shipment by September 30, 2008. The Contractor shall earn **\$70,000** of acceleration fee at the completion of removal of this HIHTL.
- c. Complete removal of the interim stabilization HIHTL from tank S-101 to S-A valve pit (CHG-2RHT-4RINS). The Contractor shall earn **\$70,000** of acceleration fee at the completion of removal of this HIHTL.
- d. Complete removal of the interim stabilization HIHTL from tank S-107 to S-C valve pit (CHG-2SHT-4SINS) and package for shipment by September 30, 2008. The Contractor shall earn **\$70,000** of acceleration fee at the completion of removal of this HIHTL.
- e. Complete removal of the HIP line from the S-B valve pit to the S-D valve pit (no ID Number) and package for shipment by September 30, 2008. The Contractor shall earn **\$100,000** of acceleration fee at the completion of removal.
- f. Complete removal of the S-112 HIHTL from tank S-112 to the S-A (I-21844-0-3) and package for shipment by September 30, 2008. The Contractor shall earn **\$70,000** of acceleration fee at the completion of removal of this HIHTL.

Government Furnished Services/Items (GFS/I)

Provide DOE review/approval of HFFACO deliverables within 15 working days of receipt, except as specified below.

The Office of River Protection (ORP) will respond to all other Contractor submittals (e.g., Authorization Basis, Safety Analysis Reports, Baseline Change Requests) required to complete this activity within 15

working days provided the submittals are complete and ORP is provided with reasonable notice of the intent to submit.

If Critical Decision process is required, then action will be taken by the ORP decision authority within 15 working days of submittal. If the decision authority is at DOE Headquarters then action will be taken by the DOE Headquarters decision authority within 30 working days of submittal.

Definitions

"GFS/I" are those work elements that the DOE commits to perform to support the completion of this PBI. If DOE cannot provide GFS/I as described herein, then it shall be treated as a change in accordance with Contract Clause I.64, Federal Acquisition Regulation 52.243-2, "Changes-Cost Reimbursement, Alt II."

The Retrieval Report, as defined in Tank Farm Procedure TFC-ENG-CHEM-P-47, Rev A-1, January 20, 2005, Single-Shell Tank Retrieval Completion Evaluation, will be submitted to the ORP at the completion of bulk retrieval operations documenting technical information upon which the decision to cease retrieval operations was based.

The Tank Waste Retrieval Work Plan shall be developed in accordance with the HFFACO Appendix I.

Tank Farm Procedure TFC-PRJ-PM-C-03, Project Tailoring Approach, will be utilized to determine project delivery and execution requirements.

Signature Block

ORIGINAL SIGNED BY	7/1/08
_____ John C. Fulton, President and Chief Executive Officer, CH2M HILL Hanford Group, Inc.	_____ Date

ORIGINAL SIGNED BY	7/3/08
_____ Shirley J. Oliniger, Manager U.S. Department of Energy, Office of River Protection	_____ Date

**Completion Criteria
PBI-3 Single-Shell Tank (SST) Retrieval**

1. Complete Waste Retrievals from the following SSTs that are in progress:
 - a. Complete waste retrieval of C-204.
 - Work scope/completion criteria: "Complete waste retrieval" shall mean completion to the goals of the HFFACO for residuals and submittal of the Retrieval Data Report in accordance with Appendix I or the appropriate Appendix H documentation.
 - Completion document: Submit the Retrieval Data Report for 241-C-204 documenting the completion of retrieval operations. With ORP concurrence, an Appendix H exception request may be issued in lieu of a Retrieval Data Report in accordance with HFFACO Appendix I. If the limits of waste retrieval technology capability is reached; the volume goal have not been achieved; and it is determined, with ORP concurrence, that the Appendix H documentation is not appropriate, the submittal of the Retrieval Report shall be the completion criteria of "complete waste retrieval".
 - b. Complete waste retrieval of C-103.
 - Work scope/completion criteria: "Complete waste retrieval" shall mean completion to the goals of the HFFACO for residuals and submittal of the Retrieval Data Report in accordance with Appendix I or the appropriate Appendix H documentation. If the limits of waste retrieval technology capability is reached; the volume goal have not been achieved; and it is determined, with ORP concurrence, that the Appendix H documentation is not appropriate, the submittal of the Retrieval Report shall be the completion criteria of "complete waste retrieval".
 - Completion document: The 241-C-103 Retrieval Data Report, Appendix H exception, or Retrieval Report as identified in the completion criteria.
 - c. Complete waste retrieval of S-102. The tank contains approximately 211,000 gallons of the initial 465,000 gallons of a mixture of Salt and Sludge materials. New retrieval technology/technique for use in this SST as needed to complete the retrieval. New technology/technique will be developed, implemented into the appropriate regulatory documentations, constructed, and retrieval completed.

Milestones
<ol style="list-style-type: none">1. Completion of Construction and operational acceptance testing of a new retrieval technology or technique consistent with an approved Functions and Requirements or equivalent document.<ul style="list-style-type: none">• Work scope/completion criteria: Complete waste retrieval system construction and turnover to operations. Operations related OTP will be completed and OTRs will be approved by the Contractor. The Construction Completion Documents, Section IIb, "Completion of Exceptions," will be completed and approved by the Contractor, including Operations. References: 1) S-102 Initial Waste Retrieval Functions and Requirements 2) Construction Completion and Turnover, TFC-PRJ-CM-C-08, Rev B, issued May 8, 2006.• Completion Document: Contractor approved, including Operations, Construction

June 25, 2008

Completion Document through Section IIb, "Completion of Exceptions" for the above listed work.
<p>2. Retrieval of 65% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 65% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 65% of the initial waste volume.
<p>3. Retrieval of 80% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 80% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 80% of the initial waste volume.
<p>4. Completion of retrieval operations.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Complete waste retrieval to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones for residues. If the limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has not been achieved, then implementation of additional retrieval technologies <u>is within the scope</u>.• Completion document: Retrieval Report documenting the completion of retrieval operations.
<p>5. Complete Retrieval Data Report.</p> <ul style="list-style-type: none">• Work scope/completion criteria: The limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has been achieved. Perform residual characterization and volumetric measurements and prepare a Retrieval Date Report in accordance with HFFACO, Appendix I.• Completion document: Retrieval Data Report in accordance with HFFACO, Appendix I. <p>(Note: With ORP concurrence, an Appendix H exception may be issued in lieu of a Retrieval Data Report. In this case, fee allowed for the Retrieval Data Report would be provided for the Appendix H exception. This incentive is forfeited if the volume goal is not achieved and ORP does not concur with proceeding with an Appendix H exception.)</p>

Completion of retrieval operations on or before March 31, 2007 (HFFACO milestone M-45-05A).

- Work scope/completion criteria: Complete waste retrieval on or before March 31, 2007 to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones for residues and demonstration of the limit of the waste retrieval technology. If the limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has not been achieved, then implementation of additional retrieval technologies is within the scope.
 - Completion document: Retrieval Report documenting the completion of retrieval operations.
- d. Complete waste retrieval of S-112. The tank contains approximately 5,000 gallons of the initial 655,000 gallons of a mixture of Salt and Sludge materials. New retrieval technology/technique for use in this SST is needed to complete the retrieval. New technology/technique will be developed, implemented into the appropriate regulatory documentations, constructed, and retrieval completed.

Milestones
<p>1. Completion of retrieval operations.</p> <ul style="list-style-type: none"> • Work scope/completion criteria: Complete waste retrieval to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones for residues. If the limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has not been achieved, then implementation of additional retrieval technologies <u>is within the scope</u>. • Completion document: Retrieval Report documenting the completion of retrieval operations.
<p>2. Complete Retrieval Data Report.</p> <ul style="list-style-type: none"> • Work scope/completion criteria: The limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has been achieved. Perform residual characterization and volumetric measurements and prepare a Retrieval Data Report in accordance with HFFACO, Appendix I. • Completion document: Retrieval Data Report in accordance with HFFACO, Appendix I. <p>(Note: With ORP concurrence, an Appendix H exception may be issued in lieu of a Retrieval Data Report. In this case, fee allowed for the Retrieval Data Report would be provided for the Appendix H exception. This incentive is forfeited if the volume goal is not achieved and ORP does not concur with proceeding with an Appendix H exception.)</p>

2. Complete Waste Retrievals from additional SSTs

a.

Milestones
<p>1. Completion of Construction and operational acceptance testing of the waste retrieval system approved Tank Waste Retrieval Work Plan.</p> <ul style="list-style-type: none"> • Work scope/completion criteria: Complete waste retrieval system construction and turnover to operations. Operations related OTP will be completed and OTRs will be approved by the Contractor. The Construction Completion Documents, Section IIb, "Completion of Exceptions," will be completed and approved by the Contractor,

June 25, 2008

<p>including Operations. References: 1) Tank Waste Retrieval Work Plan 2) Construction Completion and Turnover, TFC-PRJ-CM-C-08, Rev B, issued May 8, 2006.</p> <ul style="list-style-type: none">• Completion Document: Contractor approved, including Operations, Construction Completion Document through Section IIb, "Completion of Exceptions" for the above listed work.
<p>2. Retrieval of 25% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 25% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 25% of the initial waste volume.
<p>3. Retrieval of 50% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.
<p>4. Retrieval of 75% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 75% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 75% of the initial waste volume.
<p>5. Completion of retrieval operations.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Complete waste retrieval to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones for residues and demonstration of the limit of the waste retrieval technology. If the limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has not been achieved, then implementation of additional retrieval technologies is beyond the scope of this incentive.

- Completion document: Retrieval Report documenting the completion of retrieval operations.

b.

1. Completion of Construction and operational acceptance testing of the waste retrieval system approved Tank Waste Retrieval Work Plan.

- Work scope/completion criteria: Complete waste retrieval system construction and turnover to operations. Operations related OTP will be completed and OTRs will be approved by the Contractor. The Construction Completion Documents, Section IIb, "Completion of Exceptions," will be completed and approved by the Contractor, including Operations. References: 1) Tank Waste Retrieval Work Plan 2) Construction Completion and Turnover, TFC-PRJ-CM-C-08, Rev B, issued May 8, 2006.
- Completion Document: Contractor approved, including Operations, Construction Completion Document through Section IIb, "Completion of Exceptions" for the above listed work.

2. Retrieval of 25% of the waste by volume.

- Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 25% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 25% of the initial waste volume.

3. Retrieval of 50% of the waste by volume.

- Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.

4. Retrieval of 75% of the waste by volume.

- Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 75% 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.

<ul style="list-style-type: none"> Completion document: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 75% of the initial waste volume.
<p>5. Completion of retrieval operations.</p> <ul style="list-style-type: none"> Work scope/completion criteria: Complete waste retrieval to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones for residues and demonstration of the limit of the waste retrieval technology. If the limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has not been achieved, then implementation of additional retrieval technologies is beyond the scope of this incentive. Completion document: Retrieval Report documenting the completion of retrieval operations.
<p>6. Complete Retrieval Data Report.</p> <ul style="list-style-type: none"> Work scope/completion criteria: The limit of the waste retrieval technology is reached and the M-45-00 residual volume goal has been achieved. Perform residual characterization and volumetric measurements and prepare a Retrieval Data Report in accordance with HFFACO, Appendix I. Completion document: Retrieval Data Report in accordance with HFFACO, Appendix I. <p>(Note: With ORP concurrence, an Appendix H exception may be issued in lieu of a Retrieval Data Report. In this case, fee allowed for the Retrieval Data Report would be provided for the Appendix H exception. This incentive is forfeited if the volume goal is not achieved and ORP does not concur with proceeding with an Appendix H exception.)</p>

- c. Completion of retrieval operations and demonstration that the TPA volume goal has been achieved for new start retrievals identified in milestones 2.a and/or 2.b utilizing HFFACO approved Data Quality Objectives.
 - Work scope/completion criteria: Complete waste retrieval to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones for residues (specifically including the 360 cubic feet volume goal) and demonstration of the limit of the waste retrieval technology. The residual volume shall be determined using the HFFACO approved methodology. Physical samples shall be taken in accordance with the HFFACO sampling methodology, but the sample's analytical report and Retrieval Data Report are not within the work scope.
 - Completion document: Retrieval Report for 2.a and/or 2.b documenting the completion of retrieval operations meeting limit of technology and HFFACO volume goal, as measured by specified methodology. The Retrieval Report shall document the physical sampling of the residuals

3. Initiate Waste Retrievals from additional SSTs.

a.

Milestones
1. Completion of Construction and operational acceptance testing of the waste retrieval system

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approved Tank Waste Retrieval Work Plan.

- Work scope/completion criteria: Complete waste retrieval system construction and turnover to operations. Operations related OTP will be completed and OTRs will be approved by the Contractor. The Construction Completion Documents, Section IIb, "Completion of Exceptions," will be completed and approved by the Contractor, including Operations. References: 1) Tank Waste Retrieval Work Plan 2) Construction Completion and Turnover, TFC-PRJ-CM-C-08, Rev B, issued May 8, 2006.
- Completion Document: Contractor approved, including Operations, Construction Completion Document through Section IIb, "Completion of Exceptions" for the above listed work.

2. Retrieval of 25% of the waste by volume.

- Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 25% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 25% of the initial waste volume.

3. Retrieval of 50% of the waste by volume.

- Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.

b.

1. Completion of Construction and operational acceptance testing of the waste retrieval system approved Tank Waste Retrieval Work Plan.

- Work scope/completion criteria: Complete waste retrieval system construction and turnover to operations. Operations related OTP will be completed and OTRs will be approved by the Contractor. The Construction Completion Documents, Section IIb, "Completion of Exceptions," will be completed and approved by the Contractor, including Operations. References: 1) Tank Waste Retrieval Work Plan 2) Construction Completion and Turnover, TFC-PRJ-CM-C-08, Rev B, issued May 8, 2006.
- Completion Document: Contractor approved, including Operations, Construction Completion Document through Section IIb, "Completion of Exceptions" for the above listed work.

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<p>2. Retrieval of 25% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. The retrieval of 25% 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 25% of the initial waste volume.
<p>3. Retrieval of 50% of the waste by volume.</p> <ul style="list-style-type: none">• Work scope/completion criteria: Perform waste retrieval activities to meet and/or exceed performance requirements in the HFFACO M-45-00 series milestones and the Tank Waste Retrieval Work Plan. 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: The submittal of material balance data and engineering calculations summary information demonstrating retrieval of 50% of the initial waste volume.

4. Complete removal and package for shipment S-Farm temporary, shielded, above-ground transfer lines by September 30, 2008.
- a. Complete removal of the interim stabilization hose-in-hose transfer line (HIHTL) from S-C valve pit to S-A valve pit (RBHS-2FHT-4FINS) and package for shipment by September 30, 2008.
- Work scope/completion criteria: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented in the mixed waste pre-shipment notification form and the approved generator certification form. At the completion of the Hose in Hose Transfer Line removal, the Field Work Supervisor will verify all housekeeping activities related to the work have been completed. Completion of housekeeping will be signed off in the work record of the work package.
 - Completion document: A letter transmitting the mixed waste pre-shipment notification form and the approved generator certification form.
- b. Complete removal of the interim stabilization HIHTL from tank S-111 to S-C valve pit (CHG-2QHT-4QINS) and package for shipment by September 30, 2008.
- Work scope/completion criteria: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented in the mixed waste pre-shipment notification form and the approved generator certification form. At the completion of the Hose in Hose Transfer Line removal, the Field Work Supervisor will verify all housekeeping activities related to the work have been completed. Completion of housekeeping will be signed off in the work record of the work package.

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- Completion document: A letter transmitting the mixed waste pre-shipment notification form and the approved generator certification form.
- c. Complete removal of the interim stabilization HIHTL from tank S-101 to S-A valve pit (CHG-2RHT-4RINS) and package for shipment by September 30, 2008.
- Work scope/completion criteria: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented in the mixed waste pre-shipment notification form and the approved generator certification form. At the completion of the Hose in Hose Transfer Line removal, the Field Work Supervisor will verify all housekeeping activities related to the work have been completed. Completion of housekeeping will be signed off in the work record of the work package.
 - Completion document: A letter transmitting the mixed waste pre-shipment notification form and the approved generator certification form.
- d. Complete removal of the interim stabilization HIHTL from tank S-107 to S-C valve pit (CHG-2SHT-4SINS) and package for shipment by September 30, 2008.
- Work scope/completion criteria: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented in the mixed waste pre-shipment notification form and the approved generator certification form. At the completion of the Hose in Hose Transfer Line removal, the Field Work Supervisor will verify all housekeeping activities related to the work have been completed. Completion of housekeeping will be signed off in the work record of the work package.
 - Completion document: A letter transmitting the mixed waste pre-shipment notification form and the approved generator certification form.
- e. Complete removal of the HIP line from the S-B valve pit to the S-D valve pit (no ID Number) and package for shipment by September 30, 2008.
- Work scope/completion criteria: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented in the mixed waste pre-shipment notification form and the approved generator certification form. At the completion of the Hose in Hose Transfer Line removal, the Field Work Supervisor will verify all housekeeping activities related to the work have been completed. Completion of housekeeping will be signed off in the work record of the work package.
 - Completion document: A letter transmitting the mixed waste pre-shipment notification form and the approved generator certification form.
- f. Complete removal of the S-112 HIHTL from tank S-112 to the S-A (I-21844-0-3) and package for shipment by September 30, 2008.
- Work scope/completion criteria: The line has been removed from the field and packaged for shipment to the treatment vendor. The line removal and packaging will be documented in the mixed waste pre-shipment notification form and the approved generator certification form. At the completion of the Hose in Hose Transfer Line removal, the Field Work Supervisor will verify all housekeeping activities related to the work have been completed. Completion of housekeeping will be signed off in the work record of the work package.
 - Completion document: A letter transmitting the mixed waste pre-shipment notification form and the approved generator certification form.

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