

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 250		3. EFFECTIVE DATE 05/22/2013		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue Idaho Falls ID 83415		7. ADMINISTERED BY (If other than Item 6) Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) CH2M WG IDAHO LLC Attn: Jeffrey A. Kerridge 151 NORTH RIDGE AVENUE SUITE 150 IDAHO FALLS ID 834024039		9A. AMENDMENT OF SOLICITATION NO. (x)		9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC07-05ID14516 10B. DATED (SEE ITEM 13) 03/23/2005	
CODE 166527569		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)

CWI Contract

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:
X	D. OTHER (Specify type of modification and authority) Clause I.81 52.243-2 Changes - Cost Reimbursement (AUG 1987) & Alt I (APR 1984)

14. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

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

Tax ID Number: 05-0607601

DUNS Number: 166527569

This modification includes the following: Target cost/fee adjustment for directed changes identified in Exhibit C.8-13 RH-TRU Hot Cell Equipment Upgrades; administrative changes to the RH TRU work scope; modification of Exhibit C.8-12 LLW/MLLW; miscellaneous administrative changes; and, incorporation of the Disposition of 103 Naval Reactor Cans work scope under contract Section B.16, Extension - Items Not Included in Target Cost. Refer to the Continuation Pages incorporated as part of this modification.

Delivery Location Code: 00701

Idaho Operations

U.S. Department of Energy

Continued ...

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

15A. NAME AND TITLE OF SIGNER (Type or print) Jeffrey Kerridge CFO		18A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Maria M. Mitchell-Williams	
15B. CONTRACTOR/OFFEROR <i>Jeffrey Kerridge</i> Signature of person authorized to sign		18B. UNITED STATES OF AMERICA <i>Maria M. Williams</i> Signature of Contracting Officer	
15C. DATE SIGNED 5/22/13		18C. DATE SIGNED 05/22/2013	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED DE-AC07-05ID14516/250	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR

CH2M WG IDAHO LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
00003	<p>Idaho Operations 1955 Fremont Avenue Idaho Falls ID 83415 US</p> <p>Fund: 00000 Appr Year: 0000 Allottee: 00 Report Entity: 000000 Object Class: 00000 Program: 0000000 Project: 0000000 WFO: 0000000 Local Use: 0000000</p> <p>FOB: Destination Period of Performance: 03/23/2005 to 09/30/2015</p> <p>Change Item 00003 to read as follows (amount shown is the total amount):</p> <p>Target Cost (CLINS A-C) Line item value is:: \$738,898,951.00 Incrementally Funded Amount: \$175,289,054.18</p> <p>ICP2 - Extention Target Cost (CLINS A-C): This modification increases the target cost by \$979,408 and target fee by \$72,084. The revised target value is \$738,898,951. This includes a target cost of \$586,459,932, a target fee of \$39,939,019, and pension funding of \$112,500,000.</p> <p>Refer to the continuation pages for details.</p>				738,898,951.00

This modification includes the following:

- Provides a target cost and target fee adjustment for the directed change to incorporate necessary upgrades found in modified Exhibit C.8-13 RH-TRU Hot Cell Equipment Upgrades.
- Administrative changes to the RH TRU work scope, including modification of Exhibit C.8-11 RH-TRU Waste
- Modification of Exhibit C.8-12 LLW/MLLW
- Miscellaneous administrative changes
- Incorporates the Disposition of 103 Naval Reactor Cans work scope under contract section B.16, Extension – Items Not Included in Target Cost

1. B.14 EXTENSION - TOTAL CONTRACT TARGET COST, FEE, AND COMPLETION DATE paragraph (c) is modified as follows:

- (c) CLIN C – Balance of ICP: The total contract target cost and target fee are based on a period of performance from October 1, 2012, through September 30, 2015.

The target cost is increased by \$979,408 from \$490,719,228 to \$491,698,636.

The target fee is increased by \$72,084 from \$36,116,935 to \$36,189,019.

2. B.15 EXTENSION INCENTIVE FEE paragraph (c) is modified as follows:

- (c) CLIN C – For the balance of the ICP work scope, the following cost incentive structure is established for a period of performance from October 1, 2012 through September 30, 2015.

Cost Incentive

Target Cost: \$491,698,636

Target Fee: \$36,189,019 (7.36% of target cost)

Maximum Fee: \$73,754,795 (Maximum Fee must not exceed 15% of target cost)

Minimum Fee: \$0.00

Fee Calculation: The fee payable under this contract shall be the target fee increased by thirty (30) cents for every dollar that the total allowable cost is less than the target cost or decreased by thirty (30) cents for every dollar that the total allowable cost exceeds the target cost as specified in FAR 52.216-10 and subject to the maximum fee limitation above for work performed under Section C.8. If there is a fee reduction as a result of failure to meet identified milestones in CLIN A (Refer to B.15(a) above), it will be accomplished by fee reduction in this CLIN C.

3. EXHIBIT C.8-13 RH-TRU HOT CELL EQUIPMENT UPGRADES

In accordance with Section I.81, Changes Clause, this modification incorporates several items outlined in Exhibit C.8-13. These specific upgrades are identified on the attached revised Exhibit C.8-13. CLIN C target cost is increased \$979,408 with a 7.36% fee increase of \$72,084. The remainder of Exhibit C.13 remains unchanged. The attached Exhibit is incorporated as part of this modification.

4. **EXHIBIT C.8-11 RH-TRU WASTE** is modified to reflect the deletion of specific containers. This does not constitute a target cost and fee adjustment for CLIN C. Exhibit C.8-11 is attached and is incorporated as part of this modification.

5. **C.8.2.1.1 RH TRU DISPOSITION (ID-0013B.04)** is modified in order to clarify DOE's intent due to several changes in conditions that were not anticipated when the contract extension was finalized. These administrative changes do not constitute a target cost and fee adjustment for CLIN C. The following scope has been modified:

The Contractor shall disposition all RH-TRU waste generated from the containers listed in Exhibit C.8-11 as follows:

- a. RH-TRU from containers in Lot 1, Lot 3, Lot 4, Lot 5, and Lot 8 shall be shipped to WIPP, **transferred to the AMWTP contractor as CH-TRU, or disposed of at an appropriate M/LLW disposal facility** no later than September 30, 2015.
- b. RH-TRU from containers in Lot 6 and Lot 7 shall be repackaged and those that contain reactive materials shall be made ready for sodium treatment no later than September 30, 2015 **(made ready for sodium treatment means that the containers shall be processed through CPP-666 to remove the sodium from the primary waste, the primary waste shall be packaged for characterization and certification to meet the WIPP WAC and removed from the FDP cell, and any separated sodium shall be packaged for off-site sodium treatment)**; those that do not contain reactive materials shall be made ready for shipment to WIPP no later than September 30, 2015.
- c. RH-TRU from containers in Lot 2 shall be repackaged; and those that are demonstrated to be non-reactive using immersion testing shall be made ready for shipment to WIPP no later than September 30, 2015; those that demonstrate reactive characteristics during immersion testing shall be made ready for sodium treatment no later than September 30, 2015.
- d. The suspect RH-TRU waste containers shall be transferred from the Advanced Mixed Waste Treatment Facility (AMWTP) contractor, opened, and inspected for RH-TRU. The Contractor shall return all non-RH-TRU (i.e. low-level waste (LLW), contact-handled (CH)-TRU, secondary waste, etc.) materials to the AMWTP contractor, **or the Contractor may utilize an alternative disposition path for the material within existing funding, as appropriate and approved by DOE.** All RH-

TRU waste that is discovered shall be repackaged, as necessary, and made ready for characterization and shipment to WIPP. The transport of this material to/from INTEC will be provided by the Contractor. This work shall be completed no later than September 30, 2015. Refer to Exhibit C.8-11, RH TRU Waste.

- e. Additional RH-TRU waste may be discovered at the AMWTP during the course of ongoing waste retrievals. Any RH-TRU from AMWTP is legacy waste that will require shipment out of Idaho before September 30, 2018 for Idaho Settlement Agreement compliance. Since the AMWTP contractor does not maintain an RH-TRU capability, any newly discovered RH-TRU will be transferred to the Contractor for repackaging and shipment to WIPP. This additional material will not be an element of the base cost but will be separately ordered pursuant to Section I.81, Changes clause, as it is identified.

The Contractor shall complete all EM repackaging activities, through the CPP-666 Florinel Dissolution Process (FDP) hot cell no later than April 1, 2015, to allow the preparatory work for repackaging of NNPP owned Pieces, Parts, and Fines (PPF) to begin. The Contractor shall complete all EM repackaging activities, through the CPP-666 Florinel Dissolution Process (FDP) hot cell no later than April 1, 2015, to allow the preparatory work for repackaging of NNPP owned Pieces, Parts, and Fines (PPF) to begin.

All other scope language in this section remains unchanged.

6. EXHIBIT C.8-12 LLW/MLLW is modified as follows:

Containers barcoded 10289761 and 10290104 should have been identified as BL030 containers, and included in the contract in lieu of containers 10291004 and 10291005. This modification corrects the error. No other changes to this Exhibit. This does not constitute a target cost and fee adjustment for CLIN C. The Exhibit is attached and incorporated as part of this modification.

7. C.8.4.5.4 REMAINDER OF OU 7-13/14 WORK (ID-0030B.05) first paragraph is modified as follows:

The Contractor shall prepare a Phase I Work Plan revision. The Contractor shall prepare the Phase III Remedial Design Work Plan.

All other scope language in this section remains unchanged.

8. C.1.6.4 HIGH-RISK FACILITY DISPOSITION third paragraph, third bullet is modified to include an updated DOE Order as follows:

- Radiological contamination shall be removed or fixed for all facilities in accordance with 10 CFR Part 835 and DOE Order 458.1, Chg 2.

All other scope language in this section remains unchanged.

- 9. B.16 EXTENSION - ITEMS NOT INCLUDED IN TARGET COST**, is modified as follows:

Activity (a.2) – Disposition of 103 Naval Reactor Cans:

Provide the necessary program management activities to prepare and/or revise facility authorization basis documents supporting project activities. This includes the acceptable knowledge (AK) development and coordination with NNPP contractor personnel and Central Characterization Project personnel for document preparation and evaluation.

Refer to the attached B.16 table incorporated as part of this modification.

- 10. CONTRACTOR'S STATEMENT OF RELEASE:** In consideration of the modification agreed to herein as a complete equitable adjustment for the directed change to incorporate equipment upgrades found in Exhibit C.8-13, *RH-TRU Hot Cell Equipment Upgrades*. Also in accordance with contract Section I.81 52.243-2 Changes—Cost Reimbursement Alt I, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the proposal for adjustment. The total target price of the equitable adjustment is an increase of \$1,051,492.

Non-Idaho Settlement Agreement Waste

Lot 2a (May Already be Repackaged)		<i>37 Containers Located at INTEC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
ANLE29	ANL-E Canister	ANLE22	ANL-E Canister
ANLE30	ANL-E Canister	ANLE23	ANL-E Canister
ANLE33	ANL-E Canister	ANLE31	ANL-E Canister
ANLE9	ANL-E Canister	ANLE21	ANL-E Canister
ANLE10	ANL-E Canister	ANLE1	ANL-E Canister
ANLE15	ANL-E Canister	ANLE11	ANL-E Canister
ANLE32	ANL-E Canister	ANLE14	ANL-E Canister
ANLE28	ANL-E Canister	ANLE2	ANL-E Canister
ANLE3	ANL-E Canister	ANLE20	ANL-E Canister
ANLE5	ANL-E Canister	ANLE35	ANL-E Canister
ANLE6	ANL-E Canister	ANLE8	ANL-E Canister
ANLE24	ANL-E Canister	ANLE43	ANL-E Canister
ANLE25	ANL-E Canister	ANLE45	ANL-E Canister
ANLE34	ANL-E Canister		
ANLE12	ANL-E Canister		
ANLE26	ANL-E Canister		
ANLE27	ANL-E Canister		
ANLE7	ANL-E Canister		
ANLE13	ANL-E Canister		
ANLE16	ANL-E Canister		
ANLE18	ANL-E Canister		
ANLE36	ANL-E Canister		
ANLE17	ANL-E Canister		
ANLE19	ANL-E Canister		

Idaho Settlement Agreement Waste

Lot 1 (May Already be Repackaged)		<i>27 Containers Located at INTEC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
SN-167*	HFEF-5 Canister	N153*	HFEF-5 Canister
SN144*	HFEF-5 Canister	N-20	HFEF-5 Canister
N152	HFEF-5 Canister	SN166*	HFEF-5 Canister
SN115*	HFEF-5 Canister	SN145*	HFEF-5 Canister
SN164*	HFEF-5 Canister	SN162*	HFEF-5 Canister
SN127*	HFEF-5 Canister	SN154*	HFEF-5 Canister
SN150*	HFEF-5 Canister	SN155*	HFEF-5 Canister
SN19	HFEF-5 Canister	N154*	HFEF-5 Canister
B255	HFEF-5 Canister	SN151*	HFEF-5 Canister
SN-176*	HFEF-5 Canister	B337	HFEF-5 Canister
B-252	HFEF-5 Canister	B259	HFEF-5 Canister
SN153*	HFEF-5 Canister	B315	HFEF-5 Canister
SN-061	HFEF-5 Canister	B293	HFEF-5 Canister
B319	HFEF-5 Canister		

Lot 3 (May Already be Repackaged)		<i>2 Containers Located at INTEC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
IDBLANL880107	HFEF-5 Canister	IDBLANL880164	HFEF-5 Canister

Lot 4 (May Already be Repackaged)		<i>4 Containers Located at INTEC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
MFC060105*	HFEF-5 Canister	MFC070119*	HFEF-5 Canister
MFC070118*	HFEF-5 Canister	ANL1505	SWB

Lot 5 (May Already be Repackaged)		<i>22 Containers Located at INTEC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
DD-51	24" Liner	FCO-101*	SLSF Canister
FF-32	24" Liner	FCO-102*	SLSF Canister
OO-25	24" Liner	FCO-104*	SLSF Canister
QQ-36	24" Liner	FCO105*	SLSF Canister
D-48	30" LINER/ DONUT	FCO-108*	SLSF Canister
DD-45	24" Liner	NN-28	24" Liner
FF-43	24" Liner	PP-15	24" Liner
FF-45	24" Liner	PP-30	24" Liner
FF-46	24" Liner	QQ-9	24" Liner
SN-132*	HFEF-5 Canister	SL-007	SLSF Canister
FCO-100*	SLSF Canister	SL18	SLSF Canister

* - Container is not Idaho Settlement Agreement Waste

Idaho Settlement Agreement Waste

Lot 6		<i>22 Containers Located at MFC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
052	HFEF-5 Canister	028	HFEF-5 Canister
010	HFEF-5 Canister	048	HFEF-5 Canister
014	HFEF-5 Canister	041	HFEF-5 Canister
037	HFEF-5 Canister	B-309	HFEF-5 Canister
B274	HFEF-5 Canister	033	HFEF-5 Canister
029	HFEF-5 Canister		ANLE Canister
036	HFEF-5 Canister		ANLE Canister
018	HFEF-5 Canister		ANLE Canister
026	HFEF-5 Canister	009	HFEF-5 Canister
007	HFEF-5 Canister	003	HFEF-5 Canister
004	HFEF-5 Canister	016	HFEF-5 Canister
024	HFEF-5 Canister	SL019*	SLSF Canister
023	HFEF-5 Canister		

Lot 7 (α -MLLW on STP Table 4-2)		<i>6 Containers Located at MFC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
V-15	HFEF-5 Canister	Z-26	HFEF-5 Canister
V-9	HFEF-5 Canister	Z-45	HFEF-5 Canister
V-26	HFEF-5 Canister	HH-6	24" Liner

Lot 8 (Previously Transferred from AMWTP)		<i>18 Containers Located at INTEC</i>	
IWTS Barcode	Container Type	IWTS Barcode	Container Type
10004349	55-gal. Drum	10087564	55-gal. Drum
10004356	55-gal. Drum	10100424	55-gal. Drum
10004357	55-gal. Drum	10102504	55-gal. Drum
10004426	55-gal. Drum	10107596	55-gal. Drum
10015986	55-gal. Drum	10108594	55-gal. Drum
10032597	55-gal. Drum	10113386	55-gal. Drum
10052717	55-gal. Drum	10200745	55-gal. Drum
10061159	55-gal. Drum	IDRFOP0600315	55-gal. Drum
10063910	55-gal. Drum	IDRFOP0600399	55-gal. Drum

* - Container is not Idaho Settlement Agreement Waste

Idaho Settlement Agreement Waste			
Suspect RH-TRU (In Storage at AMWTP)		46 37 Containers Located at AMWTP	
WTS Barcode	Container Type	WTS Barcode	Container Type
Miscellaneous Drums (2 Containers)			
10167141	83-gal. Drum	10317829	85-gal. Drum
ANL-E Bins (13 6 Containers)			
IDC: AE100		IDC: AE104	
10117746	ANL-E Bin	10250339	ANL-E Bin
10130763	ANL-E Bin	10250343	ANL-E Bin
10130766	ANL-E Bin	10250494	ANL-E Bin
10202296	ANL-E Bin	10250497	ANL-E Bin
10202311	ANL-E Bin	10250498	ANL-E Bin
10202315	ANL-E Bin	10250340	ANL-E Bin
10213532	ANL-E Bin		
Pu Neutron Sources (10 Containers)			
IDC: AW152		IDC: IC152	
10036670	55-gal. Drum	10201191	Box
IDC: BL015		IDC: IN152	
10021497	55-gal. Drum	10042442	55-gal. Drum
10021563	55-gal. Drum	10042443	55-gal. Drum
10021603	55-gal. Drum	10042444	55-gal. Drum
10027474	55-gal. Drum	10042445	55-gal. Drum
Sample Fuel (12 Containers)			
IDC: AW154		IDC: ID154	
10011611	55-gal. Drum	10011624	55-gal. Drum
10011869	55-gal. Drum	10011626	55-gal. Drum
10011883	55-gal. Drum	10011633	55-gal. Drum
10036909	55-gal. Drum	10040516	83-gal. Drum
10040479	55-gal. Drum	10041245	83-gal. Drum
IDC: IR154		10419438	85-gal. Drum
10279466	110-gal. Drum		
Source Material (1 Container)			
IDC: BX111			
10027321	83-gal. Drum		

Suspect RH-TRU Continued			
<i>Miscellaneous Sources (8 6 Containers)</i>			
IDC: BL012		IDC: IW157	
10021671	55-gal. Drum	10061180	55-gal. Drum
IDC: IC157		IDC: IF157	
10027320	55-gal. Drum	10027320	55-gal. Drum
10113882	55-gal. Drum	10113882	55-gal. Drum
IDC: IR157			
10002483	55-gal. Drum		
10027341	83-gal. Drum		

Idaho Settlement Agreement Waste			
U-233 Waste (In Storage at AMWTF)		<i>171 Containers Located at AMWTF</i>	
WTS Barcode	Container Type	WTS Barcode	Container Type
IDC: BL050		IDC: BL081	
10290111	55-gal. Drum	10045718	55-gal. Drum
IDC: BL030		10045722	55-gal. Drum
10022375	55-gal. Drum	10045724	55-gal. Drum
10022420	55-gal. Drum	10045726	55-gal. Drum
10030001	55-gal. Drum	10045727	55-gal. Drum
10032035	55-gal. Drum	10045729	55-gal. Drum
10032037	55-gal. Drum	10045771	55-gal. Drum
10032353	55-gal. Drum	10045772	55-gal. Drum
10033535	55-gal. Drum	10045775	55-gal. Drum
10033537	55-gal. Drum	10045781	55-gal. Drum
10061310	55-gal. Drum	10045785	55-gal. Drum
10099466	55-gal. Drum	10045828	55-gal. Drum
10276555	55-gal. Drum	10045829	55-gal. Drum
10286735	55-gal. Drum	10045830	55-gal. Drum
10289756	55-gal. Drum	10045833	55-gal. Drum
10289757	55-gal. Drum	10045834	55-gal. Drum
10289758	55-gal. Drum	10045719	55-gal. Drum
10289759	55-gal. Drum	IDC: BL040	
10289760	55-gal. Drum	10021668	55-gal. Drum
10289762	55-gal. Drum	10029923	55-gal. Drum
10289763	55-gal. Drum	10029973	55-gal. Drum
10289764	55-gal. Drum	10032033	55-gal. Drum
10289765	55-gal. Drum	10032346	55-gal. Drum
10289766	55-gal. Drum	10032348	55-gal. Drum
10289768	55-gal. Drum	10032350	55-gal. Drum
10289769	55-gal. Drum	10032372	55-gal. Drum
10289770	55-gal. Drum	10032376	55-gal. Drum
10289771	55-gal. Drum	10032411	55-gal. Drum
10289772	55-gal. Drum	10032423	55-gal. Drum
10289773	55-gal. Drum	10032538	55-gal. Drum
10289774	55-gal. Drum	10033527	55-gal. Drum
10289775	55-gal. Drum	10052374	55-gal. Drum
10289776	55-gal. Drum	10052383	55-gal. Drum
10289777	55-gal. Drum	10052389	55-gal. Drum

10290100	55-gal. Drum	10052391	55-gal. Drum
U-233 Waste Continued			
IDC: BL030		IDC: BL040	
10290101	55-gal. Drum	10052611	55-gal. Drum
10290102	55-gal. Drum	10052613	55-gal. Drum
10290115	55-gal. Drum	10052615	55-gal. Drum
10290116	55-gal. Drum	10052619	55-gal. Drum
10290117	55-gal. Drum	10053598	55-gal. Drum
10290118	55-gal. Drum	10053599	55-gal. Drum
10290119	55-gal. Drum	10053616	55-gal. Drum
10290120	55-gal. Drum	10053618	55-gal. Drum
10290121	55-gal. Drum	10053946	55-gal. Drum
10291004 10289761	55-gal. Drum	10053952	55-gal. Drum
10290104 10291005	55-gal. Drum	10053953	55-gal. Drum
10291024	83-gal. Drum	10053954	55-gal. Drum
IDC: BL040		IDC: BL040	
10054088	55-gal. Drum	10061290	55-gal. Drum
10054089	55-gal. Drum	10061710	55-gal. Drum
10054099	55-gal. Drum	10061712	55-gal. Drum
10054100	55-gal. Drum	10061722	55-gal. Drum
10055398	55-gal. Drum	10061728	55-gal. Drum
10055447	55-gal. Drum	10062222	55-gal. Drum
10055455	55-gal. Drum	10062225	55-gal. Drum
10055472	55-gal. Drum	10062260	55-gal. Drum
10056683	55-gal. Drum	10062554	55-gal. Drum
10056689	55-gal. Drum	10062555	55-gal. Drum
10056690	55-gal. Drum	10062629	100-gal. Drum
10056694	55-gal. Drum	10062630	100-gal. Drum
10056701	55-gal. Drum	10062631	100-gal. Drum
10056703	55-gal. Drum	10062632	100-gal. Drum
10056717	55-gal. Drum	10062633	100-gal. Drum
10056718	55-gal. Drum	10062634	100-gal. Drum
10056721	55-gal. Drum	10062635	100-gal. Drum
10056734	55-gal. Drum	10062636	100-gal. Drum
10056900	55-gal. Drum	10062637	100-gal. Drum
10056901	55-gal. Drum	10062638	100-gal. Drum
10056964	55-gal. Drum	10062639	100-gal. Drum
10056965	55-gal. Drum	10062640	100-gal. Drum

10057119	55-gal. Drum	10062641	100-gal. Drum
10057120	55-gal. Drum	10062642	100-gal. Drum
U-233 Waste Continued			
IDC: BL040		IDC: BL040	
10057121	55-gal. Drum	10062643	100-gal. Drum
10057122	55-gal. Drum	10062644	100-gal. Drum
10057386	55-gal. Drum	10062645	100-gal. Drum
10057387	55-gal. Drum	10062646	100-gal. Drum
10057401	55-gal. Drum	10062647	100-gal. Drum
10057402	55-gal. Drum	10062648	100-gal. Drum
10057759	55-gal. Drum	10062649	100-gal. Drum
10057760	55-gal. Drum	10062650	100-gal. Drum
10057931	55-gal. Drum	10062651	100-gal. Drum
10057932	55-gal. Drum	10062652	100-gal. Drum
10057939	55-gal. Drum	10099435	55-gal. Drum
10057940	55-gal. Drum	10099469	55-gal. Drum
10057950	55-gal. Drum	10099482	55-gal. Drum
10057951	55-gal. Drum	10286737	55-gal. Drum
10058279	55-gal. Drum	10290114	55-gal. Drum
10058289	55-gal. Drum		

Exhibit C.8-13 – RH-TRU Hot Cell Equipment Upgrades

NOTE: The projects in this exhibit are currently not included in the base scope but may be ordered pursuant to Section I.81, Changes Clause.

	Facility	System	Description	Justification
PBS-0013				
1	CPP-666	FDP Cell Master Slave Manipulators	Procure 6 master slave manipulators (FY13) and install air manifolds to support new manipulators. Manipulators are critical spares used for replacement of existing manipulators in cell main operating area. Partial Incorporated by Modification 250	End of Service Life and Obsolete – Manipulator failures will directly impact waste processing operations schedule in CPP-666.
2	CPP-666	Waste Load Out Master Slave Manipulators	Procure 3 master slave manipulators (FY13) and install air manifolds to support new manipulators. Manipulators are critical spares used for replacement of existing manipulators in waste load-out area. Partial Incorporated by Modification 250	End of Service Life and Obsolete – Manipulator failures will directly impact waste processing operations schedule in CPP-666.
3	CPP-666	FDP Cell Crane Replacement Motors and Control Upgrades	Procure and install new electrical control system, motor controllers, and drive components for FDP cell crane. DOE has directed the Contractor to evaluate several different options to extend the crane service life. The Contractor is required to deliver an evaluation to DOE by September 30, 2013. This upgrade is on hold pending the delivery of this evaluation.	End of Service Life – Existing motors and controls are obsolete. Crane failure will directly impact waste processing operations schedule in CPP-666.
4	CPP-666	FDP Cell Master Slave Manipulators Spare Parts	Procure critical spare parts for existing manipulators such as Boots, retrofitted controllers, hands, grips etc. Incorporated with Modification 241 for FY13 Incorporated with Modification 250 for FY14-15	Critical spare parts for existing installed equipment. Lack of spare parts could directly impact waste processing operations schedule in CPP-666.
5	CPP-666	FDP Cell	Install new portable power distribution board supporting electrical service to in-cell equipment. Incorporated with Modification 250	End of Service Life. Equipment failure would directly impact waste processing operations schedule in CPP-666.
6	CPP-666	FDP Cell	Remove the old abandoned crane system electrical control wiring.	Equipment Obsolete. The old radio control system wiring was abandon in place. The zone and anti-collision systems have been disabled due to intermittent failures. This causes many

				hours of trouble shooting to find problems as the as-built drawings are non-existent. This activity would remove the old wiring and clean up the control cabinets.
			Incorporated with Modification 250	
7	CPP-666	FDP Cell	Procure and install remote camera/video system upgrade in FDP Cell.	Existing equipment is at end of service life due to deterioration from radiation exposure. Camera system failure will directly impact process operations schedule in CPP-666.
8	CPP-666	FDP Cell Master Slave Manipulators	Procure 11 master slave manipulators (FY14) and install air manifolds to support new manipulators. Manipulators are critical spares used for replacement of existing manipulators in cell main operating area.	End of Service Life and Obsolete – Manipulator failures will directly impact waste processing operations schedule in CPP-666.
9	CPP-666	Waste Load Out Master Slave Manipulators	Procure 3 master slave manipulators (FY14) and install air manifolds to support new manipulators. Manipulators are critical spares used for replacement of existing manipulators in waste load-out area.	End of Service Life and Obsolete – Manipulator failures will directly impact waste processing operations schedule in CPP-666.
10	CPP-666	FDP Cell PaR	Procure and install PaR master slave M3000. This scope removes the existing PaR Manipulator and installs a new one (M3000) with trolley onto the existing bridge and run ways.	End of Service Life. Obsolete – No spare parts available. PaR failure will directly impact waste processing operations schedule in CPP-666.
11	CPP-659	Argon Repackaging System	Fabricate and install an argon repackaging and immersion testing system in the Decontamination Hot Cell at CPP-659 to allow repackaging of reactive waste. This modification may also include Permit and Authorization Basis modifications. Incorporated with Modification 250	This will allow repackaging of Lot 2 waste in CPP-659 if the facility is deemed appropriate for that work.
12	CPP-666	FDPA Ventilation	Upgrade to the CPP-666 FDPA ventilation, which includes replacing damper D-FV-982-52, Exhaust Air from Pool Area; installation of new damper D-FV-982-50, Supply Air to Pool Area; replacement and upgrade of 14 control loops with 7 new controllers. New Item with Mod 250 Incorporated with Modification 250	Building CPP-6666 consists of both Fuel Storage (FSA) and processing areas (FDPA) which share a common HVAC system. Because of this shared HVAC system, the FSA ventilation subsystems directly affect the operation, availability, and reliability of the FDPA ventilation system.
13	CPP-666	Upgrade	Upgrade of Hoist FA-901 variable speed	Both hoist and trolley

		Hoist	controls. New Item with Mod 250 Incorporated with Modification 250	controls need upgrades to provide variable speed controls. Currently they are fast and slow which results in irregular movements.
14	CPP-666	Refurbish Crane (CRN-FC-905)	Procure Critical Spare Boards and Refurbish for Crane (CRN-FC-905). New Item with Mod 250 Incorporated with Modification 250	Critical Spare to support the crane CRN 905.
15	CPP-666	Crane (CRN-FC-905) Upgrade	Engineering Evaluation of Potential Crane (CRN-FC-905) Upgrade Option: To be definitized at a later date once CWI provides the required evaluation. New Item with Mod 250	Need to determine if Item 3 is required to support operation

Activity		FY13	FY14	FY15	Notes
(a) Fuel receipts or transfers of non-EM owned Spent Nuclear Fuel (SNF), including:					Mod 236 - includes \$1,588,962 of MR. Fee was calculated w/escalated base, emergent work & G&A totaling \$20,686,032; excluded pension and MR.
1. Transfers of Navy SNF to Naval Reactors Facility (NRF)	Estimated Cost Fixed Fee Total CPFF	\$ 24,872,356 \$ 1,522,492 \$ 26,394,848			
2. Disposition of 103 Naval Reactor Cans	Estimated Cost Fixed Fee Total CPFF	\$ 4,735,495 \$ 301,437 \$ 5,036,932			Mod 250 - total estimated costs include MR. Fee calculated without MR and pension.
(b) Other Contractor Support to DOE:					Refer to Mod 236 for details.
1. Developer Support / Wireless Service (NE Funded)	Estimated Cost Fixed Fee Total CPFF	\$ 1,148,805 \$ 20,413 \$ 1,169,218	\$ 1,180,274 \$ 20,972 \$ 1,201,246	\$ 1,212,656 \$ 21,548 \$ 1,234,204	
2. Records Management Support	Estimated Cost Fixed Fee Total CPFF	\$ 283,036 \$ 5,029 \$ 288,065	\$ 291,020 \$ 5,171 \$ 296,191	\$ 299,004 \$ 5,313 \$ 304,317	
3. ID Copier Support	Estimated Cost Fixed Fee Total CPFF	\$ 79,906 \$ 1,420 \$ 81,326	\$ 82,159 \$ 1,460 \$ 83,619	\$ 84,415 \$ 1,500 \$ 85,915	
4. Dosimetry	Estimated Cost Fixed Fee Total CPFF	\$ 46,110 \$ 819 \$ 46,929	\$ 47,411 \$ 842 \$ 48,253	\$ 48,711 \$ 866 \$ 49,577	
5. Printing/Graphic Arts	Estimated Cost Fixed Fee Total CPFF	\$ 2,016 \$ 36 \$ 2,052	\$ 2,072 \$ 37 \$ 2,109	\$ 2,130 \$ 38 \$ 2,168	
6. DOE Office Moves	Estimated Cost Fixed Fee Total CPFF	\$ 238 \$ 4 \$ 242	\$ 245 \$ 4 \$ 249	\$ 252 \$ 4 \$ 256	
7. Portable Toilet - RESL (CFA Bldg 638)	Estimated Cost Fixed Fee Total CPFF	\$ 1,772 \$ 31 \$ 1,803	\$ 1,822 \$ 32 \$ 1,854	\$ 1,873 \$ 33 \$ 1,906	
8. DOE Training	Estimated Cost Fixed Fee Total CPFF	\$ 17,440 \$ 310 \$ 17,750	\$ 17,931 \$ 319 \$ 18,250	\$ 18,451 \$ 328 \$ 18,779	
(c) Adapted Technologies Project	Estimated Cost Fixed Fee Total CPFF	TBD \$ - -	TBD \$ - -	TBD \$ - -	

FY 13 - 15 B.16 ACTIVITIES ARE SUBJECT TO AVAILABILITY OF FUNDS

Contract DE-AC07-05ID14516

Extension FY13-15

Mod 250

Activity		FY13	FY14	FY15	Notes
(d) Technology Development	Estimated Cost	TBD	TBD	TBD	
	Fixed Fee				
	Total CPFF	\$ -	\$ -	\$ -	