

2. AMENDMENT/MODIFICATION NO. 0142	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY Idaho Operations Office Idaho Operations U.S. Department of Energy Idaho Operations Idaho Falls ID 89415	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
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) FLUOR IDAHO, LLC Attn: AMANDA JORDAN 1070 RIVERWALK DRIVE, SUITE 201 IDAHO FALLS ID 83402	9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-EM0004083 10B. DATED (SEE ITEM 13) 02/04/2016
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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 electronic communication 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 letter or electronic communication, provided each letter or electronic communication 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)

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 data, 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) I.36 FAR 52.217-7 Option for Increased Quantity - Separately Priced Line Item (Mar 1989)

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

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

DUNS Number: 968795604

The purpose of this modification is to exercise the priced option 00001h at Section C.5.3.07 RH Waste LOT 11 FY 2020 Option Work. Please refer to the Continuation Pages incorporated as part of this modification for further detail. The Contractor is directed to continue operations in accordance with contract Section B.2.

Payment:
OR for Idaho
U.S. Department of Energy
Oak Ridge Financial Service Center
P.O. Box 6017
Oak Ridge TN 37831

Continued ...

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

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jennifer K. Cate
15B. CONTRACTOR/OFFEROR <i>(Signature of person authorized to sign)</i>	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA Signature on File <i>(Signature of Contracting Officer)</i>	16C. DATE SIGNED 09/05/2019

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-EM0004083/0142

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NAME OF OFFEROR OR CONTRACTOR
FLUOR IDAHO, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
00001	<p>FOB: Destination Period of Performance: 06/01/2016 to 05/31/2021</p> <p>Change Item 00001 to read as follows (amount shown is the total amount):</p> <p>Target ICP-Core DOE Mission Work</p> <p>Line item value is: \$1,771,020,480.00 Incrementally Funded Amount: \$1,422,292,659.70</p> <p>This modification increases the Total Contract Value (including options) by \$28,918,098 from \$1,863,265,277 to \$1,892,18,375. See continuation pages for further details.</p>			1,771,020,480.00	

This modification is made under the authority of contract clause I.36 52.217-7 Option for Increased Quantity – Separately Priced Line Item (Mar 1989). This unilateral modification exercises the priced option 00001h at Section C.5.3.07 RH Waste LOT 11 FY 2020 Option Work.

Per Contracting Officer email to Fluor Idaho, LLC (Jennifer Cate to Tom Williams) dated September 4, 2019, Subject: *Priced Option 00001h*, one minor addition of scope language is included as detailed below. Fluor Idaho, LLC concurred to the added language by email dated September 4, 2019 (Tom Williams to Jennifer Cate). There is no adjustment to Target Cost or Target/Max Fee due to this minor change in scope language. The indirect cost under CLIN-1 is adjusted to reflect the changes made to the POH table attached per Section B.15(g).

The following changes are hereby made to the contract:

1. **SECTION B.1 (d) CLIN-00001 Priced Option Work Descriptions, CLIN 00001h – RH WASTE LOT 11 FY 2020 OPTION WORK** is revised to include the highlighted language as follows:

See Section C, PWS C.5.3.07. The Contractor shall operate the RH Waste program in accordance with PWS sections C.5.3.01 RH-TRU Retrieval, C.5.3.02 RH-TRU Characterization and Certification, C.5.3.03 RH-TRU Treatment, C.5.3.04 RH-TRU Storage and Movement, and C.5.3.05 RH-TRU Packaging and Transportation for a portion of Lot 11 (Legacy RH-M/LLW), under the CH-ANL-180RH waste stream ID, **and/or suspect RH TRU from AMWTP.**

2. **SECTION B.2 (c) CONTRACT COST AND FEE SCHEDULE** is revised as follows:

CLIN-1: Target ICP Core DOE Mission Work Scope (Base) is revised to incorporate the change stated above.

The Direct Target Cost is increased by \$19,099,074 from \$856,279,401 to \$875,378,475.

The Indirect Target Cost is increased by \$3,437,833 from \$294,306,701 to \$297,744,534.

The Total Target Cost is increased by \$22,536,907 from \$1,150,586,102 to \$1,173,123,009.

The Cost Incentive (Target) is increased by \$1,115,577 from \$24,540,881 to \$25,656,458.

The Cost Incentive (Maximum) is increased by \$4,649,860 from \$64,202,914 to \$68,852,774. The overall CLIN-1 Max Fee, including milestones and performance fee, is correspondingly increased by \$1,731,331 from \$136,323,042 to \$138,054,373.

Summary:

The Contract Value is increased by \$28,918,098 from \$1,863,265,277 to \$1,892,183,375.

The B.2(c) Fee Model has been updated to reflect the adjustment to CLIN-1.

B.2(c) Table				
<u>CLIN 00001 - TARGET ICP-CORE DOE MISSION WORK (BASE)</u>				
	Target Cost	Max Fee	Target Fee	Total Price
Direct Target Cost w/ ID Spt (No Options Included)	875,378,475	142,704,233		1,315,827,242
Indirect Target Cost w/o ID Spt (Total Pool, PWS C.8)	297,744,534			
	1,173,123,009			
Target Fee			58,069,589	
Subtotal Milestone-Schedule & Performance Fee (B.3(d))		73,851,459		
Subtotal Incremental Cost Incentive Fee		68,852,774		
Cost Incentive Breakout				
Cost Incentive (Max)		68,852,774		12.95%
Cost Incentive (Target)			25,656,458	4.95%
<u>CLIN 00002 - TARGET ICP CORE NNPP PPF WORK SCOPE</u>				
	Target Cost	Max Fee	Target Fee	Total Price
Navy (Pieces, Parts and Fines - 102 Cans)	42,367,181	5,382,479	2,503,195	47,749,660
Milestone-Schedule & Performance		3,970,091	1,963,325	
Cost Incentive (Max)		1,412,388	539,870	
<u>CLIN 00003 - NON-TARGET ICP CORE WORK SCOPE</u>				
	Estimated Cost	Fee		Total Price
Total Non-Target Work Scope (See Contracting Officer for Breakout)	39,395,178	2,142,751		41,537,929
<u>CLIN 00004 - CONTRACT TRANSITION PERIOD</u>				
Transition	6,811,889	0		6,811,889
<u>CLIN 00005 - DEFINED BENEFIT PENSION PLAN COSTS</u>				
Pension	125,000,000	0		125,000,000
<u>CLIN 00006 INTEGRATED WASTE TREATMENT UNIT (IWTU) OPERATIONS AND TURNOVER</u>				
	Estimated Cost	Max Fee	Fee Gal	Total Price
IWTU Ops (C.6.1)	44,307,931	5,538,491	\$ 6.53	\$ 49,846,422
	Estimated Cost	Fee		
IWTU Phase 1 - Process Assessment (C.6.1.1) (Fixed Fee)	19,331,848	956,926		\$ 20,288,774
IWTU Phase 2 - Technical Issue Resolution (C.6.1.2) (Milestone Fee)	90,364,264	5,523,919		\$ 95,888,183
IWTU Phase 3/4 - Startup of Radiological Operations (C.6.1.10) (Fixed/Milestone Fee)	60,766,277	7,304,106		68,070,383
Total (Excluding C.6.1 IWTU Ops)	\$ 170,462,389	\$ 13,784,951		\$ 184,247,340
<u>Total Contract Cost (Excluding Options)</u>				
	Contract Cost	Max Fee	Target Fee	Total Price
	1,601,467,577	169,552,905	60,572,784	1,771,020,482
<u>Total Contract Cost (Includes Options)</u>				
	Target Cost	Max Fee	Target Fee	Total Price
00001a - GrndWtr Monitoring Wells / CFA Landfill	773,962	100,228	38,311	874,190
00001b - GrdWtr Monitoring Wells/TAN Rem	676,966	87,667	33,510	764,633
00001c - Legacy Excess Radioactive/Haz Materials	24,747,535	3,204,806	1,225,003	27,952,341
00001d - RCRA Closure of AMWTP Facilities	30,476,158	3,946,662	1,508,570	34,422,820
00001e - Additional Temporary Storage	6,548,465	848,026	324,149	7,396,491
00001f - RH TRU Lot 11 Option Work (Definitized by Modification 048)	-	-	-	-
00001g - RH TRU Lot 12 Option Work	12,341,796	1,598,263	610,919	13,940,059
00001h - RH TRU Lot 11 GFY 2020 Option Work	19,099,074	2,473,330	945,404	21,572,404
00001i - RH TRU Lot 11 GFY 2021 Option Work	12,607,309	1,632,647	624,062	14,239,956
Total Options	107,271,265	13,891,629	5,309,928	121,162,894
Total Contract Cost (Includes Options) and Max Fee	1,708,738,842	183,444,534	65,882,712	1,892,183,375
<u>Contract Performance Ceiling (B.6)</u>				
Contract Performance Ceiling	1,409,783,969			
NOTE: Fixed Fee values from CLIN-3 and CLIN-6 are included in the max fee value for the total contract cost and total contract cost including options.				

No other changes to Section B.2.

- SECTION B.3 (d) Schedule Milestones, Annual Milestones, and Performance Incentive Fee for CLIN 00001** is revised to include fee for Priced Option 00001h – RH Waste Lot 11 FY 2020 Option Work.

Schedule Milestones (CLIN-1)		Early Date	Min Fee Date	Max Fee Amount	Min Fee Amount
SM-1 Complete the Final Design Document for the SDA Cap		12/31/2019	4/30/2020	\$ 876,093	0
SM-2 Complete CH-TRU Retrieval in TSA-RE		5/31/2017	8/31/2017	\$ 1,971,210	0
SM-3 Complete treatment of RH-TRU Lots 1 -9		8/31/2016	9/30/2016	\$ 2,190,234	0
SM-4 Complete RCRA Closure on INTEC Tank Farm Facility		8/1/2017	1/15/2018	\$ -	0
SM-5 Complete 1648 EBR II Bottle Placements		N/A	5/31/2021	\$ 3,840,000	0
SM-6 Complete Placement of 948 ATR Elements		N/A	5/31/2021	\$ 2,190,234	0
SM-8 Complete Treatment of ISA Debris Waste + Rework		6/30/2019	9/1/2019	\$ 4,500,000	0
SM-9 Complete Treatment of ISA Non-Debris Waste		7/31/2020	10/1/2020	\$ 3,500,000	0
SM-10 Complete Treatment of ISA Non-Debris Rework		N/A	5/1/2021	\$ 1,000,000	0
SM-11 - Complete Certification of ISA Waste Streams 1-10 in FY 2019		N/A	10/1/2019	\$ 350,000	0
SM-12 - Complete Certification of ISA Waste Streams 1-20 in FY 2020		N/A	10/1/2020	\$ 475,000	0
SM-13 - Complete Certification of ISA Waste Streams 1-31 in FY 2021		N/A	6/1/2021	\$ 600,000	0
Subtotal Schedule Milestones				\$ 21,492,771	0
Annual Milestones			Max Fee Amount	Target Fee Amount	
AM-1 CH Meters Ready to be shipped	Total Contract Fee		\$ 13,377,945	\$ 5,113,577	
Total Amount of cubic meters of ISA (CH-TRU and MLLW to be certified and shipped)				10,300	
Fee Per Unit			Treatment	Certification	Shipping
			\$ 1,428.97	\$ 476.32	\$ 476.32
CED-12/31/2018 Fee Paid		\$ 5,399,291.74			
AM-2 Acres Exhumed (measured by acre)			\$ 14,893,589	\$ 5,692,916	
Total acreage to be exhumed				1.55	
Fee per unit at associated Annual Quantity (fee Step/Total Acres)		\$ 6,726,137	\$ 2,570,994	\$ 2,337,267	\$ 1,298,482
Annual Quantity (Acres)		> than .50	.40 - .49	.25 - .39	0.0 - .24
AM-3 MLLW and LLW Disposition			\$ 2,628,280		
AM-4 CH TRU Waste Certified Backlog			\$ 1,400,000		
Subtotal Annual Milestones			\$ 32,299,814		
Performance Incentive		No Sliding Scale			
P-1 Process and ship all CH/RH TRU out of Idaho	12/31/2018		\$ 11,389,215		
P-2 Complete Exhumation of all buried waste and Phase I report	8/31/2020		\$ 7,608,603		
P-3 Critical Failures	N/A		\$ 8,760,935		
P-4 RH TRU Waste Disposition (Base Fee = \$1,958,005; Option 1 Fee = \$1,731,331)			\$ 3,689,336		
Subtotal Performance Incentive			\$ 20,058,874		
Total Milestone/Performance Fees			\$ 73,851,459		

No other changes to Section B.3.

- SECTION B.6(a)(2) CONTRACT PERFORMANCE CEILING** is increased by \$28,918,098 from \$1,380,865,871 to \$1,409,783,969.
- The **POH TRACKING TOOL** has been updated to include the changes as a result of this modification and is incorporated as part of this modification.
- SECTION C.5.3.07 RH Waste LOT 11 FY 2020 Option Work (Priced Option)** is exercised with this modification. The first paragraph is revised to include the highlighted language as follows:

The Contractor shall operate the RH Waste program in accordance with sections C.5.3.01 RH-TRU Retrieval, C.5.3.02 RH-TRU Characterization and Certification, C.5.3.03 RH-TRU Treatment, C.5.3.04 RH-TRU Storage and Movement, and C.5.3.05 RH-TRU Packaging and Transportation for Lot 11 (Legacy RH-M/LLW) and/or suspect RH-TRU from AMWTP. See Exhibit C-11, Lot 11 – Legacy RH-M/LLW. This Option work shall be completed in FY 2020.

No other changes to Section C.5.3.07.

No other changes to the terms and conditions.