

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 0156	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY Idaho Operations Office Idaho Operations U.S. Department of Energy Idaho Operations Idaho Falls ID 89415	CODE 892432	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	CODE 00701	
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		(X) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)	
CODE 968795604	FACILITY CODE	X 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-EM0004063	10B. DATED (SEE ITEM 13) 02/04/2016	

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.

<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 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).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Section I.100 Changes - Cost Reimbursement (AUG 1987) Alternate II and III (APR 1994)
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. 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.)

DUNS Number: 968795604
The purpose of this modification is to revise CLIN-1 to include the scope of work identified in RPT-1727 Integrated Waste Treatment Unit (IWTU) External Vulnerabilities Evaluation, in accordance with the scope stated in Section II of the Contractor's proposal (CCN 324232) dated September 23, 2019. This contract modification also updates Section J - Attachment J-1 - List of Applicable DOE Directives (List B). Please refer to the continuation pages incorporated as part of this modification. The Contractor is directed to continue operations in accordance with contract Section B.2.

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) Thomas M. Williams Director, Prime Contracts	15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED 11-18-19	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jennifer K. Cate Maria M. Hall-William	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED 11-19-19
(Signature of person authorized to sign)		(Signature of Contracting Officer)			

Previous edition unusable

This modification is being made under the authority of contract clause Section I.100, *Changes – Cost Reimbursement (AUG 1987) - Alternate II and III (APR 1984)*. This bilateral contract modification revises CLIN-1 to include the scope of work identified in RPT-1727 “Integrated Waste Treatment Unit (IWTU) External Vulnerabilities Evaluation,” in accordance with the scope stated in Section II of the Contractor’s proposal (CCN 324232) dated September 23, 2019. The indirect cost under CLIN-1 is adjusted to reflect the changes made to the POH table attached per Section B.15(g). This contract modification also updates Section J – Attachment J-1 – List of Applicable DOE Directives (List B) as detailed below and in the attached List B.

The following changes are hereby made to the contract:

1. SECTION B.2 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 \$6,753,155 from \$887,514,887 to \$894,268,042.

The Indirect Target Cost (POH) is increased by \$1,215,568 from \$304,405,885 to \$305,621,453.

The Total Target Cost is increased by \$7,968,723 from \$1,191,920,772 to \$1,199,889,495

The Cost Incentive (Target) is increased by \$394,452 from \$26,586,947 to \$26,981,399.

The Cost Incentive (Maximum) is increased by \$1,031,950 from \$67,824,422 to \$68,856,372. The overall CLIN-1 Max Fee, including milestones and performance fee, is correspondingly increased by \$1,031,950 from \$141,675,881 to \$142,707,831.

Summary:

The Total Contract Value, including options, is increased by \$9,000,673 from \$1,920,970,363 to \$1,929,971,036.

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

[Next Page]

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)	894,268,042	142,707,831		1,342,597,326
Indirect Target Cost w/o ID Spt (Total Pool, PWS C.8)	305,621,453			
	1,199,889,495			
Target Fee			59,394,530	
Subtotal Milestone-Schedule & Performance Fee (B.3(d))		73,851,459		
Subtotal Incremental Cost Incentive Fee		68,856,372		
Cost Incentive Breakout				
Cost Incentive (Max)		68,856,372		12.95%
Cost Incentive (Target)			26,981,399	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)	53,514,133	2,695,357		56,209,490
<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) (Definitized by Modification 152)	0	-	\$ 6.53	\$ -
	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)	121,259,798	14,575,427		135,835,225
Total (Excluding C.6.1 IWTU Ops)	\$ 230,955,910	\$ 21,056,272		\$ 252,012,182
<u>Total Contract Cost (Excluding Options)</u>				
	Contract Cost	Max Fee	Target Fee	Total Price
	1,658,538,608	171,841,939	61,897,725	1,830,380,547
<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 050)	-	-	-	-
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 (Definitized by Modification 142)	-	-	-	-
00001i - RH TRU Lot 11 GFY 2021 Option Work	12,607,309	1,632,647	624,062	14,239,956
Total Options	88,172,191	11,418,299	4,364,524	99,590,490
Total Contract Cost (Includes Options) and Max Fee	1,746,710,799	183,260,238	66,262,249	1,929,971,036
<u>Contract Performance Ceiling (B.6)</u>				
Contract Performance Ceiling	1,450,673,008			
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(c).

2. SECTION B.6(a)(2) CONTRACT PERFORMANCE CEILING is revised as follows:

The current Contract Performance Ceiling (CPC) is increased by \$9,000,673 from \$1,441,672,335 to \$1,450,673,008.

3. ATTACHMENT A - POH TRACKING TOOL has been updated to include the changes as a result of this modification and is incorporated as part of this modification.

4. SECTION C.3.2.08 Integrated Waste Treatment Unit (IWTU) External Vulnerabilities (CLIN-1) is added to include the following work scope:

The Contractor shall complete the following scope of work identified in RPT-1727 “Integrated Waste Treatment Unit (IWTU) External Vulnerabilities Evaluation,” and in accordance with the scope stated in Section II of the Contractor’s proposal (CCN 324232) dated September 23, 2019:

- A. CPP-659 New Waste Calcining Facility (NWCF) Valve Cubicle/Filter Cell Clean up
- B. NWCF Valve Cubicle PaR Manipulator MAN-NCD-914
- C. Sodium-bearing Waste (SBW) Feed Pumps
- D. NWCF Process Off-Gas (POG) System
- E. Sodium Bearing Waste (SBW) Secondary Containment Leak Detection
- F. INTEC Fire Water (FW) System
- G. INTEC Plant Air system
- H. Waste Management PaR Manipulator MAN-NCD-905

The CLIN-1 Direct Target Cost is increased by \$6,753,155 and the Indirect Target Cost (POH) is increased by \$1,215,568. The corresponding target fee is increased by \$394,452, and the max fee is increased by \$1,031,950.

No other changes to Section C.3.2.

5. SECTION J – ATTACHMENT J-1 – LIST OF APPLICABLE DOE DIRECTIVES (LIST B) is revised as follows:

The following Directive has been removed:

DOE O 471.6, Admin Chg 1 (superseded by DOE O 471.6, Admin Chg 3) – Information Security

The following Directive has been added. Per Fluor letter CCN 324366, there is no cost impact for this additional DOE Order.

DOE O 471.6, Admin Chg 3 – Information Security

No other changes to Section J – Attachment J-1.

6. CONTRACTOR'S STATEMENT OF RELEASE: In consideration of the modification agreed to herein as a complete equitable adjustment for the directed changed identified in this modification, and in accordance with contract Section I.100 52.243-2 Changes—Cost Reimbursement Alt II and III, 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 price of the equitable adjustment for CLIN-1 is \$9,000,673.

No other changes to the contract terms and conditions.

Summary Through Mod - 156

	Direct Cost Change	Total Direct Cost	POH Change	Total POH
Intitial CLINS 1,2,3,4,6		\$ 975,624,953		\$ 290,675,615
CLIN00001	\$ 133,602,592	\$ 1,109,227,545	\$ 14,945,838	\$ 305,621,453
CLIN00002	\$ (18,791,157)	\$ 1,090,436,388		
CLIN00003	\$ 40,987,632	\$ 1,131,424,020		
CLIN00004	\$ 1,056,927	\$ 1,132,480,947		
CLIN00006	\$ 186,516,911	\$ 1,318,997,858		
Less Options	\$ (91,080,703)	\$ 1,227,917,155		
TOTAL	\$ 252,292,202	\$ 1,227,917,155	\$ 14,945,838	\$ 305,621,453

CLIN00001

Mod	Work scope description	Direct Cost Change	Total Direct Cost	POH Change	Total POH
	Initial CLIN 00001 + Priced Options	\$ 851,746,153		Initial \$	290,675,615
010	Calcine Disposition Project	\$ 442,956	\$ 852,189,109	\$ -	\$ 290,675,615
014	Inf Upgrade Project	\$ 2,991,701	\$ 855,180,810	\$ -	\$ 290,675,615
020	ICDF,CCP&MFA	\$ 8,842,414	\$ 864,023,224	\$ -	\$ 290,675,615
022	MFC D&D	\$ 480,355	\$ 864,503,579	\$ -	\$ 290,675,615
023	Material Diff	\$ (10,541,000)	\$ 853,962,579	\$ -	\$ 290,675,615
025	Direct/Ind true up	\$ (3,824,905)	\$ 850,137,674	\$ 3,824,905	\$ 294,500,520
027	Calcine Disposition Project	\$ 4,722,370	\$ 854,860,044	\$ -	\$ 294,500,520
028	Tank Farm Cap	\$ 1,799,652	\$ 856,659,696	\$ -	\$ 294,500,520
032	Navy Replan Adj	\$ 5,765,761	\$ 862,425,457	\$ -	\$ 294,500,520
040	TAN well	\$ 655,618	\$ 863,081,075	\$ -	\$ 294,500,520
046	G&A Adj, Guard	\$ 314,400	\$ 863,395,475	\$ 224,000	\$ 294,724,520
050	RH TRU	\$ 21,559,824	\$ 884,955,299	\$ -	\$ 294,724,520
056	NNPP Adustment	\$ 13,875,628	\$ 898,830,927	\$ -	\$ 294,724,520
059	Mandatory Srv	\$ -	\$ 898,830,927	\$ (34,859,143)	\$ 259,865,377
078	Radios	\$ 786,088	\$ 899,617,015	\$ -	\$ 259,865,377
080	LWFC	\$ (71,392,824)	\$ 828,224,191	\$ -	\$ 259,865,377
081	SNF Replan	\$ 1,610,172	\$ 829,834,363	\$ -	\$ 259,865,377
088	Nitric Acid	\$ 1,202,447	\$ 831,036,810	\$ -	\$ 259,865,377
089	Batch Plant	\$ 55,000	\$ 831,091,810	\$ -	\$ 259,865,377
092	UST	\$ 312,539	\$ 831,404,349	\$ -	\$ 259,865,377
104	EBR II D&D	\$ (4,779,913)	\$ 826,624,436	\$ -	\$ 259,865,377
108	AMWTP Roofs 676 & 678	\$ 810,298	\$ 827,434,734	\$ -	\$ 259,865,377
109	INL Proprietary Alarm System	\$ -	\$ 827,434,734	\$ 42,643	\$ 259,908,020
110	CPP-2707 Security REA	\$ 173,050	\$ 827,607,784	\$ 110,056	\$ 260,018,076
111	MTR Canister	\$ (693,220)	\$ 826,914,564	\$ -	\$ 260,018,076
112	EBR II D&D adjustment	\$ 1,000,000	\$ 827,914,564	\$ 431,500	\$ 260,449,576
115	AMWTP Future Mission, FSV Biennial Exercise (actual costs)	\$ 77,987	\$ 827,992,551	\$ -	\$ 260,449,576
116	Emergency Management (shift to indirect)	\$ (22,302)	\$ 827,970,249	\$ 22,302	\$ 260,471,878
118	10 CFR 851	\$ -	\$ 827,970,249	\$ 715,000	\$ 261,186,878
121	CPP-749 Gas Sampling	\$ 93,000	\$ 828,063,249	\$ -	\$ 261,186,878
122	Utility Tunnel Repairs, Demob from EBRII D&D	\$ 2,231,872	\$ 830,295,121	\$ -	\$ 261,186,878
124	CH TRU Waste Settlement	\$ 115,300,000	\$ 945,595,121	\$ 18,915,899	\$ 280,102,777
125	IT Support for STI at WCB, FSV Travel Actuals	\$ 93,496	\$ 945,688,617	\$ 16,829	\$ 280,119,606
126	Continue CCP Staffing; Discontinue Fab and Testing of Shielded Container for Lot 9B	\$ 139,396	\$ 945,828,013	\$ (838,051)	\$ 279,281,555
	IWTU Indirects - DMR Aging Coupons, Hazen/Lab Support, Canister Decon Conceptual Design, Product Sampling, Remove/Clean Uncoated Elements on PGF.	\$ -	\$ 945,828,013	\$ 3,049,983	\$ 282,331,538
129	INTEC ECS wireless communication	\$ 197,047	\$ 946,025,060	\$ 35,468	\$ 282,367,006
	IWTU Phase 3/4 Facility Mods, Confirmatory Demonstration				
131	Run, System Perf Tests, Start Rad Ops	\$ -	\$ 946,025,060	\$ 11,091,909	\$ 293,458,915
132	FY 2019 Calcine Additional Scope and IORC move	\$ -	\$ 946,025,060	\$ 761,457	\$ 294,220,371
138	IT Policies	\$ 61,288	\$ 946,086,348	\$ 11,032	\$ 294,231,403
140	INTEC UCS Obsolete Parts	\$ 1,273,756	\$ 947,360,104	\$ 229,276	\$ 294,460,679
141	DCAA Audit - IWTU Phase 3/4 Part A	\$ -	\$ 947,360,104	\$ (153,979)	\$ 294,306,700
142	RH Waste Lot 11 FY 2020 Priced Option	\$ 19,099,074	\$ 966,459,178	\$ 3,437,833	\$ 297,744,534
145	INTEC Long Range Plan, U-233, 749 Transfers	\$ 9,123,368	\$ 975,582,546	\$ 1,643,265	\$ 299,387,799
148	Continue CCP Staffing to support RH TRU	\$ 1,071,423	\$ 976,653,969	\$ 192,856	\$ 299,580,655
150	Electrical Distribution, RTR Equipment, 10CFR851 Phase 1	\$ 1,941,621	\$ 978,595,590	\$ 434,077	\$ 300,014,732
152	IWTU Phase 3/4 Part B (Less IWTU Ops)	\$ -	\$ 978,595,590	\$ 2,913,406	\$ 302,928,138
154	FY 2020 Calcine (and FY 2019 revised)	\$ -	\$ 978,595,590	\$ 1,477,747	\$ 304,405,885
156	IWTU Vulnerabilities	\$ 6,753,155	\$ 985,348,745	\$ 1,215,568	\$ 305,621,453
	CLIN 00001 Change from Initial Contract	\$ 133,602,592	\$ 985,348,745	\$ 14,945,838	\$ 305,621,453

CLIN00002

Mod	Work scope description	Direct Cost Change	Total Direct Cost
	Initial	\$	61,158,338
46	G&A Adj	\$ (138,146)	\$ 61,020,192
56	NNPP Adustment	\$ (13,857,777)	\$ 47,162,415
126	Remove RH TRU Shipping, Decrease scope for Certification	\$ (4,795,234)	\$ 42,367,181
	CLIN 00002 Change from Initial Contract	\$ (18,791,157)	\$ 42,367,181

CLIN00003

Mod	Work scope description	Estimated Cost Change	Total Estimated Cost
	Initial	\$	12,526,501
022	NE CPP 603 Crane	\$ 1,175,070	\$ 13,701,571
027	Fuel Inversion	\$ 678,707	\$ 14,380,278
032	Navy Replan	\$ 4,992,567	\$ 19,372,845
033	Closeout	\$ 350,001	\$ 19,722,846
036	NE CPP 603 Crane	\$ 5,449,933	\$ 25,172,779
046	G&A Adj	\$ (5,868)	\$ 25,166,911
051	Nvy Adj, Castor V/21 & USGS	\$ (203,767)	\$ 24,963,144
053	NE CPP 603 Crane	\$ (81,325)	\$ 24,881,819

056	DOE Support	\$	29,412	\$	24,911,231
086	Calcine	\$	3,241,141	\$	28,152,372
111	MTR Canister	\$	1,087,100	\$	29,239,472
112	Calcine Retrieval Scope Removal	\$	(122,305)	\$	29,117,167
115	FY 2019 Calcine, SPRU data collection and estimate	\$	6,047,697	\$	35,164,864
132	FY 2019 Calcine Additional Scope and IORC move	\$	4,230,314	\$	39,395,178
145	RH LLW SME Review Updated Performance Assessment	\$	5,882	\$	39,401,060
149	Navy Borehole Invoices	\$	5,903,367	\$	45,304,427
154	Calcine FY 2020	\$	8,209,706	\$	53,514,133
CLIN 00003 Change from Initial Contract		\$	40,987,632	\$	53,514,133

CLIN00004					
Mod	Work scope description	Estimated Cost Change		Total Estimated Cost	
			Initial	\$	
				\$	5,754,962
10	IWTU Transition	\$	1,056,927	\$	6,811,889
CLIN 00004 Change from Initial Contract		\$	1,056,927	\$	6,811,889

CLIN00006					
Mod	Work scope description	Estimated Cost Change		Total Estimated Cost	
			Initial	\$	
				\$	44,438,999
012	Phase I	\$	19,331,848	\$	63,770,847
037	Phase II	\$	66,553,245	\$	130,324,092
046*	G&A Adj	\$	(131,068)	\$	130,193,024
103	DMR Redesign	\$	5,659,068	\$	135,852,092
103	CRR Repair	\$	1,207,602	\$	137,059,694
	DMR Aging Coupons, Hazen/Lab Support, Canister Decon Conceptual Design, Product Sampling, Remove/Clean Uncoated Elements on PGF.	\$	16,944,349	\$	154,004,043
128	IWTU Phase 3/4 Facility Mods, Confirmatory Demonstration Run, System Perf Tests, Start Rad Ops	\$	61,621,715	\$	215,625,758
131	DCAA Audit - IWTU Phase 3/4 Part A	\$	(855,438)	\$	214,770,320
141		\$		\$	
152	IWTU Phase 3/4 Part B (Less IWTU Ops)	\$	16,185,590	\$	230,955,910
CLIN 00006 Change from Initial Contract		\$	186,516,911	\$	230,955,910