

2. AMENDMENT/MODIFICATION NO. 0152 3. EFFECTIVE DATE See Block 16C 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE 892432 7. ADMINISTERED BY (If other than Item 6) CODE 00701
 Idaho Operations Office
 Idaho Operations
 U.S. Department of Energy
 Idaho Operations
 Idaho Falls ID 89415
 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) FLUOR IDAHO, LLC
 Attn: AMANDA JORDAN
 1070 RIVERWALK DRIVE, SUITE 201
 IDAHO FALLS ID 83402
 CODE 968795604 FACILITY CODE
 9A. AMENDMENT OF SOLICITATION NO. (x)
 9B. DATED (SEE ITEM 11)
 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-EM0004083 (x)
 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.

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).
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 1984)
	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 incorporate scope specific to CLIN-6 and CLIN-1 (Indirect Costs). 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.
 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/PRIME CONTRACTOR Thomas M. Williams
 Director, Prime Contracts
 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Maria M. Mitchell-Williams
 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 10/29/19 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED 10-29-19
 (Signature of person authorized to sign) (Signature of Contracting Officer)

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-EM0004083/0152

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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: \$1,789,435,193.00 Incrementally Funded Amount: \$1,458,616,254.18</p> <p>This modification increases the Total Contract Value (including Options) by \$21,209,112 from \$1,889,388,976 to \$1,910,598,088. See Continuation Pages for further details.</p>			1,789,435,193.00	

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 modification definitizes a Change Order per Modification 084 for work scope incorporated under CLIN-6 Section C.6.1.10, Integrated Waste Treatment Unit (IWTU) Phase 3/4 Part B Facility Modifications, Confirmatory Demonstration Run, System Performance Tests, and the Startup of Radioactive Operations. This modification also revises Section C.6.1 Integrated Waste Treatment Unit (IWTU) Operations and Turnover (PRICED OPTION).

The following changes are hereby made to the contract:

1. **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 adjust the Program Overhead (POH) per contract Section B.15(g). The net amount includes the value of IWTU Phase 3/4 Part B less IWTU Operations & Turnover.

The Direct Target Cost remains unchanged at \$887,514,887.

The Indirect Target Cost is increased by a net value of \$2,913,406 (Part B \$10,888,834 less IWTU Ops \$7,975,428) from \$300,014,732 to \$302,928,138.

The Total Target Cost is increased by \$2,913,406 from \$1,187,529,619 to \$1,190,443,025.

The Cost Incentive (Target) is increased by a net value of \$144,213 (Part B \$538,997 less IWTU Ops \$394,784) from \$26,369,585 to \$26,513,798.

The Cost Incentive (Maximum) is increased by a net value of \$377,286 (Part B \$1,410,104 less IWTU Ops \$1,032,818) from \$67,255,768 to \$67,633,054. The overall CLIN-1 Max Fee, including milestones and performance fee, is correspondingly increased by \$377,286 from \$141,107,227 to \$141,484,513.

CLIN-6: Integrated Waste Treatment Unit (IWTU) Operations and Turnover:

IWTU Phase 3/4 Part B is negotiated at a direct cost of \$60,493,521. Fee is \$7,271,321 of the direct cost, and is based on a combination of fixed fee and the milestones identified below. The cumulative total for IWTU Phase 3-4, Parts A and B are shown in the B.2(c) Table.

In addition, the estimated cost and fee is deducted for IWTU Ops (C.6.1); estimated direct cost of \$44,307,931, and \$5,538,491 respectively.

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IWTU Phase 3/4 Fee			Original Mod 131 (Part A)	Part A Revised Mod 141 (DCAA Audit reduction)	Part B	Part A (revised) & B Combined
Fixed Fee (6.09%)			\$ 3,750,000	\$ 3,697,904	\$ 3,681,344	\$ 7,379,248
Milestone Fee (5.93%)			\$ 3,656,930	\$ 3,606,203	\$ 3,589,978	\$ 7,196,180
Total Fee Available (12.02%)			\$ 7,406,930	\$ 7,304,106	\$ 7,271,321	\$ 14,575,428
Milestone #	% of Fee	Description	Amount	Amount	Amount	Amount
1	10%	Complete PGF Filter Hazen Tests & Filter Selection	\$ 365,693	\$ 360,620	\$ 358,998	\$ 719,618
2	5%	Complete Canister Fill Decon System Integrated System Test	\$ 182,847	\$ 180,310	\$ 179,499	\$ 359,809
3	10%	Complete Canister Decon System Installation and Wet/Dry System Installation	\$ 365,693	\$ 360,620	\$ 358,998	\$ 719,618
4	20%	Complete Outage J	\$ 731,386	\$ 721,241	\$ 717,996	\$ 1,439,236
5	20%	Complete Phase 3 IWTU Confirmatory Simulant Run and Contractor Readiness Assessment	\$ 731,386	\$ 721,241	\$ 717,996	\$ 1,439,236
6	35%	Conduct System Performance Test (SPT) and submit SPT report to the State of Idaho Department of Environmental Quality	\$ 1,279,926	\$ 1,262,171	\$ 1,256,492	\$ 2,518,663
SUM	100%		\$ 3,656,930	\$ 3,606,203	\$ 3,589,978	\$ 7,196,180

The milestone completion criteria for each milestone is shown in Attachment A – IWTU Phase 3/4 (Parts A and B) Milestone Fee Plan.

The above fee dollars are specifically associated with Part A and B scope; additional Part C scope activities are being performed outside this mod as authorized unpriced work until such time that a definitization mod can be incorporated to include additional scope and associated fee.

Summary:

The Contract Value is increased by \$21,209,112 (cost and fee adjustments under CLIN-1 & CLIN-6) from \$1,889,388,976 to \$1,910,598,088.

The attached B.2(c) Fee Model has been updated to reflect the adjustment to CLIN-1 and CLIN-6.

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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)	887,514,887	141,484,513		1,331,927,538
Indirect Target Cost w/o ID Spt (Total Pool, PWS C.8)	302,928,138			
	1,190,443,025			
Target Fee			58,926,930	
Subtotal Milestone-Schedule & Performance Fee (B.3(d))		73,851,459		
Subtotal Incremental Cost Incentive Fee		67,633,054		
Cost Incentive Breakout				
Cost Incentive (Max)		67,633,054		12.95%
Cost Incentive (Target)			26,513,798	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)	45,304,427	2,201,903		47,506,330
<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 151)	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
	1,640,882,432	170,125,167	61,430,125	1,811,007,599
<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 (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	1,729,054,623	181,543,466	65,794,648	1,910,598,088
<u>Contract Performance Ceiling (B.6)</u>				
Contract Performance Ceiling	1,431,793,514			
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.

2. **SECTION B.6(a)(2) CONTRACT PERFORMANCE CEILING** is increased by \$3,290,692 from \$1,428,502,822 to \$1,431,793,514.
3. **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.6.1 Integrated Waste Treatment Unit (IWTU) Operations and Turnover (PRICED OPTION) is revised as follows:

From:

The Contractor shall make IWTU fully operational. The Contractor shall operate and maintain the IWTU from the date at which IWTU is fully operational until loss of suction on all four tanks named below, to complete treatment of an estimated 900,000 gallons of Sodium-Bearing Waste (excluding rinsate) from INTEC Tanks WM-187, WM-188, WM-189, and WM-190 and store the waste product in the IWTU storage area.

Fully operational is defined as processing radioactive liquid waste from the INTEC Tank Farm through the IWTU to produce a granular product to be stored in canisters and vaults at the IWTU. Fully operational does not require satisfying the design name plate throughput valve. Loss of suction is defined as when suction is lost on the existing steam jets currently installed in the tanks. The Contractor shall assume at least two maintenance outages that will each last a period of two months. Transfer of the third party fully-paid up license for steam reforming from the incumbent contractor to the Contractor will occur prior to the Contractor taking over IWTU.

C.6.1 is not part of the contract's Section B.6 *Contract Performance Ceiling*. The IWTU priced option is fully cost reimbursement separate CLIN (CLIN 00006) with a fixed fee component and none of the fee, once earned, can be clawed-back based on performance on the IWTU scope or any other areas of the contract.

To:

The Contractor shall make IWTU fully operational as described in the subsections below. Fully operational is defined as processing radioactive liquid waste from the INTEC Tank Farm through the IWTU to produce a granular product to be stored in canisters and vaults at the IWTU.

C.6.1 is not part of the contract's Section B.6 *Contract Performance Ceiling*. The IWTU priced option is fully cost reimbursement separate CLIN (CLIN 00006) with a fixed fee component and none of the fee, once earned, can be clawed-back based on performance on the IWTU scope or any other areas of the contract.

This modification removes the associated price of Section C.6.1 at the time of the contract effective date, and in accordance with the G&A adjustment contract Modification 049. This modification removes the direct cost of \$44,307,931 and fee of \$5,538,491 from the B.2(c) table. In accordance with B.15(g), CLIN-1 indirect costs for POH are decreased by \$7,975,428. The corresponding target fee is decreased by \$394,784 and the max fee is decreased by \$1,032,818.

5. SECTION C.6.1.10 INTEGRATED WASTE TREATMENT UNIT (IWTU) PHASE 3/4, FACILITY MODIFICATIONS, CONFIRMATORY DEMONSTRATION RUN,

SYSTEM PERFORMANCE TESTS, AND THE STARTUP OF RADIOACTIVE OPERATIONS is incorporated to include Part B of the following work scope:

Overall Phase 3/4 scope of work:

The Contractor shall perform all necessary work to achieve the startup of radiological operations (processing sodium bearing waste). This includes facility modifications, a confirmatory demonstration run, and system performance tests.

Part B – The scope of work specific to this modification, which supports the overall scope of work includes:

1. Canister decontamination system (engineering, procurement, installation).
2. Cell decontamination system (engineering, procurement, installation).
3. Spare parts.
4. FY 2020 Hazen, external laboratory, and consultant support.
5. FY 2020 Plant Operations (LOE).
6. Phase 4 System Performance Test (SPT); TI-103 Parts 1 and 2.
7. SPT Hazen, external laboratory, and consultant support.
8. SPT Plant Operations (LOE).

The overall scope of work for Phase 3/4 include three specific sections. Part A was scope that could be well defined and accurately estimated early on. Part A was definitized with contract Modification 131, dated July 17, 2019. Part B (above) is scope that was known but could not be definitively estimated at the time of Part A proposal submission. Part C items recognizes that due to the complexity of this work, there may be additional items that cannot be known at this time. However, as they arise they will be addressed appropriately in accordance with Section B.15 Advance Understanding – Changes to Cost and Fee. The Part C scope of work will be estimated at a later date.

Based on this change, the CLIN-6 estimated cost for IWTU Phase 3/4 Part B is increased by \$60,493,521. The corresponding fee in CLIN-6 is increased by \$7,271,321. In addition, per B.15(g) CLIN-1 indirect costs for POH are increased by \$10,888,834. The corresponding target fee is increased by \$538,997 and the max fee is increased by \$1,410,104.

No other changes to Section C.6.1.11.

6. **CONTRACTOR'S STATEMENT OF RELEASE:** In consideration of the modification agreed to herein as a complete equitable adjustment (Part B scope) for the directed change to incorporate the work scope under CLIN-6 Section C.6.1.11, Integrated Waste Treatment Unit (IWTU) Phase 3/4 Part B, 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 net price of the equitable adjustment is \$71,055,534. See table below for breakout:

	CLIN-6	CLIN-1	Total
Cost	\$ 60,493,521	\$ 2,913,406	\$63,406,927
Fee	\$ 7,271,321	\$ 377,286	\$ 7,648,607
Total	\$ 67,764,842	\$ 3,290,692	\$71,055,534

No other changes to the terms and conditions.

Attachment A
IWTU Phase 3/4 (Parts A and B)
Milestone Fee Plan

Milestone #1 – (August 2019) – 10%

Objective: Complete the Process Gas Filter (PGF) Hazen Tests & Filter Selection.

This milestone is complete when: An Engineering Position File (EPF) is issued documenting the selected filter.

Authorization to submit fee invoice: When DOE accepts the filter selection identified in the EPF or 14 business days after the EPF is issued to DOE, whichever comes first.

Milestone #2 - (September 2019) – 5%

Objective: Complete Canister Fill Decon System Integrated System Test at Columbia Energy.

This milestone is complete when: A final report is issued showing successful completion of the Integrated System Test.

Authorization to submit fee invoice: When DOE accepts the final report showing successful completion of the Integrated System Test, or 14 business days after submission to DOE, whichever comes first.

Milestone #3 - (May 2020) – 10%

Objective: Complete Canister Decon System Installation and Wet/Dry System Installation

This milestone is complete when:

- Installation in Canister Fill 0 and Canister Fill 1 cells are complete as shown by completed work orders
- Successful system performance testing of both systems is complete as shown in System Test Reports
- Wet/Dry Decon System is installed as shown by completed work orders
- Wet/Dry Decon System completes successful system performance test as shown in the system test report

Authorization to submit fee invoice: When DOE accepts the test reports for both the Canister Decon system and Wet/Dry System, or 14 business days after submission to DOE, whichever comes first.

Milestone #4 - (Spring/Summer 2020) – 20%

Objective: Complete Outage J

This milestone is complete when:

- Lock-Out-Tag-Out (LOTO) is removed
- All post maintenance testing (PMT) is completed on the remaining systems that could not have been completed under the facility LOTO

Authorization to Submit Fee Invoice: Upon DOE verification that all PMT's are complete.

Milestone #5 – (Summer/Fall 2020) – 20%

Objective: Complete Phase 3 IWTU Confirmatory Simulant Run and CRA Assessment

This milestone is complete when:

- The confirmatory report is issued to DOE
- The contract readiness assessment (CRA) report is issued with all pre-start findings closed

Authorization to submit fee invoice: Upon DOE verification of completion of the CRA including the assurance that all pre-start findings have been closed, or 14 business days after the CRA report is issued, whichever comes first.

Milestone #6 - (Summer/Fall 2020) – 35%

Objective: Conduct System Performance Test (SPT) and submit SPT report to the State of Idaho Department of Environmental Quality (DEQ)

This milestone is complete when:

- Sodium Bearing Waste (SBW) is introduced into the Integrated Waste Treatment Unit (IWTU)
- The SPT report has been submitted to DEQ.

Authorization to Submit Fee Invoice: Upon DOE verification that the SPT is adequate to send to DEQ, or 14 business days after the SPT report is issued to DOE, whichever comes first.

Summary Through Mod - 152

	Direct Cost Change	Total Direct Cost	POH Change	Total POH
Intitial CLINS 1,2,3,4,6		\$ 975,624,953		\$ 290,675,615
CLIN00001	\$ 126,849,437	\$ 1,102,474,390	\$ 12,252,523	\$ 302,928,138
CLIN00002	\$ (18,791,157)	\$ 1,083,683,233		
CLIN00003	\$ 32,777,926	\$ 1,116,461,159		
CLIN00004	\$ 1,056,927	\$ 1,117,518,086		
CLIN00006	\$ 186,516,911	\$ 1,304,034,997		
Less Options	\$ (91,080,703)	\$ 1,212,954,294		
TOTAL	\$ 237,329,341	\$ 1,212,954,294	\$ 12,252,523	\$ 302,928,138

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,				
128	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
	CLIN 00001 Change from Initial Contract	\$ 126,849,437	\$ 978,595,590	\$ 12,252,523	\$ 302,928,138

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
CLIN 00003 Change from Initial Contract		\$	32,777,926	\$	45,304,427

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
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