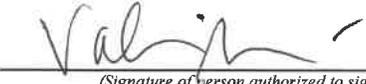


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
			20EM001212	1 OF 11
2. AMENDMENT/MODIFICATION NO. 481	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 20EM001212	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352		7. ADMINISTERED BY (If other than Item 6)		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code) Bechtel National, Inc. 2435 Stevens Center Place Richland, WA 99354		9A. AMENDMENT OF SOLICITATION NO.		
		9B. DATED (SEE ITEM 11)		
		10A. MODIFICATION OF CONTRACT/ ORDER NO. DE-AC27-01RV14136		
		10B. DATED (SEE ITEM 13) December 11, 2000		
CODE 396A5	FACILITY CODE 089176176			
11. THIS ITEM APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE DATE AND HOUR SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and amendment and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule Net Increase: \$722,444.00				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS SET FORTH 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.			
<input type="checkbox"/>				
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO AUTHORITY OF FAR 43.103(b).			
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:			
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) FAR 43.103 Types of Contract Modifications (a) Bilateral - Mutual Agreement of the Parties			
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) See following page(s)				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print) Valerie McCain Project Director		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Katie A. Mair Contracting Officer		
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 12 May 2020	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED	

Purpose of Modification:

The purpose of this modification is to:

- Definitize Change Proposal 2019-006, Rev. 0, DFLAW Waste Feed Transfer Line Flushing Evaluation.
- Revise Contract Section B, Supplies or Services and Prices/Costs:
 - To reflect the negotiated amount of Change Proposal 2019-006, Rev. 0.
 - Obligate incremental funding provided under Purchase Requisition Number 20EM001212. Incremental funding is obligated as follows:

Description	Control Point	Local Use Code	Appropriation Year	Funded Amount
LAW Baseline	1111710	0421573	2020	\$236,746
EMF Baseline	1111711	0421586	2020	\$432,203
LAW Fee	1111712	0421573	2020	\$53,495
			Total	\$722,444

Description of Modification:

1. Definitize Change Proposal 2019-006, Rev. 0, DFLAW Waste Feed Transfer Line Flushing Evaluation, to reflect the following negotiated settlement:

CLIN	DESCRIPTION	DEFINITIZED CHANGE PROPOSAL 2019-006, Rev. 0 VALUE
CLIN 1.0	Design, Construct, and Commission LBL in the DFLAW Configuration	\$668,949
TECC		\$668,949
FEE		\$53,495
TECP		\$722,444

2. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (a) is revised as follows:

- The total amount of funds obligated to LAW Baseline 1111710 - 0421573 is increased by \$236,746.00 from \$685,717,371.00 to \$685,954,117.00.
- The total amount of funds obligated to EMF Baseline 1111711 - 0421586 is increased by \$432,203.00 from \$522,301,314.00 to \$522,733,517.00.
- The total amount of funds obligated to LAW Fee 1111712 - 0421573 is increased by \$53,495.00 from \$91,573,099.00 to \$91,626,594.00.

- The total funding obligated to the Budgetary Control Points, is increased by \$722,444.00 from \$12,823,917,676.37 to \$12,824,640,120.37.
- The total funding obligated to the Budgetary Control Points, including Program Direction funding, is increased by \$722,444.00 from \$12,826,407,676.37 to \$12,827,130,120.37.
- The total funding obligated to the Budgetary Control Points, including Program Direction, Inter-Entity Work Order Funding and Request for Service Funding, is increased by \$722,444.00 from \$12,912,342,974.72 to \$12,913,065,418.72.

3. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (a), is deleted in its entirety and replaced in full as follows:

BUDGETARY CONTROL POINTS FOR WTP PROJECT				
Description	Appropriation Symbol	B&R No. (Control Point)	Local Use Code	Budget Authority
	1250	1110401		\$3,006,205,907.70
LAW	1250	1111183		\$637,537,062.71
LAB	1250	1111184		\$207,817,505.32
BOF	1250	1111185		\$261,722,260.48
HLW	1250	1111186		\$559,580,100.04
PT	1250	1111187		\$840,766,807.09
LAW	1250 and 1260	1111241		\$1,691,548,709.50
DFLAW	1250 and 1260	1111243		\$157,063,073.13
LAB	1250 and 1260	1111242		\$349,312,452.11
BOF	1250 and 1260	1111243		\$648,031,980.05
HLW	1250 and 1260	1111244		\$1,029,273,076.81
PT	1250 and 1260	1111245		\$1,526,044,506.86
LAW Baseline	1260	1111710	0421573	\$685,954,117.00
LAB Baseline	1260	1111710	0421574	\$89,682,280.00
BOF Baseline	1260	1111710	0421575	\$322,178,004.77
EMF Baseline	1260	1111711	0421586	\$522,733,517.00
HLW Baseline	1260	1111714	0421587	\$122,767,699.00
PT Baseline	1260	1111716	0421588	\$40,170,413.80
LAW Fee	1260	1111712	0421573	\$91,626,594.00
LAB Fee	1260	1111712	0421574	\$15,476,701.00
BOF Fee	1260	1111712	0421575	\$13,346,714.00
HLW Fee	1260	1111715	0421587	\$2,371,295.00
PT Fee	1260	1111717	0421588	\$3,429,343.00
Subtotal - Budgetary Controls Points for WTP Project thru Contract Modification No. 481				\$12,824,640,120.37
BUDGETARY CONTROL POINTS FOR PROGRAM DIRECTION				

- The Cost Category (B.1) CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration, Total CLIN Estimated Cost, is increased by \$668,949 from \$6,389,008,597 to \$6,389,677,546.
- The Revised Total Estimated Contract Cost (TECC) is increased by \$668,949 from \$14,083,587,076 to \$14,084,256,025.
- The Cost Category E5: REA Fee Post Mod 384, Earned Fee, is increased by \$53,495 from \$605,580 to \$659,075.
- The Total Fee Earned is increased by \$53,495 from \$341,034,234 to \$341,087,729.
- The Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) is increased by \$722,444 from \$14,668,361,724 to \$14,669,084,168.

5. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (c), is deleted in its entirety and replaced in full as follows:

Table B.1 – Total Estimated Contract Price

		Cost		
Total Estimated Contract Cost (TECC) through Mod No. 479				<u>\$14,083,587,076</u>
Total Estimated Contract Cost (479)		CLIN Estimated Cost	Increased/ Decreased by Mod 481	Total CLIN Estimated Cost
B.1	CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration	\$6,389,008,597	\$668,949	\$6,389,677,546
B.2	CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW			
	Sub-CLIN 2.1: DFLAW Design (Target Cost)	\$76,359,283		\$76,359,283
	Sub-CLINs 2.2 /2.3 DFLAW Procurement/ Construction	\$481,157,678 <small>(Previous NTE Values)</small>		\$481,157,678
B.3	CLIN 3.0 HLW Facility	\$2,741,179,318		\$2,741,179,318
B.4	CLIN 4.0: PT Facility	\$4,395,882,200		\$4,395,882,200
Revised Total Estimated Contract Cost (TECC) through Mod No. 481				<u>\$14,084,256,025</u>
Fee				
		Available		Earned
Earned before Mod No. 384				
A1	Final Fee Determination – Pre-Mod No. A143			\$102,622,325
A2	Final Fee Earned Mod No. A143 – Mod No. 384			\$131,573,553
Fixed Fee Payment (Attachment B-2-C)***		\$0		\$60,000,000
Pending Activity Milestones (Attachment B-2-B)		\$0		\$6,667,000
Maximum Available Award Fee (CY 2016–2022) (Attachment B-2-D)		\$31,490,414		\$14,815,776
CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration				

Contract No. DE-AC27-01RV14136
Modification No. 481
SF-30 Continuation

		Cost			
E1	LBL Construction Complete Performance Based Incentives (Attachment B-2-E)	\$51,300,000		\$17,100,000	
E2	Commission LBL in the DFLAW Configuration Performance Based Incentive (Attachment B-2-F)	\$152,950,000		\$6,650,000	
E3	Schedule Incentive Hot Commissioning (Attachment B-2-F)	+/- \$60,000,000 (Max)			
E4	Cost Share Incentive (Attachment B-2-G)	+/- \$50,000,000 (Max)			
E5	REA Fee Post Mod 384 (481)		\$53,495	\$659,075	
CLIN 2.1: Performance-Based Incentive for DFLAW Design Completion (Attachment B-2-H)		\$8,000,000		\$1,000,000	
Total Maximum Available Fee****		\$243,740,414			
Total Fee Earned (481)				\$341,087,729	
Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) (481)					\$14,669,084,168

** Estimated cost for interim work plans within the agreed funding profile for CLINs 3.0 and 4.0 is included in Total Estimated Contract Cost (TECC).

*** Payment is in satisfaction of all fee entitlement for work accomplished under the Contract from contract Modification No. A143 through the date of this modification (384) that is not included in A2 above.

**** Exclusive of Cost Share and Schedule Incentives.

6. The table in Attachment B-1 in Section B, *Supplies or Services and Prices/Costs*, is deleted in its entirety and replaced in full as follows:

Incentive Element	Title	Fee type	Performance Measure	Amount of Fee Available	Amount Paid
B-2-A	Final Fee Determination for work prior to Mod No. A 143	Fixed	Determined by Contracting Officer		\$102,622,325
B-2-B	Earned Activity Milestone Completion Incentive Fees, REA Settlement Fees, Enhanced Incentive Fee, Earned Facility Milestone Completion Schedule Fee, and Award Fee earned before mod (384)	Fixed	Determined by Contracting Officer		* \$131,573,553
	Pending Activity Milestones	Fixed	Determined by Contracting Officer	\$0	\$6,667,000
B-2-C	Fixed Fee Payment	Fixed		\$0	\$60,000,000
			TOTAL B-2-C	\$0	\$300,862,878
B-2-D	Award Fee (From Mod (384) to December 2022).	Award Fee	To be established prior to each calendar year. Will be based upon DOE goals set for HLW and PT and Project Management.		
				\$0	\$7,242,000
				\$0	\$3,805,961
				\$0	\$3,767,815
				\$7,872,603	
				\$7,872,603	
				\$7,872,603	
			Total B-2-D	\$31,490,014	\$14,815,776
B-2-E	LBL Physical Plant Complete Performance Based Incentives	Interim Milestones			
		PBI	Install Caustic Scrubber Vessel Milestone	\$0	\$4,275,000
		PBI	Complete Final Assembly of Melter Lid #1 Milestone	\$0	\$4,275,000
		PBI	Complete Final Assembly of Melter Lid #2 Milestone	\$0	\$4,275,000
		PBI	Complete LAW Bulk Cable EL+ 48 Milestone	\$0	\$4,275,000
		Final Milestone			
PBI	Final LBL Physical Plant Complete Milestone		\$51,300,000		
			TOTAL B-2-E	\$51,300,000	\$17,100,000

		Interim Milestones			
B-2-F	Commission LBL in the DFLAW Configuration Performance Based Incentive	PBI	Approval of LAW DSA	\$0	\$6,650,000
		PBI	LAB Startup Testing Complete	\$6,650,000	
		PBI	LAW Startup Testing Complete	\$6,650,000	
		PBI	EMF Startup Testing Complete	\$6,650,000	
		PBI	LAB Readiness to Operate	\$6,650,000	
		PBI	LAW DOE HQ ORR Complete	\$6,650,000	
			Final Milestone		
		PBI	Successful Demonstration of Hot Commissioning	\$119,700,000	
	Commission LBL in the DFLAW Configuration Performance Based Schedule Incentive/disincentive		Based upon actual completion date of Successful Demonstration of Hot Commissioning	+/- \$60,000,000	
		TOTAL B-2-F		\$152,950,000	\$6,650,000
B-2-G	CLIN 1.0 Cost Share Incentives	IF	Cost sharing incentive/disincentive based on final CLIN 1 cost above or below the Target cost as defined in Attachment B-2-G	+/- \$50,000,000	
B-2-H	DFLAW design completion	PBI	Complete the constructability review milestone	\$0	\$500,000
		PBI	Prepare and issue DFLAW EMF safety basis change package	\$0	\$500,000
	Cost Share incentive for CLIN 2.1	IF	DOE and the contractor will share cost on CLIN 2.1 final total cost at above or below the Target Cost of \$75M in the ratio of 80% DOE and 20% Contractor. Subject to the maximum combined fee limitation of \$9,000,000.	\$8,000,000	
		TOTAL B-2-H		\$8,000,000	\$1,000,000
B-2-I	REA Fee Post Mod 384 (481)	FF	Fixed Fee payment for REAs Negotiated	\$0	\$659,075
		TOTAL FEE AVAILABLE		\$243,740,414	
		TOTAL FEE EARNED (481)			\$341,087,729

7. Section B, Table B-2-F-1, Configuration Performance Based Incentive Fee, item B) Successful Demonstration of Hot Commissioning Final Milestone PBI Description - is revised to increase the number in the third paragraph from \$3,486,227,047 by \$668,949 to \$3,486,895,996 as follows:

LBL Startup and Commissioning Performance Based Incentive Fee	Fee (\$)
<p>B) <u>Successful Demonstration of Hot Commissioning Final Milestone PBI Description:</u></p> <p>75% of the Startup and Commissioning PBI pool will be earned upon the successful demonstration of hot commissioning by January 15, 2022. This PBI is date dependent and will have a +/- 3-month grace period.</p> <p>Schedule Incentive Fee – <u>Description:</u> For completion of the successful demonstration of LBL hot commissioning per Section J, “List of Attachments,” Attachment P, “Completion Definition Sheets for Incentive Fees,” after April 15, 2022, fee under this PBI will be reduced at a rate of \$10M/month for a six (6) month period or until October 15, 2022. For completion after October 15, 2022, fee under the successful demonstration of hot commissioning PBI will be reduced to a minimum fee of 30% or \$35.9M, which is subject to the cost share incentive of this PBI.</p> <p>For completion per Section J, “List of Attachments,” Attachment P, “Completion Definition Sheets for Incentive Fees,” earlier than October 15, 2021, the Contractor shall earn a fee incentive of \$10M/month for a six (6) month period or until April 15, 2021, subject to the maximum schedule incentive of \$60M. Any incentive earned under the successful demonstration of this PBI for early completion is conditioned on achievement of actual cost savings equal to or greater than 200% of the amount of incentive earned (i.e., if the completion date is August 15,</p>	<p>\$119,700,000 (+ any unearned Startup and Commissioning Interim PBIs)</p>

LBL Startup and Commissioning Performance Based Incentive Fee		Fee (\$)
<p>2021, the Contractor is entitled to a \$20M schedule incentive, provided that the total costs for CLIN 1.0 are equal to or less than \$3,486,895,996, a reduction of \$40M).</p> <p>Total LBL Startup and Commissioning Performance Based Incentive Fee not including schedule incentive</p> <p>See Figure B-2-F-1 for an illustration of the mechanics of the Schedule Incentive.</p>		\$159,600,000

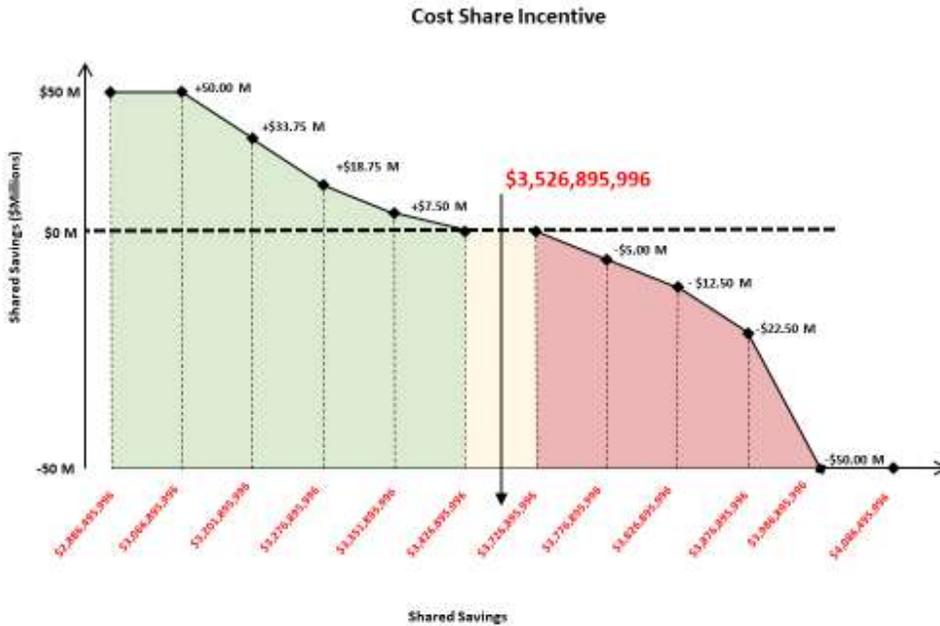
8. Section B, Attachment B-2-G, Incentive Fee G – CLIN 1.0 Cost Share Incentives is revised to increase numbers by \$668,949 as follows:

The Government and BNI will share cost increases/decreases above or below the target cost of **\$3,526,895,996**. The final increase/decrease to earned fee will be based on the actual final cost incurred to complete CLIN 1.0 from January 1, 2014. The increase/decrease will be cumulative and the final amount will be prorated for any final cost falling between the high and low points of any of the final cost bands reflected herein.

Cost Share Incentives	Description	Maximum Incremental Fee Reduction	Maximum Cumulative Fee Reduction
	CLIN 1.0 Cost share incentive will include a +\$200M fee neutral cost band above the price of \$3,526,895,996 and a -\$100M fee neutral band below \$3,526,895,996 .		
Decreases to earned fee will start after the total cost for CLIN 1.0 exceeds \$3,726,895,996 as follows:	Total cost for CLIN 1.0 between \$3,726,895,996 to \$3,776,895,996 , the cost increase will be shared in a ratio of 90% Government and 10% BNI.	-\$5,000,000.00	-\$5,000,000.00
	Total cost for CLIN 1.0 between \$3,776,895,996 to \$3,826,895,996 , the cost increase will be shared in a ratio of 85% Government and 15% BNI.	-\$7,500,000.00	-\$12,500,000.00
	Total cost for CLIN 1.0 between \$3,826,895,996 to \$3,876,895,996 , the cost increase will be shared in a ratio of 80% Government and 20% BNI.	-\$10,000,000.00	-\$22,500,000.00
	Total cost for CLIN 1.0 between \$3,876,895,996 to \$3,986,895,996 the cost increase will be shared in a ratio of 75% Government and 25% BNI.	-\$27,500,000.00	-\$50,000,000.00
	Total Decrement for \$460,000,000 cost increase to price (\$3,986,895,996)	-\$50,000,000.00	
Increases to earned fee will start when costs are below \$3,426,895,996		Maximum Incremental Fee Increase	Maximum Cumulative Fee Increase

Total cost for CLIN 1.0 equal to \$3,426,895,996 to \$3,351,895,996, the cost savings will be shared in a ratio of 90% Government and 10% BNI.	\$7,500,000.00	\$7,500,000
Total cost for CLIN 1.0 between \$3,351,895,996 to \$3,276,895,996, the cost savings will be shared in a ratio of 85% Government and 15% BNI.	\$11,250,000.00	\$18,750,000
Total cost for CLIN 1.0 between \$3,276,895,996 to \$3,201,895,996, the cost savings will be shared in a ratio of 80% Government and 20% BNI.	\$15,000,000.00	\$33,750,000
Total cost for CLIN 1.0 between \$3,201,895,996 to \$3,066,895,996, the cost savings will be shared in a ratio of 75% Government and 25% BNI.	\$16,250,000.00	\$50,000,000
Total Incentive for cost savings	\$50,000,000.00	

9. In Section B, Figure B-2-G-1. Graph Cost Share Incentive Fee CLIN 1.0 is revised to reflect the \$668,949 revision to the Cost Share Incentive Curve as follows:



CLIN 1.0 Cost Share Incentive Fee Changes	
Mod #	Target Cost
384	\$3,640,400,000
403	\$3,640,800,000
426	\$3,641,277,842
429	\$3,642,291,629
433	\$3,642,521,347

443	\$3,643,453,008
445	\$3,644,115,144
448	\$3,644,336,447
453	\$3,644,545,015
454	\$3,646,026,089
455	\$3,648,274,745
464	\$3,529,765,367
465	\$3,524,925,747
475	\$3,525,227,047
479	\$3,526,227,047
481	\$3,526,895,996

10. The table in Section B, Supplies or Services and Prices/Costs, Contract Section B.12, Attachment B-2-I, REA Fee Post Mod 384, is revised to add 2019-006, Rev. 0, DFLAW Waste Feed Transfer Line Flushing Evaluation, to the table as follows:

REA Number and REA Title	Contract Mod Recognizing Definitization	Dollar Value of Fee Negotiated
REA 2017-002 EMF Differing Subsurface Conditions	420	\$40,522
REA 2016-002 Probabilistic Seismic Hazards Analysis (PSHA) Assessment	429	\$85,627
REA 2016-001 Rev. 1 Direction to Evaluate IERT Recommendations for RLD-VAL-00007 & 00008	441	\$139,098
REA 2017-008 Rev. 0 T-1 Office Space for DOE	445	\$56,788
REA 2018-011 Rev. 0 Transfer Line Pressure Discrepancy Resolution	453	\$41,078
REA 2015-005, DOE O 414.1D, Change 1, Quality Assurance Program	454	\$188,315
REA 2018-009, Rev. 0, Implementation of 29 CFR 1926 – Respirable Crystalline Silica Final Rule	475	\$54,152
2019-006, Rev. 0, DFLAW Waste Feed Transfer Line Flushing Evaluation	481	\$53,495
Total		\$659,075

11. Contractor's Statement of Release: In consideration of the Modification 481, agreed to herein as complete equitable adjustment for the Contractor's Request for Equitable Adjustments (REA) for 2019-006, Rev. 0, 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 changes as noted in the modification.

All other terms and conditions remain unchanged.

(End of Modification)