

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
			1 10
2. AMENDMENT/MODIFICATION NO. 475	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 20EM000747	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.	
		<input type="checkbox"/>	
		9B. DATED (SEE ITEM 11)	
		<input type="checkbox"/>	
		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

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 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: \$866,337

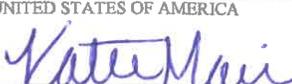
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS SET FORTH IN ITEM 14.

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 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.)
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 11 Feb 2020
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 2/18/20

Purpose of Modification:

The purpose of this modification is to:

- Definitize REA 2018-009, Rev. 0, Implementation of 29 CFR 1926, Respirable Crystalline Silica Final Rule.
- Revise Contract Section B, Supplies or Services and Prices/Costs, to:
 - Reflect the negotiated amount of REA 2018-009, Rev. 0
 - Obligate incremental funding provided under Purchase Requisition Number 20EM000747. Incremental funding is obligated as follows:

Description	Control Point	Local Use Code	Appropriation Year	Funded Amount
EMF Baseline	1111711	0421586	2020	\$126,444
LAW Baseline	1111710	0421573	2020	\$620,532
HLW Baseline	1111714	0421587	2020	\$28,973
PT Baseline	1111716	0421588	2020	\$36,236
LAW Fee	1111712	0421573	2020	\$49,804
HLW Fee	1111715	0421587	2020	\$1,932
PT Fee	1111717	0421588	2020	\$2,416
			Total	\$866,337

Description of Modification:

1. Definitize REA 2018-009, Rev. 0, Implementation of 29 CFR 1926, Respirable Crystalline Silica Final Rule, to reflect the following negotiated settlement:

CLIN	DESCRIPTION	DEFINITIZED REA 2018-009, Rev. 0 VALUE
CLIN 1.0	Design, Construct, and Commission LBL in the DFLAW Configuration	\$620,532
Sub-CLINs 2.2/2.3	DFLAW Procurement/Construction	\$126,444
CLIN 3.0	HLW Facility	\$ 28,973
CLIN 4.0	PT Facility	\$ 36,236
TECC		\$812,185
FEE		\$ 54,152
TECP		\$866,337

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 EMF Baseline 1111711 - 0421586 is increased by \$126,444.00 from \$477,927,000.00 to \$478,053,444.00.
 - The total amount of funds obligated to LAW Baseline 1111710 - 0421573 is increased by \$620,532.00 from \$597,474,561.00 to \$598,095,093.00.

- The total amount of funds obligated to HLW Baseline 1111714 - 0421587 is increased by \$28,973.00 from \$114,571,403.00 to \$114,600,376.00.
 - The total amount of funds obligated to PT Baseline 1111716 - 0421588 is increased by \$36,236.00 from \$37,807,576.80 to \$37,843,812.80.
 - The total amount of funds obligated to LAW Fee 1111712 - 0421573 is increased by \$49,804.00 from \$84,523,295.00 to \$84,573,099.00.
 - The total amount of funds obligated to HLW Fee 1111715 - 0421587 is increased by \$1,932.00 from \$1,369,363.00 to \$1,371,295.00.
 - The total amount of funds obligated to PT Fee 1111717 - 0421588 is increased by \$2,416.00 from \$1,426,927.00 to \$1,429,343.00.
 - The total funding obligated to the Budgetary Control Points, is increased by \$866,337.00 from \$12,597,577,987.37 to \$12,598,444,324.37.
 - The total funding obligated to the Budgetary Control Points, including Program Direction funding, is increased by \$866,337.00 from \$12,600,067,987.37 to \$12,600,934,324.37.
 - 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 \$866,337.00 from \$12,686,003,285.72 to \$12,686,869,622.72.
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	\$598,095,093.00
LAB Baseline	1260	1111710	0421574	\$79,573,000.00
BOF Baseline	1260	1111710	0421575	\$266,178,004.77
EMF Baseline	1260	1111711	0421586	\$478,053,444.00
HLW Baseline	1260	1111714	0421587	\$114,600,376.00
PT Baseline	1260	1111716	0421588	\$37,843,812.80
LAW Fee	1260	1111712	0421573	\$84,573,099.00
LAB Fee	1260	1111712	0421574	\$10,476,701.00
BOF Fee	1260	1111712	0421575	\$11,346,714.00
HLW Fee	1260	1111715	0421587	\$1,371,295.00
PT Fee	1260	1111717	0421588	\$1,429,343.00
Subtotal - Budgetary Controls Points for WTP Project thru Contract Modification No. 475				\$12,598,444,324.37

BUDGETARY CONTROL POINTS FOR PROGRAM DIRECTION

Description	Appropriation Symbol	B&R No. (Control Point)	Budget Authority
PD	1250	1110462	\$1,280,000.00
PD	1250	1110458	\$1,210,000.00
Subtotal - Budgetary Controls Points, including Project Direction, thru Contract Modification No. 475			\$12,600,934,324.37

INTER-ENTITY WORK ORDER FUNDING

IEWO Identification Numbers	IEWO Amendment No.	Funding
M0SRLE60 Funding (SRNS/SRNL)	40	\$73,957,217.82
M0SRV00028 Funding (SRNS)	43	\$7,056,600.30
M0SRV00036 Funding (WSRC)	3	\$69,807.36
M0SRV00042 Funding (ORNL)	2	\$27,599.05
M0IDV00061 Funding (BEA)	1	\$21,277.60
M0ORV00088 Funding (ORNL)	2	\$150,848.30
M0NSV00089 Funding (SNL)	1	\$18,030.68
M0SRV00105 Funding (SRNS)	10	\$4,207,471.24
M0FTV00117 Funding (NETL)	4	\$410,000.00
Total - IEWO Funding 442		\$85,918,852.35

REQUEST FOR SERVICE FUNDING

RFS Number	Supplement No.	Funding
M14009 Funding (MSA)	0	\$16,446.00
Total - RFS Funding 367		\$16,446.00

Total Budgetary Control Points for WTP Project 475	\$12,686,869,622.72
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BEA = Battelle Energy Alliance	SRNL = Savannah River National Laboratory.
NETL = National Energy Technology Laboratory.	SRNS = Savannah River Nuclear Solutions.
ORNL = Oak Ridge National Laboratory.	WSRC = Washington Savannah River Company.

4. As a result of negotiations and definitizing REA 2018-009, Rev. 0, 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 revised as follows:

- The Cost Category (A) Total Estimated Contract Cost (TECC) in the amount of \$14,081,741,539 is carried forward from Contract Modification 469.
- The Cost Category (B.1) CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration, Increased by Mod No. 475, is \$620,532.
- The Cost Category (B.1) CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration, Total CLIN Estimated Cost, is increased by \$620,532 from \$6,387,707,297 to \$6,388,327,829.
- The Cost Category (B.2) CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW, Sub-CLINs 2.2/2.3: DFLAW Procurement/Construction, Increased by Mod No. 475, is \$126,444.
- The Cost Category (B.2) CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW, Sub-CLINs 2.2/2.3: DFLAW Procurement/Construction, Total CLIN Estimated Cost, is increased by \$126,444 from \$480,783,364 to \$480,909,808.
- The Cost Category (B.3) CLIN 3.0 HLW Facility, Increased by Mod No. 475, is \$28,973.
- The Cost Category (B.3) CLIN 3.0 HLW Facility, Total CLIN Estimated Cost, is increased by \$28,973 from \$2,741,109,159 to \$2,741,138,132.
- The Cost Category (B.4) CLIN 4.0: PT Facility, Increased by Mod No. 475, is \$36,236.
- The Cost Category (B.4) CLIN 4.0: PT Facility, Total CLIN Estimated Cost, is increased by \$36,236 from \$4,395,782,436 to \$4,395,818,672.
- The Revised Total Estimated Contract Cost (TECC) is increased by \$812,185 from \$14,081,741,539 to \$14,082,553,724.
- The Cost Category E5: REA Fee Post Mod 384, Earned Fee, is increased by \$54,152 from \$551,428 to \$605,580.

- The Total Fee Earned is increased by \$54,152 from \$340,980,082 to \$341,034,234.
- The Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) is increased by \$866,337 from \$14,666,462,035 to \$14,667,328,372.

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:

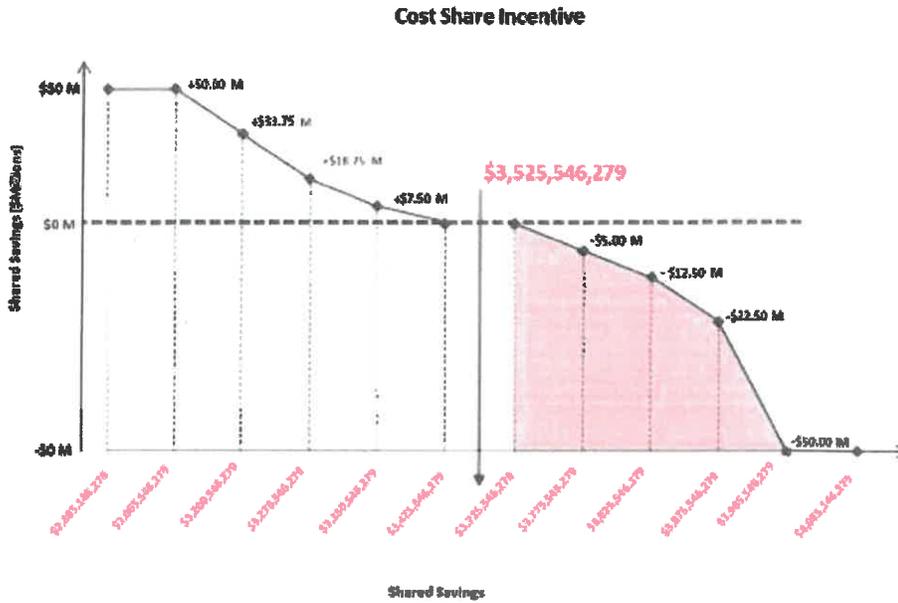
Table B.1 – Total Estimated Contract Price

		Cost		
Total Estimated Contract Cost (TECC) through Mod No. 469				\$14,081,741,539
Total Estimated Contract Cost (475)		CLIN Estimated Cost	Increased/ Decreased by Mod 475	Total CLIN Estimated Cost
B.1	CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration	\$6,387,707,297	\$620,532	\$6,388,327,829
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	\$480,783,364 (Previous NTE Values)	\$126,444	\$480,909,808
B.3	CLIN 3.0 HLW Facility	\$2,741,109,159	\$28,973	\$2,741,138,132
B.4	CLIN 4.0: PT Facility	\$4,395,782,436	\$36,236	\$4,395,818,672
Revised Total Estimated Contract Cost (TECC) through Mod No. 475				\$14,082,553,724
Fee				
		Available		Earned
Earned before Mod No. 384				Total
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				
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 (475)			\$605,580
CLIN 2.1: Performance-Based Incentive for DFLAW Design Completion (Attachment B-2-H)		\$8,000,000		\$1,000,000

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 \$3,525,546,279 and a -\$100M fee neutral band below \$3,525,546,279.		
Decreases to earned fee will start after the total cost for CLIN 1.0 exceeds \$3,725,546,279 as follows:	Total cost for CLIN 1.0 between \$3,725,546,279 to \$3,775,546,279, 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 \$3,775,546,279 to \$3,825,546,279, 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 \$3,825,546,279 to \$3,875,546,279, 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 \$3,875,546,279 to \$3,985,546,279 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 (\$3,985,546,279)	-\$50,000,000.00	
Increases to earned fee will start when costs are below \$3,425,546,279		Maximum Incremental Fee Increase	Maximum Cumulative Fee Increase
	Total cost for CLIN 1.0 equal to \$3,425,546,279 to \$3,350,546,279, 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 \$3,350,546,279 to \$3,275,546,279, 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 \$3,275,546,279 to \$3,200,546,279, 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 \$3,200,546,279 to \$3,065,546,279, 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	

8. In Section B, Figure B-2-G-1. Graph Cost Share Incentive Fee CLIN 1.0 is revised to reflect the \$620,532 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	\$3,525,546,279

9. 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 REA 2018-009, Rev. 0 Implementation of 29 CFR 1926 – Respirable Crystalline Silica Final Rule, to the table as follows:

REA Number and REA Title	Contract Mod Recognizing Definitization	Dollar Value of Fee Negotiated
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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
Total		\$605,580

10. Contractor’s Statement of Release: In consideration of the Modification 475, agreed to herein as complete equitable adjustment for the Contractor’s Request for Equitable Adjustments (REA) for 2018-009, 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)