

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. P00101	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY EM-Idaho Department of Energy Office of Environmental Management Idaho Cleanup Project 1955 Fremont Avenue Idaho Falls ID 83415	CODE 893042	7. ADMINISTERED BY (If other than Item 6) U.S. Department of Energy Idaho Operations Office 1955 Fremont Avenue Idaho Falls ID 83415	CODE 00701
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) IDAHO ENVIRONMENTAL COALITION LLC Attn: Jason Mack 600 William Northern Blvd Tullahoma TN 373884729		(x)	9A. AMENDMENT OF SOLICITATION NO.
CODE		FACILITY CODE	9B. DATED (SEE ITEM 11)
		x	10A. MODIFICATION OF CONTRACT/ORDER NO. 89303321DEM000061
			10B. DATED (SEE ITEM 13) 05/27/2021

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: FAR 43.103(a) Bilateral
	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: Not Available

UEI: LQ5ZLNE3EM27

Procurement Instrument Identifier (PIID): 89243223FEMTO04

The purpose of this modification is to update the Risk Register for Task Order (TO) 4a, ARP/SDA Demolition and OCVZ Well Abandonment (see below for details).

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) J.H. MacRae, Jr. (Jack), Business Services & PCO		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Grace H. Ruiz	
15B. CONTRACTOR/OFFEROR JOHN MACRAE (Affiliate) <small>Digitally signed by JOHN MACRAE (Affiliate) Date: 2024.05.16 14:23:37 -0600</small> (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA GRACE RUIZ <small>Digitally signed by GRACE RUIZ Date: 2024.05.16 14:35:02 -0600</small> (Signature of Contracting Officer)	16C. DATE SIGNED 05/16/2024

Previous edition unusable

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
89303321DEM000061/P00101

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NAME OF OFFEROR OR CONTRACTOR
IDAHO ENVIRONMENTAL COALITION LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
00004	<p>Payment: OR for Idaho U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Period of Performance: 10/01/2021 to 09/30/2031</p> <p>Change Item 00004 to read as follows (amount shown is the total amount):</p> <p>Task Order-4a - ARP/SDA Demolition and OCVZ Well Abandonment Line item value is: \$95,658,389.00 Incrementally Funded Amount: \$65,510,680.57</p> <p>PIID: 89243223FEMTO04 TASK ORDER 4a - ARP/SDA DEMOLITION AND OCVZ WELL ABANDONMENT</p> <p>In accordance with Section B.9, Basis for Changes, Task Orders (TO) issued shall clearly identify the risk ownership for both the Government and the Contractor such that contract changes are reduced to the maximum extent practicable. This modification updates the Risk Register for TO-4a, ARP/SDA Demolition and OCVZ Well Abandonment (see attachment TO-4a Risk Register Updates FY24 Q1 - Redlined).</p> <p>All other terms and conditions remain unchanged.</p>				95,658,389.00



TO4-A Risk Register

Idaho Cleanup Project Programmatic Risk Register

Updated : 3.10.24

Risk ID	WBS	Responsible Organization	Risk Owner	IEC Risk Back-up	Risk Title	Risk Description	Trigger Event	Status	Handling Strategy	Risk Type	Risk Event Likelihood	Risk Impact	Risk Rating	Cost Impacts			Schedule Impacts (in days)			Basis of Impacts	Mitigation Actions	Date Identified	Last update
														Best Case	Most Likely	Worst Case	Best Case2	Most Likely3	Worst Case4				
ASD003	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Personnel Attrition Near the End of a 3-Year Window	Towards the end of the next 3 year window when people sense the project is completing they tend to leave & move on to a new project which can cause issues completing the latter part of the 3 year window. Ability to acquire new trained individuals becomes harder, requiring subcontractor support to complete the work. The potential exists to incur additional costs & schedule delays.	Attrition realized.	Open	Accept	Threat	Rare	Serious	2-Low	\$ 75,000	\$ 450,000	\$ 675,000	10	60	60	Best Case: 10 days X10 hrs/dy X 10 FTEs X \$75/hr = \$75,000 Most Likely Case: 60 days X10 hrs/dy X 10 FTEs X \$75/hr = \$450,000 Worst Case: 60 days X10 hrs/dy X 15 FTEs X \$75/hr = \$675,000	Monitor staffing to hire if attrition is experienced.	3/20/2022	4/13/2022
ASD004	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Commodity Risk Impacts Production	Numerous times in the past production was impacted due to unavailability of commodities. If experienced in the future this will limit how many containers can be processed thru ARP VII before the building must undergo RCRA Closure.	Delayed delivery experience in commodities.	Open-Closed	Accept	Threat	Unlikely	Serious	2-Low	\$ 150,000	\$ 300,000	\$ 960,000	5	10	32	Best Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Most Likely Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000 Worst Case: 32 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$960,000	Monitor procurements as early as possible to mitigate potential impacts.	3/20/2022	4/13/2022
ASD005	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Required Production Rates to Support Start of SDA Cap Construction (T04-D)	The deadline of this Task Order is dependent on the DOE imposed milestone of the SDA Cap which is set to complete in 2028. In order to meet that deadline this project must be completed 3 years prior, requiring an aggressive schedule. Any potential delays could have significant impacts on the schedule.	Immediate schedule slippage during early component removal &/or decon	Open	Accept	Threat	Likely	Major	4-High	\$ 480,000	\$ 2,400,000	\$ 4,800,000	10	50	100	Best Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$120/hr = \$480,000 Most Likely Case: 50 days X10 hrs/dy X 2 crews (20 FTEs) X \$120/hr = \$2,400,000 Worst Case: 100 days X10 hrs/dy X 2 crews (20 FTEs) X \$120/hr = \$4,800,000	Required productivity rates to maintain the SDA Cap construction may require extended shifts, extra shifts, overtime, &/or working during winter shutdown. Apply rigor to the readiness evolutions to have maximum available work for crew flexibility.	3/20/2022	4/13/2022
ASD006	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Loss of Contamination Control	Loss of contamination control (outside D&D boundaries) during open air facility demolition may result in personnel contamination and/or extended shutdown for recovery.	An unanticipated event driven by discovery of radiation outside of the boundary, possibly portable air monitor.	Open	Accept	Threat	Rare	Minor	1-Low	\$ 60,000	\$ 277,500	\$ 4,440,000	2	5	80	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 5 days X10 hrs/dy X 74 FTEs X \$75/hr = \$277,500 Worst Case: 80 days X10 hrs/dy X 74 FTEs X \$75/hr = \$4,440,000	Implement the following possible mitigations: • Utilize new & improved fixatives if technically viable. • Re-emphasize the RAD safety protocols. • Evaluate expanded D&D boundaries. • Ensure adequate water suppression is in place.	3/20/2022	4/13/2022
ASD007	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Industrial Incidents Resulting in Shutdowns	An industrial incident resulting in serious personnel injury may cause an extended shutdown to resolve conduct of operations issues.	An unanticipated accident resulting in injury or near miss	Open	Accept	Threat	Rare	Minor	1-Low	\$ 60,000	\$ 150,000	\$ 2,880,000	2	5	96	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Worst Case: 96 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$2,880,000	Implement the following possible mitigations: • Perform refreshers for stop work/pauses. • Self-assess training/qualification adequacy. • Enhanced pre-job briefings for critical activities.	3/20/2022	4/13/2022
ASD008	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Surveys Uncover Unanticipated Contamination	RAD surveys during field work uncover contamination issues requiring additional remediation prior to proceeding with D&D.	An unanticipated contamination discovery from routine rad surveys.	Open-Realized	Accept	Threat	Unlikely	Minor	2-Low	\$ 30,000	\$ 60,000	\$ 600,000	1	2	20	Best Case: 1 day X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$30,000 Most Likely Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Worst Case: 20 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$600,000	Implement the following possible mitigations: • Re-emphasize the RAD safety protocols. • Validate adequacy of soil coverage.	3/20/2022	4/13/2022
ASD010	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Post Waste Operations Uncovers Hazardous Waste in Debris	Post waste disposal of the facility uncovers hazardous waste in the debris, resulting in recovery actions.	An unanticipated contamination discovery from routine rad surveys.	Open	Reduce/Mitigate	Threat	Rare	Minor	1-Low	\$ 30,000	\$ 60,000	\$ 480,000	1	2	16	Best Case: 1 day X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$30,000 Most Likely Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Worst Case: 16 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$480,000	Ensure due diligence during hazard identification & mitigation process.	6/8/2022	6/8/2022
ASD011	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	RCRA Closure Plan	RCRA Closure plan for the affected ARP VII is delayed or disappointed.	Late receipt or notification from DOE or regulators of approval.	Open-Closed	Reduce/Mitigate	Threat	Unlikely	Minor	2-Low	\$ 60,000	\$ 300,000	\$ 960,000	2	10	32	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000 Worst Case: 32 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$960,000	Maintain a close working relationship with DOE & Regulatory partners allowing early notification & input.	6/8/2022	6/8/2022
ASD013	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	ARP VIII Demolition Complexity	Increased complexity of the ARP VIII demolition (size & structure) increases cost & schedule	Identification of structural/removal issue(s) during demo plan development or engineering evaluation	Open	Reduce/Mitigate	Threat	Possible	Minor	2-Low	\$ 60,000	\$ 180,000	\$ 960,000	2	6	32	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 6 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$180,000 Worst Case: 32 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$960,000	Implement the following possible mitigations: • Work with IEC partners to determine possible cost effective options. • Incorporate lessons learned from previous D&D work, if applicable.	6/8/2022	6/8/2022
ASD015	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Delay of waste removal in WMF-698	Delay of waste removal from WMF-698 could impact the start of demolition activities	Schedule slippage during operations in WMF-698	Open-Closed	Reduce/Mitigate	Threat	Possible	Minor	2-Low	\$ 150,000	\$ 300,000	\$ 1,440,000	5	10	48	Best Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Most Likely Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000 Worst Case: 48 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$1,440,000	Coordinate with AMWTP & other waste recipients to ensure waste can be delivered.	6/8/2022	6/8/2022
ASD016	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	The ARP IX Pit Location Complexities and Availability of Space	The ARP IX Pit is the disposition location for contaminated equipment. Complexities with moving the equipment into the pit could delay closure. There is also limitations on the availability of space.	Delay in other ARP demos, rad control during transfer, or equipment reliability issues.	Open	Reduce/Mitigate	Threat	Unlikely	Minor	2-Low	\$ 60,000	\$ 150,000	\$ 360,000	2	5	12	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Worst Case: 12 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$360,000	Monitor ARP demo schedules & use identified corrective actions to recover schedule delinquencies.	6/8/2022	6/8/2022
ASD017	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Loss of Specialty Resources	Loss of qualified specialty resources could result in schedule delays.	Notification of intent to leave or retirement.	Open	Accept	Threat	Likely	Minor	2-Low	\$ 150,000	\$ 300,000	\$ 1,800,000	5	10	60	Best Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Most Likely Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000 Worst Case: 60 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$1,800,000	Implement the following possible mitigations: • Monitor personnel performance, attendance, & job satisfaction to identify potential issues. • Cross-train critical resources, if feasible	6/8/2022	6/8/2022
ASD018	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Reliability of Equipment	Reliability of aged equipment could delay demolition start.	Repetitive maintenance, inability to place in service, or major failure.	Open	Accept	Threat	Possible	Minor	2-Low	\$ 60,000	\$ 150,000	\$ 1,050,000	2	5	10	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Worst Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr + \$750,000 Equipment = \$1,050,000	Accelerate equipment assessment early in the deactivation phase to allow enough time for repairs or purchase.	6/8/2022	6/8/2022



TO4-A Risk Register

Idaho Cleanup Project Programmatic Risk Register

Updated : 3.10.24

Risk ID	WBS	Responsible Organization	Risk Owner	IEC Risk Back-up	Risk Title	Risk Description	Trigger Event	Status	Handling Strategy	Risk Type	Risk Event Likelihood	Risk Impact	Risk Rating	Cost Impacts			Schedule Impacts (in days)			Basis of Impacts	Mitigation Actions	Date Identified	Last update
														Best Case	Most Likely	Worst Case	Best Case2	Most Likely3	Worst Case4				
ASD019	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Mild Winter Weather Allows for Schedule Acceleration	A mild winter could increase the annual demolition work window, allowing for schedule acceleration.	Favorable weather forecast at the beginning, during, or end of the winter shutdown window	Open	Accept	Opportunity	Rare	Minor	1-Low	\$ (300,000)	\$ (150,000)	\$ -	-10	-5	0	Best Case: 10 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$300,000 Most Likely Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Worst Case: Average winter - No Impact	NA	6/8/2022	6/8/2022
ASD020	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Lower Contamination Levels Than Expected	Lower contamination levels than anticipated during decon operations could result in schedule acceleration	Positive survey results prior to commencement of decon operations	Open	Reduce/Mitigate	Opportunity	Rare	Minor	1-Low	\$ (1,050,000)	\$ (420,000)	\$ -	-35	-14	0	Best Case: 7 bldgs. X 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$1,050,000 Most Likely Case: 7 bldgs. X 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$420,000 Worst Case: No impact	NA	6/8/2022	6/8/2022
ASD022	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Well Abandonment Under the ARP II Foundation	Several wells exist under the ARP II cast in place concrete foundation that must be abandoned. These wells cannot be accessed prior to demolition of the facility. Work includes removal of portions of the ARP II foundation after demolition. If contamination is encountered or the well heads are not accessible due to the facility base beam attached to the concrete, an alternate plan must be developed. This could significantly impact costs and the scheduled completion of this work scope.	Encountering unexpected conditions.	Open Closed	Accept	Threat	Possible	Minor	2-Low	\$ 60,000	\$ 150,000	\$ 900,000	2	5	30	Best Case: 2 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$60,000 Most Likely Case: 5 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$150,000 Worst Case: 30 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$900,000	Address leaving wells ungrouted with regulators & be prepared for excavation with additional containments.	6/8/2022	6/8/2022
ASD023	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Contaminated Manlifts/Loader Disposition	The last few pieces of equipment utilized in facility demolition will not have a burial location. Disposal at existing location.	Pit 9 burial site full	Open	Accept	Threat	Possible	Minor	2-Low	\$ 120,000	\$ 240,000	\$ 1,200,000	4	8	40	Best Case: (1 piece of equipment) 4 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$120,000 Most Likely Case: (1 piece of equipment) 8 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$240,000 Worst Case: (5 pieces of equipment) 40 days X10 hrs/dy X 2 crews (20 FTEs) X \$75/hr = \$1,200,000	Be prepared to bury equipment in place or expand Pit 9 pit.	6/8/2022	6/8/2022
ASD024	E.4.02.40	IEC	Chapple, Jason	Thompson, Travis	Union Contract Location Bidding	The Union contract now allows vacancy bids. There is a risk to the project that specific skill sets such as RCT/Mechanic/Electrician/Instrument Tech can now bid a different location opening a position that must be backfilled. This may be a large impact to the project.	Vacancy bidding	Open	Accept	Threat	Rare	Serious	2-Low	\$ 450,000	\$ 900,000	\$ 1,800,000	60	60	60	Best Case: (1 critical resource) 60 days X10 hrs/dy X 1 crew (10 FTEs) X \$75/hr = \$450,000 Most Likely Case: (2 critical resources) 60 days X10 hrs/dy X 1 crew (10 FTEs) X \$75/hr = \$900,000 Worst Case: (2 critical resources) 60 days X10 hrs/dy X 2 crews (10 FTEs) X \$75/hr = \$1,800,000	Solicit assistance from union to minimize impact.	6/8/2022	6/8/2022