Enclosure to 07-WTP-077

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE PAGE OF PAGES		E OF PAGES	
					1 3	
2. AMENDMENT/MODIFICATION NO. M083	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)				
6. ISSUED BY CODE		7. ADMINISTER	ED BY (If other than Item of	6) CODE		
U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352						
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)			9A. AMENDMENT OF SOLICITATION NO.			
Bechtel National, Inc.			9B. DATED (SEE ITEM 11)			
2435 Stevens Center Place						
Richland, WA 99352			10A. MODIFICATION OF CONTRACT/ ORDER NO.			
			DE-AC27-01RV14136			
			10B. DATED (SEE ITEM 13)			
CODE	FACILITY CODE		Decem	ber 11, 200	0	
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 submitted; or (c) By separate letter or telegram which inclu- RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIP' of this amendment you desire to change an offer already si solicitation and amendment and is received prior to the ope	T OF OFFERS PRIOR TO THE DAT ubmitted, such change may be ma	and amendment E AND HOUR SPE	numbers. FAILURE OF Y ECIFIED MAY RESULT IN I	OUR ACKNOWL REJECTION OF	EDGEMENT TO BE YOUR OFFER. If by virtue	
12. ACCOUNTING AND APPROPRIATION DATA (If required) Various (see page 2)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS SET FORTH IN ITEM 14.						
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. Clause I.82 FAR 52.243-2 CHANGES – COST-REIMBURSEMENT (AUG 1987) – ALTERNATE III (APR 1984) Clause I.83 FAR 52.243-6 CHANGE ORDER ACCOUNTING (APR 1984)						
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).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:						
D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor is not, is required to sign this document and return _ 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 hereto	fore changed, remains un	changed and ir	n full force and effect.	
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Michael K. Barrett Contracting Officer			
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED		STATES OF AMERICA		16C. DATE SIGNED	
		ORIGINAL SIG			March 10, 2007	
(Signature of person authorized to sign)		(Sign:	ature of Contracting Office	er)		

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Purpose of Modification:

The purpose of this contract modification is to issue a Change Order to direct Pretreatment and HLW Vitrification Facility Capacity Enhancement Modifications. Related correspondence is as follows:

- 1. BNI Letter from C. Albert, BNI, to J. Eschenberg, ORP, "Implementation of Pretreatment Capacity Modifications" CCN 137122, dated December 22, 2006.
- 2. BNI Letter from W. Elkins, BNI, to J. Eschenberg, ORP, "Implementation of Pretreatment Capacity Modifications" CCN 1146875, dated February 14, 2006.
- 3. BNI Letter from W. S. Elkins to J. R. Eschenberg, ORP, "Additional WTP Capacity Improvements," CCN: 137126, dated February 28, 2007.
- ORP Letter from M. K. Barrett to C. E. Rogers, BNI, "Contract Modification No. M080 Response to Bechtel National, Inc. (BNI) Recommendation for Implementation of Pretreatment (PT) Capacity Modifications," 07-WTP-057, dated March 2, 2007.

Description of Modification:

The following change is hereby incorporated into the Contract:

Section C, Statement of Work, C.7 Facility Specification, paragraph (b)(8), now reads:

- "(8) The Pretreatment Facility shall have the established capability to conduct sludge washing, caustic leaching, and oxidative leaching on HLW sludge and entrained solids. The Pretreatment Facility shall include the following capabilities to assure sludge washing, caustic leaching, and oxidative leaching flowsheet and treatment capacity:
 - (i) Provide two ultrafiltration trains to support solid-liquid separation, sludge washing, caustic leaching, and oxidative leaching. The ultrafilter surface area for each train shall be approximately 1,500 square feet.
 - (ii) Provide the capability to mix chemical reagents used in the leaching processes, in line with ultrafiltration vessel recirculation pumps, to shorten mixing times.
 - (iii) Perform caustic leaching at 100°C to enhance leaching kinetics.
 - (iv) Include the capability to remove heels from the ultrafiltration vessels to move treated solids forward in the process and minimize recycle.
 - (v) Operate filtration at 45°C or higher to increase filter flux rates and potentially reduce caustic required in leaching.
 - (vi) Add caustic to ultrafilter permeate vessels to prevent post filtration precipitation and reduce the volume of permeate the must pass through the ultrafilters.
 - (vii) Increase the capacity of the cesium ion exchange system to a nominal 30 gallon/minute flowrate. This shall accommodate the increased waste volume

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resulting from caustic increases required to effectively conduct sludge washing, caustic leaching, and oxidative leaching on HLW sludge and entrained solids."

Insert new sub-bullet (viii):

"(viii) Provide the capability to perform caustic leaching in the ultrafiltration feed preparation vessel in addition to the ultrafiltration feed vessel."

Under Section C, Statement of Work, C.7 Facility Specification, Section (c), Waste Treatment and Immobilization Plant Expandability Requirements, add the following three new subparagraphs:

- "(6) Provide the capability to install future alternative solids filtering technologies in Pretreatment facility hot cell areas used for the ultrafiltration system (Pretreatment Areas 34 and 35). This capability shall include the addition of spare wall penetrations.
- (7) Provide four piping stub-outs from the Pretreatment facility South Tunnel to route HLW slurry feed to and from a potential future HLW slurry feed concentration facility.
- (8) Provide HLW facility systems to support the future operation of the HLW facility at a design capacity of 7.5 MTG/d including melter power supplies, pour cave cooling, and support for melter bubblers. The expanded HLW vitrification capacity will be achieved by a second generation HLW melter."

Limitations:

The Contractor shall submit a Certified cost proposal (a Certificate of Current Cost or Pricing Data will be required at time of negotiation completion) for this Change Order by May 7, 2007. Pending definitization of this Change Order, the Contractor is authorized to incur costs not-to-exceed \$10,000,000 in performing the combination of this Statement of Work change and the Modification M080 Statement of Work change. The Contractor shall comply with Clause I.83 FAR 52.243-6 Change Order Accounting (APR 1984).