AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRA				CT 1. CONTRACT ID CODE PA			PAGE 1	OF	PAGES 3
2. AMENDMENT/MODIF	FICATION NO. M080	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION	EQUISITION/PURCHASE REQ. NO. 5. PRO			ECT NO. (If applica	
6. ISSUED BY	CODE		7. ADMINISTER	STERED BY (If other than Item 6) CODE					
U.S. Department Office of River P. O. Box 450, Richland, WA									
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)				9A. AMENDMENT OF SOLICITATION NO.					
Bechtel National, Inc. 2435 Stevens Center Place Richland, WA 99352				10	9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ ORDER NO. DE-AC27-01RV14136 10B. DATED (SEE ITEM 13)				ER NO.
CODE			December 11, 2000						
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 returningcopies 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 FYOUR 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) 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. CHECKONE 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 1.82 FAR 52.243-2 CHANGES — COST-REIMBURSEMENT (AUG 1987) — ALTERNATE III (APR 1984) Clause 1.83 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 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 heretofore changed, remains unchanged and in full force and effect. 15A. NAME AND TITLE OF SIGNER (Type or print) Michael K. Barrett Contracting Officer									
15B. CONTRACTOR/0	OFFEROR	15C. DATE SIGNED	16B. UNITED S	STATES OF A	AMERICA		16C. DATE SIGNED		
			ORIGINA S	IGNED BY	′		ı	March	1, 2007
(Signatur	re of person authorized to sign)		(Sign:	ature of Contra	racting Office	r)			

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Purpose of Modification:

The purpose of this contract modification is to issue a Change Order to direct Pretreatment 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.

Description of Modification:

The following change is hereby incorporated into the Contract:

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

"(8) The Pretreatment Facility will have the established capability to conduct oxidative leaching on HLW sludge and entrained solids to selectively remove Cr and sulfate for the HLW Vitrification feed in accordance with the procedures to be established by Specification 12, Number of High-level Waste Canisters and estimated volume of ILAW Glass Per Batch of Waste Envelope D.";

And insert as paragraph (b)(8) the following:

- "(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.

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(vii) Increase the capacity of the cesium ion exchange system to a nominal 30 gallon/minute flowrate. This shall accommodate the increased waste volume resulting from caustic increases required to effectively conduct sludge washing, caustic leaching, and oxidative leaching on HLW sludge and entrained solids."

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 this Statement of Work change. The Contractor shall comply with Clause I.83 FAR 52.243-6 Change Order Accounting (APR 1984).