

2. AMENDMENT/MODIFICATION NO. 0248	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 Richland WA 99352	CODE 00603	7. ADMINISTERED BY (If other than Item 6) Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 MS: H6-60 Richland WA 99352	CODE 00603
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) WASHINGTON RIVER PROTECTION SOLUTIONS LLC Attn: BRIAN THOMAS C/O URS ENERGY & CONSTRUCTION, INC. PO BOX 73 / 720 PARK BLVD BOISE ID 837290073	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	(x)	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC27-08RV14800
		10B. DATED (SEE ITEM 13) 05/29/2008
CODE 806500521 FACILITY CODE		

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 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 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 telegram or letter, provided each telegram or letter 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)
See Schedule

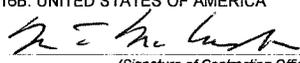
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE X	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. FAR 52.243-2, Changes-Cost Re-imbursement (AUG 1987)
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ 0 _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
The purpose of this modification is to issue a Change Order in accordance with Clause I-103, Federal Acquisition Regulation (FAR) 52.243-2, Changes - Cost Reimbursement (AUG 1987), for Washington River Protection Solutions LLC (WRPS) to begin implementation of the Office of River Protection (ORP) Interim Pretreatment System (IPS) Project. WRPS is authorized to proceed with the activities necessary to deliver the Critical Decision-1 package to ORP, as well as those activities necessary to further the IPS project in accordance with the Statement of Work included in Attachment 1 of this modification. WRPS is authorized to begin work with a Not to Exceed (NTE) value of \$3,500,000, and should have the work completed no later than December 30, 2014. WRPS submitted a cost and technical proposal for the IPS Project in letter number WRPS-1304489 R3 (dated January 29th, 2014) and the proposal is currently being evaluated. This Change Order impacts Contract Line Continued ...

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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Marc T. McCusker
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)
	16C. DATE SIGNED 2/12/14

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-AC27-08RV14800/0248

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NAME OF OFFEROR OR CONTRACTOR
WASHINGTON RIVER PROTECTION SOLUTIONS LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Item Number (CLIN) 1.2.1, Base Operations; CLIN 3.1 Treatment, Planning, Waste Feed Delivery and WTP Transition; and CLIN 5.1 Tank Selection, Retrieval, Pretreatment and Feed Delivery Design.</p> <p>In accordance with Clause I-103A, FAR 52.243-6, Change Order Accounting (APRIL, 1984), WRPS shall create a separate charge account to segregate costs associated with this Change Order until the change is definitized. The definitization schedule for this Change Order is as follows:</p> <p>01/29/14 - Proposal Received 04/30/14 - Technical Evaluation Complete 06/01/14 - Begin Negotiations 07/01/14 - Definitize Change Order via Fully Executed Contract Modification</p> <p>The Rough Order of Magnitude used to determine the NTE value of \$3,500,000 for implementation of the work being authorized in this Change Order was provided by the technical point of contact, Stephen Pfaff, Federal Project Director, Supplemental Treatment/Secondary Waste. This change order will be definitized by July 1st, 2014. All other terms and conditions remain unchanged.</p> <p>Period of Performance: 06/20/2008 to 09/30/2016</p>				

ATTACHMENT 1:

Statement of Work

Interim Pretreatment System Design

DE-AC27-08RV14800, MODIFICATION 248

(Total: Four (4) pages including this cover page)

Statement of Work – Interim Pretreatment System Design

A. Scope Statement

- Prepare and submit by within 65 days of receipt of this letter, a cost and technical proposal to execute contract sub-contract line Item Number (sub-CLIN) 3.1 activities, including:
- Update the Justification of Mission Need to reflect current information related to the Direct Feed Low Activity Waste (DFLAW) strategy and the Interim Pretreatment System (IPS) Design, including necessary secondary liquid waste transfer systems.
- Use the Critical Decision 1 (CD-1) package, consisting of the Conceptual Design Report and supporting documents required by DOE O 413.3B that was delivered by Washington River Protection Solutions, LLC (WRPS) to the Office of River Protection (ORP) in September 2011 as the starting point for an updated CD-1 package, to be submitted to ORP by December 30, 2014.
- Prepare the CD-2 package, including preliminary design of at least 80% complete, and submit to ORP by June 30, 2016.
- Prepare the CD-3A package, authorizing long-lead procurement activities and construction.
- Provide for information a rough order of magnitude estimate and schedule for post CD-2 activities for full project actions to support the June 30, 2020, start of hot commissioning activities at the Waste Treatment and Immobilization Plant (WTP) Low Activity Waste (LAW) facility.
- Apply ASME NQA-1-2008 (Edition) and NQA-1-2009 (Addenda) to this project. Develop the key elements of the WRPS Quality Assurance (QA) Program to comply with DOE Order 414.1D and 10 CFR Part 830, Subpart A.
 - The IPS cost and technical proposal must estimate the project specific QA requirements and not include any efforts to bring Tank Operations Contract (TOC) up to the requirements mentioned above. Furthermore, work to upgrade all TOC work must be estimated under a separate proposal.
 - The Washington River Protection Solutions LLC (WRPS) QA Program Description must be approved by the U.S. Department of Energy (DOE) Office of River Protection (ORP) prior to commencing any design activities.

B. Planning Assumptions

This following list provides key planning basis, assumptions and guidance required to treat tank waste for DFLAW. The primary assumptions include:

- Assume a *permanent capability to accommodate DFLAW*.
- The WTP LAW facility will be fully operational to process radioactive waste feed no later than June 30, 2020. Fully operational is defined as the WTP contractor shall achieve hot start of the LAW, Balance of Facilities (BOF), and Analytical Laboratory (LAB) by June 30, 2020. Hot start means the initiation of operation of the WTP LAW facility, including as needed, the operation of the LAB and the BOF to treat Hanford tank waste and produce a waste glass product.
- Upon submittal of the updated CD-0/CD-1 package, design activities will continue in pursuit of 80% design complete in support of the planned CD-2 package submittal date.
- CH2M HILL Plateau Remediation Contractor is responsible for the preparation of the Integrated Disposal Facility Performance Assessment (IDF PA). WRPS is to support development of the IDF PA and the Waste Incidental to Reprocessing (WIR) determination.
- WTP CD-4 – Approve Start of Initial Operations is defined as follows:
 - Provide sufficient non-radioactive feed to enable initial operation of one LAW melted and achieve threshold Key Performance Parameter (KPP) of 15 metric tons (MT) of glass per day (G/d) for a minimum of 20 continuous days during cold commissioning.
 - Successfully complete an Operational Readiness Review (ORR) and obtain approval to commence hot commissioning activities in the LAW facility consistent with DOE Order 425.1D.
- Technical requirements for DFLAW:
 - Transfers line(s) for LAW feed from the tank farm and liquid effluent return to the tank farm shall be designed and constructed by the Tank Operations Contractor (TOC) to the Tank Farm/WTP interface point as defined in Interface Control Document 19 (ICD-19). The WTP Project contractor shall perform required modifications at the interface point.
 - The TOC shall provide all infrastructure and functional capabilities required to operate and maintain the IPS until the WTP Pretreatment becomes operational. This includes services such as water, electrical, and sewer, which may or may not be services provided by the Mission Support Alliance Contract.

- The TOC shall work with the WTP Project contractor to develop interface control documents, including associated waste acceptance criteria for feed to the LAW facility and liquid effluents returned to the Tank Farm contractor.

- Extended LAW hot commissioning operations (two years past initiation of hot commissioning) shall be ramped up to a treatment capacity of 21 MT G/d using two melters, within two years of initiation of LAW, BOF, LAB hot commissioning. The 21 MT G/d assumes a 70% total operating efficiency so feed capacity is required to support a 30 MT G/d instantaneous rate.