

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 5

2. AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

089

See Block 16C

6. ISSUED BY

CODE

00603

7. ADMINISTERED BY (If other than Item 6)

CODE

00603

Office of River Protection
U.S. Department of Energy
Office of River Protection
P.O. Box 450
Richland WA 99352

Office of River Protection
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)

WASHINGTON RIVER PROTECTION SOLUTIONS LLC
Attn: DUANE SCHMOKER
PO BOX 73
720 PARK BLVD
BOISE ID 837290001

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
DE-AC27-08RV14800

10B. DATED (SEE ITEM 13)

CODE 806500521

FACILITY CODE

05/29/2008

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	
	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 date, 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 52.243-2, Changes-Cost Reimbursement (AUG 1987)
	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.)

The purpose of this modification is to make certain changes to the contract. (See continuation page)

Attached to this Modification are replacement pages for Section C, Pages C-20, 21, & 65 Section J, Pages J.15-2 & 4.

Period of Performance: 06/20/2008 to 09/30/2013

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) <i>S. Manning/Contract Mgr</i>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <i>SUSAN E. BECHTOL</i>
15B. CONTRACTOR/OFFEROR <i>/s/</i>	16B. I <i>/s/</i>
15C. DATE SIGNED <i>1/25/11</i>	16C. DATE SIGNED <i>01/20/2011</i>
ORIGINAL SIGNED BY	ORIGINAL SIGNED BY

NSN 7540
Previous edition unusable

DARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

Purpose of Modification:

The following changes are hereby incorporated into the contract:

- 1. Update Section C, Statement of Work, to update the requirements of Contract Line Item Number (CLIN) C.2.3.2 Sub-CLIN 3.2: WTP Operational Readiness. The change is as follows:**

From:

C.2.3.2 Sub-CLIN 3.2: WTP Operational Readiness

Background:

The WTP Pretreatment facility, HLW facility, LAW facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) will be used to treat and immobilize the tank waste. The WTP is currently under construction and scheduled to perform start-up testing, cold commissioning, and hot commissioning under a separate contract during the Contract performance period.

General Scope:

The Contractor shall conduct a continuing in-process evaluation of WTP operational readiness to promote Contractor understanding of and planning for future WTP operations, verify that there are no deficiencies that would preclude successful Contractor operations, and support safe and efficient turnover of completed WTP facility(ies). DOE will require that the WTP Contractor certify that performance requirements are met, and DOE will independently accept the WTP facility(ies).

Detailed Scope and Requirements:

The Contractor shall develop a *WTP Operational Readiness Plan* (Deliverable C.2.3.2-1) detailing a time-phased approach for evaluation of WTP operational readiness to:

- Promote Contractor understanding of and planning for future WTP operations;
- Perform a continuing, in-process evaluation on WTP operability at a component, system, and facility basis;
- Verify that the WTP is ready to transition to Contractor operations; and
- Support safe and efficient Contractor acceptance of WTP facility(ies).

The Contractor shall submit the *WTP Operational Readiness Plan* to DOE-ORP for approval.

The Contractor shall report its evaluation of WTP operability in a *Semi-annual WTP Operational Readiness Evaluation* (Deliverable C.2.3.2-2). The evaluation will address each of the five (5) topical areas shown below for each of the WTP facilities (Pretreatment, HLW, LAW, LAB, and BOF).

Topical Areas:

- Process flowsheet viability;
- Reliability, availability, maintainability, and inspectability;
- Training and testing activities; and
- Cold and hot commissioning.

In the *Semi-annual WTP Operational Readiness Evaluation*, the Contractor shall document its technical basis to verify that the WTP is ready for transition to Contractor operations and that there are no deficiencies that would preclude successful Contractor operations. The responsible corporate official with knowledge of the basis for the evaluation, identified in Section H Clause entitled, *Responsible Corporate Official*, shall sign each of the *Semi-annual WTP Operational Evaluations*.

To:

C.2.3.2 Sub-CLIN 3.2: WTP Operational Readiness Support

Background:

The WTP Pretreatment facility, HLW facility, LAW facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) will be used to treat and immobilize the tank waste. The WTP is currently under construction and scheduled to perform start-up testing, cold commissioning, and hot commissioning under a separate contract during the Contract performance period.

General Scope:

The Contractor shall conduct a continuing in-process review of WTP operational readiness to promote Contractor understanding of and planning for future WTP operations. The Contractor shall work with DOE-ORP and WTP to resolve any operational issues which surface and support safe and efficient turnover of completed WTP facility(ies). DOE will require that the WTP Contractor certify that performance requirements are met, and DOE will independently accept the WTP facility(ies).

Detailed Scope and Requirements:

The Contractor shall develop a *WTP Operational Readiness Support Plan* (Deliverable C.2.3.2-1) detailing a time-phased approach for review of WTP operational readiness to:

- Promote Contractor understanding of and planning for future WTP operations;
- Work with DOE-ORP and WTP to resolve any operational issues that arise; and
- Support safe and efficient Contractor acceptance of WTP facility(ies).

The Contractor shall submit the *WTP Operational Readiness Support Plan* to DOE-ORP for approval. The Contractor shall report its review of WTP operability in an *Annual WTP Operational Support Report* (Deliverable C.2.3.2-2). The evaluation will address each of the five (5) topical areas shown below for each of the WTP facilities (Pretreatment, HLW, LAW, LAB, and BOF).

Topical Areas:

- Process flowsheet viability;
- Reliability, availability, maintainability, and inspectability;
- Training and testing activities; and
- Cold and hot commissioning.

In the *Annual WTP Operational Readiness Support Report*, the Contractor shall document its review and recommendations regarding operational issues that are identified.

2. **Update Section C, Table C.5, Summary of Contract Deliverables, to update Deliverable Number C.2.3.2-1. The change is as follows:**

From:

C.2.3.2-1	WTP Operational Readiness Plan	Approve	30 days	180 days after sub-CLIN Notice to Proceed
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To:

C.2.3.2-1	WTP Operational Readiness Support Plan	Approve	30 days	180 days after sub-CLIN Notice to Proceed with updates as required
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3. Update Section C, Table C.5, Summary of Contract Deliverables, to update Deliverable Number C.2.3.2-2. The change is as follows:

From:

C.2.3.2-2	Semi-annual WTP Operational Readiness Evaluation	Approve	30 days	360 days after sub-CLIN Notice to Proceed with semi-annual updates
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To:

C.2.3.2-2	Annual WTP Operational Support Report	Approve	30 days	360 days after sub-CLIN Notice to Proceed with updates as required
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4. Update Section J, Attachment J.15, *American Recovery and Reinvestment Act (ARRA) Scope and End-State Milestones* to extend the completion dates for certain J.15 Milestones. The change is as follows:

From:

RA-3 Facilities Upgrades	Sub-CLIN 7.1	242-A Upgrades/Operation		
		1. Refurbish pump PB-1.	March-11	Pump refurbished.
RA-3 Facilities Upgrades	Sub-CLIN 7.1	242-A Upgrades/Life Extension (multiple subprojects)		

		1. Replace instruments.	Jan - 11	Instruments installed.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AZ Condensate Line Upgrade	Feb - 11	Upgrades complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Mixer Pump Design	March - 11	Mixer pump design complete.

To:

RA-3 Facilities Upgrades	Sub-CLIN 7.1	242-A Upgrades/Operation		
		2. Refurbish pump PB-1.	June - 11	Pump refurbished.
RA-3 Facilities Upgrades	Sub-CLIN 7.1	242-A Upgrades/Life Extension (multiple subprojects)		
		2. Replace instruments.	Feb - 11	Instruments installed.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AZ Condensate Line Upgrade	April - 11	Upgrades complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Mixer Pump Design	May - 11	Mixer pump design complete.

5. Attached to this modification are replacement pages for the following sections:

- Section C, Pages C-20, 21, & 65
- Section J, Pages J.15-2 & 4

6. All other Terms and Conditions remain unchanged.

Replacement Pages Mod 89

- **Section C, Pages C-20, 21, & 65**
- **Section J, Pages J.15-2 & 4**

The Contractor shall submit the *WTP Facility Transition Plan* to DOE-ORP for approval at the completion of the WTP contractor certification of WTP cold commissioning.

WTP LAW/BOF/LAB Facility Transition Plan

If the DOE-ORP directs early feed and operation of the WTP LAW/BOF/LAB facilities, the Contractor and the WTP contractor shall jointly develop a *WTP LAW/BOF/LAB Facility Transition Plan* (Deliverable C.2.3.1-4). The Contractor shall submit the *WTP LAW/BOF/LAB Facility Transition Plan* to DOE-ORP for approval at the completion of WTP contractor certification of WTP LAW/BOF/LAB cold commissioning.

C.2.3.2 Sub-CLIN 3.2: WTP Operational Readiness Support

Background:

The WTP Pretreatment facility, HLW facility, LAW facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) will be used to treat and immobilize the tank waste. The WTP is currently under construction and scheduled to perform start-up testing, cold commissioning, and hot commissioning under a separate contract during the Contract performance period.

General Scope:

The Contractor shall conduct a continuing in-process review of WTP operational readiness to promote Contractor understanding of and planning for future WTP operations. The Contractor shall work with DOE-ORP and WTP to resolve any operational issues which surface and support safe and efficient turnover of completed WTP facility(ies). DOE will require that the WTP Contractor certify that performance requirements are met, and DOE will independently accept the WTP facility(ies).

Detailed Scope and Requirements:

The Contractor shall develop a *WTP Operational Readiness Support Plan* (Deliverable C.2.3.2-1) detailing a time-phased approach for review of WTP operational readiness to:

- Promote Contractor understanding of and planning for future WTP operations;
- Work with DOE-ORP and WTP to resolve any operational issues that arise; and
- Support safe and efficient Contractor acceptance of WTP facility(ies).

The Contractor shall submit the *WTP Operational Readiness Support Plan* to DOE-ORP for approval. The Contractor shall report its review of WTP operability in an *Annual WTP Operational Support Report* (Deliverable C.2.3.2-2). The evaluation will address each of the five (5) topical areas shown below for each of the WTP facilities (Pretreatment, HLW, LAW, LAB, and BOF).

Topical Areas:

- Process flowsheet viability;
- Reliability, availability, maintainability, and inspectability;
- Training and testing activities; and
- Cold and hot commissioning.

In the *Annual WTP Operational Readiness Support Report*, the Contractor shall document its review and recommendations regarding operational issues that are identified.

C.2.3.3 Sub-CLIN 3.3: Immobilized High-Level Waste (IHLW) Storage and Shipping Facility Construction

Background:

IHLW produced by the WTP will be stored on-site until shipment to an off-site repository. A Canister Storage Building (CSB), with three below grade vaults, is in operation. One of the three vaults currently provides interim storage for spent nuclear fuel canisters. The other two vaults are empty and require modifications to be able to accept up to 880 IHLW canisters. Project design to modify the two empty vaults is complete, but modifications have not begun.

General Scope:

The Contractor shall design, construct, commission, and operate a storage facility for IHLW canisters to support WTP production of IHLW. Based on the availability of an off-site repository, the Contractor shall design, construct, commission and operate a Hanford Shipping Facility for IHLW and SNF.

Detailed Scope and Requirements:

Hanford Shipping Facility and IHLW Interim Storage

The Contractor shall:

- Define and evaluate alternatives for location of the Hanford Shipping Facility, and the amount and location of on-site interim storage. The Contractor shall prepare a *Hanford Spent Nuclear Fuel and Immobilized High Level Waste Interim Storage Alternatives Analysis* (Deliverable C.2.3.3-1) and submit to DOE-ORP for information.
- Design a Hanford Shipping Facility that is capable of:
 - Receiving IHLW and SNF transportation casks on railroad cars from the off-site repository;
 - Removing and opening the casks;
 - Placing IHLW and SNF canisters into the casks,
 - Closing the casks and remounting them on the railcars; and
 - Staging the loaded railcars for return to the off-site repository.
- Complete modifications to the CSB and/or construction of a separate interim storage facility and ensure that the facility is ready for operation prior to WTP commencement of IHLW production.
- Complete construction of the Hanford Shipping Facility with capability to ship at a rate of 600 canisters per year. Actual shipping rates will be determined by the DOE Office of Civilian Radioactive Waste Management in accordance with the Integrated Acceptance Schedule.
- Prepare to operate the Hanford Shipping Facility in accordance with DOE-ORP direction (to be provided post-award) derived from the *Memorandum of Agreement for Acceptance of Department of Energy Spent Nuclear Fuel and High-Level Radioactive Waste*. Contractor responsibilities will include:

Deliverable Number	Deliverable	DOE-ORP		Deliverable Due Date ²
		Action	Response Time ³	
C.2.3.2-1	WTP Operational Readiness Support Plan	Approve	30 days	180 days after sub-CLIN Notice to Proceed with updates as required
C.2.3.2-2	Annual WTP Operational Support Report	Approve	30 days	360 days after sub-CLIN Notice to Proceed with updates as required
C.2.3.3-1	Hanford Spent Nuclear Fuel and Immobilized High Level Waste Interim Storage Alternatives Analysis	Information	N/A	180 days after sub-CLIN Notice to Proceed
C.2.4.1-1	DBVS Construction, Testing, and Operations Plan	Approve	30 days	180 days after contract Notice to Proceed
C.2.4.1-2	DBVS Pilot Plant and Vitrified Waste Form Performance Test Plan	Approve	30 days	360 days after contract Notice to Proceed
C.2.4.1-3	DBVS Pilot Plant and Vitrified Waste Form Performance Results	Review	30 days	90 days following completion of DBVS operations
C.2.4.1-4	Recommendation on the Viability of the Bulk Vitrification Waste Treatment Technology	Approve	30 days	120 days following completion of DBVS operations
C.2.4.1-5	Comparative Analysis of Supplemental Treatment Technologies	Review	30 days	360 days following completion of DBVS operations
C.2.4.1-6	Recommendation to Re-Permit DBVS	Approve	30 days	360 days following completion of DBVS operations
C.2.4.2-1	Cost and Schedule Estimate for the Extended Operations of the Demonstration Bulk Vitrification System	Approve	30 days	180 days following DOE-ORP approval of Deliverable C.2.4.1-6
C.2.4.2-2	Extended Operations of the DBVS Final Design Modifications and Feed Acceptance Specifications	Approve	30 days	360 days following DOE-ORP approval of Deliverable C.2.4.1-6
C.2.4.2-3	Extended Operations of the DBVS Sampling and Analysis Plan	Approve	30 days	360 days following DOE-ORP approval of Deliverable C.2.4.1-6
C.2.5.1-1	ETF/LERF Transition Plan	Approve	30 days	180 days after Notice to Proceed
C.2.5.4-1	WTP LAW Facility Operating and Product Specifications	Approve	30 days	Upon completion of certification of WTP LBL Cold Commissioning
C.3.1.1-1	Project Execution Plan	Approve	45 days	90 days after contract Notice to Proceed with updates as required

Analytical Building Block	Contract Line Item Number	Scope	Date*	Completion End Point(s)
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	Removal of Tank Farm Equipment and Facilities that are out of Service		
		1. SY-271 Auxiliary Building.	Sep – 09	Building removed.
		2. SY-271 Standby Diesel Generator.	Sep – 09	Generator removed.
		3. 242-T Evaporator HEPA Filters.	Sep – 09	Filters removed.
		4. P-28 Exhauster.	Sep – 09	Exhauster removed
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	NEC Resolution and Electrical Modifications	Nov – 09	Construction complete
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	Replace 10 Drains Seals in DST valve/pump boxes	Nov – 09	Construction complete
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	Statements of Work		
		1. Valve Funnel Replacement.	Dec – 09	Statement of work complete.
RA-2 Other Infrastructure Upgrades	Sub-CLIN 7.3	Wiped Film Evaporator		
		1. Small-scale demonstration.	Sep – 10	Small-scale demonstration complete.
		2. Full-scale demonstration.	Sep – 11	Full-scale demonstration complete.
RA-2 Other Infrastructure Upgrades	Sub-CLIN 7.1	Core Sampling System	Sep – 11	System received.
RA-3 Facilities Upgrades	Sub-CLIN 7.1	242-A Upgrades/Operation		
		1. Refurbish pump PB-1.	June– 11	Pump refurbished.
		2. Electrical panel replacement/repair.	Sep – 11	Panel replaced/repared.
		3. Decontaminate condenser room.	Dec – 09	Decontamination complete.
		4. Evaporator Compressors.	Sep – 09	Compressor installation complete.
		5. Raw water service building upgrade.	Feb – 10	Upgrade complete.
RA-3 Facilities Upgrades	Sub-CLIN 7.1	242-A Upgrades/Life Extension (multiple subprojects)		
		1. Install exhaust skid.	Sep – 11	Exhauster replaced.
		2. Replace instruments.	Feb - 11	Instruments installed.

Analytical Building Block	Contract Line Item Number	Scope	Date*	Completion End Point(s)
		1. Test glass formulations for technetium retention.	Sep – 11	Issue final report.
		2. Short-term leaching tests of grout formulations to solidify ETF waste streams.	Sep – 11	Issue final report.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.1	DST Control Systems Update	Sep – 11	Control systems installed.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.1	Exhauster D&D (AW/AN)	Aug – 11	Exhausters removed.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AZ Condensate Line Upgrade	April – 11	Upgrades complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AW COB Isolation and Removal	May – 11	Construction complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Mixer Pump Design	May – 11	Mixer pump design complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Tank Waste Mixing Demonstrations		
		1. Complete small-scale mixing demonstration and submit draft report to DOE-ORP.	Sep – 10	Draft small-scale mixing demo report.
		2. Complete test loop demonstration and submit draft report to DOE-ORP.	Jan – 11	Draft test loop demonstration report.
		3. Complete small-scale sampling demonstration and submit draft report to DOE-ORP.	Jun – 11	Draft small-scale sampling demonstration report.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AW D&D (SHMS-GCS Removal)	May – 11	Equipment Removal complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	SY-102 D&D (SHMS-GCS Removal)	Dec – 10	Equipment Removal complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Strategic Planning – Process Control Flow Sheets Complete for First 3 WTP Feed Tanks	Sep – 11	Flow sheet complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Waste Feed Delivery – Pre-Design/Design Activities for Waste Feed Delivery	Sep – 11	Design review complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Statements of Work and Procurement Specifications		
		1. Prepare SOW for Exhauster D&D.	Dec – 09	Statement of work prepared.