

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 7 PAGES
2. AMENDMENT/MODIFICATION NO. 257	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 12EM000820	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352	7. ADMINISTERED BY (If other than Item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code) Bechtel National, Inc. 2435 Stevens Center Place Richland, WA 99354		9A. AMENDMENT OF SOLICITATION NO.	
CODE 396A5 FACILITY CODE 153392068		9B. DATED (SEE ITEM 11)	
		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC27-01RV14136	
		10B. DATED (SEE ITEM 13) 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 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 DATE AND HOUR 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 amendment and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS SET FORTH IN ITEM 14.

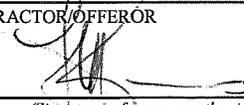
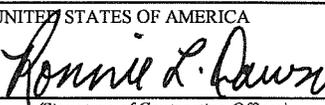
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF: Clause I.82, "FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) – Alternate III (APR 1984)"
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Reference Continuation Page(s)
 Period of Performance: 12/11/2000 to 8/15/2019

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) Frank M. Russo Project Director	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ronnie L. Dawson Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 3/20/12
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 4/30/12

Purpose of Modification:

The purpose of this modification is to update Contract Section B, *Supplies or Services and Prices/Costs* and Contract Section C, *Statement of Work*. The revisions made herein are as follows:

- (A) Revision of Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 5, *Commissioning*. The purpose of this change is to revise the opening two paragraphs of Standard 5, to revise Standard 5, sub-paragraph (c)(6) to clarify the number and applicability of facility Operational Readiness Reviews (ORRs) and to expand Standard 5, paragraph (f) to include a joint Deliverable with the Tank Farms Operating Contractor (TOC) for the Operational Readiness Support Plan. The inclusion of the Operational Readiness Support Plan in Contract Section C, Contract Clause C.6, Standard 5 as new paragraph (f)(i) will result in the renumbering of existing paragraph (f) to now be (f)(ii), as well as adding a new Deliverable 5.22 to Contract Clause C.5, *Description of Contract Requirements and Deliverables*, Table C.5-1.1.
- (B) Inclusion of Performance Evaluation Measurement Plan (PEMP) 2012-A, Revision 0, dated January 1, 2012 by reference.
- (C) Revision of Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 9, *Radiological, Nuclear, and Process Safety (Table C.5-1.1, Deliverable 9.1)*, in accordance with U.S Department of Energy Letter 11-WTP-470 (CCN 243209), dated December 22, 2011.

Description of Modification:

1. Update Contract Section B, *Supplies or Services and Prices/Costs*, Contract Clause B.11, *Attachments*, Attachment B-2, *Incentive Fee Details*, Sub-Attachment B-2-B-2, *Incentive Fee B – Performance Evaluation and Measurement Plan*, Table B-2-B-2, *PEMP*, and add PEMP 2012-A, Revision 0, dated January 1, 2012 and PEMP 2012-A, Revision 1 dated January 31, 2012. Contract Section B, Contract Clause B.11, Attachment B-2, Sub-Attachment B-2-B-2, Table B-2-B-2 is replaced in full as follows:

Calendar Year (CY)	Award Fee Period	PEMP Revision	Effective Date
2009	2009-A	Rev. 0	February 1, 2009
	2009-B	Rev. 0	July 1, 2009
2010	2010-A	Rev. 0	January 1, 2010
	2010-A	Rev. 1	April 19, 2010
	2010-B	Rev. 0	July 1, 2010
2011	2011-A	Rev. 0	January 1, 2011
	2011-B	Rev. 0	July 1, 2011
2012	2012-A	Rev. 0	January 1, 2012
	2012-A	Rev. 1	January 31, 2012
	2012-B		

2013	2013-A 2013-B		
2014	2014-A 2014-B		
2015	2015-A 2015-B		
2016	2016-A 2016-B		
2017	2017-A 2017-B		
2018	2018-A 2018-B		
2019	2019-A 2019-B		

2. Update Contract Section C, *Statement of Work*, Clause C.5, *Description of Contract Requirements and Deliverables*, Table C.5-1.1 and insert line item 5.22, *WTP Operational Readiness Support Plan*.

Item No.	Deliverable	Reference	Action Required	DOE Action Party	Point of Delivery	Contract Due Date
5.22	WTP Operational Readiness Support Plan (Jointly submitted with Tank Farms Operating Contractor (TOC) as TOC deliverable C.2.3.2-1) (257)	Standard 5 [Std, 5 (f) (i)]	A	D	COR	9/30/2012 with updates as required

3. Update Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 5, opening two paragraphs, as follows:

The purpose of this Standard is to describe the requirements and deliverables for the Startup testing and Commissioning of the WTP.

Startup testing begins with a planned turnover of systems from construction, including component and system level tests that will be performed in a planned sequence at each facility, and precedes Cold commissioning of the facility.

The Commissioning process begins with testing during Cold Commissioning making production runs using agreed upon simulant waste, then Hot Commissioning using actual tank waste, and continues through to turnover to the future Operations Contractor. Commissioning is supported by testing, operations, maintenance, procedure development,

and training required to support the scope contained in Standard 5. The Contractor may choose to commission the facilities in a sequential order or a parallel order.

4. Update Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (c) *Commissioning Plan*, sub-paragraph (6), as follows:

FROM:

- (6) Identify planned actions to ensure readiness, prior to Hot Commissioning of the associated facility, for Multiple (M196) Operational Readiness Reviews (ORRs) (M196) per DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities (A190)* (e.g., facility testing, programmatic controls, qualification of personnel, and regulatory permits). Planning should be based on multiple ORRs for the WTP facility (M196)

TO:

- (6) Identify planned actions to ensure readiness, prior to Hot Commissioning of the associated facility, for Operational Readiness Reviews (ORRs) (M196) per DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities (A190)* (e.g., facility testing, programmatic controls, qualification of personnel, and regulatory permits). Planning should be based on multiple ORRs for the WTP Project, with a single ORR for each applicable facility (LAW/Lab, PT, and HLW). (M196) (257)
5. Update Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (f) *Operational Readiness Reviews* by inserting a new paragraph (f)(i), and renumbering the existing paragraph (f) to now be (f)(ii). Contract Clause C.6, Standard 5, paragraph (f) is replaced in full as follows:

- (f) (i) Operational Readiness Support Plan (257): Prior to Operational Readiness Reviews, the Contractor, jointly with the TOC, shall submit an Operational Readiness Support Plan (Joint WTP/TOC Contract Deliverable (Table C.5-1.1; Deliverable 5.22)). The plan will address facility operational readiness requirements for the Tank Farms and each of the five (5) WTP facilities (Pretreatment, HLW, LAW, LAB, BOF). Topical areas for review may include (but are not limited to):
- Management Self-Assessment process;
 - Start-up notification report;
 - Procedures;
 - Training and testing activities; and
 - Cold and hot commissioning
- (ii) Operational Readiness Review(s) (M196): The WTP Operational Readiness Review process shall be conducted in accordance with DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities (A190)*, prior to the start of Hot Commissioning. (257).

6. Update Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (e)(2) *Cold Commissioning* and paragraph (g), *Hot Commissioning* to correct a spelling error contained in the title of DOE Order 425.1D. The title of DOE Order 425.1D is changed to read "*Verification of Readiness to Start Up or Restart Nuclear Facilities*".
7. Update Contract Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 9, *Radiological, Nuclear, and Process Safety (Table C.5-1.1, Deliverable 9.1)*, and replace in full as follows.

Standard 9: Nuclear Safety (Table C.5-1.1, Deliverable 9.1) (257)

1. The Contractor shall develop and implement an integrated standards-based safety management program to ensure that radiological, nuclear, and process safety requirements are defined, implemented, and maintained. Radiological, nuclear, and process safety requirements shall be adapted to the specific hazards associated with the Contractor's WTP activities.
2. The Contractor's safety basis documents and maintenance process shall be developed and implemented to comply with the specific nuclear safety requirements established in 10 CFR 830, Subpart B, *Safety Basis Requirements*.

3. The Contractor shall prepare and submit to DOE for review and approval the nuclear safety-related deliverables required by 10 CFR 830, Subpart B, as well as the following per BNI procedures:
 - a. Criticality Safety Evaluation Report;
 - b. Hazards Analysis Report(s) (HAR) / Safety Evaluation(s) (SE) that support Justifications for Continued Design, Procurement, and Installation (JCDPI);
 - c. Authorization Basis Amendment Requests (ABAR)
4. The Contractor shall submit the Documented Safety Analysis (DSA) for each facility no less than six (6) months prior to the need for ORP approval, and associated hazards analysis documents for information, to support Commissioning activities for those facilities.
5. The Contractor shall establish and implement a program to maintain the facility-specific Preliminary Documented Safety Analyses (PDSA) and Hazards Analysis Reports (HAR) current. The program shall establish a process to screen and evaluate proposed changes to the design of WTP facilities based on the potential to impact the hazards and accident analyses as defined in the facility-specific PDSAs. The procedure that implements this program shall be approved by DOE.

All other changes (i.e., those within the analyzed safety basis document) will be incorporated into the PDSA via a direct page change within 60 days of contractor approved design changes or DOE-issued Safety Evaluation Reports (SER) unless an alternative duration is specified by DOE.

Changes that are determined to be “unreviewed” in accordance with the DOE approved program procedure described in Section 5 of this Standard, shall be submitted to DOE for review and approval prior to implementation.

6. DOE may attend WTP hazards analysis, accident analysis, and control selection meetings as observers. DOE may observe WTP design reviews (and question the presenters) as ex-officio members. These observations provide DOE with continuing information concerning the safety aspects of the evolving design and do not constitute ORP approval of the matters discussed.
7. The Contractor shall provide quarterly, a listing of screenings and evaluations prepared in accordance with Standard 9, Item 5, above, that were determined to be within the analyzed safety basis and therefore already approved by DOE.
8. The Contractor shall ensure a mechanism exists to allow efficient and timely DOE review of engineering documents reviewed by the Contractor for safety basis impacts.

9. The Contractor shall identify and maintain the list of documents that constitute the authorization basis for each WTP nuclear facility. This list will be used by qualified screeners and evaluators to determine if a proposed design change is within the analyzed safety basis document(s). This list shall be provided to DOE annually, and upon DOE approval of any DSA, as part of the annual update submittal thereafter in conformance with 10 CFR § 830.202, Safety basis.
10. The Contractor shall maintain the Safety Requirements Document (SRD) consistent with the design of WTP facilities. Changes to the SRD will be processed consistent with Standard 9, Item 5, above. Changes that do not impact the safety basis documents will be implemented into the design criteria basis.

[NOTE: PREVIOUS TABLE S9-1 IS DELETED IN ITS ENTIRETY]

8. Contractor's Statement of Release: In consideration of the Modification agreed to herein as complete equitable adjustment for the changes made through this modification, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the changes as noted in this modification, except for the first paragraph in Item 5 of Standard 9.

9. All other terms and conditions remain unchanged.