

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE **1** OF **7** PAGES

2. AMENDMENT/MODIFICATION NO. **385** 3. EFFECTIVE DATE (M/D/Y) **See Block 16C** 4. REQUISITION/PURCHASE REQ. NO. _____ 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE _____ 7. ADMINISTERED BY (If other than Item 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)
Bechtel National, Inc.
2435 Stevens Center Place
Richland, WA 99354

9A. AMENDMENT OF SOLICITATION NO. _____
 9B. DATED (SEE ITEM 11) _____
 10A. MODIFICATION OF CONTRACT/ ORDER NO. **DE-AC27-01RV14136**
 10B. DATED (SEE ITEM 13) **December 11, 2000**

CODE **396A5** FACILITY CODE **153392068**

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 checked="" type="checkbox"/> Clause I.82, FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) – Alternate III (APR 1984)
<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 type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input type="checkbox"/>	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.)
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)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ronald E. Cone Jr. Contracting Officer
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED _____
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 12-22-16

Purpose of Modification:

The purpose of this modification is to make the following changes:

1. Section C, *Statement of Work, Standard: 3 Design*, (c) is revised to incorporate the following:
 - (23) Utilize the engineering redraft process developed in Standard 3, subparagraph (c) (22) to reclassify the required portions of the LAW C5 ventilation system from non-safety to safety significant as described in 24590-LAW-PL-NS-16-0005 Rev. 0, *Safety Strategy Summary Document (SSSD) – Oxides of Nitrogen/Melter Offgas Releases* (Ref. letter from L.W. Baker, BNI, to W.F. Hamel, ORP, “Submittal of 24590-LAW-PL-NS-0005, for Review and Concurrence”, CCN 27632, December 21, 2016). The C5V confinement boundary from C5V exhaust fans to the C5V stack must be credited as safety significant for maintaining confinement of the melter offgas to an elevated release.
2. The Contractor is directed to proceed with the work scope in Section C, *Statement of Work, Standard 3: Design*, and paragraph (c) (23). The contractor is authorized to incur costs up to a not-to-exceed (NTE) value of \$111,648 consistent with the other contract terms and conditions and pending definitization of this change.
3. BNI shall submit within 45 days of date of this modification a detailed technical and price proposal. Negotiations will commence within 90 days of the date of this change order. A bi-lateral modification definitizing this change order shall be executed as soon as possible after the date of the change order, not to exceed 180 days.
4. Contractor shall provide change order accounting in accordance with Clause I.83, FAR 52.243-6, Change Order Accounting (APR 1984).
5. This modification does not add additional funds to the contract. Accordingly, work under the contract, such as that described herein, must be performed within the amount of funds which have been incrementally allotted to the contract in accordance with clause B.3, *Obligation and Availability of Funds and Contract Value*, and clause I.66, FAR 52.232-22 Limitation of Funds (Apr 1984).

Modification Description

1. Section C, *Statement of Work, Standard 3: Design*, (c) is revised to incorporate the following language:

- (23) Utilize the engineering redraft process developed in Standard 3, subparagraph (c) (22) to reclassify the required portions of the LAW C5 ventilation system from non-safety to safety significant as described in 24590-LAW-PL-NS-16-0005 Rev. 0, *Safety Strategy Summary Document (SSSD) – Oxides of Nitrogen/Melter Offgas Releases* (Ref. letter from L.W. Baker, BNI, to W.F. Hamel, ORP, “Submittal of 24590-LAW-PL-NS-0005, for Review and Concurrence”, CCN 27631, December 13, 2016). The C5V confinement boundary from C5V exhaust fans to the C5V stack must be credited as safety significant for maintaining confinement of the melter offgas to an elevated release.
2. A Not-to-Exceed value of \$111,648 is hereby established. As a result, the table in Section B, *Supplies or Services and Prices/Costs*, Section B.3, *Obligation and Availability of Funds and Contract Value*, paragraph (c) is revised as follows:
- The revised Total Estimated Contract Cost (TECC) is increased by \$111,648 from \$14,079,385,870 to \$14,079,497,518.
 - The revised Total Fee Available is revised from \$360,102,620 by (\$61,667,000) to \$298,435,620 to reflect fee payments made by DOE.
 - The revised Total Fee Earned is revised from \$235,195,878 by \$61,667,000 to \$296,862,878 to reflect fee payments made by DOE.
 - The Total Estimated Contract Price (TECP) is increased by \$111,648 from \$14,674,684,368 to \$14,674,796,052.
3. The table in Section B, *Supplies or Services and Prices/Costs*, Contract Section B.3 *Obligation and Availability of Funds and Contract Value*, paragraph (a), is deleted in its entirety and replaced in full as follows:

Table B.1 – Total Estimated Contract Price

		Cost			
A	Total Estimated Contract Cost (TECC) through Mod 384				\$14,079,385,870
B	Total Estimated Contract Cost (384)	CLIN Estimated Cost	Increased by Mod (385)	Total CLIN Estimated Cost	
B.1	CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration	\$6,504,604,000	\$111,648.00	\$6,504,715,648	\$111,648
B.2	CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW				
	SUB-CLIN 2.1: DFLAW Design (Target Cost)	\$75,000,000	\$0	\$75,000,000	\$0
	SUB-CLINS 2.2 /2.3 DFLAW Procurement/ Construction	\$362,600,000	\$0	\$362,600,000	\$0
B.3	CLIN 3.0 Reserved for HLW Facility	**	0		
B.4	CLIN 4.0: Reserved for PT Facility	**	0		
	Revised Total Estimated Contract Cost (TECC) through Mod 385				\$14,079,497,518

		Cost		
		Fee		
		Available	Earned	Total
A	Earned before modification (384)			
	A1	Final Fee Determination – Pre-Mod No. A143		\$102,622,325
	A2	Final Fee Earned Mod No. A143 – Mod. No. (384)		\$131,573,553
B	Fixed Fee Payment (Attachment B-2-C)***		\$0	\$60,000,000
C	Pending Activity Milestones (Attachment B-2-B)		\$5,000,000	\$1,667,000
D	Maximum Available Award Fee (CY 2016–2022) (Attachment B-2-D)		57,435,620	
E	CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration			
	D1	LBL Construction Complete Performance Based Incentives (Attachment B-2-E)	\$68,400,000	
	D2	Commission LBL in the DFLAW Configuration Performance Based Incentive (Attachment B-2-F)	\$159,600,000	
	D3	Schedule Incentive Hot Commissioning (Attachment B-2-F)	+/- \$60,000,000 (Max)	
	D4	Cost Share Incentive (Attachment B-2-G)	+/- \$50,000,000 (Max)	
F	CLIN 2.1: Performance-Based Incentive for DFLAW Design Completion (Attachment B-2-H)		+/- \$8,000,000	\$1,000,000
	Total Maximum Available Fee****		\$298,435,620	
	Total Fee Earned			\$296,862,878
	Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC)			\$14,674,796,016

4. Contract Section J, *List of Attachments*, Attachment J, *Advance Understanding on Costs*, Table 13-B, *Not-to-Exceeds Not Included in Modification No. A143 Definitization (M155)*, is deleted in its entirety and replaced in full as follows:

13-B. Not-To-Exceeds Not Included in Modification No. A143 Definitization (M155)		
DOCUMENT ID.	TITLE	DEFINITIZATION MODIFICATION NO.
BCP-24590-06-02279	Expansion of DWP Requirements (permit Modifications) (122) (130)	A193
ORP 08-NSD-011 (05/20/08) (CCN 179512) TN 24590-06-03487	ORP Direction to Implement New Preliminary Safety Analysis Report (PSAR) Updates (136)	A164
ORP 08-NSD-057 (10/09/08) (CCN 188218) TN 24590-06-03752	Direction to Implement New Safety Classification Process for the Waste Treatment and Immobilization Plant (WTP) (141)	276

<p>ORP 08-NSD-059 (10/15/08) (CCN 188217)</p> <p>TN 24590-06-03753</p>	<p>Direction to Implement New Justification for Continued Design, Procurement, and Installation (JCDPI) (M152)</p>	<p>164</p>
<p>Modification M090 & 09-AMD-205 (07/18/08) (CCN 202423)</p> <p>TN 24590-06-02145 & -02381</p>	<p>Direction to Implement DOE 205.1A, Cyber Security Management Program (155)</p>	<p>217</p>
<p>Modification M154</p> <p>TN 24590-06-04133</p>	<p>Direction to Implement Pretreatment Engineering Platform (PEP) dry layout (155)</p>	<p>167</p>
<p>Modification M196 BCP 24590-06-04489 BCP 24590-06-04784 BCP 24590-06-05085</p>	<p>Direction to Implement Multiple Operational Readiness Strategy (218)</p>	<p>282</p>
<p>Modification M196 BCP 24590-06-04853 ORP 10-AMD-139 (05/06/10; CCN 218244)</p>	<p>Direction to Implement CXP Equipment Option (218)</p>	<p>317</p>
<p>Modification 221 ORP 11-WTP-219 (06/17/11; CCN 236247); Modification 247 ORP 11-WTP-437 (12/01/11; CCN 242351); Modification 264 ORP 12-WTP-0109 (03/15/12; CCN 245985); Modification 286 ORP 12-WTP-317 (09/24/12)</p>	<p>Direction to Proceed with Large Scale Testing (221, 247, 264, 286)</p>	<p>299 - 384</p>
<p>Modification 273</p>	<p>Direction to participate in the Hanford Site Organizational Climate and Safety Conscious Work Environment (SCWE) Survey</p>	<p>290</p>
<p>Modification 245 ORP 11-WTP-429</p>	<p>Direction to proceed with the implementation of DOE Order (O) 420.1B, <i>Facility Safety, Chapter V, Systems Engineer Program.</i> (245)</p>	<p>276</p>
<p>Modification 300 ORP 13-CPM-0099 (05/06/13); Mod 304 ORP 13-CPM-0133 (06/05/13); Modification 313 ORP 13-CPM-0299</p>	<p>Direction to Proceed with Full Scale Vessel Testing Program in lieu of the existing Computational Fluid Dynamics and Large Scale Vessel testing Program as a Design Verification Tool (300, 304, 313)</p>	<p>384</p>

(11/25/13)		
Modification 329 ORP 14-CPM-0172	Direction to proceed with Section C, Statement of Work, Standard 3 Design, paragraph (i) Design of BOF Utility Modifications	350
Modification 330 ORP 14-CPM-0181	Direction to proceed with Section C, Statement of Work, Standard 3 Design, paragraph (j) Design of BOF Effluent Management Facility	350
Modification 334 ORP 14-CPM-0228, ORP 15-CPM-0300 (358) 16-CPM-0088 (372)	Direction to proceed with Pretreatment Facility vessel mixing design verification.	384
Modification 339 ORP 15-CPM-0008	Direction to proceed with Section C, Statement of Work, Standard 3 Design, paragraph (k) Design of Balance of Facilities Underground and Site-Wide Modifications necessary to support the Direct Feed of LAW (DFLAW)	350
Modification 342 ORP 15-CPM-0064, ORP 16-CPM 0012 (364)	Direction to proceed with the implementation of DOE Order (O) 433.1B, Maintenance Management Program for DOE Facilities and DOE/RL-92-36, Hoisting and Rigging Manual. (342)	384
Modification 344 ORP 15-CPM-0092	Direction to proceed with initiation of procurement of BOF modifications and LAW Valve Vault materials to support DFLAW; add Interface Control Documents 30 and 31	384
Modification 348 ORP 15-CPM-0128	Direction to proceed with initiation of BOF isolation construction to support DFLAW	384
Modification 349 ORP 15-CPM-0136	Direction to proceed with the implementation of DOE Order (O) 414.1D, CRD, Chg. 1, Quality Assurance. (349)	
Modification 354 ORP 15-CPM-0195, ORP 16-CPM-0154 (380)	Direction to proceed with procurement of Effluent Management Facility (EMF) equipment and effluent transfer lines and limited EMF construction (354)	384
Modification 371 ORP-CPM-0085	Conduct supplementary analysis of vessels RLD-VSL-00007 and RLD-VSL-00008 beyond the WTP Code of Record and modify the RLD-VSL-00007 and RLD-VSL-00008 vessel design.	
Modification 375 ORP-CPM-0111	Update the Natural Phenomena Hazards (NPH) Assessment by generating a revised site-specific response analysis and design response spectra for WTP incorporating Hanford site-wide Probabilistic Seismic Hazard Analysis (PSHA) report from PNNL, dated November 21, 2014. (375)	
Modification 381 ORP-16-CPM-0155 (381)	Authorization to proceed with the development of an engineering redraft process for Standard 3: Design (c) (22).	
Modification 385 ORP-16-0174 (385)	Authorization to proceed with the engineering redraft process developed in Standard 3, subparagraph (c) (22) to reclassify the required portions of the LAW C5 ventilation	

	system from non-safety to safety significant as described in 24590-LAW-PL-NS-16-0005 Rev. 0, <i>Safety Strategy Summary Document (SSSD) – Oxides of Nitrogen/Melter Offgas Releases.</i>	
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5. All other terms and conditions remain unchanged.

(End of Modification)