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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE 1 OF 4 PAGES |
| 2. AMENDMENT/MODIFICATION NO. 228 | 3. EFFECTIVE DATE (M/D/Y) See Block 16C | 4. REQUISITION/PURCHASE REQ. NO. | 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 | CODE | 7. ADMINISTERED BY (If other than Item 6) SF-30 Prepared by Heather L. Dale | CODE |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code) Bechtel National, Inc. 2435 Stevens Center Place Richland, WA 99354 | | <input type="checkbox"/> | 9A. AMENDMENT OF SOLICITATION NO. |
| CODE 396A5 FACILITY CODE 153392068 | | <input checked="" type="checkbox"/> | 9B. DATED (SEE ITEM 11) |
| | | <input checked="" type="checkbox"/> | 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 | | | |
| <input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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"/> | 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 1.82, "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 <input type="checkbox"/> is not, <input checked="" type="checkbox"/> 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.) 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) Frank M. Russo Project Director | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ashley T. Morris Contracting Officer | |
| 15B. CONTRACTOR/OFFEROR ORIGINAL SIGNED BY <hr/> <i>(Signature of person authorized to sign)</i> | 15C. DATE SIGNED 9/15/11 | 16B. UNITED STATES OF AMERICA BY ORIGINAL SIGNED BY <hr/> <i>(Signature of Contracting Officer)</i> | 16C. DATE SIGNED 9-20-2011 |

Purpose of Modification:

The purpose of this modification is to update Section C, *Statement of Work*, and correct Contract Clause C.5, *Description of Contract Requirements and Deliverables*, and Contract Clause C.6, *Standards*. These contractual actions are performed under the authority of Contract Clause I. 82, *FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) – Alternate III (APR 1984)*, at no additional cost.

Description of Modification:

1. Table C.5-1.1 in Section C, *Statement of Work*, Contract Clause C.5, *Description of Contract Requirements and Deliverables*, paragraph (g) is corrected to include Standard 1 (a)(2)(i)(d) in the reference column of item 1.7, *Monthly Status Report*. Standard 1 (a)(2)(i)(d) is referenced in Contract Clause C.6, *Standards*, Standard 1, *Management Products and Controls*, paragraph (a) sub-paragraph (2)(i)(d). Item 1.7 of Table C.5-1.1 in Contract Clause C.5, paragraph (g) is revised as follows:

FROM:

| | | | | | | |
|-----|-----------------------|---|---|---|------------|-------------------------------------|
| 1.7 | Monthly Status Report | Standard 1 [Std. 1 (c)(4) & (d)(1), Std 3 (g)(3), and Std 4 (f)(2)] | I | D | COR (M131) | First Wednesday of the second month |
|-----|-----------------------|---|---|---|------------|-------------------------------------|

TO:

| | | | | | | |
|-----|-----------------------|---|---|---|------------|-------------------------------------|
| 1.7 | Monthly Status Report | Standard 1 [Std. 1 (c)(4), (a)(2)(i)(d) & (d)(1), Std 3 (g)(3), and Std 4 (f)(2)] | I | D | COR (M131) | First Wednesday of the second month |
|-----|-----------------------|---|---|---|------------|-------------------------------------|

2. Table C.5-1.1 in Section C, *Statement of Work*, Contract Clause C.5, *Description of Contract Requirements and Deliverables*, paragraph (g) is corrected to show item 5.5 as deleted. This item was deleted in Contract Modification A029 and is reinstated as a placeholder.
3. Table C.5-1.1 in Section C, *Statement of Work*, Contract Clause C.5, *Description of Contract Requirements and Deliverables*, paragraph (g) is corrected to delete the reference to Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (g),

sub-paragraph (4) from item 5.12. There is no deliverable for item 5.12 listed in this paragraph. Item 5.12 of Table C.5-1.1 in Contract Clause C.5, paragraph (g) is revised as follows:

FROM:

| | | | | | | |
|------|----------------------------------|---------------------------------|---|---|------------|--------------------------|
| 5.12 | Hot Commissioning Capacity Tests | Standard 5 [Std. 5(g)(4) & (5)] | A | D | COR (M131) | during hot commissioning |
|------|----------------------------------|---------------------------------|---|---|------------|--------------------------|

TO:

| | | | | | | |
|------|----------------------------------|---------------------------|---|---|------------|--------------------------|
| 5.12 | Hot Commissioning Capacity Tests | Standard 5 [Std. 5(g)(5)] | A | D | COR (M131) | during hot commissioning |
|------|----------------------------------|---------------------------|---|---|------------|--------------------------|

4. Contract Clause C.6, *Standards*, Standard 1, *Management Products and Controls*, paragraph (a), sub-paragraph (1)(iv) is updated to show correction of Approved Authorization Basis from 10 CFR 835, *Nuclear Safety Management*, to 10 CFR 830, *Occupational Therapy*. Standard 1, paragraph (a), sub-paragraph (1)(iv) is revised as follows:

FROM:

- (iv) Approved Authorization Basis pursuant to 10 CFR 835;

TO:

- (iv) Approved Authorization Basis pursuant to 10 CFR 830;

5. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (e), sub-paragraph (3)(i) is updated to add reference to item 5.3 of Table C.5-1.1 in Section C, *Statement of Work*, Contract Clause C.5, *Description of Contract Requirements and Deliverables*, paragraph (g). Contract Clause C.6, Standard 5, paragraph (e), sub-paragraph (3)(i) is revised as follows:

FROM:

- (i) Waste Form Qualification Tests: The Contractor shall complete WTP waste form qualification testing during cold commissioning to demonstrate the production of acceptable non-radioactive products (ILAW and IHLW) and secondary wastes in accordance with the Secondary Wastes Compliance Plan (Table C.5-1.1, Deliverable 6.1), ILAW Product Compliance Plan (Table C.5-1.1, Deliverable 6.3), and IHLW Waste Form Compliance Plan (Table C.5-1.1, Deliverable 6.2).

Applicable process unit operations, sampling and analysis, process control systems, and operating procedures shall be utilized in these qualification tests in a manner that represents planned operations with actual wastes. Test results will be evaluated and documented as part of the waste form qualification reports identified in Standard 6, *Product Qualification, Characterization, and Certification*.

TO:

- (i) Waste Form Qualification Tests (Table C.5-1.1; Deliverable 5.3): The Contractor shall complete WTP waste form qualification testing during cold commissioning to demonstrate the production of acceptable non-radioactive products (ILAW and IHLW) and secondary wastes in accordance with the Secondary Wastes Compliance Plan (Table C.5-1.1, Deliverable 6.1), ILAW Product Compliance Plan (Table C.5-1.1, Deliverable 6.3), and IHLW Waste Form Compliance Plan (Table C.5-1.1, Deliverable 6.2). Applicable process unit operations, sampling and analysis, process control systems, and operating procedures shall be utilized in these qualification tests in a manner that represents planned operations with actual wastes. Test results will be evaluated and documented as part of the waste form qualification reports identified in Standard 6, *Product Qualification, Characterization, and Certification*.

6. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (g), subparagraph (4) is updated to add reference to item 5.21 of Table C.5-1.1 in Section C, *Statement of Work*, Contract Clause C.5, *Description of Contract Requirements and Deliverables*, paragraph (g). Contract Clause C.6, Standard 5, paragraph (g), subparagraph (4) is revised as follows:

FROM:

- (4) Hot Commissioning Capacity Tests: Hot commissioning testing shall be conducted to demonstrate the capacity of the WTP as identified in Table C.6-5.2.

TO:

- (4) Hot Commissioning Capacity Tests (Table C.5-1-1; Deliverable 5.21): Hot commissioning testing shall be conducted to demonstrate the capacity of the WTP as identified in Table C.6-5.2.

7. Contractor's Statement of Release: In consideration of the Modification agreed to herein as complete equitable adjustment, 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.

8. All other terms and conditions remain unchanged.

(End of Modification)