

2. AMENDMENT/MODIFICATION NO. <b>A190</b>	3. EFFECTIVE DATE (M/D/Y) <b>See Block 16C</b>	4. REQUISITION/PURCHASE REQ. NO. <b>N/A</b>	5. PROJECT NO. (If applicable)
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6. ISSUED BY <b>U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352</b>	7. ADMINISTERED BY (If other than Item 6)  
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)  <b>Bechtel National, Inc. 2435 Stevens Center Place Richland, WA 99354</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"><input type="checkbox"/></td> <td>9A. AMENDMENT OF SOLICITATION NO.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>9B. DATED (SEE ITEM 11)</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>10A. MODIFICATION OF CONTRACT/ ORDER NO. <b>DE-AC27-01RV14136</b></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>10B. DATED (SEE ITEM 13) <b>December 11, 2000</b></td> </tr> </table>	<input type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO.	<input type="checkbox"/>	9B. DATED (SEE ITEM 11)	<input checked="" type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ ORDER NO. <b>DE-AC27-01RV14136</b>	<input checked="" type="checkbox"/>	10B. DATED (SEE ITEM 13) <b>December 11, 2000</b>
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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 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)" Clause B.2, "Obligation and Availability of Funds," and Clause I.66 "Limitation of Funds" (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.)

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) <b>Frank Russo Project Director</b>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Ronnie L. Dawson Contracting Officer</b>
15B. CONTRACTOR/OFFEROR <b>ORIGINAL SIGNED BY</b>  <i>(Signature of person authorized to sign)</i>	15C. DATE SIGNED <b>10/22/10</b>
15B. CONTRACTOR/OFFEROR <b>ORIGINAL SIGNED BY</b>  <i>(Signature of Contracting Officer)</i>	16C. DATE SIGNED <b>11/01/10</b>

**Purpose of Modification:**

The purpose of this modification is to update Section B, *Supplies or Services and Prices/Costs*, Section C, *Statement of Work*, and Section J, *List of Attachments*.

**Description of Modification:**

1. Update table in Section B, *Supplies or Services and Prices/Costs*, Contract Clause B.2, *Obligation and Availability of Funds and Contract Value*, paragraph (a) to reflect revised funding for Inter-Entity Work Order (IEWO) M0SRV00028, Amendment 7. Amendment 7 to IEWO M0SRV00028 adjusts funding lines from LAW to PT in the amount of \$137,201.00. There is no change in the total funding for IEWO M0SRV00028, which is currently funded at \$831,201.00. The table in Contract Clause B.2, *Obligation and Availability of Funds*, paragraph (a) is deleted in entirety and replaced in full with the following table.

Description	Appropriation Symbol	B&R No. (Control Point)	Budget Authority
	1250	1110401	\$3,006,205,907.70
LAW	1250	1111183	\$637,493,176.65
LAB	1250	1111184	\$207,770,269.14
BOF	1250	1111185	\$261,701,543.87
HLW	1250	1111186	\$559,525,441.15
PT	1250	1111187	\$840,360,534.66
LAW	1250	1111241	\$104,978,476.14
LAB	1250	1111242	\$54,988,897.26
BOF	1250	1111243	\$5,987,799.34
HLW	1250	1111244	\$198,741,241.83
PT	1250	1111245	\$324,194,585.43
PD	1250	1110462	\$300,000.00
<b>Budgetary Control Points Thru A180</b>			\$6,202,247,873.17

IEWO Identification Numbers	Funding/ Through Amendment #	
M0SRLE60 Funding (SRNS/SRNL)	\$74,049,617.00 (36)	
M0SRV00028 Funding (SRNS)	\$831,201.00 (7)	
M0SRV00036 Funding (WSRC)	\$186,500.00 (2)	
M0SRV00042 Funding (ORNL)	\$27,600 (0)	
IEWO Funding		\$75,094,918.00
Total Obligated Funding		\$6,277,342,791.17

2. Update Section C, *Statement of Work*, to show change from DOE Order 425.1C, CRD, *Start and Restart of Nuclear Facilities*, to DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities*. There is no cost or schedule impact for the implementation of DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities*. The following paragraphs have been revised to reflect this change.
  - a. Contract Clause C.3, *Interactions with Waste Treatment and Immobilization Contractor*, paragraph (b)(1)(vi);
  - b. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (a)(5);
  - c. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (c)(6);
  - d. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (e)(2);
  - e. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (f);
  - f. Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (g).
  
3. Update Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 5, *Commissioning*, paragraph (j). There is no cost or schedule impact for the implementation of DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities*.

FROM:

- (j) Transition: The following items shall be provided to the Operations Contractor at facility transition. In addition, systems and other items necessary to facilitate safe and efficient operation of the WTP shall be provided during the transition period in accordance with the WTP Facility Transition Plan (Deliverable 5.19, Table C.5-1.1).
  - (i) Adequate facilities and equipment to ensure operational support services are adequate for operations. Such support services include operations, training, maintenance, waste management, environmental protection, industrial safety and hygiene, radiological protection and health physics, emergency preparedness, fire protection, quality assurance, criticality

safety, and engineering.

- (ii) Facility safety documentation that is in place and has been implemented that describes the “safety envelope” of the facility. The safety documentation should characterize the hazards/risks associated with the facility and should identify preventive and mitigating measures (system, procedures, administrative controls, etc.) that protect workers and the public from those hazards/risks. Safety structures, systems, and components (SSCs) are defined and a system to maintain control over their design is established.
- (iii) A written program is in place to confirm and periodically reconfirm the condition and operability of safety SSCs. This includes examinations of records of tests and calibration of these systems. The material condition of all safety, process, and utility systems will support the safe conduct of work.
- (iv) The facility systems and procedures, as affected by facility modification, are consistent with the description of the facility, procedures, and accident analysis included in the safety basis.
- (v) Adequate and correct procedures and safety limits are in place for operating the process systems and utility systems that include revisions for modifications that have been made to the facility.
- (vi) A routine drill program and emergency operations drill program, including program records, have been established and implemented.
- (vii) The formality and discipline of operations is adequate to conduct work safely and programs are in place to maintain this formality and discipline. This item is satisfied by transition of Conduct of Operations program.
- (viii) Training program compliant with DOE Order 5480.20A, Change 1 (7-12-01), *Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities*. (M152)

The facility transition period shall be planned to complete transition of all facilities within ninety (90) days following DOE’s acceptance of the Contractor’s Certification of Completion of Hot Commissioning (Table C.5-1.1, Deliverable 5.15).

TO:

- (j) Transition: The following items shall be provided to the Operations Contractor at facility transition. In addition, systems and other items necessary to facilitate safe and efficient operation of the WTP shall be provided during the transition period in accordance with the WTP Facility Transition Plan (Deliverable 5.19, Table C.5-1.1).
- (i) Safety Management Programs (SMPs) to ensure safe accomplishment of work (A190).
  - (ii) Facility safety documentation (normally DSA and TSRs) that describes the safety envelope of the facility (A190).
  - (iii) Program to confirm and periodically reconfirm the condition and operability of Vital Safety Systems (VSS). This includes examinations of records of tests and calibration of these systems (A190).
  - (iv) The facility systems and procedures, as affected by facility modification, are consistent with the description of the facility, procedures, and accident analysis, and assumptions included in the safety basis (A190).
  - (v) Adequate and accurate procedures and safety limits are in place for operating the process systems and utility systems. The procedures include necessary revisions for all modifications that have been made to the facility. Facility processes ensure that only the most current revision to each procedure is in use (A190).
  - (vi) A routine drill program and emergency management drill and exercise program. Records for each program are adequate to demonstrate the effectiveness of completed drills and exercises as well as planning for future drills and exercises (A190).
  - (vii) The formality and discipline of operations is adequate to conduct work safely and programs are in place to maintain this formality and discipline. This item is satisfied by transition of Conduct of Operations program.
  - (viii) The selection, training, and qualification programs for operations and operations support personnel (M152) (A190).

The facility transition period shall be planned to complete transition of all facilities within ninety (90) days following DOE's acceptance of the Contractor's Certification of Completion of Hot Commissioning (Table C.5-1.1, Deliverable 5.15).

4. Update Section C, *Statement of Work*, Contract Clause C.6, *Standards*, Standard 1, *Management Products and Controls*, paragraph (d) and add subparagraph (9). There is no cost for the inclusion of this requirement into the contract. Contract Clause C.6, *Standards*, Standard 1, *Management Products and Controls*, paragraph (d), subparagraph (9) is as follows.

(9) Electronic Data Upload to PARS II: Each month the contractor shall upload WTP performance data to the new DOE Project Assessment and Reporting System (PARS II), using a DOE-provided data extractor for cost and schedule data, by the last workday of the month following the fiscal month end, for the fiscal month period. Change Control and variance analysis data will be provided to PARS II by an upload of a Portable Document Format (PDF) of the appropriate monthly reports for the fiscal month period as well.

5. Update table in Section J, *List of Attachments*, Attachment E, *List of Applicable Directives (List B-DEAR 970.5204.78)*, paragraph (b) to reflect change from DOE Order 425.1C, CRD, *Start and Restart of Nuclear Facilities*, to DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities*. There is no cost or schedule impact for the implementation of DOE Order 425.1D, CRD, *Verification of Readiness to Start Up or Restart Nuclear Facilities*. The table in Attachment E, *List of Applicable Directives (List B-DEAR 970.5204.78)*, paragraph (b), is deleted in entirety and replaced in full with the following table.

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
06-AMD-050 (CCN 144548)	08/28/06	Office of Environmental Management Interim Guidance, "Safety Integration into Early Phases of Environmental Management Facility Design." (M084)	The letter is effective regardless of comment above at (b) (M175)
DOE/RL-88-21	10/01/96 12/21/99	Double-Shell Tank Unit Permit Application	Contract Clause C.6, Standard 7(e)(4)(vi)(B) & Contract Clause C.8, Specification 7, 7.2.1.4 and 7.2.2.1; Specification 8, 8.2.1.4 and 8.2.2.1 (M175)
DOE/EM-0093	12/96	Waste Acceptance Product Specifications for Vitrified High Level Waste Forms (WAPS) Revision 2 (M114)	Contract Clause C.8, Specification 1, 1.2.1.4 and 1.2.2.1.1 (M175)
DOE/RL-94-02	03/2009	Hanford Emergency Management Plan (Revision	Contract Clause C.6, Standard 4(j) and Standard

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
		3, March 2009) (M152)	7(e)(1) Table S7-1 (M175)
DOE M 140.1-1B, CRD	03/30/01	Interface with Defense Nuclear Facilities Safety Board.	Contract Clause C.4 (d) (M175)
DOE O 142.3 Change 1, CRD	2/28/08	Unclassified Foreign Visits and Assignments Program. (M047) (M124)	The order is effective regardless of comment above at (b) (M175)
DOE O 205.1A, CRD	12/4/06	Department of Energy Cyber Security Management . Refer to Note 6 (M090) (M175)	Section J, Attachment J, Item 13, Table 13-B (M175)
<del>DOE M 205.1-2</del>		DELETED (M175)	
DOE M 205.1-5, CRD	08/12/08	Cyber Security Process Requirements Manual. Refer to Note 3 (M175)	The manual is effective regardless of comment above at (b) (M175)
DOE M 205.1-6, CRD	12/23/08	Media Sanitization Manual. Refer to Note 3. (M175)	The manual is effective regardless of comment above at (b) (M175)
DOE M 205.1-7, CRD	01/05/09	Security Controls for Unclassified Systems Manual. Refer to Note 3. (M175)	The manual is effective regardless of comment above at (b) (M175)
DOE M 205.1-8, CRD	01/08//09	Cyber Security Incident Management Manual. Refer to Note 3. (M175)	The manual is effective regardless of comment above at (b) (M175)
DOE O 210.2, CRD	06/16/06	DOE Corporate Operating Experience Program (M077)	Contract Clause H.49 (M175)
DOE O 221.1A, CRD	04/19/08	Reporting Fraud, Waste, and Abuse to the Office of Inspector General. (M133)	Refer to Note 4 (M175)
DOE O 221.2A, CRD	02/25/08	Cooperation with the Office of Inspector General. (M133)	Refer to Note 4 (M175)
DOE O 226.1A, CRD	7/31/07	Implementation of Department of Energy Oversight Policy (M069) (M108)	Contract Clause H.46 (M175)
DOE O 231.1A	08/19/03	Environment, Safety, and Health Reporting (M033)	Contract Clause C.6, Standard 1(d)(5) and (6) (M175)
DOE M 231.1-		Environment, Safety and	Contract Clause C.6,

<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>TITLE</b>	<b>CROSS REFERENCE</b>
1A, Change 2, CRD	06/12/07	Health Reporting Manual (M175)	Standard 1(d)(6) and Standard 7(e)(1) Table S7-1 (M175)
DOE M 231.1-2, CRD	8/19/03	Occurrence Reporting and Processing of Operations Information (M057)	Contract Clause C.6, Standard 1(d)(5) and (6) (M175)
SCRD M 231.1-2	7/24/06	Occurrence Reporting and Processing of Operations Information Revision 1 (M057) (06-AMD-043) (M068)	Contract Clause C.6, Standard 1(d)(5) & (6) (M175)
HFID 232-1B	09/08/99	Notification and Reporting of Operations Information	Contract Clause C.6, Standard 4(j) and Contract Clause H.24(c) (M175)
DOE N 234.1, CRD	02/27/08	Reporting of Radioactive Sealed Sources (M130)	The notice is effective regardless of comment above at (b) (M175)
DOE O 241.1, CRD	08/17/98	Scientific and Technical Information Management	Contract Clause G.8(c) (M175)
DOE/RW-0333P	10/01/08	Quality Assurance Requirements and Description for the Civilian Radioactive Waste Management Program (QARD) – Revision 20 (M099) (M134)	Contract Clause C.6, Standard 2(a)(2)(v), Standard 5(d), and Standard 7(e)(3)(ii)(A) and Contract Clause C.8, Specification 1, 1.2.1.7, 1.2.2.1.1, and 1.3 (M175)
DOE O 350.1, Chg 3, CRD	02/23/10	Contractor Human Resource Management Program (M171) (M175)	Contract Clause H.37 (M175)
DOE/RW-0351	5/31/07	Waste Acceptance System Requirements Document (WASRD) - Revision 5 (M114)	Contract Clause C.6, Standard 2(a)(3)(vii)(E) and Standard 6(c)(2) and Contract Clause C.8, Specification 1, 1.2.1.3 and 1.2.2.1.1 (M175)
DOE O 413.3A, CRD	07/28/06	Program and Project Management for the Acquisition of Capital Assets (M055) (M076)	Contract Clause C.6, Standard 1, opening paragraph, (a), (b)(3) and (c)(1) (M175)
DOE M 413.3-1	03/28/03	Project Management for the Acquisition of Capital Assets (M055) Applicable to Standard 5 only (A164).	Contract Clause C.6, Standard 5(a)(6) and (k) (M175)



<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>TITLE</b>	<b>CROSS REFERENCE</b>
DOE O 414.1C, CRD	6/17/05	Quality Assurance (M066)	Contract Clause C.6, Standard 7(e)(3)(i) & (iv) (M175)
DOE O 425.1D, CRD	04/16/10	Verification of Readiness to Start Up or Restart Nuclear Facilities (M033) (A190)	Contract Clause C.6, Standard 5(a)(5), (c)(6), (e)(2), (f), and (g) (M175)
DOE O 435.1, Chg 1, CRD	08/28/01	Radioactive Waste Management.	Implementation of this DOE CRD using the graded approach; approved by 04-WEC-004; CCN 081173 satisfies the comment above at (b). (M130) (M175)
DOE M 435.1-1	07/09/99	Radioactive Waste Management Manual	Contract Clause C.8, Specification 2, 2.2.1.13, 2.2.2.23, & 2.4 (M175)
DOE M 441.1-1, CRD	03/07/08	Nuclear Material Packaging	The manual is effective regardless of comment above at (b) (M130) (M175)
DOE O 442.1A & Supplemented Rev. 1, CRD	06/06/01	Department of Energy Employee Concerns Program (A029)	The order is effective regardless of comment above at (b) (M175)
DOE M 442.1-1, CRD	11/16/06	Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety and Health (M095)	The manual is effective regardless of comment above at (b) (M175)
DOE M 450.4-1, CRD	11/01/06	Integrated Safety Management System Manual.	Attachment 1 to Contract Modification M097 – Contractor Requirements Document (M097) (M175)
DOE M 470.4-1, CRD	08/26/05	Safeguards and Security Program Planning and Management (M136) (M171)	Refer to Note 1 (M175)
DOE M 470.4-2A, CRD	07/23/09	Physical Protection	Contractor shall implement consistent with 08-ESQ-116 (CCN 181839) and confirmed by CCN – 208288) (A164) (M175)
DOE M 470.4-4A	01/16/09	Information Security Manual (M145)	Refer to Note 2 (M175)

DOCUMENT NUMBER	DATE	TITLE	CROSS REFERENCE
DOE O 471.3, CRD	4/9/03	Identifying and Protecting Official Use Only Information (M087)	Contract Clause H.50 (M175)
DOE M 471.3-1, CRD	4/9/03	Manual for Identifying and Protecting Official Use Only Information (M087)	Contract Clause H.50 (M175)
DOE O 475.1, CRD	12/10/04	Counterintelligence Program (M071)	Contract Clause C.6, Standard 8(c) (M175)
DOE/RW-0511, Volume I, Rev. 3	01/2007	Integrated Interface Control Document (IICD), High-Level Radioactive Waste and U.S. Department of Energy and Naval Spent Nuclear Fuel to the Civilian Radioactive Waste Management System (M114)	Contract Clause C.8, Specification 1, 1.2.1.10 and 1.2.2.1.1 (M175)
DOE O 551.1C, CRD	06/24/08	Official Foreign Travel. Refer to Note 5. (M141) (M175)	Contract Clause I.109 (M175)
RL/REG-2000-04	07/03	Industrial Health and Safety Oversight Plan (M033)	Contract Clause C.6, Standard 4(j) and Standard 7(e)(1)(ii) (M175)
<del>DOE/ORP-2000-06</del>		Deleted through Contract Modification M082 (M175)	
DOE STD 3009	1994	Preparation Guide for DOE Nonreactor Nuclear Facility Safety Analysis Reports (Change Notice 3, March 2006) (A029) (M152)	Contract Clause C.6, Standard 9, Table S9-1 (M175)
DOE O 5480.20A, Change 1, CRD	07/12/01	Personnel Selection, Qualification, and Training requirements for DOE Nuclear Facilities (M152)	Contract Clause C.3(f)(6) and Contract Clause C.6, Standard 5(j)(viii) (M175) (A190)
SCSP	5/9/06	Richland Regional Office Site Counterintelligence Support Plan Hanford Site - Bechtel National, Inc. (M071)	Contract Clause C.6, Standard 8(c) (M175)

**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.

**All other terms and conditions remain unchanged.**

**(End of Modification)**