



**Purpose of Modification:**

The purpose of this modification is to do the following:

1. Update Section B.2(a), *Obligation and Availability of Funds and Contract Value* to reflect current funding totals of the IEWO, insert Total Combined IEWO Funding by IEWO table and reflect nomenclature change of Inter-Office Work Order.
2. Update Section C.6, *Standard 1*, to incorporate the following changes:
  - a. Update Paragraph C.6 Standard 1 (a)(6) to incorporate correction of Calculated Estimate at Completion (CEAC) formula.
  - b. Update Paragraph C.6 Standard 1 (c)(1)(iii) to incorporate revised project risk data requirements in the Baseline Risk Plan.
  - c. Update Paragraph C.6 Standard 1 (c)(6) to add items , l, m, n, and o to the list of data provided in the Electronic Data deliverable.
  - d. Add paragraph C.6 Standard 1 (d)(8) regarding Preliminary Electronic Data files.
3. Update Section I, *Contract Clauses*, 1.85 FAR 52.244-2 Subcontracts (AUG 1998)-Alternate I (AUG 1998)
4. Update Section J, Attachment D – Small Business Subcontracting Plan approved May 28, 2009.

**Description of Modification:**

1. Update Section B.2, *Obligation and Availability of Funds and Contract Value* to update language reflecting current funding totals by IEWO. The change is as follows:

**FROM:**

At the Contractor's request, DOE has transferred work authority to SRNL totaling \$74,049,617 through Amendment #36 of this IWO.

**TO:**

At the Contractor's request, DOE has transferred work authority to SRNL, SRNS, and WSRC totaling \$74,351,117 through their respective amendments outlined in the table below. (A151)

The following table is inserted in its entirety into Section B.2(a):

**Total Combined IEWO Funding by IEWO (M151)**

	Through Amendment #	Total
Total IEWO M0SRLE60 Funding (SRNS/SRNL)	36	\$ 74,049,617.00
Total IEWO M0SRV00028 Funding (SRNS)	0	\$ 115,000.00
Total IEWO M0SRV00036 Funding (WSRC)	2	\$ 186,500.00
<b>Total IEWO Funding By Appropriation Code</b>		<b>\$74,351,117.00</b>

Update the total obligated amount to the contract. The change is as follows:

**FROM:**

Accordingly, the total obligated amount to the contract is \$5,399,185,441.15

**TO:**

Accordingly, the total obligated amount to the contract is \$5,399,486,941.15 (A151)

Update Section B.2(a) to reflect nomenclature change of Inter-Office Work Order. The change to paragraph 1 is as follows:

**FROM:**

An Inter-Office Work Order (IWO) has been established for....

**TO:**

An Inter-Entity Work Order (IEWO) has been established for...(A151)

As a result, all occurrences of the acronym IWO have been replaced with IEWO to reflect the nomenclature change.

2. Update Section C.6, *Standard 1*, to incorporate the following changes:

- a. Update Section C.6 Standard 1 (a)(6) to correct the Calculated Estimate at Completion (CEAC) formula.

The following correction is made to Section C.6 Standard 1 (a)(6)

**From:**

$CEAC = ACWP + (BCPs + BAC - BCWP)/(SPI * CPI)$

**To:**

$CEAC = ACWP + ((BCPs + BAC - BCWP)/((SPI + CPI)/2))$  (A151)

- b. Update Section C.6 Standard 1 (c)(1)(iii) to incorporate revised project risk data requirements in Baseline Risk Plan.

The following change is made to Section C.6 Standard 1 (c)(1)(iii):

**From:**

Management reserve identification shall be documented by facility.

**To:**

Project risks shall be identified by facility (A151).

- c. Update Section C.6 Standard 1 (d)(4) *Electronic Data* to Insert items, l, m, n and o.

The following change is made to Section C.6 Standard 1 (d)(4):

**From:**

Electronic Data: Earned value data provided via compact disc for the following: (a) Engineering Performance and Progress Report data files; (b) Quantity Unit Rate Report data files; (c) COBRA data files and reports; (d) baseline schedule; (e) current schedules; (f) Cost and Commitment Log; (g) Equipment Management System database; (h) Inception to Date Report for Permanent Plant Equipment Awards (i) Bechtel Estimating Tool Kit (BETK); (j) Commodity Curves; and (k) Special Purpose Charge Code Activity Log for all Not to Exceed Contracting Officer Authorizations. Earned value data is to be provided on the last Wednesday of the month following the data cutoff to the Contracting Officer and the Contracting Officer's Representative (Table C.5-1.1, Deliverable 1.12).

**To:**

Electronic Data: Earned value data provided via compact disc for the following:  
(a) Engineering Performance and Progress Report data files; (b) Quantity Unit Rate Report data files; (c) COBRA data files and reports; (d) baseline schedule; (e) current schedules; (f) Cost and Commitment Log; (g) Equipment Management System database; (h) Inception to Date Report for Permanent Plant Equipment Awards; (i) Bechtel Estimating Tool Kit (BETK); (j) Commodity Curves; (k) Special Purpose Charge Code Activity Log for all Not to Exceed Contracting Officer Authorizations ; (l) Earned Purchase Order Value (EPOV) data; (m) Engineering Job hour Variance Analysis Reports; (n) Work Package variance analyses, as available; and (o) Area and Project Review presentation packages. Earned value data is to be provided on the last Wednesday of the month following the data cutoff to the Contracting Officer and the Contracting Officer's Representative (Table C.5-1.1, Deliverable 1.12). (A151)

- d. Add paragraph C.6 Standard 1 (d)(8) regarding Preliminary Electronic Data files.

The following paragraph is added in full as Section C.6 Standard 1 (d)(8):

8. Preliminary Electronic Data Files: Each month the contractor shall provide preliminary earned value data by electronic submittal (either email or eRoom) upon availability of the "EAC Final" Cobra data, to support DOE preparation of the IPABS and PARS reporting to DOE-HQ. The following reports are to be provided in the preliminary submittal, in addition to being included in final form in the official Electronic Data submittal discussed in paragraph (d)(4): (a) Contract Performance Report (CPR)-Format 1; (b) CPR-Format 2; (c) Allocated CPR; and (d) EVMS Data Spreadsheet (A151).

3. Update Section I, *Contract Clauses*, I.85 FAR 52.244-2, paragraph (e)(2)-Subcontracts (AUG 1998) - Alternate I (AUG 1998) to reflect current consent thresholds applicable to new awards.

The following change is made to section I.85, paragraph (e)(2):

**From:**

- (2) A consent threshold is applicable to new awards ("Rev. 0") greater than \$25,000,000, effective January 22, 2008. (M107) (M118)

**To:**

- (2) A consent threshold is applicable to new awards (Rev. "0") according to the following time periods/values:

(i) From Contract award through June 25, 2007: NONE

(ii) From June 26, 2007 (**Mod M107**) through January 21, 2008: New awards greater than \$10,000,000.

(iii) From January 22, 2008: New awards greater than \$25,000,000. (**Mod M118**)

(NOTE: this value is a DOE Headquarters requirement.)

(iv) From July 15, 2009: For new awards greater than \$10,000,000 up to \$25,000,000, the ORP Contracting Officer has the option to select potential awards for further review and consent.

NOTE: ORP C.O. review response will be within one week of receipt of

the consent package; the >\$25,000,000 Headquarters mandatory consent threshold still remains in effect. **(A151)**

4. Update Section J, Attachment D – Small Business Subcontracting Plan.

The following will replace in full Section J, Attachment D:

**Waste Treatment Plant Project  
 SMALL BUSINESS SUBCONTRACTING PLAN**

1. Name of Prime Contractor: Bechtel National, Inc. (BNI)  
 Address: 2435 Stevens Center Place  
 Richland, WA 99354
2. Prime Contract Number: DE-AC27-01RV14136  
 Total Estimated Contract Cost (TECC): \$10,446,498,000  
 Contract Period of Performance: 12/11/2000 through 8/15/2019  
 Place of Performance: Hanford Site, Richland, WA

Description of Contract Requirements: Bechtel National, Inc. is leading a project to design, build and start up the world's largest complex of waste treatment facilities. The plant will use a process known as vitrification to immobilize some of the 53 million gallons of chemical and radioactive waste now stored in Hanford's 177 aging tanks. The project team is divided into Engineering, Construction, Operations and Business areas.

In execution of BNI's responsibilities under the contract for the Waste Treatment Plant Project, BNI will comply with Public Law 95-507, FAR 52.219-8 and 52.219-9 and DEAR 952.219-9 to maximize the utilization of small business concerns for purchasing goods and services. In compliance with DOE Acquisition Letter 2005-06, dated 3/11/05, the subcontracting base excludes subcontracts involving performance outside of the U.S. and purchases from Bechtel Corporation and its affiliates. Data sources will be the Bechtel Procurement System (BPS), the Beard System (SAM) and the Bechtel Accounts Payable System.

The following plan provides our Small Business Subcontracting Plan as a percent of the total planned subcontracting effort and the subcontracting effort available:

Total estimated dollars available for subcontracting: \$4,754,549,000

Category	Subcontracting Planned Dollar Amount	Percentage of Total Estimated Subcontracting Effort
Total planned and available for subcontracting to SB concerns	\$1,920,837,796	40.4%
Total planned and available for subcontracting to SDB concerns (included in SB concern numbers)	\$ 166,409,215	3.5%
Total planned and available for subcontracting to WOSB concerns (included in SB concern numbers)	\$ 190,181,960	4.0%
Total planned and available for subcontracting to HUBZone SB concerns (included in SB concern numbers)	\$ 76,072,784	1.6%
Total planned and available for subcontracting to Native American Owned business concerns (included in SB concern numbers)	\$ 47,545,490	1.0%
Total planned and available for subcontracting to Veteran-owned SB concerns (included in SB concern numbers)	\$ 237,727,450	5.0%
Total planned and available for subcontracting to Service-Disabled Veteran-owned SB concerns (included in SB concern numbers)	\$ 7,131,824	0.15%
Total dollars for subcontracting to Washington and Oregon based business (includes large and small business)	\$1,664,092,150	35.0%

**Waste Treatment Plant Project  
 SMALL BUSINESS SUBCONTRACTING PLAN**

3. Potential Subcontracting Opportunities for Small Business  
 Items to be subcontracted under this contract and the types of business supplying them are:

Subcontracting Items	Large Business	Small Business	Disadvantaged Small Business	Woman-Owned Small Business	HUBZone Small Business	Veteran-Owned Small Business	Service Disabled Veteran-Owned
<b>Construction</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<i>Roofing/Siding</i>	x	x	x			x	
<i>Architectural Specialties/Casework</i>	x	x	x	x		x	
<i>NDE/other Testing</i>	x	x					
<i>Equipment/Piping Insulation</i>	x	x	x	x			
<i>Surfacing/Paving</i>	x						
<i>Surveying</i>	x	x	x	x	x	x	
<i>Elevators</i>	x						
<i>Gas Systems</i>	x						
<i>Transportation/Freight</i>	x	x					
<i>Misc Construction Services</i>	x	x	x	x	x	x	x
<i>Misc Construction Equip</i>	x	x	x	x	x	x	x
<b>Pipe/Valves/Fittings</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Civil/Structural/Architectural</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	
<i>Concrete Anchors</i>	x	x		x	x		
<i>Fabricated Metal Embeds</i>	x						
<b>Electrical</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	
<i>Fiber Optic/Power Cable</i>	x	x	x	x	x	x	
<i>ITS Fused Panels</i>	x						
<i>Through Wall Lighting</i>	x	x				x	
<b>Instrumentation &amp; Controls</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	
<i>Laboratory Equipment</i>	x	x	x	x	x	x	
<i>Flow Instruments</i>	x	x					
<i>Process Gauges</i>	x	x					
<i>Instrument Hoses</i>	x	x	x	x			
<i>Transmitters</i>	x	x					
<i>Cesium/Air/Seismic/Contamination Monitors</i>	x	x		x		x	
<b>Jumpers/Melter</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	
<i>Rigid Process Jumpers/Fab</i>	x						
<i>Pulse Pot Frames</i>	x						
<i>Gaskets/Connectors</i>	x	x	x	x		x	
<i>Heat Exchangers</i>	x	x	x	x		x	
<b>Mechanical/HVAC</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<i>Cranes/Lift Beams</i>	x	x					
<i>Pressure Vessels/Pumps</i>	x	x	x	x	x	x	x
<i>Metal Fabrication</i>	x	x	x	x	x	x	x
<i>Piping Racks/Specialty Items</i>	x	x		x	x	x	x
<i>Chiller Plant/Cooling Tower</i>	x	x	x	x	x	x	x
<i>Bulges/Absorbers/Tanks</i>	x	x	x	x	x	x	x
<i>HEPA/Inline Filters</i>	x	x		x		x	
<i>Demisters/Humidifiers</i>	x	x					
<i>Expansion Joints/Compressors</i>	x	x		x			
<i>Chemicals/Storage</i>	x	x	x			x	x
<b>Technical/Engineering Services &amp; Office Products</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>

## Waste Treatment Plant Project SMALL BUSINESS SUBCONTRACTING PLAN

### 4. Method Used to Develop Subcontracting Goals

The method used to develop the subcontracting goals for small business (SB), small disadvantaged business (SDB), woman-owned small business (WOSB), HUBZone small business (HUBZone), veteran-owned small business (VOSB) and service-disabled veteran-owned small business (SDVOSB) concerns is described as follows:

To establish our subcontracting goals and commitments, we gathered available WTP information, forecast probable acquisition needs, and analyzed project estimates. We also used our collective DOE experience to determine potential requirements and contingencies. Our subcontracting goals are both realistic and attainable. The goals will be reached by:

- Utilizing acquisition procedures to ensure small business concerns participation.
- Requiring the inclusion of appropriate small business concerns participation as a proposal/bid requirement in future procurements.

### 5. Methods Used to Identify Potential Sources for Solicitation

The method used to identify potential sources for solicitation purposes is as follows:

- Utilize the Central Contractor Registration (CCR) Dynamic Small Business Search Database formerly known as the U.S. Small Business Administration's PRO-Net supplier database.
- Utilize Bechtel's Global Supplier Information System. (GSIS)
- Coordinate with other DOE Hanford Site Prime Contractors to seek information on small, small disadvantaged, woman-owned, HUBZone, veteran-owned and service disabled veteran owned small businesses
- Coordinate with the State and Regional Small Business Administration representatives and resources.
- Participate in various regional small, small disadvantaged, woman-owned, HUBZone, veteran-owned and service disabled veteran owned small businesses trade associations.
- Sponsor and participate in trade fairs to inform small, small disadvantaged, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small businesses about upcoming procurement opportunities.

### 6. Indirect Costs

Indirect costs are ( ) are not (X) included in the above goals. If indirect costs have been included, describe the method used to determine the proportionate share of such costs to be allocated as subcontracts to small, small disadvantaged, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small business concerns.

### 7. Administrator of Small Business Subcontracting Plan

The following individual will administer the subcontracting program:

Name: Scott Harrison, Manager, Procurement & Subcontracts  
Address: 2435 Stevens Center Place  
Richland, WA 99354  
Telephone: (509) 371-2931  
Email: swharris@bechtel.com

This individual's specific duties as they relate to the firm's subcontracting program are as follows. General overall responsibility for review and monitoring execution of the plan including but not limited to:

- Ensure that source lists of potential subcontracts for which goals are established herein are maintained.
- Ensure that procurement packages are structured to permit small, small disadvantaged business, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small business concerns to participate to the maximum extent possible.
- When the number of prospective sources is not adequate, seek out other SB concerns through the use of mass media tools such as internet bulletin boards;
- Mentor SB's currently under subcontract, enhancing their ability to provide timely, cost-effective, quality services;
- Attend SB training, monitor program changes to ensure compliance - review, revise, amend applicable procedures;
- Advise other personnel of the purposes of this program and ensure adequate support by all concerned.
- Maintain records showing Bechtel's performance compared with the goals established herein and submit information on the forms specified in the contract in a timely manner.
- Established liaison with the Small Business Administration and representatives to obtain assistance in finding competent small, small disadvantaged business, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small business concerns for this and future work.
- Coordinate with other Hanford Site Prime Contractors to secure data on small, small disadvantaged, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small businesses and their capabilities.
- Report to the WTP Project Director on the progress made towards meeting the Small Business Subcontract Plan goals and identification of action items to continuously improve on the plan.



## Waste Treatment Plant Project SMALL BUSINESS SUBCONTRACTING PLAN

### 8. Implementation

The following efforts will be made to assure that small, small disadvantaged, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small business concerns will have an equitable opportunity to compete for subcontracts:

- (a) Identify known potential sources as large concerns, small business, small disadvantaged business, woman-owned small business, HUBZone small business, veteran-owned small business, and service disabled veteran-owned small business concerns.
- (b) Include small, small disadvantaged, woman-owned, HUBZone, veteran-owned, and service disabled veteran-owned small business concerns in Request for Proposals where such concerns are known to exist and are qualified to supply the item(s) or service being procured.
- (c) Assist all small business concerns in providing management counseling on request.
- (d) Provide sufficient bid solicitation time for preparation of proposals, quantities, specifications, and delivery schedules to facilitate participation.
- (e) Participate in small business, small disadvantaged business, woman-owned business, HUBZone, veteran-owned small business, and service disabled veteran-owned small business trade fairs and conferences. Provide promotional activities, which increase community awareness of subcontracting opportunities.
- (f) Prepare work scopes to develop opportunities, which can be bid and executed by all small business concerns.
- (g) Maintain good working relationships with Small Business Administration representatives to obtain assistance and coordination in finding capable SB's;

### 9. Subcontract Flow-Down

The clause entitled "Utilization of Small Business Concerns" will be included in all subcontracts that offer further subcontracting opportunities and all subcontractors (except small business concerns) who receive subcontracts in excess of \$550,000 (*\$1,000,000 for construction of any public facility*) will be required to adopt a similar plan.

### 10. Reports, Studies, and Surveys

The Offeror/Subcontractor will cooperate in any studies or surveys as may be required; submit periodic reports in order to allow the Government to determine the extent of compliance with the subcontracting plan; submit the "Individual Subcontracting Report" (ISR), and "Summary Subcontracting Report" (SSR) in accordance with the instructions on the Electronic Subcontracting Reporting System (eSRS) website at [www.esrs.gov](http://www.esrs.gov); and ensure that its subcontractors agree to submit reports online utilizing eSRS.

ISR data must be submitted online at [www.esrs.gov](http://www.esrs.gov) on a semi-annual basis on or before April 30 and October 31. SSR data must be submitted online at [www.esrs.gov](http://www.esrs.gov) on or before October 31.

### 11. Records

The types of records that will be maintained to demonstrate the procedures adopted to ensure compliance with the requirements and goals of the Small Business Subcontracting Plan include:

- a. Source lists (e.g., CCR's Dynamic Small Business Search database, formerly PRO-Net), guides, and other data that identify small business, small disadvantaged business, woman-owned small business, HUBZone small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
- b. Organizations contacted in an attempt to locate sources that are small business, small disadvantaged business, woman-owned small business, HUBZone small business, veteran-owned small business or service-disabled veteran-owned small business concerns.
- c. Records on each subcontract solicitation resulting in an award of more than \$ 100,000, indicating:
  - Whether small business concerns were solicited and, if not, why not;
  - Whether small disadvantaged business concerns were solicited and, if not, why not;
  - Whether woman-owned small business concerns were solicited and, if not, why not;
  - Whether HUBZone small business concerns were solicited and, if not, why not;
  - Whether Native-American small business concerns were solicited and, if not, why not;
  - Whether veteran-owned small business concerns were solicited and, if not, why not;
  - Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not; and
  - If applicable, the reason award was not made to a small business concern.

**Waste Treatment Plant Project**  
**SMALL BUSINESS SUBCONTRACTING PLAN**

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- d. Records of any outreach efforts to contact:
- Trade associations
  - Business development organizations
  - Conferences and trade fairs to locate small business, small disadvantaged business, woman-owned small business, HUBZone small business, veteran-owned small business and service-disabled veteran-owned small business sources.
- e. Records of internal guidance and encouragement provided to acquisition personnel through:
- Workshops, seminars, training, etc.
  - Monitoring performance to evaluate compliance with the program's requirements.
- f. On a contract-by-contract basis, records to support award data submitted, including the name, address, and business size of each subcontractor.

Signed: *T. Feigenbaum* Date: 05/06/09

Typed Name: T. Feigenbaum

Company: Bechtel National, Inc., Waste Treatment Plant Project

Title: Project Director

Plan Accepted by: *[Signature]*  
(DOE ORF Contracting Officer)

Date: 5/28/09

5. All other terms and conditions remain unchanged. Bechtel National, Inc. is responsible for only those changes outlined in this SF30 modification.
6. Contractor's Statement of Release: In consideration of the modification agreed to herein as complete equitable adjustment for the changes, 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.