SECTION C: DRAFT CONTRACT

Following is a draft of the contract contemplated as a result of this solicitation. Prospective offerors are reminded to review the draft contract to ensure they are prepared to comply. The draft contract will be updated to reflect the final agreement reached based on the proposal submitted and discussions, if any, that are held.

CH2M HILL

Plateau Remediation Company
Mail Stop H8-41
2420 Stevens Center Place
P.O. Box 1600
Richland, WA 99352

Contractor:

<< Enter Contractor Name >>

<< Enter Street Address >>

<< Enter Street Address >>

<< Enter City, State, Zip >>

Contract Specialist: Annette Winzent-Dichard

Phone Number: 509-376-5504

Contractor Contact: << Enter Name >>

Phone Number: << Enter Phone Number >>

Start Date: 10/1/2014

Contract Type: Firm Fixed Price (FFP)

Contract Value: $ TBD

End Date: << Click here to enter a date >>

FOB Point: << Enter FOB Point >>

Payment Terms: Net 30

_____ _____

CH2M HILL Plateau Remediation Company | Contractor Authorized Signature

_____ _____

Printed Name/Title | Printed Name/Title

_____ _____ _____ _____

Date Signed | Phone | Date Signed | Phone

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Part I

Statement of Work for

Sludge Transport and Storage Container (STSC) Vessels

Revision 0

April 29, 2014

Prepared by: Gregory A. Leshikar

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PART I – STATEMENT OF WORK

1.0 INTRODUCTION / BACKGROUND

As a prime contractor to the U.S. Department of Energy (DOE), CH2M HILL Plateau Remediation Company (CHPRC) is focusing on the safe, environmental cleanup of the Central Plateau of DOE's Hanford Site. CHPRC's scope of work includes treatment and disposal of various radioactive waste streams, groundwater, management of spent nuclear fuel, disposal or disposition of nuclear materials, and non-reactor nuclear facilities, and environmental remediation activities currently funded through DOE's Office of Environmental Management.

To support the DOE's goal of moving nuclear material away from the Columbia River, the CHPRC Sludge Treatment Project (STP) is designing and installing systems to retrieve radioactive sludge that has been collected in engineered containers located underwater in the 105K West Basin. The sludge is composed primarily of spent nuclear fuel that degraded during its lengthy underwater storage period due to damage to the Zircaloy cladding sustained during reactor discharge and the subsequent corrosion of the metallic uranium. The K basin sludge will be pumped to an Annex facility, currently under construction, where it will be loaded into Sludge Transport and Storage Containers (STSCs) using a process of fill and decant cycles to achieve the optimum loading. The STSCs will then be transported in an existing DOT Type A shipping cask to the 221-T Facility (T Plant) on the Central Plateau for interim storage. The purpose of this Statement of Work (SOW) is to procure the STSC vessels and their associated lift fixtures.

2.0 DESCRIPTION OF WORK – GENERAL

CHPRC (the Buyer) requires a Contractor (also referred to as the Manufacturer) to design, analyze, procure materials, fabricate, examine, inspect, test, certify, package, and deliver STSC pressure vessels and lift fixtures for the STP in accordance with the drawings, specifications, and the requirements identified in this statement of work. This work shall be performed at the Contractor's facilities.

The STSCs have been classified by CHPRC as nuclear safety significant equipment and are also ASME Boiler & Pressure Vessel Code Section VIII pressure vessels. The Manufacturer must hold an ASME "U" Certificate of Authorization for the location where the STSC vessels would be constructed and maintain a documented Quality Assurance Program and implementing procedures that meet the requirements of ASME NQA-1-2008 with 2009 Addenda.

3.0 DESCRIPTION OF WORK – SPECIFIC

3.1 Task Description

The task is delivery of STSC vessels and lift fixtures in accordance with specification PRC-STP-00422; drawings H-1-92550, H-2-836158, and H-2-836159; and the requirements of this SOW. The work in this SOW is comprised of the following four major sub-tasks.

3.1.1 Task 1 – Design/Analysis of STSC Vessel and Production of First Article STSC Vessel, STSC Lift Fixtures and STSC Maintenance Lift Fixture

Task 1 contains the following scope:

A. Produce ASME Section VIII pressure vessel design and code calculations for the STSC Vessel. See drawing H-1-92550 and specification PRC-STP-00422.

B. Produce one (1) first-article STSC KE/KW Vessel, H-1-92550, Item -020

C. Produce two (2) each STSC Lift Fixture, H-2-836158, Item -010

D. Produce one (1) each STSC Maintenance Lift Fixture, H-2-836159, Item -010

3.1.2 Task 2 – Produce twelve (12) STSC Vessels (first half of base quantity)

Task 2 contains the following scope:

A. Produce five (5) each STSC Settler Vessel, H-1-92550, Item -010

B. Produce seven (7) each STSC KE/KW Vessel, H-1-92550, Item -020

3.1.3 Task 3 – Produce eleven (11) STSC Vessels (second half of base quantity)

Task 3 contains the following scope:

A. Produce four (4) each STSC Settler Vessel, H-1-92550, Item -010

B. Produce seven (7) each STSC KE/KW Vessel, H-1-92550, Item -020

3.1.4 Task 4 – Produce additional optional STSC Vessels as-needed (up to six)

Task 4 contains the following scope:

A. The amount and type of STSC Vessels to be produced (if any) under this sub-task will be determined by the Buyer on an as-needed basis. This is due to uncertainty in how many STSCs will be needed to complete the sludge retrieval.

3.2 Acceptance Criteria

Acceptance criteria are identified on the drawings, specification, and in Attachment 2 to this SOW.

3.3 Special Requirements

The STSC maintenance lift fixture load cell (H-2-836159, Item 7, part number MSI-6260CS-25TNSNH) shall be procured with an additional battery and battery charger, and with a MSI-9750 portable digital indicator. Hanford procurement quality clause B66 (see section 6.3.14) shall be applied to the battery charger only. The load cell shall be calibrated prior to use. Proper functionality of the load cell and portable digital indicator pairing shall be checked. A check of the load cell using a test weight shall be performed to verify it accurately measures to within ± 50 lb of the actual weight.

3.4 Organizational Interfaces

The Contractor shall interface with various CHPRC (and other) organizations through the Contract Specialist (or designee) as required. The Buyer Technical Representative (BTR) (Greg Leshikar, phone 509-373-4434, or designee) will act as the technical point of contact.

3.5 Work Not Included

The interfacing connectors, instrumentation, and other appurtenances to be installed on the STSC vessel nozzles are not within the scope of this SOW.

3.6 Buyer Furnished Materials and Equipment

3.7 The Buyer will furnish a test fitting to aid the manufacturer in locating the fill tube assembly (H-1-92550-070) male weld adapter (H-1-92550, Item 52) concentrically and at the proper elevation beneath nozzle A (sludge inlet). See PRC-STP-00422, Section 3.3.Site Coordination Requirements

N/A

4.0 TECHNICAL REQUIREMENTS

All Work shall be performed in strict accordance with CHPRC design criteria, codes and standards, specifications, drawings, exhibits, and any other documents which by reference are made a part of this Statement of Work. If clarification is required during performance of this work scope, contact the BTR for resolution and/or submit a Request for Clarification (RCI) form A-6004-833.

4.1 Specifications

The latest version of the specifications listed below, are hereby incorporated into, and made a part of this SOW.

Specification No.	Title
PRC-STP-00422	Sludge Transport and Storage Container (STSC) Design and Fabrication Specification for the Sludge Treatment Project Engineered Container Retrieval and Transfer System

4.2 Drawings

The latest version of the drawings listed below, are hereby incorporated into, and made a part of this SOW. CHPRC will provide AutoCad files of the drawings to the Contractor

Drawing No.	Title
H-1-92550, Sheets 1-13	STP ECRTS Transport System STSC Vessel
H-2-836158, Sheets 1-2	STP ECRTS Transport System STSC Lift Fixture
H-2-836159, Sheets 1-3	STP ECRTS Transport System STSC Maintenance Lift Fixture

4.3 Design Changes

Drawing and specification changes will be made using the Design Change Notice (DCN) and Change Order process described below:

A. Changes to the Buyer's design media will be made by the Buyer via a DCN. Approval of the DCN must be obtained prior to implementation of the change. The DCN will be provided to the Contractor via a Change Order detailing the change, justification, and basis for cost (if any). Evidence of all design changes shall be documented in the fabrication traveler to demonstrate changes have been implemented.

B. The BTR will collect drawing changes made during the fabrication process (documented on approved DCNs and Change Orders) and issue revised H-1 drawings to the Contractor prior to labeling. Labeling is to show the H-1 drawing revision number that incorporates all changes made to the item during fabrication. Final acceptance by the Buyer requires that the actual configuration of each item matches the approved drawing and revision number.

4.4 Exhibits

The Forms shown in the following table are hereby incorporated into and made a part of this SOW.

Exhibit No.	Title
A- Form A-6004-757	Contractor Document Submittal[1]
B- Form A-6004-833	Request for Clarification/Information (RCI)[2]

[1]See Part IV Section 1.7 for additional information
[2]See Part IV Section 1.10 for additional information

5.0 PERSONNEL REQUIREMENTS

5.1 Training and Qualification

The Contractor is expected to provide appropriately trained and qualified staff to perform the type of work specified. Personnel producing the STSC pressure vessels must be trained and qualified to the requirements of ASME Section VIII, Division 1.

A. Contractor shall maintain training records for their personnel.

B. Contractor is responsible for outsourced contracted services to ensure appropriate training and qualifications have been met to meet the requirements of this SOW and the Codes and Standards invoked.

6.0 ENVIRONMENTAL, SAFETY, HEALTH, AND QUALITY REQUIREMENTS

The Contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The Contractor shall comply with, and assist CHPRC in complying with Environmental, Safety, Health, and Quality (ESH&Q) requirements of all applicable laws, regulations and directives.

The Contractor shall flow down ESH&Q requirements to the lowest tier subcontractor performing Work.

6.1 Safety Requirements

Contractor shall follow their facility specific safety requirements in execution of this contract.

6.2 Quality Assurance and Control

The Manufacturer shall perform work under direction of a Quality Assurance Program in accordance with the following requirements:

A. The Manufacturer's Quality Assurance Program shall be compliant with the requirements of ASME Section VIII, Division 1.

B. The Manufacturer shall hold an ASME Certificate of Authorization with the U Designator.

C. The Manufacturer shall contract an accredited Authorized Inspection Agency meeting the requirements of ASME QAI-1 Part 5 to perform code-required vessel inspection duties. Credentials/qualifications of the Authorized Inspection Agency and designated Authorized Inspectors shall be submitted for Buyer review and approval.

D. Manufacturer shall maintain a documented Quality Assurance Program and implementing procedures that meet the requirements of ASME NQA-1-2008, "Quality Assurance Requirements for Nuclear Facility Application," with 2009 Addenda, as specified in Table 6.2

Table 6.2 ASME NQA-1-2008 Part 1 Requirements
Safety Significant/Quality Level-2 (SS/QL-2) ("Important to Safety")

Section	Basic Requirement	Application
1.	Organization	All
2.	Quality Assurance Program	All except 303.3 and 305
3.	Design Control	100, 400, 402, 500 & 501
4.	Procurement Document Control	All except 207
5.	Instructions, Procedures and Drawings	All
6.	Document Control	All
7.	Control of Purchased Items and Services	All except 300, 506 & 700
8.	Identification and Control of Items	All
9.	Control of Process	All except 203
10.	Inspection	All
11.	Test Control	All except 200(c), 400, and 602
12.	Control of Measuring and Test Equipment	All except 303.4, 303.5, and 402
13.	Handling, Storage and Shipping	100, 300, 400 & 600
14.	Inspection, Test and Operating Status	All
15.	Control of Nonconforming Items	All except 403 and 404
16.	Corrective Action	All

Table 6.2 ASME NQA-1-2008 Part 1 Requirements
Safety Significant/Quality Level-2 (SS/QL-2) ("Important to Safety")

Section	Basic Requirement	Application
17.	Quality Assurance Records	All except 401, 500, 600, 700, & 800
18.	Audits	All

6.2.1 Safety Significant/Quality Level 2 Items

Nuclear safety classification and Quality Level (QL) of each item is identified on the left side of the parts list on the applicable drawing. The STSC vessels, as a whole, are safety significant QL 2 items, and thus the Contractor's Quality Assurance Program will require evaluation by the Buyer and placement on the Buyer's Evaluated Supplier List (ESL) in accordance with ASME NQA-1. Suppliers providing QL 2 items to the Contractor are required to have their quality program evaluated and placed on the Contractor's ESL or the component may be procured utilizing a commercial grade dedication (CGD) process as described in Section 6.2.3.

6.2.2 Safety Significant/Quality Level 2 Item Critical Characteristics

Attachment 2 to this SOW provides the table of critical characteristics for acceptance of STSC vessel safety significant components. The safety function, performance criteria, and acceptance criteria for each SS component, and the inspection/test method(s) expected to be employed to verify each critical characteristic have been listed. The data package(s) (see 7.2.1) for each STSC vessel or shipping lot shall contain the evidence demonstrating that all acceptance criteria have been met.

6.2.3 Commercial Grade Dedication

For procurement of safety significant QL2 items from suppliers who cannot be placed on the Contractor's ESL, the component may be procured utilizing one of the following commercial grade item dedication processes:

A. With CHPRC concurrence, the Contractor may dedicate items using their approved CGD program, providing the Contractor is on the Buyer's ESL for ASME NQA-1 Section 7, requirement 700, for performing CGD. CGD plans shall be submitted for CHPRC approval prior to item procurement. Completed CGD shall be submitted for CHPRC approval.

B. Otherwise, CHPRC's CGD process as described in PRC-PRO-EN-40189, *Commercial Grade Dedication Process* shall be used. CHPRC will provide to the Contractor the Commercial Grade Item or Service Dedication Form (Form A-6005-692) specifying the functional requirements important to safety, critical characteristics, acceptance methods and dedication/acceptance process. The Contractor shall prepare and submit for CHPRC approval a CGD plan prior to item procurement to describe how the specified dedication/acceptance processes (commercial grade survey, source verification, or special tests, inspections, and verifications) will be executed using their inspection and test personnel. The BTR shall be informed at least 5 working days prior to performance of

dedication/acceptance processes to allow opportunity for CHPRC QA to witness. CGD results shall be submitted for approval.

6.3 Quality Assurance/Inspection Requirements

The Contractor shall comply with the Hanford Site Procurement Quality Clauses listed in Table 6.3.

Table 6.3 Procurement Quality Clause List

QA Clause	Description
B01	Quality Assurance Program Submittal and Pre-Award Survey
B07	Certified Quality Program
B13	Fabrication/Inspection/Test Plan
B15	Supplier Use of Commercial-Off-the-Shelf Software
B16	Source Inspection
B19	First Article Inspection – Source
B22	Nonconformance Documentation and Reporting
B25	Certified Weld Inspector
B28	Welding Procedures and Qualifications
B31	Nondestructive Examination Process
B49	Certified Material Test Report
B52	Inspection and Test Reports
B61	Certificate of Calibration
B66	Nationally Recognized Testing Laboratory (NRTL) Listed or Labeled Components in a System
B76	Procurement of Potentially Suspect or Counterfeit Items
B79	Certificate of Conformance
B85	Packaging/Shipping Procedures

6.3.1 Quality Assurance Program Submittal and Pre-Award Survey (B01)

The Offeror shall submit the quality assurance program manual that addresses the quality assurance programs identified herein. The formal submittal documentation (cover letter) shall identify the specific bid request and project.

If the Offeror's manual has been previously approved by the Buyer but is not current, the manual shall be updated and resubmitted to the Buyer with the proposal. If the manual has not changed since its previous approval by the Buyer, a statement to this effect shall be submitted with the proposal. The Buyer shall evaluate the Offeror’s Quality Assurance program prior to contract award. This evaluation may include a survey of quality program implementation at the Offeror’s facilities. If a program change is required, it will be identified to the Offeror prior to contract award. A deficient or inadequate program may be used as the basis to deny award of this contract.

6.3.2 Certified Quality Program (B07)

The Supplier shall maintain the certified quality program (e.g., ASME, ISO, NIST, Federal Regulations) specified in the Purchase Order. A copy of the Supplier's current quality assurance program manual and Authorizing Certificate shall be submitted to the Buyer with the Proposal. The Certificate shall remain current for the duration of the Purchase Order/Contract Order. The Supplier shall notify the Buyer of Certificate cancellation or revocation.

6.3.3 Fabrication/Inspection/Test Plan (B13)

The Supplier shall prepare a detailed fabrication/inspection/test plan (Traveler) for insertion of Buyer-designated source inspection/witness notification points. Prior to starting work, the plan shall be submitted to the Buyer for review, approval and insertion of Buyer's designated inspection/witness notification points unless otherwise specified in procurement documents. The plan shall include the following:

1. Traceability to Buyer's Purchase Order/ Contract Order document number.
2. Description of items to be fabricated/tested/inspected (e.g., components, subassemblies, assemblies).
3. Sequential fabrication/process steps.
4. Sequential points for inspection and tests to be performed during fabrication/processing.
5. Method/procedure to be used for performance of inspection/test/fabrication, including:
    a. Each characteristic or attribute to be evaluated,
    b. The report form to be utilized,
    c. Specific Codes/Standard requirements as specified by procurement documents i.e., ASME, ASTM, ANSI, etc., and
    d. Sampling plans for final characteristics (e.g., AQL, lot size, inspection level), where applicable.

Subsequent revisions/modifications to the fabrication/inspection/test plan document require review and approval by the Buyer prior to implementation of the change. When subcontracting any portion of this Purchase Order/Contract Order, the Supplier is required to invoke the applicable quality assurance program requirements on the subcontractor.

6.3.4 Supplier Use of Commercial-Off-the-Shelf Software (B15)

The Supplier shall submit the following documentation for all engineering analysis/design, data analysis/reduction, and engineering/environmental modeling commercial-off-the-shelf (COTS) software[1] (application) used in the performance of work listed in the procurement documents.

1. Description of the COTS software, including:
    a. Manufacture’s name and address,
    b. COTS application’s title and version identifier
    c. Operating system and hardware platform that will be used,

d. Manufacture's Technical Specifications or other published description of the COTS application's theoretical basis of operation or conceptual/mathematical models.

2. Standard data set(s) used to verify operation of the COTS application.

   a. Data sets shall cover each function or mode of operation which will be used during the performance of the work listed in the procurement documents.

   b. When the COTS application's range of operation cannot be verified by a single data set, the Supplier shall submit, as a minimum, data sets covering the upper and lower thirds of its range.

3. The results expected from the standard data set(s) including the basis for accepting the standard data expected results, such as:

   - Comparison with hand calculations,
   - Comparison with calculations using comparable proven problems,
   - Comparison with information from published data,
   - Comparisons with other validated computer programs, or
   - Comparisons with experiments and tests.

4. The output generated by the COTS application using the standard data set(s). This output shall include a statement warranting that the output accurately reflects the use of the standard data set(s) with the COTS application. The statement shall be on the Supplier's letterhead and signed, with printed name, by an authorized agent of the Supplier.

When required by the procurement documents verification of the COTS application operation using the submitted standard data set(s) shall be witnessed a Buyer's representative.

One copy of the documentation, unless otherwise specified, shall be submitted for review and approval.

[1]COTS software refers to an existing application which will be implemented on a standard operating system without the need for modification of its executable/object code.

6.3.5 Source Inspection (B16)

All items are subject to inspection at the Supplier's facility or Supplier's subcontractor's facility by a Buyer's quality assurance/quality control representative. Supplier shall notify Buyer at least 5 working days in advance of the time items will reach any inspection hold point established by the Buyer in the procurement package.

[At a minimum, source inspection of the STSC vessels and lift fixtures, and their associated quality records, will be performed by the Buyer's Acquisition Verification Services (AVS) at the Manufacturer's facility prior to shipment. Final acceptance will be by AVS upon delivery to the Hanford Site. Other source inspections or surveillances will be at the Buyer's discretion.]

6.3.6 First Article Inspection-Source (B19)

The Supplier shall schedule a first article inspection for the Buyer at the Supplier's plant to demonstrate compliance with all Purchase Order/Contract Order requirements. A comparable inspection shall be scheduled at production change points or for specified articles following major tooling, process, or design changes, or subsequent to evident quality degradation. For a

first article inspection, the Supplier shall present or demonstrate the following to the Buyer as a minimum:

1. Drawings, specifications, and other documentation used for manufacture, inspection, and test of the first article.
2. Objective evidence of inspection acceptance of tooling, processes, and test equipment used to produce the first article.
3. Objective evidence of the Supplier's inspection and acceptance of the first article.
4. Compliance with quality program requirements of this Purchase Order/Contract Order.
5. Other applicable documentation, data, demonstrations, tests, or evidence of conformance of the first article to requirements of this Purchase Order/Contract Order.

The Supplier shall notify the Buyer at least five working days before the first article is available for inspection.

6.3.7 Nonconformance Documentation and Reporting (B22)

All nonconformances identified at the Supplier's facility with a proposed disposition of "Accept" or "Repair" shall be approved by the Buyer before any corrective action is taken by the Supplier on the nonconformance.

Accept: A disposition that a nonconforming item will satisfactorily perform its intended function without repair or rework.

Repair: A disposition requiring the processing of a nonconforming item so that its characteristics meet the requirements listed in the disposition statement of the nonconformance report.

Nonconformances shall be documented by the Supplier on the Supplier's nonconformance form. After documenting the nonconformance, disposition and technical justification, the form shall be forwarded to the Buyer.

After the recommended disposition has been evaluated by the Buyer, the form shall be returned to the Supplier with a disposition of approval or rejection. The Supplier may take corrective action on the nonconformance only after the form is approved.

The Supplier's nonconformance form shall be shipped with the affected item.

6.3.8 Certified Weld Inspector (B25)

Supplier personnel performing weld inspections shall be certified as a Certified Weld Inspector (CWI) in accordance with the requirements specified in AWS QC-1.

The following documentation shall be submitted prior to the start of fabrication:

1. Current AWS CWI certificates.
2. Current and valid visual acuity examination. The examination must be performed annually.
3. Visual weld inspection procedures.

Approval shall be obtained from the Buyer prior to start of fabrication.

6.3.9 Welding Procedures and Qualifications (B28)

Welding procedures and personnel shall be qualified in accordance with the applicable AWS or ASME specifications as specified in the Purchase Order/Contract order. The Supplier shall submit copies of all welding procedures, Procedure Qualification Records, and Welder Qualification Records to be employed in the performance of this Purchase Order/Contract Order. Buyer approval is required prior to the start of fabrication.

Changes and revisions to welding documentation shall be submitted to the Buyer for review and approval prior to use. When subcontracting any portion of this Purchase Order/Contract Order, the Supplier is required to invoke the applicable quality assurance program requirements on the subcontractor.

6.3.10 Nondestructive Examination Process (B31)

Nondestructive examination (NDE) personnel shall be qualified and certified in accordance with the recommended guidelines of the American Society of Nondestructive Testing's (ASNT) ANSI/ASNT CP-189 or ASNT SNT-TC-1A, unless otherwise specified in the ordering data.

The Supplier is not authorized to begin fabrication until the following documentation has been reviewed and approved by the Buyer:

a. NDE qualification and certification procedures
b. Personnel Level I, II, and III qualifications and certifications which include objective evidence of NDE training, formal education, examinations, experience, date of hire, and current eye examination
c. NDE method/examination procedures that are in accordance with the applicable codes/standards specified in procurement documents.

All NDE reports and radiographs shall be traceable to the item examined, include all essential examination parameters, and signed and dated by the NDE examiner. All NDE reports and radiographs shall accompany or precede shipment of material. Radiographs, and radiographic technique and examination reports shall be subject to approval by the Buyer prior to shipment of completed items.

When subcontracting any portion of this Purchase Order/Contract Order, the Supplier is required to invoke the applicable quality assurance program requirements on the subcontractor.

6.3.11 Certified Material Test Report (B49)

The Certified Material Test Report (CMTR) shall include actual results of all chemical analysis, tests, examinations, and treatments required by the material specification and this Purchase Order/Contract order. The CMTR shall be legible, reference applicable specification number and year of edition, and be traceable to the material furnished by heat or lot number. All reports are subject to review and acceptance by the Buyer.

6.3.12 Inspection and Test Report (B52)

The Supplier shall submit legible, reproducible copies of Inspection/Test Reports.

The report(s) shall include the following:

1. Identification of the applicable inspection and/or test procedure utilized.

2. Resulting data for all characteristics evaluated, as required by the governing inspection/test procedure.
3. Traceability to the item inspected/tested, (i.e., serial number, part number, lot number, etc.).
4. Signature of the Supplier's authorized representative or agency which performed the inspections/tests.

One copy of the documentation, unless otherwise specified, shall accompany the applicable item(s) shipped.

6.3.13 Certificate of Calibration (B61)

The Supplier shall submit legible, reproducible copies of Certificates of Calibration, which are traceable to the National Institute of Standards and Technology, for each article ordered. Each certificate shall be identified with:

1. The Buyer's Purchase Order/Contract Order number.
2. Identification of the article to which the certificate applies.
3. The standards used for calibration. Each calibration certificate shall be signed by the Supplier's representative that is responsible for the calibration to attest to its authenticity.

One copy of the documentation, unless otherwise specified, shall accompany the applicable item(s) shipped.

6.3.14 Nationally Recognized Testing Laboratory (NRTL) Listed or Labeled Components in a System (B66)

All electrical control panels and electrical equipment (a general term including material, fittings, devices, appliances, luminaries [fixtures], apparatus, and the like used as a part of, or in connection with, an electrical installation) delivered or brought onto the site, in performance of this contract, must be listed or labeled by an organization currently recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL).

The supplier of a system which has electrical components shall, as a minimum, supply the buyer with a list of the components which includes the manufacturer and the NRTL which certified the component. The list should include the following:

Component	Quantity	Manufacturer	NRTL
1.			
2.			
3.			
Etc…			

The list shall be signed and dated by the person doing the verification.

6.3.15 Procurement of Potentially Suspect of Counterfeit Items (B76)

Notwithstanding any other provisions of this agreement, the Supplier warrants that all items provided to the Contractor shall be genuine, new and unused unless otherwise specified in writing by the Contractor. Supplier further warrants that all items used by the Supplier during the performance of work for the Hanford Site, include all genuine, original, and new components, or are otherwise suitable for the intended purpose. Furthermore, the Supplier shall indemnify the Contractor, its agents, and third parties for any financial loss, injury, or property damage resulting directly or indirectly from material, components, or parts that are not genuine, original, and unused, or not otherwise suitable for the intended purpose. This includes, but is not limited to, materials that are defective, suspect, or counterfeit; materials that have been provided under false pretenses; and materials or items that are materially altered, damaged, deteriorated, degraded, or result in product failure.

Types of material, parts, and components known to have been misrepresented include (but are not limited to) fasteners; hoisting, shackles, turnbuckles, cable clamps, wire rope, rigging, and lifting equipment; cranes; hoists; valves; pipe and fittings; electrical equipment and devices; plate, bar, shapes, channel members, and other heat treated materials and structural items; welding rod and electrodes; and computer memory modules. The Supplier's warranty also extends to labels and/or trademarks or logos affixed, or designed to be affixed, to items supplied or delivered to the Contractor. In addition, because falsification of information or documentation may constitute criminal conduct, the Contractor may reject and retain such information or items, at no cost, and identify, segregate, and report such information or activities to cognizant Department of Energy officials.

Supplier shall provide a written statement that “all items furnished under this Purchase Order/Contract Order are genuine (I.e., not counterfeit) and match the quality, test reports, markings and/or fitness for use required by the Purchase Order/Contract Order.

The statement shall be on supplier letterhead and signed by an authorized agent of the supplier.

Any materials furnished as part of this Purchase Order/Contract Order which have been previously found to be suspect/counterfeit by the Department of Energy shall not be accepted. For further information on suspect/counterfeit items, reference the Department of Energy (DOE) Guide DOE G 414.1-3

DOE Guide web address,

https://www.directives.doe.gov/directives/414.1-EGuide-3/view

6.3.16 Certificate of Conformance (B79)

The Supplier shall provide a legible/reproducible Certification of Conformance. Supplier’s authorized representative responsible for quality shall sign the Certification of Conformance.

This Certification of Conformance shall, as a minimum:

1. Identify the appropriate Purchase Order/Contract Order number under which the material, equipment, item or service is being supplied.
2. Each Order/shipment shall include a C of C unique to that shipment.
3. The quantity of each Line Item shipped shall be identified on the C of C.
4. The COC shall identify the specific procurement requirements to be met by the purchased

item or service. The procurement requirements identified shall include any approved changes, waivers, or deviations applicable to the item or service.

5. For OCRWM-related items only, the COC shall also identify any procurement document requirements that have not been met together with an explanation and the means for resolving the nonconformances.
6. The COC shall be signed or otherwise authenticated by a supplier's representative. For Quality Level 1 & 2 and OCRWM-related items, the person signing the COC shall be the one who is responsible for this QA function and whose responsibilities and position are described in the supplier's QA program.

One copy of the documentation, unless otherwise specified, shall accompany the applicable item shipped. For subsequent shipments on this Purchase Order/Contract order, reference may be made to documentation provided with earlier shipments, instead of duplicating such documentation.

6.3.17 Packaging/Shipping Procedures (B85)

The Supplier shall prepare and submit for approval, prior to use, a procedure or plan for the packaging and shipping of items during the performance of this Purchase Order/Contract Order. The procedures shall include as appropriate cleanliness inspections prior to packaging, use of preservatives and coatings, descriptions of specially designed shipping containers, handling and rigging procedures, final inspections, and the type of transfer and shipping vehicles, as applicable to work scope. Examples of the packing and shipping inspection forms shall be included in the procedure or plan. Additional guidance may be found in ASME NQA-1-2008, *Quality Assurance Requirements for Nuclear Facility Applications*, Subpart 2.2, *Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants.*

6.4 Environmental Requirements

There are no special environmental requirements associated this SOW.

6.5 Radiological Requirements

Not applicable as this is an off-site activity.

6.6 Nuclear and Criticality Safety

This work is nuclear-related. The Contractor shall be subject to 10 CFR 830.122, "Quality Assurance Requirements," and the enforcement actions under 10 CFR 820, "General Statement of Enforcement Policy.

7.0 MEETINGS and SUBMITTALS

7.1 Meetings

The Contractor shall participate in the following meetings which will normally be a conference call or a meeting held at the Buyer's or Contractor's facility.

A. Project Kickoff meeting. This meeting will be held after contract award to review contract requirements and processes, establish protocols for communications and interfaces, introduce key personnel and their roles and responsibilities, and review the

project schedule. The agenda for the meeting will be provided by the Buyer. It is preferred this meeting be held at the Contractor's fabrication facility.

B. Weekly Progress meeting. This meeting will be coordinated with the Contractor to occur at a day/time acceptable to both the Buyer and the Contractor. The Contractor shall provide a two-week "look ahead" schedule, updated weekly, one day prior to each scheduled meeting

C. Any other meetings requested by the Buyer during the course of work as necessary.

The person or persons designated by the Contractor to attend all meetings shall have all required authority to make decisions and commit Contractor to technical decisions made during meetings.

7.2 Submittals

A. The required submittals for this contract are listed in Attachment 1, Submittal Register.

B. The Contractor submittals identified herein on the Submittal Register shall be submitted by the Contractor using the Contractor Document Submittal Form (CDSF) A-6004-757 (available at http://chprc.hanford.gov/page.cfm/SubmittalsFormsDocs). Instructions for completion of the CDSF are included with the form.

C. If the Contractor is using submittals previously approved by the Buyer, the Contractor may declare no changes have taken place since last submittal and ask for approval based on previous referenced submittal.

D. CHPRC's Document Management and Control System (DMCS) will be used to electronically manage document submittals and RCIs for this contract. The address to transmit submittals and RCIs to is STPACDC@rl.gov.

7.2.1 Final Data Package

The Contractor shall prepare a final data package or data packages covering each fabricated component or shipping lot, containing the quality records listed in PRC-STP-00422, Section 6.3.

The Final Data Package shall be assembled in the following manner:

A. Coversheets shall be labeled with Contract Order, Lot number, equipment identification number(s), and manufacturer serial number(s).

B. The final data package shall have a table of contents listing each section, and each section shall be paginated, (i.e. Section 1 pages 1 thru 10, etc.)

C. Cross-reference tables between serial/equipment identifier numbers and the applicable records shall be included to ensure future traceability, if this information is not contained on the record itself.

Alternate methods of organizing final data packages may be proposed but are subject to approval by the Buyer. All documents shall be legible and reproducible to the third generation.

8.0 DELIVERABLES, PROJECT CONTROLS, MILESTONES, AND PERFORMANCE SCHEDULE REQUIREMENTS

8.1 Deliverables

Deliverables under this SOW are listed in Section 3.1.

8.2 Project Controls

The Contractor shall provide a detailed baseline schedule covering activities for duration of Contract. The schedule should be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the contract period of performance. Identify critical path activities, including logical sequence and relationship of activities for engineering, design, submittals, procurement, fabrication, inspection, testing, and delivery for work covered by Contract.

8.3 Performance Schedule

The start and end dates for each task is identified in Part II, Section 2.1 Payment Schedule.

8.3.1 Task 1 – Design/Analysis of STSC Vessel and Production of First Article STSC Vessel, STSC Lift Fixtures and STSC Maintenance Lift Fixture

8.3.2 Task 2 – Produce twelve (12) STSC Vessels (first half of base quantity)

8.3.3 Task 3 – Produce eleven (11) STSC Vessels (second half of base quantity)

8.3.4 Task 4 – Produce additional optional STSC Vessels as-needed (up to six)

If the Buyer elects to exercise the Task 4 option for additional STSC Settler Vessels and/or STSC KE/KW Vessels, the schedule for delivery of these vessels will be established in the contract change that exercises the option(s).

ATTACHMENT 1 - Submittal Register

The Contractor shall meet the required schedule and provide the documents specified in accordance with the following submittals. Heading/content definitions are listed beneath the register.

Contract Number and Name:							Revision:	
1. No.	2. Type and Format	3. Technical Submittal	4. Vendor Information	5. Description / Document Title	6. Submittal Date (Calendar Days)	7. Approver Organizations	8. CHPRC Review Time (Work Days)	9. Contract Paragraph or Requirement Reference
1	AP / E	Yes	No	Manufacturer's Quality Assurance Program	Award (see Note 1)	QA	5	6.2, 6.3.1, and PRC-STP-00422 Section 4.2
2	AP / E	Yes	No	ASME Certificate of Authorization for U Designator	Award (see Note 1)	QA	5	6.2, 6.3.2, and PRC-STP-00422 Section 4.1
3	AP/ E	Yes	No	Authorized Inspection Agency and Inspector Credentials	Award (see Note 1)	QA	5	6.2 and PRC-STP-00422 Section 4.1.3
4	APW/ E	Yes	No	CGI Dedication Plan(s) (if necessary)	Prior to Item Procurement	QA/Eng.	5	6.2.3 and PRC-STP-00422 Section 4.3.2
5	APW/ E	Yes	No	Welding Procedures, Procedure Qualification Records, and Welder Qualification Records	Prior to Fabrication	QA/SME	10	6.3.9 and PRC-STP-00422 Section 4.4
6	APW/ E	Yes	No	Certified Weld Inspector Documentation	Prior to Fabrication	QA/SME	10	6.3.8 and PRC-STP-00422 Section 4.3.7
7	APW/ E	Yes	No	NDE Procedures and Personnel Qualification Records	Prior to Fabrication	QA/SME	10	6.3.10 and PRC-STP-00422 Section 4.3.8
8	APW/ E	Yes	No	Vessel Shop Drawings	Prior to Fabrication	QA/Eng.	10	PRC-STP-00422 Section 3.1.10

9	APW/ E	Yes	No	ASME B&PVC, Section VIII Code Calculations	Prior to Fabrication	QA/Eng.	10	PRC-STP-00422 Section 3.1
10	AP/ E	Yes	No	Commercial-Off-the-Shelf Software Documentation	Prior to Fabrication	QA/Eng.	5	6.3.4 and PRC-STP-00422 Section 6.1.3
11	APW/ E	Yes	No	Fabrication Travelers (First Article Vessel and First Lift Fixture)	Prior to Fabrication	QA/Eng.	10	6.3.3 and PRC-STP-00422 Section 3.2.1
12	APW/ E	Yes	No	Inspection/Test Plans (if not part of Fabrication Traveler)	Prior to Inspection and Testing	QA/Eng.	10	PRC-STP-00422 Section 4.3.10
13	AP/ E	Yes	No	M&TE Calibration Reports	Prior to Inspection and Testing	QA/Eng.	5	6.3.14 and PRC-STP-00422 Section 4.3.13
14	APW/ E	Yes	No	Nonconformance Reports	As Produced	QA/Eng.	5	6.3.7 and PRC-STP-00422 Section 4.3.12
15	APW/ E	Yes	No	First Article STSC Vessel Documentation	Prior to Production of STSC Vessels	QA/Eng.	5	6.3.6 and PRC-STP-00422 Section 3.5
16	AP/ E	Yes	No	Inspection/Test Reports (for each fabricated component)	As Produced	QA/Eng.	5	6.3.13 and PRC-STP-00422 Section 4.3.11
17	AP/ E	Yes	No	Radiographic Test Reports and Radiographic Film (for each fabricated component)	Prior to Shipment	QA/SME	10	6.3.10 and PRC-STP-00422 Section 4.3.9
18	APW/ E	Yes	No	Packaging/Shipping Plan	Prior to Shipment	QA/Eng.	5	6.3.17 and PRC-STP-00422 Section 4.3.14
19	AP/ E	Yes	No	CGI Dedication Results (if applicable)	Prior to Shipment	QA/Eng.	5	6.2.3 and PRC-STP-00422 Section 4.3.2
20	AP/ E	Yes	Yes	Final Data Package(s) (Content listed in specification)	Prior to Shipment	QA/Eng.	10	7.2.1, and PRC-STP-00422

								Section 6.3

NOTES:

1. This item, although provided as part of the Contractor's bid package, shall be submitted after award for formal approval within the Buyer's Document Management and Control System.
2. Shipment of completed STSC vessels and lift fixtures is not permitted until all required submittals covering the items to be shipped have been approved by the Buyer, unless permission for early shipment is provided in writing by the Buyer.

Column Definitions

1. Typically a numerical sequence (i.e., 1, 2, 3,…). However, other numbering systems may also be used.
2. Submittal type, number of copies and format:

   APW = Approval Required Prior to Work (CHPRC must approve the Contractor's submittal prior to the Contractor being authorized to proceed with any activity/work associated with the submittal).
   AP = Approval Required (CHPRC must approve the Contractor's submittal, however, work associated with the submittal may proceed prior to CHPRC approval).

   Format: "E" for electronic PDF; or "H3" for three hard copies.

   PDF Adobe Acrobat (Portable Document Format)
3. Technical submittals are Engineering or Quality affecting submittals. A Yes in this column designates the need for formalized comments, and a formalized comment disposition process by the Contractor. Examples of Technical Submittals would include Engineering or Fabrication Drawings, or Certificates of Conformance.
4. Vendor Information for project record purposes.
5. Description / Document Title. Describe submittal.
6. Required submittal date or its relationship to project milestones. Examples are July 14, 2009, or Award + 15 days, Contract Completion +30 days.
7. Approver Organization. Examples are Engineering, Safety, Quality, Waste Management, and Subject Matter Experts (SME).
8. The number of Work Days required for review of the submittal.
9. Contract Reference: Cross reference to the Contract requirement that defines this submittal.

ATTACHMENT 2 – Critical Characteristics for Acceptance of Sludge Transport and Storage Container (STSC) Vessel Safety Significant Components

Safety functions of the STSC vessel are listed by safety code in Table A1. Safety codes and functions are taken from PRC-STP-00139, *STP ECRTS Safety Equipment List*.

TABLE A1 – Safety Functions of the STSC Vessel

Safety Code	Safety Function
E17	Prevent a hydrogen explosion by maintaining structural integrity during a seismic event following STSC inerting.
H09	Prevent a hydrogen explosion in the STSC by maintaining an inert atmosphere in the STSC.
H13	Prevent a hydrogen explosion in an STSC by limiting the volume of a vessel-spanning bubble
H15	Prevent a hydrogen explosion by protecting initial conditions assumed in the STSC thermal and gas analysis regarding the STSC dimensions during interim storage.

Vessel components identified as SS/QL2 on H-1-92550 PARTS/MATERIAL LIST perform one or more safety functions. Table A2 lists each SS/QL2 item, safety function code, performance criteria, critical characteristic(s), acceptance criteria, acceptance method, and recommended sample size. Critical characteristics that can only be verified as part of an assembly are listed with the assembly. Critical characteristics associated specifically with assembly subcomponents (ex. plate yield strength) are not listed with the assembly. Conversely, critical characteristics associated with an assembly are not listed with the subcomponents of that assembly.

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
1	STSC Settler Vessel[2]	H09	After inerting to 0.5% oxygen, air inleakage shall be sufficiently low to result in the oxygen level in the	Leak Tightness of Vessel Pressure Boundary	No visible leakage as defined in ASME Section VIII	Hydrostatic Test	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			STSC remaining below 1.2% for at least 26 hr after disconnection of the purge inlet and purge outlet lines.	Leak Tightness of Vessel Pressure Boundary Welds	Gas leakage rate ≤ 1 x 10^3 std cm^3/s	Sensitive Leak Test	All
		E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Integrity of Vessel Pressure Boundary	Vessel design capable of withstanding seismic loads (see PRC-STP-00422)	ASME Section VIII code calculations stamped by a registered Professional Engineer	All
2	STSC KE/KW Vessel[2]	H09	After inerting to 0.5% oxygen, air inleakage shall be sufficiently low to result in the oxygen level in the STSC remaining below 1.2% for at least 26 hr after disconnection of the purge inlet and purge outlet lines.	Leak Tightness of Vessel Pressure Boundary	No visible leakage as defined in ASME Section VIII	Hydrostatic Test	All
				Leak Tightness of Vessel Pressure Boundary Welds	Gas leakage rate ≤ 1 x 10^3 std cm^3/s	Sensitive Leak Test	All
		E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Integrity of Vessel Pressure Boundary	Vessel design capable of withstanding seismic loads (see PRC-STP-00422)	ASME Section VIII code calculations stamped by a registered Professional Engineer	All
3	Vessel Weldment[2]	H09	After inerting to 0.5% oxygen, air inleakage shall be sufficiently low to result in the oxygen level in the STSC remaining below 1.2% for at least 26 hr after disconnection of the purge inlet and purge outlet lines.	Leak Tightness of Vessel Pressure Boundary	No visible leakage as defined in ASME Section VIII	Hydrostatic Test	All
				Leak Tightness of Vessel Pressure Boundary Welds	Gas leakage rate ≤ 1 x 10^3 std cm^3/s	Sensitive Leak Test	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
		E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Integrity of Vessel Pressure Boundary	Vessel design capable of withstanding seismic loads (see PRC-STP-00422).	ASME Section VIII code calculations stamped by a registered Professional Engineer	All
		H13	The sloped fin shall be firmly attached to the STSC interior to keep it in its intended position.	Weld of sloped fin to STSC wall	Welded in accordance with the requirements of ASME Section VIII, Division 1. Weld inspection in accordance with ASME Section IX and AWS QC-1.	Weld Examination Reports	All
		H13	The sloped fin shall be T-shaped, with the top of the T, 4 in. wide facing the center of the vessel.	Shape of sloped fin	T-shape with wide part of T toward center of vessel	Dimensional Inspection	All
				Width of top of T-shaped fin	4 ± 1/8 inch	Dimensional Inspection	All
		H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics during procurement.	Vessel inside diameter	58 ± 0.5 inch	Dimensional Inspection	All
				Overall length from vessel bottom to top flange	104-7/8 ± 1/4 inch	Dimensional Inspection	All
4	Core Settler Weldment[2]	H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal	Core Settler outside diameter	24 ± 1/4 inch	Dimensional Inspection	All
				Core Settler length	102-1/2 ± 1/4 inch	Dimensional Inspection	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics during procurement.	Length from bottom of settler flange to bottom of inner cylinder 4 inch diameter holes	14-3/4 ± 1/8 inch	Dimensional Inspection	All
		H15	The STSC settler core shall be marked with a unique identification number in the format ECRT-CON-S-XXX, where the "S" denotes "settler" sludge.	Identification number on STSC settler core	Identification number has not previously been used and contains the "S" designator	Inspection subsequent to completion of item fabrication	
				Identification number size	Identification number is nominally 2 inch tall, 1.25 inch wide, 0.015 inch deep and paint-filled for legibility	Inspection	
5	Settler Flange Assembly[2]	H09	After inerting to 0.5% oxygen, air inleakage shall be sufficiently low to result in the oxygen level in the STSC remaining below 1.2% for at least 26 hr after disconnection of the purge inlet and purge outlet lines.	Leak Tightness of Vessel Pressure Boundary	No visible leakage as defined in ASME Section VIII	Hydrostatic Test	All
				Leak Tightness of Vessel Pressure Boundary Welds	Gas leakage rate $\leq 1 \times 10^3$ std cm^3/s	Sensitive Leak Test	All
		E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Integrity of Vessel Pressure Boundary	Vessel design capable of withstanding seismic loads (see PRC-STP-00422).	ASME Section VIII code calculations stamped by a registered Professional Engineer	All
6	KE/KW Flange Assembly[2]	H09	After inerting to 0.5% oxygen, air inleakage shall be sufficiently low to result in the oxygen level in the	Leak Tightness of Vessel Pressure Boundary	No visible leakage as defined in ASME Section VIII	Hydrostatic Test	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			STSC remaining below 1.2% for at least 26 hr after disconnection of the purge inlet and purge outlet lines.	Leak Tightness of Vessel Pressure Boundary Welds	Gas leakage rate ≤ 1 x 10^3 std cm^3/s	Sensitive Leak Test	All
		E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Integrity of Vessel Pressure Boundary	Vessel design capable of withstanding seismic loads (see PRC-STP-00422)	ASME Section VIII code calculations stamped by a registered Professional Engineer	All
		H15	The STSC KE/KW flange assembly shall be marked with a unique identification number in the format ECRT-CON-W-XXX.	Identification number on STSC KE/KW flange assembly	Identification number has not previously been used and contains the "W" designator	Inspection subsequent to completion of item fabrication	
				Identification number size	Identification number is nominally 2 inch tall, 1.25 inch wide, 0.015 inch deep and paint-filled for legibility	Inspection	
9	45 Deg Elbow Assembly[2]	H09	After inerting to 0.5% oxygen, air inleakage shall be sufficiently low to result in the oxygen level in the STSC remaining below 1.2% for at least 26 hr after disconnection of the purge inlet and purge outlet lines.	Leak Tightness of Vessel Pressure Boundary	No visible leakage as defined in ASME Section VIII	Hydrostatic Test	All
				Leak Tightness of Vessel Pressure Boundary Welds	Gas leakage rate ≤ 1 x 10^3 std cm^3/s	Sensitive Leak Test	All
17	Tank Skirt	H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be	Perforated Hole Size	4 ± 1/4 inch	Dimensional Inspection	
				Number of Perforated Holes in Skirt	24 full holes and 12 half holes	Dimensional Inspection	

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			identified as critical characteristics during procurement.				
31	Flange, KE/KW, 2-1/2" thick	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Flange Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
32	Flange, Settler, 2-1/2" thick	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Flange Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
35	Bubble Buster wing, ¼" thick	H13	The sloped fin shall be T-shaped, with the top of the T, 4 in. wide facing the center of the vessel.	Width of top of T-shaped fin	4 ± 1/8 inch	Dimensional Inspection	All
				Wing Height	≥ 67 inches above the inside bottom of the vessel	Dimensional Inspection	All
36	Bubble Buster fin, ¼" thick	H13	The fin shall extend out at the base, on the bottom head, tapering towards the vessel wall 5 degrees from vertical to a point above the maximum sludge height.	Fin Taper Angle	5° ± 0.5°	Dimensional Inspection	All
				Fin Height	≥ 67 inches above the inside bottom of the vessel	Dimensional Inspection	All
37	Sloped fin (assembly)	H13	The sloped fin shall be consistent with a configuration shown to be effective in disrupting the formation of a vessel-spanning bubble in the analysis provided in PNNL-19345.	Fin Taper Angle	5° ± 0.5°	Dimensional Inspection	All
				Shape of sloped fin	T-shape with wide part of T toward center of vessel	Dimensional Inspection	All
38	Plate, ½" thick	E17	STSC boundary seismic design	Yield Strength	≥ 25 ksi	CMTR	Each

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.				Heat Lot
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
39	Lower Head, 2:1 semi-elliptical, ½" thick, 2" straight face	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
		H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics during procurement.	2:1 radius elliptical shape	Head meets minimum shape requirements as defined in ASME Section VIII UG-81	Dimensional Inspection	All
40	Upper Head, 2:1 semi-elliptical, 3/4" thick, 2" straight face	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
		H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics	2:1 radius elliptical shape	Head meets minimum shape requirements as defined in ASME Section VIII UG-81	Dimensional Inspection	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			during procurement.				
41	Pipe, 6” Sched 40S	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25ksi	CMTR	Each Heat Lot
				Wall Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
42	Pipe, 4” Sched 40S	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Wall Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
43	Flange, long weld neck, RF 4” CL 150, 12”L, Bore 4.50	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Wall Thickness (nozzle portion)	≥ ASME Section VIII required thickness	Dimensional Inspection	All
				Flange Marking (flange portion)	Conformance with ASME B16.5 marking requirements	Receipt Inspection	All
44	Pipe, 2” Sched 80S	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Wall Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
49	Flange, lapped 6” CL 150, ASME B16.5	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Flange Marking	Conformance with ASME B16.5 marking requirements	Receipt Inspection	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
50	Flange, Slip on, RF 4" CL 150, ASME B16.5	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Flange Marking	Conformance with ASME B16.5 marking requirements	Receipt Inspection	All
51	Flange, Slip on, RF 2" CL 150, ASME B16.5	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Flange Marking	Conformance with ASME B16.5 marking requirements	Receipt Inspection	All
53	Half Coupling, 1" FNPT CL 3000	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
54	Coupler, Male Camlock, 4" Sched 40 BW	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Coupler Marking	Conformance with A-A-59326C marking requirements	Receipt Inspection	All
55	Coupler, Male Camlock, 2" Sched 40 BW	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Coupler Marking	Conformance with A-A-59326C marking requirements	Receipt Inspection	All
56	Lap Joint Stub	E17	STSC boundary seismic design	Yield Strength	≥ 25 ksi	CMTR	Each

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
	End, 6", MSS Short Type A		shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.				Heat Lot
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
59	Plate, 3/8" thick (nozzle extension)	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	Each Heat Lot
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All
60	Flange, WN RF 26" CL 150, ASME B16.47 Series B	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25 ksi	CMTR	All
				Flange Marking	Conformance with ASME B16.47 Series B marking requirements	Receipt Inspection	All
66	Core Head, 2:1 semi-elliptical, ¼" thick, 2" straight face	H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics during procurement.	Material Thickness	≥ ASME Section VIII required thickness to withstand external pressure	Dimensional Inspection	All
				2:1 radius elliptical shape	Head meets minimum shape requirements as defined in ASME Section VIII UG-81	Dimensional Inspection	All
68	Plate, ¼" thick	H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics	Material Thickness	≥ ASME Section VIII required thickness to withstand external pressure	Dimensional Inspection	All

TABLE A2 – Critical Characteristics For Acceptance (CCFA) of STSC Vessel Safety Significant Components (Ref. H-1-92550)

Item No.	Description	Safety Code	Performance Criteria	Critical Characteristic For Acceptance	Acceptance Criteria	Acceptance Method[1]	Sample Size
			during procurement.				
73	Pipe, 24" Sched 10S	H15	Procurement drawings and specifications of the STSC shall be consistent with the nominal dimensions assumed in the thermal model as documented in PRC-STP-00688, for key dimensions to be identified as critical characteristics during procurement.	Material Thickness	≥ ASME Section VIII required thickness to withstand external pressure	Dimensional Inspection	All
81	Bolt, Heavy Hex, ¾-10 UNC-2A x 5-1/2" Long (Nitronic 60)	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 50 ksi	CMTR	Sampling Plan
				Nominal Size	¾ inch	Receipt Inspection	Sampling Plan
82	Nut, Heavy Hex, ¾-10 UNC-2B (Grade 8)	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Proof Load	≥ 26,720 lbf	CMTR	Sampling Plan
				Nominal Size	¾ inch	Receipt Inspection	Sampling Plan
83	Elbow, 4" 45° Sched 40S BW	E17	STSC boundary seismic design shall be capable of withstanding SDC-1 seismic loads (defined in PRC-PRO-EN-097) while maintaining leak tightness.	Yield Strength	≥ 25ksi	CMTR	Each Heat Lot
				Material Thickness	≥ ASME Section VIII required thickness	Dimensional Inspection	All

[1] Only special tests or inspections have been listed under 'Acceptance Methods'. Other acceptance methods including source verification, commercial grade survey, and item/ supplier performance record may be required if Commercial Grade Dedication of the item is employed. Other acceptance methods will be specified on a case-by-case basis.

[2] Critical Characteristics that rely on fit-up or assembly of more than one component are credited to the assembly (i.e. vessel, weldment, etc).

END OF PART I – STATEMENT OF WORK

PART II – FINANCIAL TERMS

1.0 CONTRACT TYPE AND VALUE

This Contract is a Firm Fixed Price contract.

The value of this Contract is $ To Be Determined (TBD).

1.1 Limitation of Funds

1. Although the parties hereto have negotiated the ceiling price of not-to-exceed $TBD for this Contract, (hereafter referred to as the Contract), they understand that sufficient funds for the full scope of the work are not available. It is anticipated partial funding will be allotted to this contract from time to time until the total estimated price of said Contract is obligated.
2. The amount presently available for payment and allotted to this Contract, the items covered, and the period of performance the allotted amount will cover is $TBD. The Contractor agrees to perform, or have performed, work on the contract up to the point at which the total amount paid and payable under the Contract, approximates, but does not exceed the total amount actually allotted on the Contract.
3. The Contractor shall notify the Contract Specialist identified in the Contract, in writing whenever it has reason to believe that the costs it expects to incur under this Contract in the next 30 days, when added to all costs previously incurred, will exceed 85 percent of the total amount so far allotted to this Contract. The notice shall state the estimated date when such allotted amount will be reached and estimated amount of additional funds required to continue performance for the period specified in the schedule. If after such notification, additional funds are not obligated by the end of estimated reach date or by an another agreed date, CHPRC shall upon Contractor's written request, terminate this Contract on the performance end date or the date set forth in the request, whichever is later, pursuant to the provisions of the Termination clause of this Contract.
4. Except as provided by other provisions of this Contract, specifically citing and stated to be an exception to this clause:
    a. CHPRC is not obligated to reimburse the Contractor for costs incurred in excess of the total amount allotted to this Contract; and
    b. The Contractor is not obligated to continue performance under this Contract (including actions under the termination clause) or otherwise incur costs in excess of the allotted amount of this Contract, until CHPRC notifies the Contractor in writing that the allotted amount has been increased and specifies the revised total allotted amount.
5. No notice, communication, or representation in any form or by anyone other than that specified in subparagraph 4(b) above, shall affect the allotted amount of this Contract. In the absence of the Contractor's notification (paragraph 3 above), CHPRC is not obligated to reimburse the Contractor for any costs in excess of the total amount allotted to this Contract, whether incurred during the course of performance period, a termination, or result of an audit.

6. When, and to the extent that the amount allotted by CHPRC is increased, any excess costs the Contractor incurred before this modification shall be allowable to the same extent as if incurred afterward, unless this Contract was terminated.
7. Change orders shall not be considered an authorization to exceed the allotted amount specified in the schedule, unless they identify an increased allotted amount.
8. If CHPRC does not allot sufficient funds to allow completion of the work, the Contractor is entitled to a percentage of the fee specified in this Contract equaling the percentage of completion of the work contemplated by this Contract.
9. This limitation of funds clause also pertains to individual task Contracts where incremental funding exists.

2.0 PAYMENT SCHEDULE

2.1 Payment Schedule

In accordance with the restrictions specified in the provision of this Contract, the Contractor shall be reimbursed for authorized and approved work in accordance with the following:

Sludge Transport and Storage Container (STSC) Vessels
Price Schedule 266377AD

TASK 1 Start October 15, 2014 - Due by June 30, 2015	**FFP**
Task 1 Design/Analysis of STSC Vessel and Production of First Article STSC Vessel, STSC Lift Fixtures and STSC Maintenance Lift Fixture	
A. Produce ASME Section VIII pressure vessel design and code calculations for the STSC Vessel. See drawing H-1-92550 and specification PRC-STP-00422.	$
B. Produce one (1) first-article STSC KE/KW Vessel, H-1-92550, Item -020	$
C. Produce two (2) STSC Lift Fixture, H-2-836158, Item -010	$
D. Produce one (1) STSC Maintenance Lift Fixture, H-2-836159, Item -010 including one (1) additional battery, one (1) additional charger and one (1) MSI-9750 portable digital indicator	$
Total Cost Task 1	$

TASK 2 Start October 01, 2015 - Due by July 15, 2016	**FFP**
Task 2 - Produce twelve (12) STSC Vessels (first half of base quantity)	
A. Produce five (5) STSC Settler Vessel, H-1-92550, Item -010	$
B. Produce seven (7) STSC KE/KW Vessel, H-1-92550, Item -020	$
Total Cost Task 2	$

TASK 3 Start October 01, 2016 - Due by July 15, 2017	FFP
Task 3 - Produce eleven (11) STSC Vessels (second half of base quantity)	
A. Produce four (4) STSC Settler Vessel, H-1-92550, Item -010	$
B. Produce seven (7) STSC KE/KW Vessel, H-1-92550, Item -020	$
Total Cost Task 3	$

Firm Fixed Price for All Tasks	$

OPTION PRICING	FFP Options
CHPRC may elect to exercise Options. This option may replace the existing task quantity and or vessel type. The options can only be authorized by contract modification.	
Option Task 2C – Option to Replace Task 2	
Option Task 2C. Produce Twelve (12) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 3C – Option to Replace Task 3	
Option Task 3C Produce Eleven (11) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 4 Items A Settler Vessel	
Option Task 4A1. Produce one (1) STSC Settler Vessel, H-1-92550, Item -010	$
Option Task 4A2. Produce two (2) STSC Settler Vessel, H-1-92550, Item -010	$
Option Task 4A3. Produce three (3) STSC Settler Vessel, H-1-92550, Item -010	$
Option Task 4A4. Produce four (4) STSC Settler Vessel, H-1-92550, Item -010	$
Option Task 4A5. Produce five (5) STSC Settler Vessel, H-1-92550, Item -010	$
Option Task 4A6. Produce six (6) STSC Settler Vessel, H-1-92550, Item -010	$
Option Task 4 Items B KE/KW Vessel	
Option Task 4B1. Produce one (1) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 4B2. Produce two (2) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 4B3. Produce three (3) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 4B4. Produce four (4) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 4B5. Produce five (5) STSC KE/KW Vessel, H-1-92550, Item -020	$
Option Task 4B6. Produce six (6) STSC KE/KW Vessel, H-1-92550, Item -020	$

The Firm Fixed Price is inclusive of all costs including labor, materials, components and delivery to the Hanford Site (FOB Destination).

2.2 Delivery Cost

Delivery is Freight on Board (FOB) Destination. Therefore the contractor is responsible for the delivery and costs associated. The delivery costs are to be included in the firm fixed price.

2.3 Payment Schedule of Values

The awarded contract will include the agreed upon Payment Schedule of Values.

Payment Schedule of Values		
Description		Value

The approved Payment Schedule of Values will be used for payment applications.

3.0 PRICING INSTRUCTIONS FOR CHANGE ORDERS/MODIFICATIONS

CHPRC reserves the right to request a complete pricing breakdown, including certified or uncertified cost or pricing data as applicable for any change orders or modifications that have an impact to the established contract pricing.

4.0 TAXES

Contractor shall refer to the TAXES section of the General Provisions

5.0 PAYMENT TERMS

TBD

5.1 Estimated Billing

It is mandatory for continued acceptable performance that the Contractor provide monthly, to CHPRC Accounts Payable, the best estimate of the total billable cost (invoiced plus invoiceable) from inception of the contract through the current fiscal month closing (closing dates specified on the form). This information must be provided in writing by email (preferred), fax, or mail by the 15th of each month. This data must be provided for each contract release until all payments are received and the contract is complete.

Mailing Address: Email: CHPRCA@rl.gov Fax: (509) 376-6294

CH2M HILL Plateau Remediation Company
2420 Stevens Drive
PO Box 1600
Richland, WA 99352
Attn: Accruals MSIN H7-30

The Monthly Contract-to-Date Cost Estimate Form can be obtained at the following Internet Address: http://chprc.hanford.gov/page.cfm/SubmittalsFormsDocs or directly from the Contract Specialist.

6.0 DEFINITIONS

There are no special definitions applicable to this contract.

7.0 ASSUMPTIONS

There are no special assumptions applicable to this contract.

8.0 INVOICING INSTRUCTIONS

8.1 Contractor Invoices

Invoices submitted to CH2M HILL Plateau Remediation Company shall be submitted as follows. Failure to submit a proper and accurate invoice may result in rejection or delay of the invoice. Address invoicing requirement questions to the Contract Specialist.

General Requirements

1. Submittal of an invoice constitutes Contractor's certification that materials, work and/or services have been provided, and invoiced amounts are in accordance with the contract.
2. Each Contract, Release and Purchase order must be invoiced separately and in a timely manner with respect to the invoiced products or services.
3. The invoice must clearly & legibly identify the
    a. Contractor's Name
    b. Unique Invoice Number
    c. Contract, Contract Release and/or Purchase Order Number

d. Itemized description of milestones, supplies or service provided

4. Remittance will only be made to the remittance address on file for the contractor. Invoices from third parties or with different remittance instructions or addresses will not be processed.
5. An "Authorization for Electronic Funds Transfer (EFT) of Invoice Payments" must be on file with CHPRC before EFT payments can be made. http://www.hanford.gov/pmm/files.cfm/eft.pdf
6. Invoices should include the name and telephone number of a company representative available to respond to questions about the invoice.

Contracts for Services:

7. Unless otherwise authorized in the contract, service contracts may not be invoiced more than once per calendar month.
8. The total amount due for the billing period must be clearly identified on all invoices (this amount should be set apart from any cumulative amounts or subtotals).
9. Invoiced amounts, rates, other direct charges or travel must be specifically defined in the contract to be allowable for reimbursement.
10. When applicable for this type of contract, indicate the name(s) of the worker(s) labor rate, billable work hours, and period of performance on each invoice.
11. Travel expenses (if authorized) must be itemized and supported with receipts in accordance with the requirements set forth under clause, "Reimbursement of Travel Expenses" or as otherwise stated within the Contract.

Purchase Orders:

12. Invoices must indicate the quantity, unit description and unit price for each item listed.
13. Invoices that include a total freight charge that is equal to or greater than $100.00 must include a copy of the freight bill. If the carrier is UPS, the Contractor must provide the weight, quantity and Shipping Point.

Submittal

14. Invoices and supporting documentation may be submitted electronically in a format acceptable to CHPRC (preferred).
15. Submit invoices electronically via e-mail to both CH2M HILL Plateau Remediation Company Accounts Payable (CHPRC AP) at the following e-mail address: chprcap@rl.gov (chprcap@rl.gov) and (in the same email) to the Contract Specialist.
    a. The contractor's name, invoice number, and the contract and release numbers must be shown in the subject line of the e-mail message used to submit an electronic invoice. The suggested format for the subject line is: Contractor Name, Invoice XXXXX Contract XXXXX-X.
16. Submit hard copy invoices including supporting documentation to CHPRC's Accounts Payable organization at the address below.

CH2M HILL Plateau Remediation Company
Accounts Payable - Mail Stop: H7-32
P.O. Box 1600
Richland, WA 99352

9.0 CLOSEOUT AND FINAL PAYMENT

9.1 Closeout Certification

Contractor shall properly execute and mail to CHPRC a final release, in a format acceptable to CHPRC, within five working days from the last date services are provided hereunder and/or the date of the last shipment made hereunder. Final payment will not be made until a final release is properly executed and received by CHPRC. (form available on this web page or directly from the Contract Specialist)

10.0 SPECIAL INSTRUCTIONS

10.1 Availability of Funds

Funds are not presently available for this Contract. CHPRC's obligation under this Contract is contingent upon the availability of funds from which payment for contract purposes can be made. No legal liability on the part of CHPRC for any payment may arise until funds are made available to CHPRC for this Contract and until CHPRC receives notice of such availability, to be confirmed in writing by CHPRC.

10.2 Contractor Cost and Pricing Data

1. Before awarding a contract or issuing a modification to an existing contract expected to exceed $700,000, the Contractor must provide cost or pricing data except where the exceptions in paragraph 2, below, apply. If an exception does not apply, cost or pricing data is required before accomplishing any of the following actions expected to exceed the current threshold or, in the case of an existing contract, the threshold specified in the contract:
    a. The award of any negotiated contract (except for undefinitized actions such as letter contract).
    b. The modification of any sealed bid or negotiated contract (whether or not cost or pricing data were initially required). Price adjustment amounts must consider both increases and decreases (e.g., a $200,000 modification resulting from a reduction of $500,000 and an increase of $300,000 is a pricing adjustment exceeding $700,000). This requirement does not apply when unrelated and separately priced changes for which cost or pricing data would not otherwise be required are included for administrative convenience in the same modification.
2. Exception to cost or pricing data requirements. The submission of cost or pricing data shall not be required:
    a. When the prices agreed upon are based on adequate price competition.
    b. When the prices agreed upon are based on prices set by law or regulation.

c. Commercial items where catalog or market prices are established. Also, items included on an active Federal Supply Service Multiple Award Schedule contract.

d. When modifying a subcontract for commercial items.

3. The Contractor shall prepare and submit cost or pricing data and supporting attachments in accordance with Table 15.2 of FAR 15.408 or in a manner substantially similar.

4. As soon as practicable after agreement on price, but before contract award, the Offeror shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

5. If the Contractor intends to issue a subcontract in performance of this requirement and it is expected to exceed $700,000, the lower-tier contractor is also subject to the above requirements.

END OF PART II – FINANCIAL TERMS

PART III – GENERAL TERMS and ATTACHMENTS

1.0 GENERAL

1.1 Acceptance of Terms and Conditions.

Contractor, by signing this Contract, delivering the supplies, or performing the requirements indicated herein, agrees to comply with all the Contract provisions, specifications and other documents that this Contract incorporates by reference or attachment. CHPRC hereby objects to any provisions inserted into this Contract, amendment, or modification to the Contract that are different from or in addition to those set forth by CHPRC in the Contract, amendment or modification to the Contract.

1.2 Attachments Incorporated

The terms, forms, documents and attachments listed herein are hereby incorporated into and made a part of this contract. Contractor is responsible for downloading or obtaining a copy from the Contract Specialist and complying with the applicable documents.

Where available, hyperlinks are provided for downloading the referenced document.

1.3 Order of Precedence

In the event of a discrepancy among Contract documents the following order of precedence shall govern resolution: (1) CHPRC's written Contract modifications, direction, and instructions; (2) written Contract (3) Technical instructions, including the (a) Statement of Work (SOW), (b) engineering drawings and specifications, (c) exhibits and attachments, and (d) applicable standards; (4) Special Provisions; (5) General Provisions; and (6) other documents identified as being part of the Contract.

1.4 Subcontractor Flow-Downs

Contractor may **not** subcontract any significant portion of this contract without first obtaining concurrence of CHPRC to the proposed subcontract scope and subcontractor(s).

Contractor is responsible to incorporate and flow down all appropriate provisions and requirements of this contract to all lower-tier contractors and subcontractors. Contractor shall furnish CHPRC a copy of the subcontract(s) demonstrating that all appropriate flow-down provisions and requirements are specifically delineated in the subcontract and will be met.

CHPRC reserves the right to:

- reject any proposed subcontract or subcontractor as incomplete or unsuitable
- require submittal of the proposed subcontract before contract award or prior to performance of any work on site
- require the replacement, at contractor's expense, of any subcontractor who fails to adhere to all of the applicable provisions and requirements of this contract.

END OF PART III – GENERAL TERMS and ATTACHMENTS

PART IV – SPECIAL TERMS

1.0 ADMINISTRATION

1.1 Contract Correspondence

CHPRC's Mailing Address:

Attn: Annette Winzent-Dichard
CH2M HILL Plateau Remediation Company
PO Box 1600, Mail Stop: H8-42
Richland, WA 99352

CHPRC's Street Address:

Attn: Annette Winzent-Dichard
CH2M HILL Plateau Remediation Company
2420 Stevens Center, Room 386
Richland, WA 99352

1.2 Abnormal or Unusual Situations

In the event that there is an abnormal or unusual situation associated with this contract work scope, the Contractor is to immediately contact the designated Contract Specialist (CS) or designated CHPRC's Technical Representative (BTR). If the Contractor is unable to contact either the CS or the BTR, the Contractor is to contact the CHPRC Occurrence Notification Center at (509) 376-2900, which is available 24 hours a day, seven days a week, and provide them with: Contract Number, Contract Specialist's name, BTR's name and a short summary of the abnormal or unusual situation. If after making contact with CHPRC, the Contractor is advised to suspend activities, the Contractor is not to proceed until such direction to proceed has been expressly issued by the Contract Specialist. If there is an emergency situation, the Contactor is to make the appropriate immediate emergency call to 911 and then make the notifications to CHPRC as set forth herein.

1.3 Term of Contract

The term of this Contract shall commence on the date of award and shall end on September 30, 2017 unless extended by the parties or unless terminated by other provisions of this Contract.

Option 1 - Task 4 October 1, 2017 and end on September 30, 2018

1.4 Packing List

Contractor shall enclose a packing list with each shipment referencing:

1. Name of Contractor
2. Contract number and item number
3. Date of Contract
4. Itemized list of supplies or services furnished
5. Quantity of each item
6. Date of delivery or shipment
7. Stock number (if applicable)

1.5 Package Identification

All envelopes, boxes or packages shipped to CHPRC in performance of this contract must be clearly marked with the contract number

1.6 Authorized Personnel

Only the following named Contract individuals are authorized to make changes to this document:

Contract Specialist, Annette Winzent-Dichard

Contracts Manager, Pat Marmo

Deputy Contracts Manager, Anne Thompson

1.7 Contractor Submittals – Contract

The Contractor submittals identified herein on the Submittal Register shall be submitted by the Contractor using the Contractor Document Submittal Form (CDSF) (available at http://plateauremediation.hanford.gov/index.php/page/10/). Instructions for completion of the CDSF are included with the form. The quantity, frequency and type of submittal shall agree with the requirements set forth on the Submittal Register. A Submittal Number, entered on the CDSF by the Contractor in accordance with the submittal register, shall be used to identify each submittal. Engineering controlled Vendor Information (VI) content shall be identified on the CDSF when indicated on the Submittal Register. CDSF forms may be copied for submittals with different submittal dates. When any submission is returned to the Contractor with a request for resubmission (i.e., marked as: "B" and "Resubmit – Yes"; or "C" Revise and Resubmit) the Contractor shall resubmit all corrected documents within the time specified on the resubmission notice or if no time is specified therein within ten (10) working days from

the disposition date. New submittals shall require the Contractor to contact CHPRC if additional Submittal Numbers are required.

Changes to a Contractor's deliverables, that have not been accepted by CHPRC as complete shall be re-submitted using the CDSF form and in accordance with a Contractor's CHPRC-approved Quality Assurance and/or Engineering Program.

1.8 Document Transmittals

The Contractor shall utilize a document transmittal system for the exchange of data and information during the performance of work under this Contract. The transmittal shall contain (1) a unique identification number, (2) a brief identification of the document(s) including revisions, (3) the date of the transmittal, (4) purpose of the transmittal, including required action (if any) (5) signature of supplier representative, and (6) means or provisions for receipt acknowledgement by CHPRC.

1.9 Electronic Mail Capability

The Contractor shall provide and maintain Internet and electronic mail capability for the duration of the Contract. The Contractor's email account shall be able to send and receive attached documents of up to 5 megabyte in size. Correspondence and Administrative messages concerning this contract will be conducted via email in current versions of Microsoft Office applications, ASCII text, RTF, PDF, ZIP and other commonly used file formats. In addition, information, data and forms may be posted on CHPRC's Internet web site for downloading by the Contractor.

1.10 Requests for Clarification or Information

Where necessary, the Contractor may elect to submit formal requests for Clarification or Information as necessary to obtain technical clarifications using the Request for Clarification or Information (RCI) Form. Instructions for completion of the RCI Form are included with the form. The inquiry portion of the RCI Form shall be completed by the Contractor, including a determination of priority and an identification of schedule delay with the issue, if applicable. RCI Form numbering shall be left blank and assigned by CHPRC upon receipt. CHPRC will complete an evaluation, and provide a disposition and determine additional actions required, when appropriate. The purpose of the form is to facilitate formal communications when necessary.

1.11 Work Schedules and Holiday

NOTICE: Daily work schedules and facility operations are NOT consistent on the Hanford Site. Some organizations and facilities observe alternate Friday closures and some organizations are working a 4x10 schedule.

Accordingly, Contractor is responsible to understand and plan to support the work schedule required for this specific contract and/or work location. BEFORE scheduling work on site and/or deliveries, the Contractor shall make specific schedule arrangements with CHPRC, BTR, Facility Manager, Delivery Warehouse Manager, Building Manager, etc.

CHPRC will not be liable for the cost of any delays, demurrage, layover, extra travel days, etc. which result from Contractor's failure to plan for and obtain specific schedule concurrence in advance.

1.12 Key Personnel

Contractor agrees those individuals determined to be key individuals will not be reassigned without the written agreement of CHPRC. Whenever, for any reason, one or more of these individuals are unavailable for assignment for work under this Contract the Contractor, with the approval of CHPRC, shall replace such individual with an individual substantially equal in abilities or qualifications.

The following named individuals have been determined to be key personnel assigned to the performance of this Contract. <<Key personnel>>

1.13 Service Contract Act of 1965

This Contract is subject to the McNamara-O'Hara Service Contract Act of 1965 (SCA) as specified in FAR 22.10 . In accordance with the SCA, the contractor shall pay service employees, employed in the performance of this contract, no less than the minimum wage and furnish fringe benefits specified by the SCA or applicable Wage Determination.

Compliance with direct labor rates, fringe benefits and requirements of the SCA are the responsibility of the contractor and are included elements of the contract pricing. During the term of this contract, CHPRC may unilaterally modify this contract to incorporate revised Wage Determinations. If a Wage Determination (or revision) is incorporated after award and the contractor has to adjust rates payable to employees covered by the SCA in order to comply with the revised minimum wages and fringe benefits, the contractor may request an equitable adjustment in accordance with the SCA and other provisions of this contract.

Blanket Wage Determination (BWD) 05-2569 is applicable to work performed on the Hanford Site and adjacent area by service occupations identified in the BWD. Service occupations that will be used in performance of this contract at another location or that are not listed in the BWD must be specifically identified herein along with an applicable wage determination.

A copy of the most recent Hanford Area Service Contract Act Blanket Wage Determination is posted on the acquisition web site at http://chprc.hanford.gov/page.cfm/SubmittalsFormsDocs

A Directory of Occupations and more information about the Service Contract Act can be found on the Department of Labor web site at http://www.dol.gov/compliance/laws/comp-sca.htm

1.14 Proprietary Data Submittals

If Contractor submits any data as part of their Contract, which is considered by the Contractor to be "Proprietary Data", the document transmitting the data or which contains the data, shall be boldly marked indicating that the data Included is considered to be proprietary.

1.15 Contractor – CHPRC Interface

CHPRC and the Contractor will interface only through CHPRC's Contract Specialist for clarifications and questions.

1.16 Other Interfaces

Additional CHPRC contacts will be identified at the kickoff meeting.

1.17 Designation of Technical Representative

The designated Buyer's Technical Representative (BTR) for this contract is:

Greg Leshikar Phone 509-373-4434, Mail Stop X4-06.

The BTR is responsible for monitoring and providing technical guidance for this Contract and should be contacted regarding questions or problems of a technical nature. The BTR is also responsible for appropriate oversight of Contractor's personnel while on site and the interface between contractor and other CHPRC organizations supporting contract performance.

Authority of the BTR and supporting organizations is limited to providing technical direction within the scope and provisions of this contract. The BTR may not direct work or authorize any change outside of the written contract and contract provisions.

The BTR does not possess any explicit, apparent or implied authority to modify the contract. When in the opinion of the Contractor, the BTR requests or directs efforts outside the existing scope of the Contract; Contractor shall promptly notify the Contract Specialist in writing. No action outside the scope of the contract should be taken until the Contract Specialist makes a determination and/or modifies the contract.

In no event, will an understanding or agreement, modification, change order, or any deviation from the terms of this Contract be effective or binding upon CHPRC unless formalized by proper Contract documents executed by the Contract Specialist.

1.18 Options

The Contract Specialist retains the sole right to exercise the option(s) included in this contract. The inclusion of the option(s) does not represent a commitment, financial or otherwise, on the part of CHPRC to exercise any or all of the option(s) nor extend the contract beyond the end date specified by the contract or most current contract amendment. CHPRC may exercise one or more options by providing written notice to the contractor prior to the most current contract end date. Lacking written notice by CHPRC, the option(s) will expire with the contract.

1.19 Option to Extend the Term of the Contract

This contract includes the option(s) to extend the term identified herein. The total period of performance of the contract includes the base period plus the optional period(s) that may be exercised by CHPRC. CHPRC will exercise the option(s) by providing thirty day written notice to the contractor prior to expiration of the contract's current period of performance.

1.20 Independent Contractor

1. Contractor shall perform all work required by this Contract as an independent contractor and not as an agent or employee of CHPRC or the Government.
2. Acceptance of this contract constitutes contractor's certification that any required business licenses, permits, tax identification requirements, principle place of business identification, etc. have been addressed and are the sole responsibility of contractor.

3. Contractor shall pay all wages, salaries and other amounts due its employees in connection with this Contract. Contractor is responsible for all reports, obligations and payments regarding such employees relating to social security, state and federal taxes, license fees, withholding, unemployment compensation, workers compensation and similar matters. Upon CHPRC's written request, Contractor shall promptly provide documentation substantiating its compliance with the requirements of this paragraph.
4. Contractor shall maintain complete control over its Employees, Agents, Representatives and Subcontractors at any tier and shall be responsible for the proper performance of all work required by this Contract, including any such work which may be done by Suppliers or Subcontractors at any tier.
5. Contractor does not have, nor shall it represent that it has, any authority to bind CHPRC or the Government.
6. Unless specifically identified in the contract, contractor shall supply and use its own equipment, supplies and means of performance.

1.21 On Site Work Restriction

Unless authorized by the Contract Specialist for specific Contractor personnel for a specific time, location, and purpose or otherwise incorporated into the Contract by a modification, Contract work scope activities are not authorized to be performed on the Hanford Site.

1.22 Contract Change Request

The Contractor shall submit formal requests for changes to the scope, schedule or cost of this contract using the Change Form (available at *http://plateauremediation.hanford.gov/index.php/page/10/*). Instructions for completion of the Change Form are included with the form. The appropriate portions of the Change Form shall be completed by the Contractor. A red-line mark up of the Statement of Work, Specification or Drawing, showing where the proposed changes fit within the scope shall be attached, if applicable. Change Form numbering shall be left blank and assigned by CHPRC upon receipt. CHPRC will complete an evaluation, provide a disposition and determine additional actions required, as appropriate. The purpose of the form is to facilitate formal communications.

2.0 CONTRACT PROVISIONS

The provisions, forms, documents and attachments listed below are hereby incorporated into and made a part of this contract. Unless specifically replaced or revised in the body of this contract the clauses and referenced laws, rules and regulations in the General and Special Provisions applicable for this type of contract shall have the same force and effect as if written into the body of the contract.

Contractor is responsible for downloading, reading and complying with the applicable provision revision identified below. In the event that the link to a specific provision is broken, provisions are posted for downloading at the following hyperlink. A copy is also available from CHPRC on request. http://chprc.hanford.gov/page.cfm/ContractProvisions

2.1 General Provisions - Revision 5 dated December 14, 2012

2.2 Special Provisions, SP-13 - General Transportation Instructions - Revision 1 dated April 6, 2011

2.3 Special Provisions, SP-16 - Contractor Representations and Certifications - Revision 5 dated July 18, 2013

Representations and Certifications made by the contractor as part of the proposal and award process are hereby incorporated by reference into, this Contract unless specifically excluded and agreed by CHPRC in the Contract. Contractor agrees to update and resubmit a revised SP-16 if any change occurs that would nullify, change or otherwise affect said representations and certifications.

END OF PART IV – CONTRACT PROVISIONS

END OF CONTRACT