STATEMENT OF WORK

Requisition #: 309879
Title: Design and Fabricate New Riser Installation System
Revision Number: 1
Date: 4/25/2018

1.0 Objective
The objective of this statement of work (SOW) is to design, fabricate, test, deliver, and provide installation and/or operational support for new riser installation system per attached specifications RPP-SPEC-61788 and modification traveler MT-50341.

2.0 Background/Introduction
Type IV tanks are the series 100 SSTs found in 241-A, 241-AX, and 241-SX tank farms. The tanks are 75-foot diameter SSTs used to store legacy waste from past Hanford operations with a nominal capacity of 1,000,000 gallons each. These tanks are underground, and are constructed as a cylindrical, reinforced concrete shell with a domed roof and a flat bottom. The interior of the tanks contain a 75-foot diameter liner constructed of mild steel, extending up the tank wall to a height of 32 feet 6 inches. The concrete shells of these tanks maintain the structural integrity of the steel liner by protecting it from soil loads.

Access to the tank interior for installing various process equipment and instrumentation is provided by vertical risers that penetrate the tank dome. The 241-A tanks contain covered pits, which provide surface access to the process piping and some of the tank risers. Pit structures also provide the locations where jumpers (temporary piping connections), pumps, and other equipment are typically installed to establish waste transfer routing. The existing pits are constructed of reinforced concrete. Their walls and floors are located below grade, and they are provided with removable reinforced concrete cover blocks or steel cover plates located just above grade level.

3.0 Scope
The Subcontractor shall design, fabricate, test, deliver, and provide installation and/or operational support as required for a new riser installation system. The scope of this work is to develop a method and/or equipment capable of removing soil from above the tank, install a caisson/other shoring equipment, cutting and removing the tank dome core, and installing a riser up to 6 feet in diameter per RPP-SPEC-61788, and MT-50341.

The Subcontractor is responsible and accountable for the work performed under this SOW. The Buyer’s approval of design media indicates that the design media has been reviewed by the Buyer for interface control compatibility, and compliance with permits and the Documented Safety Analysis (RPP-13033). Approval by the Buyer does not indicate that the Buyer accepts the design media as being compliant with all of the requirements of this statement of work and should not be construed to preclude or relieve the subcontractor from compliance with any of the contract requirements.

This SOW defines the tasks required to complete the design, fabrication, test, delivery, and installation and/or operational support of the new riser installation system. All drawings,
specifications, reports, and other data or documentation, and any other written or electronically encoded materials (collectively, ‘documentation’) furnished by the Buyer and the Government to the Subcontractor shall remain the Buyer’s property. In addition, all documentation developed by the Subcontractor in the performance of Work in accordance with the Subcontract shall become the Buyer’s property.

Task 1 must be completed prior to any other task. Task 2 through Task 10 can be completed concurrently and/or out of order as applicable.

**TASK 1: Conceptual Design**
Prepare a conceptual design of the New Riser Installation methods and equipment. The conceptual design shall outline the type of equipment that will be utilized, whether it is custom designed or commercially procured and explain how that will be utilized. The conceptual design shall be developed in conjunction with TOC Engineering and in accordance with RPP-SPEC-61788, and MT-50341. The conceptual design phase shall produce documents that are necessary to portray the conceptual design and establish the design approach necessary to begin the detailed design. The documents to be produced at a minimum include overall concept system drawings, calculations, as necessary, to validate key system operations, and a final conceptual design report. The final conceptual design report shall at a minimum include detail of each new riser installation component, the tooling utilized for installing equipment, and any Proof of Concept testing that shall be pursued with justification for each test. All conceptual design media and reports shall be submitted to the Buyer in accordance with the MSR for review. Review comments shall be resolved and documented, and changes shall be incorporated in the design media as required.

**TASK 2: Proof of Concept Testing**
As outlined in the conceptual design report, the testing performed within this section shall provide assurance of the new riser installation design success within Type IV Tank. A testing plan shall be developed and approved prior to performance of any testing. The test plan shall outline the tests to be performed, data required to be collected, and acceptance criteria. Following completion of the proof of concept testing, a proof of concept testing results report shall be compiled and issued to document the tests performed, performance characteristics, system successes and failures, and potential areas within the new riser installation design that may need to be redesigned.

**TASK 3: Detailed Design**
The Detailed Design phase shall include all engineering related design media associated with development of the New Riser Installation System design. Design media may include, but is not limited to, drawings, reports, calculations, and specifications. The design media established in this phase shall meet all the requirements from RPP-SPEC-61788 and MT-50341. The design of the new riser installation equipment is the responsibility of the Subcontractor. The Subcontractor shall provide the full design media relative to the New Riser Installation System for: civil and mechanical (e.g. piping, caissons, soil removal, riser installation, and dome cutting and removal tools), electrical (e.g. power), instrumentation and control (e.g. instrumentation, monitoring, control, cameras, lighting, recording, communications), and interfaces. Each design package shall be completed in a timely manner to support procurement, fabrication, testing and installation. Each package shall identify any assumptions used in the design, specify interface requirements, document the design basis and contain appropriate supporting calculations.
The design media shall be submitted to the Buyer for review. Review comments shall be resolved and documented, and changes shall be incorporated in the design media as required. Submittals for review shall be arranged on a schedule to enable adequate review and comment resolution. The Subcontractor is responsible to perform design checking and design verification.

The Subcontractor is responsible to support and participate in the safety analysis process (hazard analysis, control selection) so that adequate and optimum safety controls (e.g., Safety Systems, Structures, and Components (SSCs), Technical Safety Requirement (TSR) design features) can be selected. This may include participation at hazard evaluation workshops (e.g., HAZOP), performing calculations and/or testing to determine system performance during off-normal and upset conditions, and participating in control selection workshops as different control options have different cost/benefit impacts that only the system designer may know.

Final safety basis requirements (e.g., details including safety SSC performance criteria, TSR design feature important attributes) will be included in subcontractor deliverables (e.g., vendor test plans, etc.) including how the requirement is met. This supports the TOC design verification.

**Drawings**
The Subcontractor shall prepare a full detailed design media package of the New Riser Installation system to support the installation of equipment in Type IV Tanks. The full detailed design drawings shall cover the following disciplines/areas relative to the New Riser Installation System: (1) Civil, (2) Mechanical (piping and caissons, soil removal and dome cutting tools, as necessary), (3) electrical and instrumentation and control (power, I & C, lighting, cameras, etc), and (4) Interfaces. The Subcontractor shall not place any proprietary legend or stamp on any design media produced as a result of this Work. All shop drawings or other data are the property of the United States Department of Energy. As-built drawings shall be required at the completion of fabrication, representing the true configuration of the final new riser installation system. All design media of the New Riser Installation System shall be submitted in accordance with the MSR.

**Calculations**
Calculations shall be prepared/modified as required to support the design. The calculations shall be issued as stand-alone documents, either individually or conveniently grouped.

Electrical load analysis shall be performed and shall be subject to review and approval by the Buyer. Scope of the analysis shall address connected loads to transformers, load calculations to support sizing of components, fault duty of the transformer, voltage drop, fault currents and a load coordination analysis. The electrical load analysis shall be issued as a stand-alone document. The electrical design shall consider electrical loads from concurrent retrieval projects where power is supplied from an existing transformer/service. Computer software used in performing calculations and analyses shall be verified and validated for use before approval of the design baseline documents.

**Specifications**
Engineering specifications shall be prepared/modified as required for procurement and fabrication.

**Equipment Lists (Spare Parts and Instrument)**
A master instrument list (MIL) with set point calculations shall be prepared. The MIL and associated calculations shall be updated as part of the re-design. The MIL shall include, at a
minimum, part/model number, related drawing(s), description, set point, range, and recommended PM frequency.

A spare parts list shall be prepared for the new riser installation equipment. The spare parts list shall include SSCs that are not readily accessible, are critical to the operability of the New Riser Installation System, and/or have a long lead procurement timeframe. The spare parts list shall identify, at a minimum, the component part/model number, description, related drawing(s), and recommended minimum quantity for spares.

**Design Reviews**
A design review shall be conducted for all transmitted design media. As necessary, this review may include the participation of the Subcontractor staff to present design details to the review panel for the systems being reviewed. Review comments will be dispositioned by the Subcontractor with input from the Buyer. The proposed method of implementing and documenting the review, including the Buyer’s participation, should be included in the Subcontractor’s proposal.

**Final Review & Design Release**
A Final Review shall be conducted of all design media prior to finalization and approval. This review ensures incorporation of comments and an overview of final detail elements. The preparation, review, approval and release of all design media needed for the procurement, fabrication, installation, testing, readiness assessment, start up, and operation of the New Riser Installation System is included in this scope of work. Examples of the required design media include, but are not limited to, drawings, specifications, calibration data sheets, calculations, software documentation, and testing documentation.

**TASK 4: Procurement and Fabrication**
The design and approval of a subsystem or component shall be completed prior to procurement and fabrication. Long lead procurement(s) shall be initiated as soon as reasonably achievable, in coordination with the funding available, approved system design, and the overall project schedule. Fabrication of equipment shall be planned and executed strategically to meet project schedule. A fabrication inspection and test (FIT) plan shall be submitted to, and approved by, the Buyer prior to the start of fabrication of a specific subsystem or component. The post-fabrication completed FIT plans shall also be submitted and approved by the Buyer. Prioritization and sequence of equipment fabrications shall be determined by project schedule.

Document submittal requirements for procurements and fabrications will only become fully realized once the New Riser Installation System design is completed. For example, during the detailed design phase a procurement specification may be written with additional procurement requirements that is not specified in the system specification, RPP-RPT-61788. The Subcontractor shall work with the Buyer to determine additional submittal requirements not specifically identified on the MSR. Examples of the types of documentation include:

- Weld Procedures
- Welder Qualifications
- Weld Maps
- Weld Inspection Reports
- CMTRs
- NRTL Reports, including UL508A Reports
- NEC Inspections (The completed electrical equipment shall be inspected by the Hanford Site NEC Inspector)
- Factory Acceptance Tests
- Cutsheets
- Identification of Age Control Items
- Shipping and Handling Requirements
- Certificates of Conformance
- Certificates of Calibration Reports
- Code Data Sheets
- Documentation of QC Witness of accomplished Acceptance Criteria

The Subcontractor to submit their redline procedure or equivalent configuration control process prior to initiating fabrication.

The Buyer reserves the right to perform source inspections and witness all tests and shall be given a minimum of ten (10) working days (Monday – Thursday) written notice prior to each test date.

**TASK 5: Performance and Post-Fabrication Testing**

Testing begins with the completion of fabrication and delivery of components to the test location and ends with the formal documentation of testing completion with punch list issues resolved. Prior to initiating testing, develop and issue a testing plan and procedures that encapsulate fabrication acceptance testing requirements from specifications, drawings, and other design media. The testing shall also test for system performance. At completion of testing a test results report shall be issued to document all tests that were performed, documenting data collected, and documenting the acceptance criteria being satisfactorily met. It is understood that as design, fabrication, and testing progresses additional testing requirements may be identified. As new testing is identified the Subcontractor shall submit a proposal (including detailed description of testing along with cost and schedule) to the Buyer for review and approval.

**TASK 6: Delivery**

Delivery of equipment shall be in accordance with RPP-SPEC-61788. All components shall be properly packaged and secured to prevent damage during shipping and handling. Delivery shall be coordinated with the Buyer to ensure completion of the Quality Assurance Inspection Program, ensure required pre-delivery documentation per the MSR is received and approved, and coordinate off-loading equipment and personnel are staged for receipt of equipment. Spare parts for the New Riser Installation System procured and/or fabricated by the Subcontractor shall be delivered in the same fashion as the original equipment.

**TASK 7: Final Design Package**

Recognizing nearly all documents will be submitted during the previous detailed design task, the scope of this task focuses on delivery of the balance of all engineering documents that were either not submitted previously or was revised during the fabrication and testing tasks. The final design package includes all design media needed for the procurement, fabrication, installation, testing, readiness assessment, start up, and operation of the New Riser Installation System. It also includes all design media necessary for interface points with other portions of the retrieval system. The Subcontractor shall not place any proprietary legend or stamp on any documentation produced as a result of this Work. All documentation developed by the Subcontractor in the performance of Work in accordance with the Subcontract shall become the Buyer’s property. The
final design package will represent the New Riser Installation System as tested and delivered and shall be representative of the true configuration of the final New Riser Installation System system. Unless already previously submitted and remains unaffected during completion of TASK 4 and TASK 5, included in this package as required:

- Engineering drawings (including fabrication and testing redlines)
- Calculations
- Test Procedures
- Test Reports and FAT documentation
- Completed FIT Plans
- Technical Evaluations
- Setpoint Evaluations
- O&M manuals
- Control System diagram
- Instrument Schedule
- Interlock Schedule
- Spare Parts List
- Procurement documentation

**TASK 8: Orientation and Training**
Training of the New Riser Installation System to the operations and maintenance crew(s) that will operate and maintain the riser installation equipment shall be provided. The scope of the training will be determined upon completion of the Detailed Design task. The scope of training will be agreed upon by the Subcontractor and the Buyer. An example of what scope this task may include, but not limited to:

- Orientation of equipment
- Training of system operation
- Training of system maintenance
- Provide opportunity for operational time utilizing test set-up
- Provide opportunity for construction assembly/disassembly

**TASK 9: Installation Support**
Provide engineering support, as needed, during construction activities, installation and testing, for resolution of field issues and activity coverage. This may include visits to the Hanford site tank farms to facilitate support depending upon the complexity of the issue.

**TASK 10: Spare Parts Procurement**
As a result of the Spare Parts list generated for the New Riser Installation System during the Detailed Design task, the Subcontractor and Buyer shall agree upon which items for the Subcontractor to procure and/or fabricate for spares. The spare parts that the Subcontractor procures and/or fabricates shall be done to the same QA pedigree that the originals were procured/fabricated. The associated documentation shall be submitted to the Buyer. A full itemized list of spare parts procured/fabricated and delivered to the Buyer shall be submitted in accordance with the MSR.

4.0 Submittals
In support of the work scope established in Section 3.0 above, submittals are listed on the Master Submittal Register (MSR).

Submittals shall be provided using the TOC Incoming Letter of Transmittal (form A-6005-315). All transmittal subject headings shall contain, at a minimum, the subcontract number, submittal number, and submittal description.

Request for additional information, clarification, or change recommendation shall be submitted to the Buyer through a Request for Information (RFI) on Buyer-supplied form number A-6003-417.

Submittals shall be provided in electronic format unless available only as a hard copy. Electronic submittals shall be sent in accordance with instructions provided by the Procurement Specialist. Electronic formats must be non-password protected in one of the following formats:

- Microsoft® Office Compatible
- Portable Document Format (PDF)
- Tagged Image File Format (TIFF)
- Moving Picture Expert Group (MPEG)
- Extensible Markup Language (XML)
- Graphics Interchange Format (GIF)
- HyperText Markup Language (HTML)
- Joint Photographic Experts Group (JPEG)
- Comma Separated Values (CSV)
- Text (TXT)
- Windows Media Video (WMV)
- Tagged Image File Format (TIFF)
- HyperText Markup Language (HTML)
- Graphics Interchange Format (GIF)
- Joint Photographic Experts Group (JPEG)
- Text (TXT)

5.0 Acceptance Criteria

Unless otherwise approved by Tank Operating Contractor (TOC), 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 subcontract must be listed or labeled by an organization currently recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL).

For any system or completed assembly containing electrical systems, the subcontractor shall provide evidence of NRTL listing along with labeling. If a category for the assembly does not exist, e.g. custom-made equipment, the subcontractor shall perform an independent NEC inspection providing a NEC Inspection Report upon delivery.

Custom-made Industrial Control Panel assemblies must comply with the provisions of UL508A. Include the following applicable requirements for custom-made assemblies:

For Industrial Control Panels, the subcontractor shall fabricate and certify the control panel in accordance with the provisions of UL508A and affix his label to completed assembly.

6.0 Configuration Management and Standards

6.1 Configuration Management Requirements
Configuration management requirements for this Release are based upon the types of engineering services being procured and include the TOC standards listed in Section 6.2 Applicable Standards and the statements below.

The Subcontractor is responsible for performing constructability review(s) on the Subcontractor’s design products. The constructability review(s) shall include a check for interferences and fit-up and consider the as-installed configuration as well as interim configurations during the installation process. In the event that the Subcontractor cannot adequately perform a constructability review due to incomplete or inadequate as-built or field walk-down information, the Subcontractor shall notify the Buyer’s Technical Representative to determine an acceptable alternate technical approach.

Design Analysis documentation shall include (1) through (6) below: (1) definition of the objective of the analysis; (2) definition of analysis inputs and their sources; (3) results of literature searches or other applicable background data; (4) identification of assumptions and indication of those that must be verified as the design proceeds; (5) identification of any computer calculation including computer type, computer program (e.g., name), revision identification, inputs, outputs, evidence of or reference to computer program verification and the bases (or reference thereto) supporting application of the computer program to the specific physical problem; (6) review and approval.

6.2 Applicable Standards

APPLICABLE CODES AND STANDARDS

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>1.</td>
<td>RPP-SPEC-61788 Specification for New Riser Installation Methods and Equipment Development for SSTs in A/AX Farm</td>
</tr>
<tr>
<td>2.</td>
<td>MT-50341 New Riser Installation for SSTs in A/AX Farm</td>
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7.0 ESH&Q Requirements

7.1 Quality Assurance Requirements

The Contractor shall have a documented and implemented Quality Assurance Program. The Contractor’s program shall be submitted for review/approval against the requirements identified on site form A-6006-661 Quality Assurance Requirements dated 4/4/2018. This work is designated as Quality Level 3.

7.1.1 Supplier Quality Assurance Program

The Subcontractor's Quality Assurance Program shall be subject to review at all times, including prior to award.

7.1.2 Supplier Quality Assurance Program Changes
The Subcontractor shall, during the performance of this subcontract, submit proposed changes to their approved quality assurance program to the WRPS Buyer for review and concurrence prior to implementation.

7.1.3 Quality Assurance Oversight

WRPS personnel will co-ordinate with the supplier to conduct scheduled and periodic oversight of activities or products associated with this scope of work.

7.2 Price-Anderson Amendments Act Requirements

The subcontractor shall comply with Article 2.11 entitled, Price-Anderson Amendments Act (PAAA), contained in the General Provisions and shall have a process in place to ensure that noncompliance documentation that affects work performed for WRPS, is submitted to WRPSPAAA@RL.Gov. The subcontract/PO number must always accompany the material being provided.

Subcontractor personnel shall be trained to the nuclear safety rules consistent with their specific position and assigned work.

7.3 Special ESH&Q Requirements

Preliminary hazard assessment PHA ID: 32 is to be used for general office duties performed in TOC-controlled office facilities and/or observations/walkthroughs in tank farm non-radiological and controlled radiological areas, including soil contamination areas and buffer areas, requiring a General (Not Specific) Radiological Work Permit (RWP) only. Only observation activities are allowed (no hands-on work activities may be performed). Ladder/scaffolding access is not allowed. Prior to performing any other activities, a Job Hazard Analysis (JHA) must be completed to cover the activities to be performed. The JHA must be approved by a TOC Safety Representative.

8.0 Verification/Hold Points

As part of the subcontract submittal process and unless otherwise specified, TOC will review subcontractor prepared documents and designate all required TOC review, inspection, witness, and notification points.

This SOW defines project technical support, engineering, and design, and generation of technical documentation. Hold points for these activities will be specifically identified in the form of written review comments from the customer on the various deliverables. 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.

These shall require documented resolution, satisfactory to the comment originator, before comment closure and final approval of each deliverable. In case any comments cannot be satisfactorily resolved with the originator, however, the BTR reserves the right to make a final determination on comment disposition and closure based on the needs of the project and requirements of this SOW. If such a case arises, the BTR will document the decision and remove the hold point.

9.0 Reserved
10.0 Work Location/Potential Access Requirements

The primary work location for the scope of work describe herein will be at the Subcontractor’s facilities. Periodic Hanford site/work facility visits are required for reporting, reviews, and coordination activities. With prior notification, clearance, and training Hanford Site visits will also be made available for walk downs, deliveries, installation, site acceptance testing, startup, and training.

11.0 Training

Subcontractor’s personnel required to be on the Hanford Site for more than six (6) consecutive days in support of this scope of work shall at a minimum, complete Hanford General Employee Training (HGET). This is a Hanford-specific computer assisted learning module. The Subcontractor should assume 8 hours for an employee to complete the learning module on the Hanford Site.

The Subcontractor shall be responsible for all costs associated with training and/or continuing education for Subcontractor’s employees that is not Hanford-specific (e.g., commercially available training for certifications, etc.). The Subcontractor shall maintain company and regulatory required certifications and qualifications for their personnel.

12.0 Qualifications

The Subcontractor shall demonstrate proven performance in delivering projects similar in scope, total cost, and complexity on time and within budget, with demonstrated technical competency under an implemented NQA-1 Quality Assurance Program.

The Subcontractor’s past 10 year history shall demonstrate experience in similar and relevant work. Personnel performing work shall have training, experience, qualifications, and certifications to perform these tasks. The Subcontractor shall maintain company and regulatory required certifications and qualifications for personnel supporting this scope of work.

Engineering Design Lead(s) for mechanical systems design and analysis, structural design and analysis, and electrical, instrumentation and controls shall have a minimum of a B.S. in Engineering with 10 years of engineering experience and/or hold a current registered professional engineering license. The Engineering Design Lead(s) and Quality Assurance Engineer are key positions requiring Buyer approval for assignment of these positions.

13.0 Special Requirements

Not Applicable

Use of Government Vehicles

There is no anticipated need for any Subcontractor employees to use a Government-furnished vehicle in the performance of this statement of work. The Subcontractor’s employees, therefore, are specifically prohibited from driving any Government-furnished vehicles under the performance of this statement of work unless this statement of work is formally so modified by the parties and the employee(s) will present a valid driver’s license to the BTR for review.
14.0 Reporting/Administration

14.1 Kickoff Meeting
A kick-off meeting will be held after issuance/acceptance of a Subcontract. The meeting’s purpose is to provide the Subcontractor with additional information as required to accomplish the scope specified in this SOW, and to develop lines of communications, and a working relationship. This meeting will focus on a discussion of the work scope and goals and roles and responsibilities of each participant. Pertinent documents will also be reviewed and discussed. The Subcontractor shall prepare meeting minutes that emphasize agreements, commitments, and planned actions. Draft minutes shall receive participants’ agreement and WRPS project management team’s agreement before being submitted as the final minutes. The Subcontractor shall submit the final minutes after the meeting in accordance with the MSR.

14.2 Status Meetings
Status meetings will be held weekly either by telephone or in person to ensure that the Subcontractor is proceeding as instructed, to review the progress, and to provide weekly schedule status. The Subcontractor shall prepare meeting minutes that emphasize agreements, commitments, and planned actions. Draft minutes shall receive participants’ agreement and WRPS project management team’s agreement before being transmitted as the final minutes. The Subcontractor shall transmit meeting minutes through TOCVND@rl.gov in accordance with the MSR.

14.3 Other Meetings and Communications
Any oral communications, or informal written communications (e.g. e-mail), affecting the approved work scope shall be brought to the attention of the WRPS Procurement Specialist/Buyer by the Subcontractor’s project manager as soon as possible, but absolutely before the Subcontractor takes any action. Any changes or additions affecting the work scope shall be formalized by written contract amendment issued by the Buyer. The Subcontractor shall prepare and submit meeting minutes for meetings with WRPS project personnel (including design review meetings). The meeting minutes shall emphasize agreements, commitments, and planned actions. Draft minutes shall receive participants’ agreement and the WRPS project management team’s agreement before being submitted as final.

14.4 Management Reports
The Subcontractor shall provide a resource loaded execution schedule. The schedule shall be submitted for approval at the beginning of the project and baselined. Schedule status updates shall be incorporated weekly at a minimum and submitted to the Buyer each Monday for approval in support of a project schedule status meetings held each Tuesday. Any emerging technical and performance issues shall be brought to the attention of the WRPS project management team.

The Subcontractor shall submit a Monthly Activity Status Report by the fifth of each month for the previous month. The Monthly Activity Status Report shall include, but not be limited to, the following information:
• Project Manager’s narrative accomplishment highlights, status assessment for activities planned for the next month (i.e. accomplishments and 30 day look ahead).
• Issues and concerns (cost, schedule, technical), recommended solutions, and progress made toward resolution.
• New or outstanding agreements and/or commitments for problem or technical issue resolution.
• Schedule performances with respect to the Performance Measurement Baseline for current month and contract-to-date.
• Action Item List showing the cumulative status of action items.
• Change Management Log (monthly updates).
• Monthly Accrual Report

The Subcontractor shall submit to WRPS a fiscal month end percent complete on work activities no later than the Tuesday following the fiscal month end closing date.

15.0 Workplace Substance Abuse Program Requirements

A Workplace Substance Abuse Program is not required for this SOW.
APPENDIX B: PROCUREMENT QUALITY ASSURANCE CLAUSES WORKSHEET

Procurement quality clauses may be used for the acquisition of items and services. The clauses establish contractual obligations for quality program systems, identification, traceability, documents submittals, testing, reporting, qualification, special process controls, inspections, etc. This worksheet is for Internal Use Only and will not be sent to the Subcontractor in the SOW package.

The clauses have been created as a convenient way to communicate quality requirements to the subcontractor. By checking the appropriate clause below, the Procurement Specialist will insert the appropriate contract language in the QA section of the subcontract/purchase order.

The specific language for each clause and further information can be found at http://idmsweb.rl.gov/idms/livelink.exe/207075580/QA_AVS_Appedix.doc?func=doc.Fetch&nodeid=207075580

PREAWARD AND SUPPLIER FABRICATION

B01 () Quality Assurance Program Submittal and Pre-award Survey
B04 () Supplier Quality Program Evaluation
B07 () Certified Quality Program
B10 () Quality System for Materials Specifying Testing Per ASME
B12 () Supplier Use of Calibrated Equipment
B13 (X) Fabrication/Inspection/Test Plan
B14 () Supplier Use of Software Controlled Instruments and Equipment Containing Embedded Software (Firmware)
B15 (X) Supplier Use of Commercial off the Shelf Software
B16 (X) Source Inspection
B17 () Certified Electrical Inspector (Non-NEC-IAEI)
B18 () Supplier Use of Spreadsheet Calculations Using Commercial off the Shelf Software
B19 () First Article Inspection-Source
B22 (X) Nonconformance Documentation and Reporting
B25 (X) Certified Weld Inspector (CWI)
B28 (X) Welding Procedures and Qualifications
B31 (X) Nondestructive Examination Process

MATERIAL IDENTIFICATION

B32 () Identification of Items with Part number/Model number
B33 () Identification of Items with Catalog Cut
B34 () Identification of Items
B37 () Identification and Traceability of Items
B43 (X) Identification of Age Control Items

TESTING AND TEST DATA

B46 () Liquid Penetrant Material Certification
B49 (X) Certified Material Test Report (If applicable)
B52 (X) Inspection and Test Report
B55 () Flame Test Report
B58 () Calibration Report
B61 () Certification of Calibration
B64 () Repair and Calibration Services
INSPECTION AND ACCEPTANCE CRITERIA

B65  (X)  Nationally Recognized Testing Laboratory (NRTL) Listed or Labeled
B66  ()   NRTL Listed or Labeled components in a system

MATERIAL HANDLING

B85  (X)  Packaging/Shipping Procedures
B88  ()   Direct Drop Shipment