

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. 117	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Richland Operations Office U.S. Department of Energy Richland Operations Office P.O. Box 550, MSIN A7-80 Richland WA 99352	CODE 00601	7. ADMINISTERED BY (If other than Item 6) Richland Operations Office U.S. Department of Energy Richland Operations Office P.O. Box 550, MSIN A7-80 Richland WA 99352	CODE 00601
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) MISSION SUPPORT ALLIANCE, LLC Attn: Mr. J. Frank Armijo 2490 Garlick Boulevard RICHLAND WA 99354		(x) 9A. AMENDMENT OF SOLICITATION NO.	
CODE 800095031 FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC06-09RL14728	
		10B. DATED (SEE ITEM 13) 04/28/2009	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended.  is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. ACCOUNTING AND APPROPRIATION DATA (If required)**

Not Applicable

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)
X	I.139 DEAR 970.5204-2 Laws, Regulations, and Directives

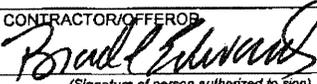
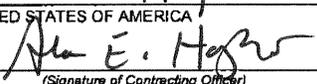
**E. IMPORTANT:** Contractor  is not.  Is required to sign this document and return 1 copies to the issuing office.

**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

This modification updates Section C, Subsection 3.1 and Attachment J-2, Laws, Regulations, and DOE Directives to replace CRD O 413.3A, Change 1, Program and Project Management for the Acquisition of Capital Assets with CRD O 413.3B, Program and Project Management for the Acquisition of Capital Assets. The modification deletes CRD M 413.3-1, Project Management for the Acquisition of Capital Assets. Per MSA Letter MSA-1101034AR1 dated March 25, 2011, MSA does not have Capital Asset projects that fall within the thresholds of this order. There are no cost or schedule impacts as a result of this change.

There is no change in the total contract amount as a result of this modification. This modification does not add additional funds to the contract. Accordingly, work under the Contract, such as described herein, must be performed within the amount of funds which have Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) BRAD A. EDWARDS, DIR	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Alan E. Hopko Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 5-11-11
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 5/11/11

Changes Page for Section C

### C.2.5.2 Project Acquisition and Support

#### Background:

Due to the duration, complexity and uncertainties of the Hanford Site cleanup mission, an effective acquisition strategy will include alterations over the life-cycle, such as changes to deliverables that will span across several contracting terms. Because continuity is needed while the Hanford Site experiences contractor turnover, it is sometimes prudent for DOE to perform certain project activities that its contractors would ordinarily do.

The project acquisition and support function includes project initiation, design, construction, and/or procurement services. These service capabilities are intended to enable DOE to separately accomplish its owner responsibilities in delivering new projects. Because the nature of this type of work is cyclical, these services will be funded on an as-needed basis. It is not expected that the resources necessary to execute these functions will be retained as a permanent operating capability; rather, they will be obtained when a need is identified by DOE and funds are available.

#### Key Customers:

- DOE-RL
- DOE-ORP

#### General Scope and Outcome:

The Contractor shall provide the means to enable DOE to perform its project owner management responsibilities, in the areas of planning and procurement actions for new projects, by supporting the Critical Decision (CD) 0 through CD-1/2 phase of new project life-cycles and, when requested, act as project lead in support of the CD-3 and CD-4 phase of new projects.

The desired outcome is dependent upon the end product required, such as a fully developed and awarded project contract, or a complete project, from initiation to turn-key delivery. The result is a flexible acquisition capability that yields well-conceived, technically sound, and successfully executed projects.

#### Detailed Scope:

##### *Mission Analysis*

The Contractor shall:

- Prepare draft and/or final CD-0 "packages" as requested. (Note: "Package" includes some or all of the CD-0 elements required by CRD O ~~413.3A~~413.3B, Program and Project Management for the Acquisition of Capital Assets ~~or recommended by CRD M 413.3-1, Project Management for the Acquisition of Capital Assets.~~)
- Identify gaps in current mission capabilities necessary to complete the planned work scope.
- Performing engineering studies and analyses to support the CD-0 phase of new project life-cycles.
- Conduct acquisition planning, including acquisition methods alternatives analysis.

- Conduct regulatory analyses.
- Identify down-selecting technologies for specified applications.

#### *Project Planning and Procurement*

For directly-contracted new (capital or operating) projects, the Contractor shall document the scope and develop the independent cost estimates.

For new capital projects, the Contractor shall:

- Develop design criteria and pre-conceptual designs.
- Prepare draft and/or final CD-1/2 packages, as requested.
- Conduct design reviews, design verifications, and validations, and perform value engineering studies to support the CD-1/2 phase of new capital projects' life-cycles.

For new operating projects, the Contractor shall develop the CERCLA removal and/or response reports (e.g., Remedial Investigation/Feasibility Study report) for DOE approval.

#### *Project Execution*

When executing directly-contracted new capital projects, the Contractor shall:

- Prepare draft and/or final CD-3 packages as requested.
- Conduct procurement and constructability analyses.
- Perform claims avoidance and mitigation reviews and provide sequencing plans.
- Perform cradle-to-grave acquisition services, including:
  - Preparing procurement packages;
  - Evaluating technical proposals and contractor estimates;
  - Making awards; and
  - Administering contracts.
- Provide engineering during construction and construction management.
- Perform acceptance inspection for the Government of construction performed by other contractors.
- Manage physical system and contract interfaces.
- Manage transition and turnover.
- Establish an independent organization to perform construction acceptance inspection for MSC construction projects.

#### Boundaries, Constraints and Interfaces:

Boundaries and constraints:

- Acquisition support functions will be conducted on an as-needed basis via task orders; this service capability may not need to be sustained on a continuous basis.

Contractor interfaces: None.

### **C.2.5.3 Independent Assessment and Analysis**

Background:

Given the ongoing need for enhanced credibility and specialized expertise, there is a need for independent assessments, verifications, and/or analyses to be performed on projects and mission-related work.

#### Key Customers:

- DOE-RL
- DOE-ORP

#### General Scope and Outcome:

The Contractor shall provide a capability for ensuring that work is being accomplished in accordance with ESH&Q requirements, to perform special DOE studies, and obtain recommendations on an as needed basis to resolve technical and regulatory issues.

The desired outcome is timely access to highly competent and capable specialists that are able to conduct thorough analyses and verification of project or mission-related work requirements, and provide sound recommendations for project and/or contractor improvements.

#### Detailed Scope:

The Contractor shall:

- Provide specialty technical expertise, on a task-order basis, for areas such as value engineering studies, project management, project controls, cost estimating and scheduling, ESH&Q compliance, verification of cleanup and radiological clearance, and conduct independent analyses and generate technical assessment reports as needed in these areas
- Provide technical support services, e.g., collection and analysis of field samples, as needed for the verification of compliance with specified ESH&Q requirements.

#### Boundaries, Constraints and Interfaces:

Boundaries and constraints:

- Other than internal standard business process (self) assessments, the MSC will not be tasked to perform "independent" assessments of the MSC, as these will be performed by a third party.
- The independent assessment function will only be conducted on an as-needed basis via task orders – this service capability may not need to be sustained on a continuous basis.

Contractor interfaces: None.

### **C.3 DESCRIPTION OF MISSION SUPPORT GENERAL PERFORMANCE REQUIREMENTS**

The scope of this section includes project management; safety management, quality assurance, business administration and other general performance requirements. These are internal services which support other functional areas within the MSC; therefore, key customers are not listed. The Contractor shall develop, implement, and maintain the required plans and actions in

accordance with the laws, regulations, and DOE directives applicable to each of the scope areas. The Contractor shall optimize these services through an integrated planning approach.

### C.3.1 Project Management

Successful execution of the project management work scope will ensure cost and schedule efficiency while minimizing programmatic risks. The Contractor shall ensure that project management practices are used in the performance of work including development of project management plans, baselines, disciplined change control processes, and service level agreements.

#### Background:

The MSC is not a traditional project, but many project management practices and principles are applicable to assure effective and efficient delivery of products and services under this Contract. The application of project management principles shall be applied using a graded approach. Some activities, such as capital infrastructure reliability projects, require the implementation of rigorous project management techniques. DOE will continuously seek to improve performance under this Contract, and will seek effective Contractor project management and execution.

#### General Scope and Outcome:

The Contractor shall meet the requirements of CRD O ~~413.3A~~413.3B, Program and Project Management for the Acquisition of Capital Assets and CRD M ~~413.3-1~~, ~~Project Management for the Acquisition of Capital Assets~~ utilizing a graded approach.

The Contractor shall:

- Provide all management and technical information and support necessary;
- Enable DOE to meet the data requirements of the DOE Integrated Planning, Accountability and Budgeting System;
- Ensure transparency in project performance and efficiency in project execution;
- Support audits and evaluations; and
- Support other DOE performance assessment and information needs.

All management and technical information developed under his Contract shall be accessible electronically by the Government.

The desired outcome is predictable and consistent contractor performance aligned to customer needs conducted within annual and multi-year baselines.

#### Detailed Scope and Requirements:

##### C.3.1.1 Integration, Control, and the Earned Value Management System

The Critical Decision (CD) process described in CRD O ~~413.3A~~413.3B, Program and Project Management for the Acquisition of Capital Assets and CRD M ~~413.3-1~~, ~~Project Management for the Acquisition of Capital Assets~~ is applied to individual projects (e.g., capital or line item projects) using a graded approach. The CD process is accomplished for other activities by successful execution of this Contract. DOE accomplishes CD-0 and CD-1 by issuing this solicitation. DOE accomplishes CD-2 and CD-3 by approval of key deliverables.

The Contractor shall prepare and submit for DOE approval a *Project Execution Plan (PEP)* consistent with a graded application of the PEP requirements in CRD O ~~413.3A413.3B~~ and ~~CRD M 413.3-4~~. The PEP shall describe the approach for managing and controlling all activities necessary to execute this Contract and shall focus on Contractor policies, methods, and approach to project integration of scope, schedule and cost information.

The Contractor shall provide, as an attachment to the PEP, a *Project Control System Description* for DOE approval that complies with the requirements of CRD O ~~413.3A413.3B~~, ~~CRD M 413.3-4~~ and American National Standards Institute (ANSI/ Electronic Industries Alliance (EIA) -748-B-2007, *Earned Value Management Systems (EVMS)*).

The System Description shall describe the management processes and controls that will be utilized to implement an EVMS, manage and control work, and complete Contract requirements. The Project Control System Description shall include:

- The baseline development process and the hierarchy of documents that will be used to describe and maintain the MSC performance management baseline (PMB);
- The process the Contractor intends to use for earned value management, change control, configuration control, interface control, and document control;
- The organizational breakdown structure, including roles and responsibilities of each major organization and identification of key management personnel; and
- A list of project software the Contractor proposes to use for project control.

The Contractor shall comply with the requirements of the Section I Clause entitled, *FAR 52.234-4, Earned Value Management System*, and self-certify the EVMS against the ANSI standard. This self-certification should utilize a streamlined certification process that meets the intent of the EVMS guidelines (ANSI/EIA-748), provide documentation of conformity with this standard, and notification of any significant system changes. The Contractor shall provide all necessary support to conduct the initial and any subsequent evaluations and closure of all corrective actions. For major or critical work the Contractor shall flowdown to each subcontractor the EVMS requirements for specific areas of Contract scope.

Upon approval of the PEP by DOE, the Contractor shall fully implement the *Project Control System Description*. The Contractor shall obtain Contracting Officer approval prior to implementing materially significant changes to the PEP. The Contractor shall provide DOE with access to all pertinent records, data, and plans for purposes of initial approval, approval of proposed changes, and the ongoing operation of the project control system.

### **C.3.1.2 Scope, Schedule, and Cost Baseline**

#### **C.3.1.2.1 Performance Measurement Baseline**

The Contractor shall develop and maintain an annual and multi-year MSC PMB utilizing a "rolling wave" concept in which the upcoming fiscal year is addressed in detail and the following years in decreasing levels of detail. Life-cycle baseline information beyond the upcoming fiscal year and the succeeding four (4) years may be provided at a summary level of detail. The PMB is a life-cycle integrated and traceable technical scope, schedule, and cost baseline that encompasses all activities to execute the requirements of this Contract. The PMB shall include the following:

- The following baseline documents shall be viewed collectively as the technical scope for the PMB:
  - The Contract Statement of Work;

- Approved interface control documents;
- Work Breakdown Structure (WBS) dictionary sheets, with DOE approval required at the Contractor Control Level 3;
- Schedule at WBS level 4; and
- Time phased life-cycle cost estimate.

The PMB shall comply with the following requirements:

- The PMB scope, cost and schedule shall be linked through utilization of the WBS provided by DOE or as otherwise approved by DOE. The WBS shall encompass all activities required by this Contract and provide the basis for all project control system components, including estimating, scheduling, budgeting, and project performance reporting. Control accounts within the WBS shall be identified.
- The baseline and management thereof shall comply with; ANSI/EIA-748-B-2007 Earned Value Management Systems (EVMS), CRD Order [413.3A413.3B](#), Program and Project Management for the Acquisition of Capital Assets, ~~and CRD M 413.3-1, Project Management for the Acquisition of Capital Assets~~. The Contractor shall provide information for DOE to certify the Contractor's EVMS or an alternative performance management system, as described in the PEP.
- The PMB schedule shall:
  - Include all significant external interfaces, all TPA milestones and other regulatory and DNFSB commitments, and Government furnished equipment or information dependencies.
  - Be an integrated, logical network-based plan that correlates to the WBS, is vertically traceable to the EVMS control accounts, and successfully aligns the MSC schedule. The schedule shall be capable of summarizing from control accounts to higher WBS levels.
  - Level of Effort (LOE) activities shall be logic linked in the schedules, with all activity costs linked to the schedules.
- Any additional working level schedules deemed necessary by the Contractor shall be integrated with the PMB and able to provide earned value reporting in compliance with ANSI/EIA-748-B-2007, *Earned Value Management Systems (EVMS)*.
- PMB cost estimate shall include project resource plans, detailed resource estimates, basis of estimates, budgetary requirements, and identification of direct costs, indirect costs, management reserve, and fee.
- The method used to determine earned value shall be identified for each control account.
- The PMB shall be accessible to by DOE at any time through access to electronic files.
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#### **C.3.1.2.2 Baseline Submittal**

The Contractor shall develop and submit an initial PMB for DOE approval. The baseline submittal shall include:

- WBS and WBS dictionary sheets at the contractor control level;
- Basis of estimate for each WBS element at the control account level 4; and
- Time-phased cost estimates and resource-loaded schedule at WBS level 4.

The WBS, WBS dictionary data, and the Basis of Estimate data shall be provided in either Microsoft Word<sup>®</sup> or Microsoft Access<sup>®</sup> format. Cost data shall be provided in Microsoft Access<sup>®</sup> or Excel<sup>®</sup> format and the schedule shall be provided utilizing the current version of Primavera Systems, Inc., Enterprise for Construction<sup>®</sup> software unless agreed to otherwise by DOE.

### C.3.1.2.3 Baseline Control Process

The baseline change process will be sufficiently rigorous and disciplined to ensure that the PMB is accurate, up to date and capable of providing meaningful data and information.

The Contractor shall develop and submit for DOE approval, a *MSC Baseline Change Control Process* document, with change authorities consistent with the approved *Project Execution Plan* and CRD O [413.3A413.3B](#), *Program and Project Management for the Acquisition of Capital Assets*. The Contractor shall implement the *Project Baseline Change Control Process* with the PMB used as the reference for all baseline changes.

### C.3.1.3 Performance Reporting

The Contractor shall submit a Monthly Performance Report representing the prior month's performance and transmit it to DOE by the last Tuesday of each month. The Monthly Performance Report shall be a written report that includes, but is not limited to, the following:

- Project manager narrative assessment.
- Significant accomplishments and progress towards completion of MSC goals and objectives.
- Major issues including actions required by the Contractor and DOE.
- Analysis of funds expenditure, with projections for the Project by fiscal year and life of the Contract.
- Evaluation of safety performance (including ISMS metrics and all recordable injuries, lost-time injuries, and near-misses).
- Evaluation of performance metrics for key services provided under this Contract.
- Evaluation of the condition of infrastructure and utilities, including facilities, equipment, and systems.
- Project Baseline Performance including:
  - EVMS information using the following OMB Contract Performance Report formats (DID-MGMT-81466):
    - Format 1, DD Form 2734/1, Mar 05, Work Breakdown Structure,
    - Format 2, DD Form 2734/2, Mar 05, Organizational Categories,
    - Format 3, DD Form 2734/3, Mar 05, Baseline,
    - Format 4, DD Form 2734/4, Mar 05, Staffing, and
    - Format 5, DD Form 2734/5, Mar 05, Explanations and Problem Analysis;
  - Stated baseline schedule, which reflects progress against the baseline and includes variance discussion(s), and potential issues related to significant milestones;
  - Contract estimates-to-complete; and
  - Change control section that summarizes the scope, technical, cost, and/or schedule impacts resulting from any implemented actions; and that discusses any known or pending baseline changes and utilization of management reserve.
- Risk Assessment including identification of critical risks, actions planned, and actions taken to address those risks, potential problems, impacts, and alternative courses of action,

including quality issues, staffing issues, assessment of the effectiveness of actions taken previously for significant issues, or the monitoring results of recovery plan implementation.

- Actions required by DOE including GFS/I and DOE decisions.
- Business structure information to demonstrate ongoing compliance with the requirements of Section H Clause entitled, *Self-Performed Work*.

The Contractor shall participate in a monthly contract/project review with DOE and be prepared to address any of the information in the monthly report, as well as other information requested by DOE.

#### **C.3.1.4 Risk Management**

The Contractor shall implement a risk management process and submit a *Risk Management Plan* to DOE for approval. The *Risk Management Plan* shall be in compliance with CRD O ~~413.3A413.3B~~, *Program and Project Management for the Acquisition of Capital Assets*; ~~CRD-M 413.3-1 Project Management for the Acquisition of Capital Assets~~; and EM policy guidance, *Policies for Environmental Management Operating Project Performance Baselines, Contingency and Federal Risk Management Plans, and Configuration Control*, dated July 10, 2006.

*The Risk Management Plan shall also specify:*

- The use of probabilistic risk analysis using Monte Carlo simulation and identify when Monte Carlo simulations will be run,
- Probabilistic risk analysis with sufficient analytical information to establish cost and schedule confidence levels, and
- The recommended management reserve required to adequately address Contractor-controlled risk.

The Contractor shall utilize logic linked schedules compatible for use by DOE in conducting DOE project risk management assessments and analysis. The Contractor's identified project risks shall be linked to the activities in the schedule.

Risk and decision management activities shall be coordinated on a continuing basis with DOE and other Hanford Site Contractors. Contractor risk analysis information pertaining to "cross-cutting" decisions shall be communicated to DOE and other Hanford Site Contractors, including agreement as to who should have the risk management lead for each risk.

#### **C.3.1.5 Design, Procurement, Construction, and Acceptance Testing**

This Section applies to all capital asset construction activities performed as part of executing this Contract. In the context of this Section, the terms "acceptance testing" and "acceptance" refer to the Contractor's testing and acceptance of MSC-related systems and equipment. The Contractor shall provide the necessary documents to support the critical decision process in CRD O ~~413.3A413.3B~~, *Program and Project Management for the Acquisition of Capital Assets*.

##### **C.3.1.5.1 Project Design**

- Design Authority: The Contractor shall act as the design authority unless otherwise determined in accordance with CRD O ~~413.3A413.3B~~, with duties to include developing design solutions, preparing all design media and documentation, maintaining the design basis, and performing design reviews.
- Design Standards: The Contractor shall submit for DOE-RL approval a list of the standards to be used in the design of facilities and equipment. The Contractor shall ensure that the

project's design meets all applicable standards, and that the list of applicable standards is maintained under configuration control. The Contractor shall integrate safety into the design process.

- Design Reviews: The Contractor shall conduct periodic design, constructability, and operability reviews. When directed by DOE-RL, the Contractor shall facilitate independent DOE design reviews in support of the requirements of CRD O ~~413.3A~~413.3B, to demonstrate that the project will perform its intended functions and meets requirements. The Contractor shall provide the design at the end of the three (3) design stages (conceptual, preliminary and final), or as otherwise directed by DOE, for DOE review. The Contractor shall resolve any comments resulting from these reviews with DOE-RL.
- Release for Construction: Upon receipt of CD-3, *Approve Start of Construction*, and resolution of DOE comments, DOE-RL will authorize the Contractor to release the design for construction.

### **C.3.1.5.2 Procurement, Construction, and Acceptance**

The Contractor shall prepare and submit a *Procurement, Construction, and Acceptance Testing Plan* for DOE-RL approval and update the Plan as required after initial submission. The Plan shall include:

- Description of procurements, construction bids, and work packages;
- Construction management;
- Construction site management;
- Acceptance testing; and
- Descriptive linkage to the Project Execution Plan and the Integrated Safety Management System Description.

The Contractor shall procure all required material and equipment through the preparation of bid packages and solicitations; evaluating, awarding, and managing subcontracts; accepting subcontractor materials and equipment; and verifying subcontractor acceptance tests.

The Contractor shall submit a *Purchasing System* for DOE-RL approval in accordance with the Section I Clause entitled, *FAR 52.244-2, Subcontracts*.

The Contractor shall certify to DOE-RL that construction has been initiated.

The Contractor shall maintain a construction inspection system and acceptance testing system, perform inspections and testing, and ensure that the work performed under the Contract conforms to Contract requirements. The Contractor shall maintain complete inspection and testing records and make them available to DOE-RL. DOE-RL may elect to use independent acceptance inspectors to participate in acceptance testing and system turnover. The Contractor shall develop and submit an integrated *Construction and Acceptance Testing Program* to DOE-RL for approval that includes the following elements:

- Verification and approval of all vendor's shop drawings to assure conformity with the approved design and working drawings and specifications.
- Acceptance test plans and procedures for on-site Contractor/subcontractor inspection of construction workmanship, compliance with design drawings and specifications, management of the design construction changes, and criteria for acceptance of fabricated and constructed items.

- Integrated construction acceptance test plans and inspection of construction to assure adherence to approved working drawings and specifications.

The Contractor shall prepare for DOE-RL review and approval an *As-built Program Description*. The as-built process and associated procedures shall identify:

- Description of the as-built process, including the role of DOE-RL and the operations contractor. The operations contractor shall participate in acceptance of the as-built design, following construction, and commissioning.
- Drawing series to be as-built.
- Document control process for maintaining as-built.
- Procedures for modification of the as-built.

During the construction and acceptance phase, the Contractor shall remain current on the process and facility as-built program. The Contractor shall report the status of the as-built program in accordance with the process defined in the *Procurement, Construction, and Acceptance Testing Plan*.

The Contractor shall provide all necessary labor, equipment, materials, test equipment, spare parts sufficient to maintain all structure, systems, and components in an operable condition, and other related resources for the acceptance testing program.

DOE-RL, and other Hanford Site contractor staff identified by DOE-RL, shall be invited to participate in all construction project overview activities. Construction overview activities include any meeting that discusses significant issues associated with the establishment, development, and/or progress of the construction activities.

The Contractor shall certify to DOE-RL that facility acceptance has been completed. Completion of facility acceptance is defined when all components and systems associated with the facility have been installed, functionally tested and the facility design as-built documents are complete in accordance with the *Procurement, Construction, and Acceptance Testing Plan*. Facility acceptance shall require acceptance of components and systems, including as-built design drawings.

**ATTACHMENT J-2**

**REQUIREMENT SOURCES AND IMPLEMENTING DOCUMENTS**

The following lists are provided in accordance with the Section I Clause entitled, *DEAR 970.5204-2, Laws, Regulations, and DOE Directives*.

*LIST A: APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS*

The Federal, state, and local regulations found in the following list constitute the *List A – Applicable Federal, State, and Local Regulations*, referenced in the Section I Clause entitled, *DEAR 970.5204-2, Laws, Regulations, and DOE Directives*. The list of laws and regulations is not comprehensive. Omission of any applicable law or regulation from this list does not affect the obligation of the Contractor to comply with such law or regulation.

Table J-2.1 Code of Federal Regulations (CFR)

<b>Document Number</b>	<b>Title</b>
10 CFR 71	Packaging And Transportation Of Radioactive Material
10 CFR 73	Physical Protection Of Plants And Materials
10 CFR 436	Federal Energy Management And Planning Programs
10 CFR 707	Workplace Substance Abuse Programs At DOE Sites
10 CFR 708	DOE Contractor Employee Protection Program
10 CFR 710	Criteria And Procedures For Determining Eligibility For Access To Classified Matter Or Special Nuclear Material
10 CFR 712	Human Reliability Program
10 CFR 719	Contractor Legal Management Requirements
10 CFR 820	Procedural Rules For DOE Nuclear Activities
10 CFR 830	Nuclear Safety Management (Subpart A Only)
10 CFR 824	Procedural Rules for the Assessment of Civil Penalties for Classified Information Security Violations
10 CFR 835	Occupational Radiation Protection
10 CFR 850	Chronic Beryllium Disease Prevention Program
10 CFR 851	Worker Safety and Health Program
10 CFR 1021	National Environmental Policy Act Implementing Procedures
10 CFR 1022	Compliance with Floodplain and Wetland Environmental Review Requirements
29 CFR 1904	Recording And Reporting Occupational Injuries And Illnesses
29 CFR 1910	Occupational Safety And Health Standards
29 CFR 1926	Safety And Health Regulations For Construction
36 CFR 60	National Register of Historic Places
36 CFR 79	Curation of Federally Owned and Administered Archeological Collections
36 CFR 1220	Federal Records, General

Document Number	Title
36 CFR 1222	Creation And Maintenance Of Federal Records
36 CFR 1228	Disposition Of Federal Records
36 CFR 1232	Audiovisual Records Management
36 CFR 1234	Electronic Records Management
36 CFR 1236	Management of Vital Records
40 CFR 60.150	Standards Of Performance For New Stationary Sources
40 CFR 61	National Emission Standards for Hazardous Air Pollutants
40 CFR 82	Protection of Stratospheric Ozone
40 CFR 122	EPA Administered Permit Programs: The National Pollutant Discharge Elimination System
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 262	Standards Applicable To Generators Of Hazardous Waste
40 CFR 264	Standards For Owners And Operators Of Hazardous Waste Treatment, Storage, And Disposal Facilities
40 CFR 265	Interim Status Standards For Owners And Operators Of Hazardous Waste Treatment, Storage, And Disposal Facilities
40 CFR 268	Land Disposal Restrictions
40 CFR 300-372	Comprehensive Environmental Response, Compensation, and Liability Act
40 CFR 302	Designation, Reportable Quantities, and Notification
40 CFR 355	Emergency Planning And Notification
40 CFR 370	Hazardous Chemical Reporting: Community Right-To-Know
40 CFR 372	Toxic Chemical Release Reporting: Community Right-To-Know
40 CFR 761	Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and use Prohibitions
40 CFR 763	Asbestos
41 CFR 101	Federal Property Management Regulations
41 CFR 102	Federal Management Regulations
49 CFR 40	Procedures For Transportation Workplace Drug Testing Programs
49 CFR 130	Oil Spill Prevention and Response Plans
49 CFR 107	Hazardous Materials Program Procedures
49 CFR 171	General Information, Regulations, and Definitions
49 CFR 172	Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information and Training Requirements
49 CFR 173	Shippers -- General Requirements for Shipments and Packagings
49 CFR 174	Carriage By Rail
49 CFR 177	Carriage by Public Highway.
49 CFR 178	Specifications For Packagings
49 CFR 179	Specifications For Tank Cars
49 CFR 180	Continuing Qualification And Maintenance Of Packagings
49 CFR 383	Commercial Driver's License Standards, Requirements and Penalties

Document Number	Title
49 CFR 385	Safety Fitness Procedures
49 CFR 387	Minimum Levels Of Financial Responsibility For Motor Carriers
49 CFR 390	Federal Motor Carrier Safety Regulations: General
49 CFR 391	Qualifications of Drivers
49 CFR 392	Driving of Commercial Motor Vehicles
49 CFR 393	Parts and Accessories Necessary for Safe Operations
49 CFR 395	Hours Of Service Of Drivers
49 CFR 396	Inspection, Repair and Maintenance
49 CFR 397	Transportation of Hazardous Materials, Driving and Parking Rules

Table J-2.2 U.S. Code (USC)

Document Number	Title
5 USC Chapter 57	Travel, Transportation, and Subsistence
5 USC 552	Public Information; Agency Rules, Opinions, Orders, Records, and Proceedings
5 USC 552A	Records Maintained on Individuals
16 USC 470	Archeological Resources Protection Act
17 USC 506	Copyright Infringement and Remedies, Criminal Offences
18 USC 1913	Lobbying with Appropriated Moneys
18 USC 2319	Stolen Property, Criminal Infringement of a Copyright
25 USC 3001	Native American Grave Protection and Repatriation Act
33 USC 1251-1376	Clean Water Act
42 USC 7256(c)	Leasing of Excess Department of Energy Property / Hall Amendment to National Defense Authorization Act of 1994
42 USC 13101	Findings & Policy
42 USC 13106	Source Reduction & Recycling Data Collection
42 USC 15801	Energy Policy Act of 2005
42 USC 2011-2259	Atomic Energy Act of 1954, as amended
42 USC 6962	Resource Conservation And Recovery Act (RCRA) Of 1976
42 USC 7401	Clean Air Act
43 USC 1701	Federal Land Policy And Management Act Of 1976
44 USC 3101	Records Management by Agency Heads; General Duties
44 USC 3103	Transfer Of Records To Records Center
44 USC 3105	Safeguards
44 USC 3309	Preservations of Claims of Government Until Settled in General Accounting Office; Disposal Authorized Upon Written Approval of Comptroller General
44 USC 3312	Photographs or Microphotographs of Records Considered as Originals; Certified Reproductions Admissible in Evidence
44 USC 3506	Federal Agency Responsibilities

Table J-2.3 Executive Orders

Document Number	Title
Executive Order 11514	Protection and Enhancement of Environmental Quality
Executive Order 11988	Floodplain Management
Executive Order 11990	Protection of Wetlands
Executive Order 12088	Federal Compliance with Pollution Control Standards
Executive Order 12580	Superfund Implementation
Executive Order 12856	Federal Compliance with Right-to-Know Laws and Pollution Prevention Requirements
Executive Order 12898	Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations
Executive Order 13007	Indian Sacred Sites
Executive Order 13016	Amendment to Executive Order 12580
Executive Order 13045	Protection of Children from Environmental Health Risks and Safety Risks
Executive Order 13112	Invasive Species
Executive Order 13186	Responsibilities of Federal Agencies to Protection Migratory Birds
Executive Order 13212	Actions to Expedite Energy-Related Projects
Executive Order 13221	Energy Efficient Standby Power Devices
Executive Order 13327	Federal Real Property Asset Management
Executive order 13423	Strengthening Federal Environmental, Energy, and Transportation Management

Table J-2.4 Office of Management and Budget Circulars (OMB)

Document Number	Title
OMB Circular A-130	Management of Federal Information Resources

Table J-2.5 Washington Administrative Code (WAC)

Document Number	Title
WAC 46-48	Transportation Of Hazardous Materials
WAC 173-200	Water Quality Standards for Ground Waters of the State of Washington
WAC 173-216	State Waste Discharge Permit Program
WAC 173-218	Underground Injection Control Program
WAC 173-240	Submission of Plans and Reports for Construction of Wastewater Facilities
WAC 173-303	Dangerous Waste Regulations
WAC 173-304	Minimum Function Standards for Solid Waste Handling
WAC 173-340	Model Toxics Control Act -- Cleanup
WAC 173-360	Underground Storage Tank Regulations
WAC 173-400	General Regulations For Air Pollution Sources
WAC 173-401	Operating Permit Regulation

Document Number	Title
WAC 173-460	Controls for New Sources of Toxic Air Pollutants
WAC 173-480	Ambient Air Quality Standards and Emission Limits for Radionuclide
WAC 197-11	SEPA Rules
WAC 246-247	Radiation Protection -- Air Emissions
WAC 246-272	On-Site Sewage Systems
WAC 246-273	On-Site Sewage System Additives
WAC 246-290	Public Water Supplies
WAC 246-291	Group B Public Water Systems
WAC 246-292	Water Works Operator Certification Regulations
WAC 296-17	Washington Workers' Compensation Insurance
WAC 296- 65	Asbestos Removal and Encapsulation
WAC 446-65	WAC Commercial Motor Vehicle Regulations
WAC 470-12	Transporting Rules

Table J-2.6 Permits

Document Number	Title
AOP 00-05-006	Hanford Site Air Operating Permit
WAR05A57F	National Pollutant Discharge Elimination System Storm Water Multi-Sector Permit
WA-002591-7	National Pollutant Discharge Elimination System Permit for the 300 Area TEDF
WA780008967	Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit

Table J-2.7 Local Laws and Regulations

Document Number	Title
BCAA Regulation	County Air Pollution Control Authority

LIST B: APPLICABLE DOE DIRECTIVES

Table J-2.8 Directives, Regulations, Policies, and Standards

Document Number	Title
CRD O 110.3A (Supp Rev 0)	Conference Management
CRD O 130.1	Budget Formulation
CRD M 140.1-1B	Interface with the Defense Nuclear Facilities Safety Board
DOE P 141.1	Department of Energy Management of Cultural Resources
CRD O 142.2A	Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency
CRD O 142.3A	Unclassified Foreign Visits and Assignments
CRD O 144.1	Department of Energy American Indian Tribal Government Interactions and Policy
CRD O 151.1C	Comprehensive Emergency Management System
CRD O 153.1	Departmental Radiological Emergency Response Assets
CRD O 200.1A	Information Technology Management
CRD O 205.1A (Supp Rev 3)	DOE Cyber Security Management
CRD M 205.1-4	National Security System Manual
CRD M 205.1-5 (Supp Rev 0)	Cyber Security Process Requirements Manual
CRD M 205.1-6 (Supp Rev 0)	Media Sanitization Manual
CRD M 205.1-7 (Supp Rev 0)	Security Controls for Unclassified Information Systems Manual
CRD M 205.1-8 (Supp Rev 0)	Cyber Security Incident Management Manual
CRD N 206.3 (Supp Rev 0)	Personal Identity Verification
CRD O 210.2	DOE Corporate Operating Experience Program
CRD O 221.1A	Reporting Fraud, Waste, and Abuse to the Office of Inspector General
CRD O 221.2A	Cooperation With the Office of the Inspector General
CRD O 225.1A (Supp Rev 0)	Accident Investigations
CRD O 226.1A (Supp Rev 0)	Implementation of Department of Energy Oversight Policy
CRD M 231.1-1A, Chg 2 (Supp Rev 1)	Environment, Safety, and Health Reporting Manual
DOE O 231.1A, Chg 1	Environment, Safety and Health Reporting
CRD M 231.1-2 (Supp Rev 8)	Occurrence Reporting and Processing of Operations Information
DOE N 234.1	Reporting of Radioactive Sealed Sources
CRD O 241.1A, Chg 1	Scientific and Technical Information Management
CRD O 243.1	Records Management Program
CRD O 243.2 (Supp Rev 2)	Vital Records
CRD O 252.1	Technical Standards Program
CRD O 350.1, Chg 3	Contractor Human Resource Management Program
CRD O 413.1A	Management Control Program
CRD O 413.3B	Program and Project Management for the Acquisition of Capital Assets

Document Number	Title
CRD O 414.1C	Quality Assurance
CRD O 420.1B (Supp Rev 4)	Facility Safety
CRD O 422.1 (Supp Rev 0)	Conduct of Operations
CRD O 430.1B Chg 1	Real Property Asset Management
CRD O 430.2B	Departmental Energy, Renewable Energy and Transportation Management
CRD O 435.1, Chg 1 (Supp Rev 0)	Radioactive Waste Management
DOE M 435.1-1, Chg 1	Radioactive Waste Management Manual
CRD M 440.1-1A (Supp Rev 0)	DOE Explosives Safety Manual
CRD O 440.2B, Chg 1	Aviation Management and Safety
DOE M 442.1-1	Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety and Health
CRD O 442.1A (Supp Rev 2)	Department Of Energy Employee Concerns Program
CRD O 450.1A (Supp Rev 0)	Environmental Protection Program
CRD M 450.4-1	Integrated Safety Management System Manual
CRD O 460.1C	Packaging and Transportation Safety
CRD O 460.2A	Departmental Materials Transportation and Packaging Management
CRD M 460.2-1A	Radioactive Material Transportation Practices Manual
CRD O 461.1A (Supp Rev 0)	Packaging and Transfer or Transportation of Materials of National Security Interest
CRD O 462.1	Import and Export of Category 1 and 2 Radioactive Sources
CRD O 470.2B (Supp Rev 3)	Independent Oversight and Performance Assurance Program
DOE 470.3B	Graded Security Protection (GSP) Policy
CRD M 470.4-1, Chg 1 (Supp Rev 1)	Safeguards and Security Program Planning and Management
CRD M 470.4-2, Chg 1 (Supp Rev 3)	Physical Protection
CRD M 470.4-3A	Contractor Protective Force
CRD M 470.4-4A	Information Security Manual
CRD M 470.4-5	Personnel Security
CRD M 470.4-6, Chg 1 (Supp Rev 0)	Nuclear Material Control and Accountability
CRD O 471.1B	Identification and Protection of Unclassified Controlled Nuclear Information
CRD O 471.3 (Supp Rev 1)	Identifying and Protecting Official Use Only Information
CRD M 471.3-1	Manual for Identifying and Protecting Official Use Only Information
CRD M 475.1-1A	Identifying Classified Information
CRD O 484.1	Reimbursable Work for the Department of Homeland Security
CRD O 522.1	Pricing of Departmental Materials and Services
CRD O 534.1B	Accounting

Document Number	Title
CRD O 551.1C	Official Foreign Travel
CRD O 580.1 Chg 1	Department of Energy Personal Property Management Program
DOE O 3792.3	Drug-Free Federal Workplace Testing Implementation Program
DOE O 5400.5, Chg 2	Radiation Protection of the Public and the Environment
DOE O 5610.2, Chg 1	Control of Weapon Data

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#### J-2.9 DOE-RL Implementing Documents

Document Number	Title
DOE-0223	RL Emergency Implementing Procedures
DOE/RL-2001-0036, Rev 1-D	Hanford Sitewide Transportation Safety Document
DOE/RL-2002-12	Hanford Radiological Health and Safety Document
DOE/RL-89-10	Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)
DOE/RL-94-02, Rev 4	Hanford Emergency Management Plan
DOE/RL-96-68, Rev 3	Hanford Analytical Services Quality Assurance Requirements Document
DOE/RL-2008-17, Rev 0	Gable Mountain and Gable Butte Resource Management Plan
DOE/RL-2009-89 Rev 0	Transportation Hazards Survey and Emergency Planning Hazards Assessment
RRD 005, Rev 3	Worker Safety
RRD 008, Rev 1	Quality Assurance Program Requirements
SCSP, July 5, 2005	Richland Regional Office Site Counterintelligence Support Plan, Hanford Site CI Support Plan (SCSP)
EM Policy Letter, July 10, 2006	Policies for Environmental Management Operating Project Performance Baselines, Contingency and Federal Risk Management Plans, and Configuration Control