Part I – The Schedule

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Central Plateau Cleanup Contract Overview

Contract Purpose and Overview

(a) One of the U.S. Department of Energy’s (DOE) strategic goals is to meet the challenges of cleaning up the nation’s Manhattan Project and Cold War legacy. To accomplish this goal, Environmental Management (EM) must reduce its environmental liabilities through accelerated cleanup of high-risk areas, resulting in risk reduction and returning land for its projected future use. This goal must be accomplished in a manner that is protective of human health and the environment (HHE).

(b) The purpose of the Central Plateau Cleanup Contract (CPCC)¹ is to achieve significant risk and financial liability reduction that provides the best overall optimal solution to Site accelerated completion and closure. The various elements of this Performance Work Statement (PWS) have descriptive statements of DOE’s “desired outcome” associated with the performance of each element. That “desired outcome” statement is intended to provide the Contractor with insight regarding DOE’s planning perspective on the objectives that need to be accomplished in order to progress toward completion of the Hanford Site cleanup. The Contractor may be expected to perform any scope that exists in DOE’s Richland Operations Office (RL) Lifecycle Baseline, which describes work scope through fiscal year (FY) 2059. Any of the work contained in that baseline may be performed under this Contract. Ultimately, the tasks, including the End States associated with the tasks, to be performed during the Contract ordering period will be defined in future Task Orders to be performed under this Contract. The term “End State” is defined as the specified situation, including accomplishment of completion criteria, for an environmental cleanup activity at the end of the Task Order period of performance (POP).

(c) The Contractor is responsible for the performance of the entire scope under the Contract including defining the specific methods, innovations, regulatory approach, and graded approaches for accomplishing all work to be performed and managing, integrating, and executing work described in this PWS.

(d) The DOE’s goal is to efficiently optimize the scope, cost, and schedule associated with performance of all work while ensuring quality, protecting the safety of the workers, environment, and the public, to reduce EM’s environmental liability, which will result in meeting the Department’s strategic goals sooner.

(e) The Contractor shall comply with the current applicable Tri-Party Agreement (TPA), Records of Decision (ROD), and all applicable regulatory requirements.

(f) The Contractor is assigned lead responsibility for coordination with the regulators to develop an optimum regulatory approach for all work under this Contract. This authority does not authorize the Contractor to commit the Government without consulting with DOE and gaining its approval as the owner in advance of implementing any proposed changes to the regulatory approach. As part of this responsibility, the Contractor is encouraged to:

1) Propose changes to the regulatory approach, in coordination with DOE, including changes to current regulatory end points to establish risk-based End States that maintain protection of HHE;

and,

2) Propose innovations to regulatory strategies and processes that improve total performance.

¹ Hereafter, the term CPCC refers to either the Contract or the Contractor, as applicable.
The Contractor shall not assume that each innovation will result in a change to the regulatory approach. Following consultation and approval by DOE, the Contractor is responsible for coordinating with the regulators the proposed changes to include preparing and submitting all regulatory and supporting documentation. In addition, DOE will perform the following:

1. Operate as the owner in coordination with the regulators to reach agreement on Contractor-prepared regulatory and supporting documentation;
2. Operate as the owner in coordination with the regulators to reach agreement on innovations that require changes to the regulatory approach;
3. Review, approve, and/or certify, as required, all regulatory and supporting documentation;
4. Prepare any additional National Environmental Policy Act (NEPA) analyses and/or documentation that may be required; and
5. Provide existing safety basis documentation for Hazard Category 2 and 3 Facilities.

The Contractor shall ensure that its technical approach and execution of the work comply with all current applicable laws, regulations, and DOE directives as identified in Section J, Attachment J-2, Requirements Sources and Implementing Documents. The list of laws and regulations is not comprehensive. Omission of any applicable law or regulation from Attachment J-2 does not affect the obligation of the Contractor to comply with such law or regulation.

The Government will conduct audits and surveillances of all aspects of the terms of this Contract to ensure compliance with the terms of this PWS. The results of all audits and surveillances will be resolved with the Contractor. DOE reserves the right to stop work in accordance with the Section H Clause DOE-H-2021, Work Stoppage and Shutdown Authorization (Oct 2014)(Revised).

DOE plans to provide a steady, predictable funding stream to enable End State completion; however, funding is subject to the ordinary limitations associated with the Congressional appropriation process.

Accelerated cleanup (i.e., accomplishing cleanup faster and more efficiently than planned) is a cooperative undertaking that requires the Contractor and the Government to seek innovative approaches to achieve the desired End States. This approach will require DOE and the Contractor to cooperate in creating an organizational culture to facilitate change and a mutual understanding of the technical approach and strategy that will lead to successful achievement of End States to be completed under this Contract. Streamlining the process, challenging requirements, and identifying efficiencies and performance improvements are critical to accomplishing accelerated cleanup. The Contractor, in partnership with DOE and throughout the Contract ordering period, shall seek to identify requirements and processes that impede progress and recommend efficiencies and performance improvements that reduce the actual cost and/or improve the schedule for the work.

The Contractor, in partnership with DOE, will use its best efforts to further the acceleration of cleanup activities and reduce DOE’s long-term liability (see Section H Clause entitled, Partnering).

**General Requirements**

**Scope Summary**

The scope of this Contract includes the following:

1. **Transition**: Includes activities for both the incoming transition from the Plateau Remediation Contract to the CPCC and outgoing transition.
(2) **Facility Deactivation, Decommissioning, Decontamination, and Demolition (D4) and Waste Site Remediation:** Performance of D4 activities including activation and operation of waste treatment facilities to support D4 and waste site remediation activities to treat, store, dispose onsite, or ship waste offsite.

(3) **Soil and Groundwater Remediation:** Includes operation of groundwater treatment facilities, groundwater monitoring, assessment and reporting, and optimization activities to support continued treatment of contaminated groundwater as plumes change and reduce in size. It also includes the key element of integrating the groundwater and vadose zone remediation which is critical to providing adequate protection of the public, future Site workers, the environment, future use of groundwater, and the Columbia River.

(4) **Waste Retrieval, Treatment, Storage, and Disposal:** Includes activities to retrieve, treat, store, and dispose of transuranic (TRU) waste on the Hanford Site. The disposal process includes initiating the process of characterizing and certifying TRU waste for disposal.

(5) **Resource Conservation and Recovery Act (RCRA)/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Decision Documents:** Includes activities to develop the documentation necessary to support and obtain all RODs for both groundwater and the vadose zone operable units (OU) in the Central Plateau and the River Corridor. These are developed under a single program activity: the Hanford Site Soil and Groundwater Program. The Hanford Site Soil and Groundwater Program’s scope also includes coordinating and incorporating RCRA corrective action decisions (CAD) into some of the inner area CERCLA decisions, as a combined RCRA Facility, Investigation/Corrective Measures Study (RFI/CMS) and remedial investigation (RI)/feasibility study (FS), resulting in an integrated CAD/ROD.

(6) **Safe and Compliant Base Operations:** This scope is a sub-element of 2, 3, and 4 above. Sections C.2.1, C.3.1, and C.4.1 contain the current configuration of the scope of work being performed to maintain safe and compliant base operations.

(i) This scope includes day-to-day management and operation of nuclear, radiological, and industrial facilities and waste sites (including pipelines) to maintain safe and compliant configuration; maintain safe and compliant base operation of surplus facilities and inactive waste sites/pipelines; maintain specified facilities in a ready-to-serve capacity; perform surveillance and maintenance (S&M) activities; operate groundwater treatment facilities under the current configuration; provide general operations for solid waste treatment, storage, and disposal (TSD) services in support of Hanford Site cleanup and provide risk mitigation evaluations. The operational and surplus facilities that must be maintained in a safe and compliant configuration are listed in Section J, Attachments J-12, *Central Plateau Cleanup Contract Structure Responsibility Assignment Matrix*, and J-13, *Central Plateau Cleanup Contract Waste Site Responsibility Assignment Matrix*.

(ii) It also includes upkeep, repair or replacement of equipment, instruments, and systems needed to maintain or preserve the facility’s ready-to-serve functions, a safe and compliant condition, or normal operational functions. Replacement includes replacing obsolete or unrepairable equipment, instruments, and systems with those that perform the same or similar functions, as needed. Ready-to-serve refers to the capabilities used to deliver a service under the Contract and includes all staff, equipment, and facilities necessary to maintain a service capability, but does not advance the Hanford Site cleanup mission.
(iii) The minimum requirements associated with maintaining safe and compliant base operations, in priority, are as follows:

(A) The resources necessary to maintain safe nuclear operations under an approved Documented Safety Analysis (DSA) complying with all Technical Safety Requirements (TSR).

(B) The minimum resources to meet site and facility permits or other legal requirements and commitments.

(C) The minimum resources necessary to maintain the site and facilities safe and secure caretaking while no programmatic or operational activities are conducted.

(iv) The Contractor shall first utilize the priorities described above in their management of safe and compliant base operations.

(v) The Contractor shall, throughout the duration of the Contract, continuously work to optimize the scope, cost, and schedule associated with performance of safe and compliant base operations work while ensuring this work is being performed in a safe, compliant, energy efficient, and cost-effective manner.

(7) Core Functions: This scope provides program management and core business management services that support performance of scope across all work within the PWS.

(b) The following additional general requirements are also applicable in implementing the CPCC scope:

(1) Maintain the facility DSA, TSR, Fire Hazards Analysis, Emergency Planning Hazards Assessment documents, or other documents that are part of the approved safety basis.

(2) Maintain all environmental permits and provide input as required to other Site-specific permits.

(3) Maintain compliance with waste acceptance criteria for designated waste management facilities (e.g., the Environmental Restoration Disposal Facility [ERDF] and Integrated Disposal Facility [IDF]).

(4) Complete disposition activities in accordance with all actions and requirements contained in regulatory and supporting documentation applicable to each facility and/or waste site. All final remedial actions and other disposition actions shall be completed and documented, as required, to close and support transition to long-term stewardship (LTS).

(5) The deliverables associated with the PWS, as well as other sections of this Contract, are listed in Section J, Attachment J-10, Contract Deliverables. In addition, any Task Order-specific deliverables will be listed in the Task Order. The Contractor shall provide the personnel, materials, supplies, and services necessary to perform the PWS and its deliverables or as directed by the DOE Contracting Officer (CO).


C.1 Contract Transition

(a) The desired outcome is a smooth transition of full responsibility for execution of the Contract that maintains continuity of operations and avoids or minimizes disruptions to ongoing operations and/or accomplishment of the DOE mission.
The main goal of the transition process is to ensure that terms and conditions of the Contract are fully understood by the Contractor and that the Contractor demonstrates readiness to assume responsibility seamlessly prior to assumption of full responsibility for performance of the Contract.

The objectives of transition are to complete a safe, effective, and efficient transfer of responsibility for execution of the Contract with little or no disruption to ongoing operations.

The Contractor shall perform the following activities for transition at initial Contract startup:

1. Within 72 hours following a Notice to Proceed (NTP), release a brief Executive Summary of its offer on the Contractor’s own website, including the following elements:
   i. Name of Contractor including the identification of any teaming partners and subcontractors and a description of the experience that each brings to the project.
   ii. Summary/description of Contractor’s technical approach.
   iii. Organizational structure and identification of key personnel.
   iv. Commitment to small business subcontracting.
   v. Contractor performance commitments.
   vi. Brief overview of Contractor’s work on similar projects.
   vii. Commitments to the community.

2. Transition the workforce needed to execute the mission of the Contract.
   i. Employment of additional staff determined to be necessary; and
   ii. Placement of necessary subcontracts, including the assumption of existing subcontracts identified by the Contractor or as directed by DOE.

3. Establish the programmatic and management systems needed to support execution of the Master Indefinite Delivery/Indefinite Quantity (IDIQ) PWS under the terms and conditions of the Contract, including:
   i. Review of existing project, program, and management system documents;
   ii. Assumption of existing project, program, and management system documents, as appropriate;
   iii. Generation of needed replacement project, program, and management system documents as determined by the Contractor to be necessary prior to assumption of responsibility for execution of the Contract;
   iv. Establish operations under existing or new programmatic and management systems; and
   v. Support DOE activities needed to determine Contractor readiness to assume responsibility for execution of this Contract under the terms and conditions of the Contract.

4. Submit a Transition Plan that fulfills the requirements presented in this Contract Transition section. Successful completion of the transition activities will enable the Contractor to assume full responsibility for execution of the Master IDIQ PWS no later than 60 days after NTP and upon execution of a final transfer agreement with the incumbent contractor.
(5) The Transition Plan shall accomplish the following objectives:

(i) Minimize or avoid impacts to continuity of operations, identify key issues and approaches to resolution, and overcome barriers to a successful transition.

(ii) Describe the approach to transition of work identified in the Contract, including the transition team, their roles and responsibilities, describe a work breakdown structure for each element of contract transfer responsibilities including: scope of work, labor relations, human and material resources, services and other work identified in the Contract. It shall describe the due diligence process, rationale, a schedule of planned activities, and milestones necessary for conducting safe, orderly contract transition; minimize impacts on continuity of operations; identify key issues and associated resolutions that may arise during transition; and plan interactions with DOE, other contractors, the workforce, regulators, and stakeholders.

(iii) Provide a Safety Basis Compliance and Concurrence Letter to DOE that describe the approach to implementing the Safety Basis for Hazard Category 2 and 3 facilities. The document must discuss at a minimum how Safety Basis Documents will be incorporated into the Standard Operational Procedures, document control processes, and regular management review.

(iv) Identify agreements, letter approvals, determinations of cost allowability, or understandings the Contractor plans to rely upon and apply to work performed under this Contract, or in the accounting for costs incurred. DOE agreements with predecessor contractors, contract guidance, direction, or interpretation on other contracts shall not apply to this Contract unless they have been identified and approved in advance by the CO. CO approved agreements shall be incorporated into Section J Attachment entitled, Advance Understanding on Costs. Agreements on Advance Understanding on Costs will be through partnering between DOE and the Contractor.

(v) Document, in a Transfer Agreement, with the prior contractor all key elements of the transfer. This may identify purchase order and subcontract assignments, software license agreements, property transfers/exclusions, key documents/databases/records, permits, outstanding liabilities, litigation, administrative claims, or other.

(vi) Include a description of the activities necessary for the Contractor to assume full responsibility for this Contract no later than 60 days after NTP and address other activities and deliverables specified in this Contract that require DOE approval prior to completion of transition.

(vii) Provide a separate Submittal Log for each Task Order that covers all documents and deliverables required to be submitted to DOE. The Submittal Log must identify submittal number, description, Request for Proposal (RFP) section, type (informational, approval required, etc.), date required to be submitted, date required, and comment section. The submittal number in the log shall be used when submitting to DOE and only one cover sheet will be used per submission.

(6) Develop training for the workforce on the PWS and the Contractor proposed technical and management approach for execution. Provide DOE a schedule for completion of training that results in 100 percent of the workforce trained within six months of NTP.

(7) Perform a due diligence review (to include review of policies, procedures, technical documents, and other documents or forms of information). Prior to the end of transition, provide the CO with
a listing of material differences and preexisting conditions. After receipt and evaluation of the Contractor material differences submission, DOE will negotiate the final list of Material Differences and Preexisting Conditions with the Contractor and will determine whether a change to the Contract is necessary. The CO will provide direction to the Contractor to address any changes and will establish timeframes for completion of applicable actions.

(8) Develop a nuclear safety protocol as described in Section H Clause entitled, Hanford Site Services and Interface Requirements Matrix, for DOE approval. The protocol shall be signed by the Hanford Mission Essential Services Contract (HMESC) Contractor, and concurred upon by other affected contractors as applicable.

(9) Support an initial Safeguards and Security (SAS) survey conducted by DOE.

(10) Submit a Graded Approach for Implementation of Contract Requirements Plan for DOE approval to streamline processes, apply a graded approach, and identify efficiencies and performance improvements (e.g., DOE directives, regulations, and others) that are critical to accomplishing the Hanford Site mission. The plan shall include a review and recommendations of changes to the current Hanford Site Standards and implementing procedures for the reduction of requirements and/or streamlining processes. The Contractor shall use the Hanford Site interface governance process to reach agreement with Other Hanford Contractors (OHC) on proposed changes.

(11) Task Order Proposals: During transition, the Contractor shall expediently provide the CO with task proposals that are compliant with FAR Subpart 15.4. The CO will provide direction as applicable regarding these potential Task Orders and will establish time frames for submission of additional task proposals.

(i) DOE intends to negotiate a bilateral Task Order for base operations support for the CPCC. The Contractor shall provide a proposal that includes a detailed technical and management approach, including a resource-loaded schedule for performing the services for “safe and compliant base operations,” as identified in the Task Order.

(ii) DOE intends to negotiate a bilateral Task Order for any balance of work to be continued during the remainder of FY20. This work will be identified during the transition period and includes, for example, the potential for completion of the demolition of the Plutonium Finishing Plant located in the Inner Area of the Central Plateau and the continuation of the activities to complete the transfer of Cs/Sr capsules to dry storage.

(12) Submit a Declaration of Readiness to Execute Contract to the CO, prior to the end of transition, indicating readiness to assume responsibility for execution of the Contract. Also, identify any post transition activities that may be required to complete transition (e.g., notifications to outside agencies of transfer of co-operator responsibilities, or completion of procedure updates).


(a) The remedial actions and demolition scope are organized in geographical areas, referred to as Implementation Areas (IA). IAs are organized around canyons, reactors, tank farms, landfills, and other areas.
(b) IAs are further subdivided into Subsequent Units for Individual Development (SQUID). The IA/SQUID structure facilitates cleanup of the Hanford Site along geographic areas.

C.2.1 Facility/Waste Site Safe and Compliant Base Operations

(a) The desired outcome for Facility/Waste Site safe and compliant base operations is to maintain nuclear and non-nuclear operational and surplus facilities and inactive waste sites (including pipelines) in a safe, compliant, energy efficient, and cost-effective manner in accordance with state and federal requirements, approved authorization basis, and regulatory permit requirements. The desired outcome for the surplus facilities and inactive waste sites (including pipelines) is to bring them to a safe state ready for remediation and demolition.

(b) This work scope is safe and compliant base operations, defined in the “General Requirements” section of this PWS, associated with surplus and operational facilities and inactive waste sites (including pipelines) for the remaining River Corridor (Project Baseline Summary [PBS] RL-0041) and Central Plateau (PBS RL-0040) work scopes. The River Corridor Closure surplus facilities and inactive waste sites (including pipelines) are located in the 100-K and 300 Areas. The 100-K Area includes two former production reactors and their associated ancillary support facilities, including a fuel storage basin (a nuclear facility) and numerous inactive waste sites. The 300 Area primarily includes the 324 Building (a nuclear facility) and a few ancillary support facilities. The 300 Area also includes some other remaining waste sites and a river pipeline on leased land.

(c) The Central Plateau facilities, used to support Hanford Site activities, include five canyon facilities (B, T, and U Plants; Plutonium Uranium Extraction [PUREX]; and Reduction Oxidation [REDOX]); large material processing, storage, or handling facilities and the liquid waste tank waste evaporators; and industrial and general purpose buildings, such as offices, shops, trailers, and miscellaneous facilities. Structures may be above ground, below ground, or both, consisting of facilities and/or buildings, stacks, and diversion boxes that are not in a facility or building. These facilities are either operational or are being maintained under an S&M program.

(d) The Central Plateau and River Corridor contain waste sites (including pipelines) that are contaminated with radioactive and other hazardous materials from past Hanford Site operations. For purposes of performing S&M, site structures and waste sites are included in Section J, Attachments J-12 and J-13, respectively.

(e) Consistent with the information provided under “General Requirements” associated with performing safe and compliant base operations, the Contractor shall include, but is not limited to, performing the following activities as stated or as further optimized:

1. Complete planned maintenance, including any corrective actions or activities identified as a result of ongoing S&M activities.

2. Provide required safety and regulatory inspections; S&M of structures, systems, and components (SSC) and processes to ensure operation within the approved safety, environmental, and permit compliance requirements envelope, including preventive maintenance and calibrations, repair or replacement of failed and malfunctioning equipment (including capital equipment); inspection of safety systems, equipment and facility grounds (operational surveillance); waste container storage, and routine radiological surveys.

3. Ensure control of radioactive and hazardous materials and the physical safety of Hanford Site personnel, the public, and the environment.
(4) Monitor, maintain, and track chemical and radiological inventories; provide monitoring and reporting of mandatory permit-related environmental requirements; and maintain abnormal and emergency response capabilities.

(5) Maintain safety management programs, equipment, and personnel required for worker protection and DOE Order compliance.

(6) Maintain management services that ensure performance and support to safe and compliant base operations, such as an access control/entry system, training requirements, and a Solid Waste Information Tracking System (SWITS).

(7) Provide preventive and corrective maintenance activities needed to maintain operational equipment, radiological control, mandatory training and procedures, surplus facilities, and inactive waste sites in a safe and compliant condition.

(8) Provide S&M of surplus facilities and inactive and active waste sites to ensure protection of worker, public health, and the environment in accordance with applicable S&M plans.

C.2.1.1 **Surplus Structures and Inactive Waste Sites Safe and Compliant Base Operations**

(a) The desired outcome is implementation of an S&M program that monitors Hanford Site structures, waste sites, and pipelines, as required, to meet regulatory and DOE requirements.

(b) In addition to the requirements for safe and compliant base operations in Section C.2.1, the Contractor shall perform S&M on the following:

(1) Assigned Hanford Site structures and waste sites (including pipelines) identified in the Section J, Attachments J-12 and J-13, respectively; and

(2) Inactive steam lines and their associated underground injection control (UIC) wells. This excludes steam lines and UICs inside facilities operated by OHCs including those associated with tank farm operational areas.

C.2.1.2 **Post-Remediation Activities**

The Contractor shall perform post-remediation actions for waste sites, structures, or geographical IAs for all completed Central Plateau and River Corridor remedial actions, in accordance with regulator approved Operations and Maintenance (O&M) Plans and RODs, and coordinate the transition of geographical areas (defined by IAs/SQUIDs) to the LTS program with HMESC.

C.2.1.3 **Building 324 Boiler Annex**

(a) The desired outcome is to maintain steam and heating for the 324 Facility until the building is deactivated and placed in a cold and dark configuration pending its future demolition.

(b) Johnson Controls has a contract with the DOE Richland Operations Office (DOE-RL) to provide steam and heating for the 324 Facility and the natural gas used to fuel the boilers. This contract expires on November 14, 2021. Currently, the 324 Facility is only using steam for space heating purposes.
(c) The Contractor shall:

(1) Assume responsibility for O&M of the 324 Boiler Annex (including the associated boilers) upon receipt of NTP, given that the 324 Boiler Annex and boilers are still going to be needed.

(2) Create a transition plan for the 324 Boiler Annex and boilers, to ensure that required heating can be provided reliably to the 324 Facility, that shall be given to DOE for review and consent.

(3) Have an agreement (cost, reliability, and quantity) with the supplier of natural gas for the 300 Area to operate and maintain the natural gas distribution system.

C.2.1.4 Fast Flux Test Facility

(a) The desired outcome is that the Fast Flux Test Facility (FFTF) will remain in a long-term, low cost, S&M condition until final disposition detailed planning is performed and D4 funding is allocated. The Contractor shall maintain and monitor all systems and operations associated with storage of bulk sodium.

(b) FFTF is a DOE-owned, formerly operating, 400-megawatt (thermal) liquid-metal cooled (sodium) research and test reactor located in the 400 Area of the Hanford Site near the City of Richland, Washington.

C.2.1.5 Aging Facility Risk Mitigation

(a) The desired outcome is to characterize aging facility risks on the Hanford Site and mitigate those risks by stabilizing high-risk facilities to minimize the potential for catastrophic failure events.

(b) The Contractor shall:

(1) Assess aging facility and structure risk for the entire Hanford Site and provide an annual report to DOE that includes an update of the Project Evaluation Matrix and recommendations for mitigating the risks.

(2) Perform the mitigation activities for high risk facilities as agreed to with DOE to minimize the potential for catastrophic failure events.

(3) Maintain a capability to respond to emergency incidents related to aging facilities.

(4) Perform any work activities necessary to complete stabilization of the PUREX Tunnel 2.

(5) Complete the 216-Z-9 Crib structural integrity assessment.

C.2.2 100 Area Waste Site Remediation and D4

(a) The desired outcome of the 100 Area is completion of the remediation of waste sites, D4 of surplus facilities, and Interim Safe Stabilization (ISS) of the Nuclear Reactors. Completion will significantly contribute to shrinking the footprint of the Hanford Site down to the Central Plateau and reduce the significant S&M costs incurred annually. This outcome excludes final groundwater actions.

(b) The 100 Area IA is geographically located at the northern end of the Hanford Site along the Columbia River. The primary remaining scope of work resides in the 100-K Area where the 105-KE and 105-KW reactor buildings, support facilities, and associated waste sites are located. Additional remediation requirements associated with final CERCLA RODs are also expected across the 100 Area.
C.2.3 300 Area Waste Site Remediation and D4

(a) The desired outcome for the 300 Area is completion of the remediation of waste sites and D4 of surplus facilities per the applicable ROD. Completion will significantly contribute to shrinking the footprint of the Hanford Site to the Central Plateau and reduce the significant S&M costs incurred annually.

(b) This outcome excludes groundwater remediation and the D4 of the Pacific Northwest National Laboratory retained facilities and the remediation of the waste sites that are located within the footprint of those facilities.

(c) The 300 Area IA is geographically located at the southern end of the Hanford Site along the Columbia River. The primary remaining scope of work resides at the 324 Building and the highly contaminated 300-296 Waste Site beneath it, and ancillary facilities. Also remaining are the removal of selected (i.e., those not impacting 325 Building operations) sections of pipeline 300-265 between the 324 Building and the 325 Building and the 300 Area River Pipeline on Department of Natural Resources (DNR) leased land.

C.2.4 Central Plateau Remediation

The desired outcome is to disposition remaining Inner and Outer Area surplus facilities and inactive waste sites (including pipelines) to shrink the Central Plateau footprint (from approximately 75 square miles to approximately 10 square miles) and to disposition the IA surplus facilities and inactive waste sites (including pipelines) within IA/SQUIDs per associated OU regulatory decision documents and in compliance with TPA milestones.

C.2.4.1 Inner Area Disposition

The desired outcome is to complete removal actions, field remediation, and other disposition activities for identified canyons, facilities, and/or waste sites contained within IA/SQUIDs per associated OU regulatory decision documents.

C.2.4.2 Outer Area Disposition

The desired outcome is to complete removal actions, field remediation, and other disposition activities for identified facilities and/or waste sites contained within the IA/SQUIDs per associated OU regulatory decision documents.

C.3 Soil and Groundwater Remediation (PBS RL-0030

[Soil and Water Remediation – Groundwater/Vadose Zone])

C.3.1 Groundwater Safe and Compliant Base Operations

Consistent with the information provided under “General Requirements” associated with performing safe and compliant base operations, the Contractor shall include, but is not limited to, performing the following activities as stated or as further optimized:

C.3.1.1 Remediation Activities

(a) The desired outcome for the existing groundwater and deep vadose zone remediation systems is to operate and maintain the systems safely, while meeting all requirements of the RD/Remedial Action Work Plan (RAWP).
(b) The Contractor shall operate the existing or any newly established groundwater and deep vadose zone remediation systems in accordance with the appropriate implementation and other regulatory-supporting documents (e.g., O&M plan, RD/RAWP, RAWP, Atomic Energy Act [AEA], DOE directives, sampling and analysis plan [SAP], and waste control/waste management plan). Perform any upgrades required to meet the remedial action objectives (RAO) and requirements within RODs, CAD/RODs, closure plans, and other regulatory decision documents.

C.3.1.2 Project Integration

C.3.1.2.1 Groundwater and Vadose Zone Remediation Integration

(a) The desired outcome is a well-coordinated integration of functions associated with monitoring, protection, and remediation of facilities, soil/vadose zone waste sites, and groundwater.

(b) The Contractor shall support DOE in integrating all crosscutting activities related to monitoring, protection, and remediation of facilities, soil/vadose zone waste sites, and groundwater of the Soil and Groundwater Program. This function includes leading strategic integration efforts; creating and maintaining integrated baseline project schedules; evaluating integrated baseline project schedules for all remediation activities across the Hanford Site; supporting stakeholder and regulators activities; and providing periodic revisions to DOE/RL-2007-20, Integrated Groundwater and Vadose Zone Management Plan, to keep this Plan current.

(c) The Contractor should closely integrate and coordinate groundwater and deep vadose remediation systems with other vadose zone and facility remediation and closure activities. This shall include coordination of remedy implementation with RL-0040 to facilitate geographic area remediation.

C.3.1.2.2 Risk Assessment Activity Integration

(a) The desired outcome is a well-coordinated integration function associated with the performance of risk assessments that meets regulatory and DOE directive requirements supporting the Cumulative Impact Evaluation (CIE), the Composite Analysis (CA), and project decision-making.

(b) The Contractor shall support DOE in integrating the performance of risk assessments, supporting the CIE and CA, and providing a technical basis for making project decisions. The Contractor shall maintain a document under configuration control for DOE that contains key physical, chemical, and other parameters/assumptions associated with modeling the fate and transport of environmental contaminants from structures and waste sites for risk assessment purposes.

C.3.1.3 Hanford Environmental Data Management

(a) The desired outcome is an enterprise environmental data management system at the Hanford Site that supports environmental remediation, monitoring, ongoing regulatory permitting and compliance activities, waste management, delisting of the Hanford Site from the NPL, land management and transition to other entities or Legacy Management.

(b) The Contractor shall update the Hanford Environmental Data Management Program Plan on an annual basis. This plan describes the process for implementing an enterprise environmental data management system at the Hanford Site, which requires the Contractor to define, establish and maintain configuration control of the set of authoritative environmental data and records that are used by Hanford Site databases, portals, analysis tools, and other systems.

(c) Environmental data supports key functions such as waste management, remediation decision making and demonstration of compliance with the AEA, CERCLA, RCRA, TPA, and other applicable laws, environmental regulations, and directives. Environmental data are essential to build the record of
cleanup actions to support closure of the Site, delisting from the National Priorities List (NPL), and transition to other entities or Legacy Management.

(d) The Contractor shall serve as the manager for environmental databases, associated information systems, web-based information access systems/portals, and project specific databases. These databases and systems/portals include, but are not limited to, the following: Hanford Environmental Information System (HEIS), Sample Data Tracking System, Electronic Data Deliverable Processor, Hanford Well Information System, Well Maintenance Application, Waste Information Data System (WIDS) and WIDS Application, Solid Waste Information Tracking System (SWITS), Hanford Intranet and Hanford Internet HEIS websites, and the EnviroDataAccess web-based information access system.

C.3.1.4 Groundwater Well Maintenance, Monitoring, Assessment, and Reporting

(a) The desired outcome is implementation of a program that monitors Hanford Site groundwater conditions to meet regulatory and DOE requirements.

(b) The Contractor shall:

1. Safely operate and maintain, per the applicable well maintenance plan, the groundwater remediation and monitoring wells and networks.

2. Monitor Hanford Site groundwater conditions to meet regulatory and DOE requirements.

3. Collect groundwater samples and perform or arrange for onsite and offsite analyses of groundwater, soil vapor, surface water, and other related samples.

4. Perform data assessment/reporting to meet regulatory and DOE requirements for groundwater monitoring and remediation and allow continued operation of Hanford Site waste management facilities. Wells are used at the Hanford Site to remediate groundwater, monitor groundwater quality at the Hanford Site, delineate existing groundwater plumes, and meet regulatory requirements associated with CERCLA, RCRA, and AEA (i.e., DOE directives).

(c) In addition, the Contractor shall:

1. Prepare and submit an annual evaluation of the active P&T systems with the objective to optimize the P&T system to achieve the best tradeoff among contaminant mass removal, river protection, and plume size reduction. The evaluation shall provide the technical basis to achieve these objectives and include a recommendation regarding any P&T upgrades and/or expansion of capacity.

2. Prepare and submit the annual Hanford Site Groundwater Monitoring Report, consistent with the established content and format, and provide input to HMESC for preparation of the Hanford Annual Site Environmental Report (ASER).

3. Prepare and submit the annual Hanford Site RCRA Groundwater Monitoring Report to DOE for subsequent submittal to regulators by March 1 of each year.

4. Prepare and submit required regulatory reports (i.e., notification of exceedance determination report, assessment monitoring plans, as needed, and solid waste landfill groundwater monitoring report).

5. Conduct routine preventative maintenance and corrective actions, as necessary, to optimize performance of groundwater remediation and monitoring wells and associated networks.
C.3.2 Groundwater and Vadose Zone Remedy Implementation

The desired outcome is to accelerate the completion of groundwater and deep vadose zone remedial actions for the Hanford Site as much as is reasonably achievable in the contract POP.

C.3.2.1 Remediation Activities

(a) The scope is to accelerate groundwater and vadose zone remediation on the Hanford Site safely, while meeting all requirements of the interim or final RODs and RD/RAWPs. In addition, all groundwater and vadose zone remedial actions to be implemented shall be in accordance with regulatory and supporting documentation.

(b) Implementation of groundwater and deep vadose zone remediation systems (e.g., 200 West P&T; K, D, and H Area P&Ts, the N Area Apatite Barrier for Sr-90, and diesel bioremediation system) must meet RAOs and associated requirements identified in the interim or final ROD and implemented in the RD/RAWP and supporting documents (e.g., O&M plan, Project Management Plan [PMP], SAP, U. S. Environmental Protection Agency [EPA] Remediation Optimization: Definition, Scope and Approach, EPA Methods for Evaluating the Attainment of Cleanup Standards, EPA Optimization Strategies for Long Term Ground Water Remedies, and waste control/waste management plan). Decommission groundwater and vadose zone remediation systems, associated facilities, and supporting infrastructure, which have achieved final RAOs.

(c) Install groundwater wells in the Central Plateau and along the River Corridor in accordance with applicable regulatory and DOE requirements to support both Hanford Sitewide monitoring, remediation, and characterization activities. The Contractor shall also decommission wells that are no longer needed in accordance with DOE/RL-2005-70, Hanford Site Well Decommissioning Plan, and the requirements of Washington State regulations for well decommissioning.

(d) The Contractor should also coordinate and apply for all subsurface penetration authorizations necessary for site clearances, including cultural and ecological reviews and implement any defined mitigation measures to avoid and minimize impacts.

C.3.2.1.1 River Corridor Groundwater Remediation

The desired outcome is to complete groundwater remedies for the River Corridor groundwater OUs.

C.3.2.1.2 Central Plateau Groundwater Remediation

The desired outcome is to accelerate groundwater remediation in the Central Plateau groundwater OUs as much as is technically and reasonably achievable in the Contract POP.

C.4 Waste Retrieval, Treatment, Storage, and Disposal (RL-0013 [Solid Waste Stabilization and Disposition – 200 Area])

C.4.1 Waste Stabilization and Disposition Safe and Compliant Base Operations

(a) Consistent with the information provided under “General Requirements” associated with performing safe and compliant base operations, the Contractor shall include, but is not limited to, performing the following activities as stated or as further optimized:

(1) The desired outcome for Waste Retrieval, Treatment, Storage, and Disposal Operations is to maintain nuclear facilities and inactive waste sites in a safe, compliant, energy efficient, and cost-effective manner in accordance with state and federal requirements, approved authorization basis, and regulatory permit requirements, including the implementation of all
required programs and services to support and manage the solid waste TSD services in support of Hanford Site cleanup for the following facilities:

(i) T Plant Complex;

(ii) Central Waste Complex (CWC)/German Logs/Sodium Storage;

(iii) Waste Receiving and Processing (WRAP) Facility;

(iv) Low-Level Burial Grounds (LLBG) including Alpha Caissons and Naval Reactors Trench;

(v) Mixed Low-Level Waste (MLLW) Trenches (31 and 34);

(vi) ERDF;

(vii) IDF;

(viii) Waste Encapsulation and Storage Facility (WESF);

(ix) Canister Storage Building (CSB);

(x) Interim Storage Area (ISA); and

(xi) Cs/Sr Capsule Storage Area (to be built).

(b) In addition, the Contractor shall:

1. Complete planned maintenance, including any corrective actions or activities identified as a result of ongoing S&M activities.

2. Provide required safety and regulatory inspections; S&M of SSC and processes to ensure operation within the approved safety, environmental, and permit compliance requirements envelope, including preventive maintenance and calibrations, repair or replacement of failed and malfunctioning equipment (including capital equipment); inspection of safety systems, equipment and facility grounds (operational surveillance); waste container storage, and routine radiological surveys.

3. Ensure control of radioactive and hazardous materials and the physical safety of site personnel, the public, and the environment.

4. Monitor, maintain, and track chemical and radiological inventories; provide monitoring and reporting of mandatory permit-related environmental requirements; and maintain abnormal and emergency response capabilities.

5. Provide recommended upgrades, and modifications required to remain within applicable permit and approved safety basis documents as well as to address issues related to imminent failure that can be prevented prior to a potential failure.

6. Maintain safety management programs, equipment, and personnel required for worker protection and DOE Order compliance.

7. Maintain management services that ensure performance and support to safe and compliant base operations, such as an access control/entry system, training requirements, and SWITS.
(8) Provide preventive and corrective maintenance activities needed to maintain operational equipment, radiological control, mandatory training and procedures, and surplus facilities and inactive waste sites in a safe and compliant condition.

(9) Provide S&M of facilities and inactive waste sites to ensure protection of worker and public health and the environment in accordance with applicable S&M plans.

C.4.1.1 Program Management Support, Planning, and Integration

(a) The Contractor shall implement all required programs and services to support and manage the solid waste storage, treatment, and disposal services in support of Hanford Site cleanup; treat and dispose of legacy and newly generated low-level waste (LLW), MLLW, and TRU waste under this Contract to meet Land Disposal Restriction (LDR) requirements or other applicable disposal requirements (e.g., TPA); retrieve suspect TRU waste from the LLBGs; support certification of TRU waste for disposal at offsite disposal facilities; and provide interim storage of irradiated nuclear fuel and Cs and Sr capsules.

(b) In addition, the Contractor shall:

(1) Annually update and maintain TPA Milestone M-091-03, Project Management Plan.

(2) Provide input and waste management facility access for preparation of the Hanford Site Mixed Waste LDR Summary Report in accordance with the requirements of TPA Milestone M-026-01 and related RCRA LDR.

(3) Provide audit capability, including providing auditors, to support the DOE Consolidated Audit Program for audits of external commercial RCRA TSD facilities and laboratories to support the annual request for use of offsite TSDs, as needed.

(4) Operate the existing SWITS for waste managed at the Hanford Site. This system shall also be used to collect and maintain the Hanford Site lifecycle waste forecast, which shall include all types of radioactive solid waste.

C.4.1.2 T Plant

(a) The desired outcome is to maintain the facility in a safe and compliant configuration and ready-to-serve status, including any necessary facility upgrades, and maintain the ability to send liquid wastes to the Treated Effluent Disposal Facility or other facility.

(b) The T Plant complex is a treatment and storage unit that has a number of functions, including equipment decontamination, waste treatment, storage, sampling, nondestructive examination, and repackaging. Radioactive and hazardous wastes are processed and packaged at the facility to meet state and federal regulations as well as criteria associated with transporting waste to specific waste disposal facilities. Wastes that can be managed at the T Plant Complex include LLW, TRU, transuranic mixed (TRUM), hazardous/dangerous MLLW, and Toxic Substances Control Act (TSCA) polychlorinated biphenyl waste. The T Plant Canyon Building is being prepared for receiving, storing, and possibly treating radioactive sludge that has been containerized within the K West Basin.

C.4.1.3 Central Waste Complex/German Logs/Sodium Storage

(a) The desired outcome is to maintain CWC facility operations in a safe and compliant configuration and ready-to-serve status so it can receive and store LLW, MLLW, TRU/TRUM waste, and other waste from onsite and offsite generators consistent with waste acceptance criteria.
(b) CWC is a storage and treatment unit for RCRA mixed waste, TRU/TRUM waste, and LLW. CWC also stores alkali metal products, waste from CERCLA cleanup activities, low flash point waste, sodium waste, and German Logs.

C.4.1.4 Waste Receiving and Processing Facility
(a) The desired outcome is to maintain WRAP facility operations in a safe and compliant configuration and ready-to-serve status so it receives, verifies, stores, repackages, treats as required, and ships TRU and MLLW to a TSD facility, including the Waste Isolation Pilot Plant (WIPP), and has the capability to process contact handled (CH) and limited remote handled (RH) TRU waste.

(b) The WRAP is located in the 200 West Area near CWC. It is comprised of several buildings: 2336W (the main processing facility), 2740W (an administrative support building), 2620W (a maintenance support building), and several smaller support buildings. The WRAP complex also includes the 2404-WB and 2404-WC waste storage buildings.

C.4.1.5 Low-Level Burial Grounds
(a) The desired outcome is to maintain the LLBG in a safe and compliant configuration and ready-to-serve status in the 200 East and 200 West areas of the Hanford Nuclear Reservation, specifically, burial grounds: 218-W-4C, 218-W-4B, 218-W-3A, 218-W-3AE, 218-W-5, 218-W-6, 218-E-10, and 218-E-12B.

(b) The Contractor shall:
   (1) Maintain the capability to receive MLLW for disposal in MLLW Burial Ground 218-W-5, Trenches 31 and 34, and LLW in designated trenches.
   (2) Support disposal of naval reactor compartments consistent with waste acceptance criteria and the Memorandum of Understanding (MOU) between the U.S. Department of the Navy and DOE, in Burial Ground 218-E-12B, Trench 94. Other related equipment is disposed of in the 200 West Solid Waste Burial Ground.
   (3) Receive waste for disposal from other generators only with prior DOE approval.
   (4) Perform upgrades in the form of gravel addition to Burial Ground 218-W-5, Trenches 31 and 34.
   (5) Operate the leachate collection system and dispose of collected leachate to liquid processing facilities managed by Tank Cleanup Contract (TCC).

C.4.1.6 Environmental Restoration Disposal Facility
(a) The desired outcome is to maintain ERDF operations in a safe and compliant configuration and ready-to-serve status so it continues to serve as the primary capability for disposition of CERCLA remediation waste on the Hanford Site.

(b) ERDF is the primary engineered burial ground in the 200 Area and is geographically located on the Central Plateau of the Hanford Site. The primary waste type disposed at ERDF is generated from CERCLA remediation activities at the Hanford Site. The Contractor shall maintain ERDF within the safety basis and all applicable environmental permits and regulations.

(c) The Contractor shall:
   (1) Transport waste to ERDF for disposal.
(2) Maintain the facility to include all operational and support functions needed and infrastructure required for ERDF operation, waste receiving and tracking system, waste treatment capability, operation of haul trucks, maintenance of the trucks, maintenance of containers, purchase of new trucks/containers as needed, equipment maintenance, leachate collection operations, specifically collection sampling, analysis, and pumping to treatment facilities, lysimeter operation, haul road maintenance, air monitoring operation, and groundwater monitoring wells sampling and analysis.

(d) In addition, the Contractor shall expand ERDF, with approval by the CO, to accommodate future waste volumes and prepare, submit, and maintain all required modifications to the regulatory and supporting documentation for the expansion.

C.4.1.7 Integrated Disposal Facility

(a) The desired outcome is to maintain the IDF operations in a safe and compliant configuration and ensure the facility is fully operational and ready to receive waste from the TCC by the end of FY21.

(b) The Contractor shall perform activities necessary to make the IDF a fully operational facility for waste receipt and disposal. The IDF is not finished and it is in a preoperational state of readiness. The facility is not operable and it has not undergone any form of readiness review (by contractor or DOE). While the disposal pits have been dug, numerous infrastructure-related work needs completion (e.g., access road, parking, and staff trailers). Add-on equipment (e.g., waste storage/treatment pad) also needs to be put in place to support the principle user of the facility (i.e., TCC) once in operation. Both the facility safety basis (i.e., DSA) and environmental permits need updates. The environmental permits need to allow for the waste storage/treatment pad and expanded waste streams. Waste acceptance criteria have not been developed.

C.4.1.8 Waste Encapsulation and Storage Facility

(a) The desired outcome for WESF and its support systems is to perform operations in a safe and compliant configuration in order to maintain the capability to store the Cs and Sr capsules until their removal to dry storage. After capsule removal, the facility shall be transitioned for D4. This would involve decontaminating and decommissioning the facility, revising the safety analysis, pumping water out of the pools, and deactivating the equipment and support (e.g., electrical, potable water, and fire water).

(b) WESF adjoins the deactivated B Plant in the 200 East Area. The facility went into operation in 1974 to convert solutions of radioactive Cs and Sr into solid compounds. These solids were then encapsulated in double-shell capsules and stored in water-filled pools.

C.4.1.9 Canister Storage Building/Interim Storage Area/Cs/Sr Capsule Storage Area

(a) The desired outcome is to maintain the CSB operations ISA operation, and Cask Storage Area operation in a safe and compliant configuration, so the facility can continue to serve as an interim storage facility.

(b) The CSB contains equipment to support the receipt, staging, and interim storage of Multi-Canister Overpacks containing spent nuclear fuel (SNF). The ISA is designed as an interim storage location for SNF packaged in a variety of storage containers. It is the fenced area west of the CSB, with concrete pads and compacted gravel, where the fuel is stored. No new fuel shipments are expected to be received by either the CSB or ISA. In addition, the Contractor shall interface with the National SNF Program to review repository documentation and perform analyses to enable final disposition.
and acceptance of SNF at an Offsite Repository, manage related technical interfaces, and integrate Hanford Site planning associated with Offsite Repository activities.

c) The Capsule Storage Area is designed as a storage location for casks containing capsules filled with highly radioactive Cs or Sr. All of the storage casks are of the same design. The storage pad is a fenced secured area near the CSB but not part of that facility. The Contractor shall maintain capsule storage area within the applicable safety basis documents and all applicable environmental permits and regulations and security requirements.

C.4.2 Cesium/Strontium Capsule Transfer to Dry Storage

(a) Approximately 1,940 stainless steel capsules containing highly radioactive Cs or Sr are presently stored in pools of water in WESF. These capsules must all be removed and placed into steel containers and then into concrete storage casks that are in turn removed from WESF and transported to the Capsule Storage Area (CSA) for storage. The CSA is a large concrete pad designed to hold the storage casks for indefinite storage.

(b) The desired outcome is:

(1) Removal of all capsules from the WESF pools, placement into the storage casks, transport of all the casks to the CSA and placement of the casks onto the CSA pad, and implementation of monitoring of the casks as required by the associated safety basis and environmental permits.

(2) Deactivation of the WESF facility equipment and downgrade of the facility’s hazard categorization as allowed by safety analysis. This includes revision of environmental permits for deactivation of the facility.

(3) Transition of WESF to decommissioning and decontamination. (Note: demolition of WESF [attached to B Plant] would be deferred until B Plant demolition).

C.4.3 Certification and Disposition of Transuranic Waste

Note: DOE has not made a determination that buried waste is TRU. The final disposition of buried waste must be based on characterization and following the CERCLA process.

C.4.3.1 Outside Waste Container Disposition

(a) A number of storage boxes containing MLLW and/or TRU waste, many physically large, were contained in the Outside Storage Area (OSA). In addition, Tank D-10 removed from the U Plant is also stored outside. Some of the storage boxes have been moved into the CWC storehouses. TPA milestones require that all mixed waste containers from the OSA be removed by September 30, 2026.

(b) The desired outcome is all containers removed from the OSA including Tank D-10.

C.4.3.2 Alpha Caisson Retrieval Design, Construction, Commissioning, and Operation

(a) The alpha caissons are located at Trench 14 at the 218-W-4B LLBGs. The retrieval of these wastes presents a number of very difficult issues, including the configuration of the vaults, approximately 30,000 curies of activity, high dose rates, hazardous waste chemicals and damaged/degraded waste packages. The waste will require remote retrieval and processing sufficient to produce WIPP-certifiable RH TRU waste packages. This RH TRU waste will be staged onsite until certified and authorized for shipment to WIPP.
(b) The work scope is to design and construct a TRU waste retrieval system for the caissons, then retrieve and repackage the TRU waste from the alpha caissons in Burial Ground 218-W-4B in the 200 West Area for disposal. TRU waste shall be separated from MLLW component, if required. Treat the waste as necessary in order to certify the waste. Certify the repackaged waste for disposal in a TRU waste repository. The repackaged waste can be stored at CWC. Certified waste shall also be shipped to a disposal site.

(c) Desired outcome is all waste packages removed from the alpha caissons, repackaged and treated as needed, certified to meet waste disposal criteria, and shipped to a TRU waste disposal site.

C.4.3.3 Disposition K Basin Sludge and Other Media
(a) Approximately 29 m$^3$ of K Basin sludge will be stored in T Plant and an amount of sand and garnet filter media with TRU waste in it. This waste is considered to be remote-handled TRU waste. The sludge is contained in storage containers placed in T Plant cells. The filter media consist of sand and garnet and TRU waste that is also in storage containers placed in T Plant cells. A TPA milestone requires that a treatment and packaging technology be selected by September 2022.

(b) The desired outcome is the treatment, packaging, and disposal of the sludge, and filter media stored at T Plant.

C.4.3.4 Design/Construction for Burial Ground Retrieval
The desired outcome is delivery of a DOE approved system for the removal of the retrievably stored waste (RSW) from the 218-W-3A, 218-W-4B, 218-W-4C, and 218-E-12B Burial Grounds.

C.4.3.5 Remaining Waste Retrieval
(a) The desired outcome is removal, packaging/processing for certification, and disposal of RSW from the 218-W-3A, 218-W-4B, 218-W-4C, and 218-E-12B Burial Grounds and completion of processing and disposal of all remaining waste in CWC, T Plant, WRAP, and newly constructed waste processing facilities.

(b) The Contractor shall retrieve remaining CH TRU and RH TRU waste from the burial grounds in accordance with the requirements established in regulatory, safety basis, and other supporting requirements documentation and schedule identified in the TPA Milestone M-091 series. In addition, the Contractor shall store, treat as needed, and process waste for disposal (all newly generated TRU/TRUM/MLLW). All suspect TRU RSW shall be removed from the burial grounds and transferred to a TSD facility. The Contractor is responsible for the movement of waste from burial grounds to TSD facilities, TSD facilities to CWC, or CWC to TSD facilities. The retrieved waste will be characterized and processed/treated/repackaged to separate the TRU component from LLW or MLLW. The non-TRU waste will then be disposed of at either ERDF or the MLLW burial grounds. The remaining TRU waste will be packaged and certified to meet disposal requirements and then shipped for disposal at a TRU waste disposal facility.

C.4.3.6 CH TRU Waste Treatment from B and T Tank Farms
(a) The desired outcome is to initiate safe and compliant treatment of CH TRU waste from the B and T Tank Farms in accordance with regulatory and supporting documentation.

(b) DOE has identified 11 single-shell tanks (SST) containing sludge waste with alpha-emitting radionuclides in concentrations defined as TRU in the Waste Isolation Pilot Plant Land Withdrawal Act. The SSTs containing TRU sludge include B-201, B-202, B-203, B-204, T-201, T-202, T-203, T-204, T-111, T-110, and T-104.
(c) The Contractor will work in conjunction with TCC, the Idaho Operations Office Contractor WIPP Certified Program, or WIPP Central Characterization Program (CCP) to develop interface control documents (ICD) for defining waste process retrieval, treatment, transport, and disposal requirements.

(d) Retrieval, treatment, packaging, and transportation of 241-B and 241-T TRU tank waste for disposal at WIPP shall be an integrated effort between TCC, CPCC, and the DOE Idaho WIPP Certified Program, or WIPP CCP. As such, the Contractor shall work in conjunction with TCC, the DOE Idaho WIPP Certified Program, or WIPP CCP to develop an ICD that defines the cradle-to-grave interface points and the associated roles, responsibilities, and governing technical and schedule requirements.

(e) Based upon the terms of the ICD, the Contractor shall work with TCC and WIPP CCP to select and propose a technical approach for receipt, treatment, storage of TRU tank waste from TCC, and transfer to Idaho for WIPP certification or internally at Hanford under WIPP CCP. Upon obtaining DOE and State approval, the Contractor shall proceed with planning and execution of the design, procurement, installation, testing, and operation of the TRU waste receipt, treatment, and transportation systems.

(f) This scope of work requires significant coordination and collaboration with TCC and the associated TRU waste certification program for successful completion of work scope.

C.5 RCRA/CERCLA Decision Documents

(a) The desired outcome is to have obtained all necessary interim or final DOE and regulator-approved CERCLA and/or RCRA decisions for the remaining non-Tank Farm waste sites, pipelines, canyons, and groundwater across the Hanford Site that define any remaining cleanup actions required in those OUs.

(b) DOE has defined a cleanup strategy that establishes the essential parameters, performance measures and technical cleanup principles that are intended to achieve consistent, cost-effective, and compliant remedial decisions in the Inner Area of the Central Plateau. Key elements of this strategy have been negotiated and agreed to with EPA and the Washington State Department of Ecology (Ecology). These agreements are documented in the RI/FS work plans (200-DV-1, 200-WA-1 and 200-SW-2) as the Inner Area Principles. Further, a set of consistent parameters between each of the work plans has been defined so there will be internal consistency between OUs, and that any differences between OUs is fully explained.

(c) In addition to the Inner Area Principles, DOE has developed a strategy to further ensure there is a consistent integration of decisions between OUs. Many of these strategic components can save the Government and taxpayers significant funds by defining the scope of the Inner Area cleanup activities. The foundational elements include:

1. Defining specific CERCLA OUs for which specific remedial decisions will be made. DOE has established cleanup areas based on risk (protecting the River Corridor) as well as geography (vadose zone and associated waste sites) and facility (Canyons and processing facilities). In addition, there are 177 single-shell and double-shell underground storage tanks organized in 18 tank farms.

2. Defining key studies that account for the complexity of the Central Plateau, recognizing that the development and approval of all remedial decisions will take decades to complete. The current OU structure acknowledges that a remedial decision in one OU can have direct impact on another. In addition, the ability to remediate some sources that may impact groundwater are
limited or technically impractical. DOE is identifying key studies and evaluations to meet a coordinated and integrated set of remedial decisions.

(3) A DOE Order 435.1 CA is required that will show current and future movement of radionuclides across the site. This requirement is to maintain radionuclide disposal authority and is used in the planning process.

(4) A Cumulative Impact Evaluation CIE builds on the composite analysis. It evaluates chemicals in a comprehensive groundwater model that integrates current and future sources, groundwater P&T systems (including extraction and injection), and remedial decisions for source areas. The CIE model will incorporate current remedial decisions (e.g., RODs, performance assessments) for sources and groundwater, and will add current soil inventory model data for other areas. The CIE will be revised as new information becomes available (e.g., periodically or when RODs are signed), and the model will be used for planning and for remedial alternative evaluations.

(d) Technical aspects of DOE’s strategy also applies broadly to all remediation and cleanup activities to ensure that technical evaluations utilize DOE technical cleanup principles as well as applicable regulatory and DOE directive requirements. Technical integration involves executing several activities in a coordinated fashion including field investigations, risk assessments, and alternative development/evaluation including associated documentation associated with CERCLA remediation and RCRA cleanup through the completion of an integrated CERCLA/RCRA approach where appropriate. Technical integration includes coordinating and optimizing the development and collection of consistent geological, hydrogeological, and geophysical data, and conceptual models to support the risk and alternative assessment process, and remedial decisions.

(e) The Contractor’s senior management is responsible for ensuring data quality requirements are achieved (including data quality objectives, and technical evaluations and documentation quality) and that consistency in data is maintained across program efforts. Document quality is a critical component in effectively communicating and documenting technical evaluations and decisions that require management involvement at the highest levels to ensure document quality requirements are being achieved. Through the technical integration efforts the Contractor is to identify opportunities to reduce the cost and time required to complete characterization efforts and risk assessments in accordance to DOE’s strategic cleanup principles. The principles outline that characterization and risk assessments will conform to CERCLA requirements, including characterizing to determine a basis for action on each waste site through direct characterization or regulator-agreed analogy. The Contractor is to work collaboratively with DOE in executing its lead federal agency role with regulators and stakeholders in the preparation, submission, approval, and defense of modeling, risk assessment, and supporting documentation, as well as remedial alternative evaluations.

C.5.1 Modeling and Risk Assessments

(a) A critical element of achieving cleanup on the Central Plateau is to conduct a CIE across Central Plateau waste sites. The Contractor shall develop and maintain an integrated risk model that allows the assessment of soil waste site chemical inventories, the threat they pose to groundwater and assesses the effectiveness of alternative remedies to protect groundwater across the Central Plateau in a cumulative manner. Companion efforts are the Hanford Site CA, which will assess the radiological constituents. In addition, a bio-mobilization/bio-intrusion study will be conducted.

(b) The Contractor shall:
(1) Maintain and revise the Hanford Site CA including Hanford Site Disposition Baseline as cleanup decisions are made, WIDS is updated, and the Lifecycle Report is updated. The Contractor shall also maintain the CA Maintenance Plan.

(2) Conduct, maintain, and revise risk assessments to facilitate regulatory and other project decisions, as required in accordance with all applicable requirements. The Contractor shall maintain, update, and revise the Hanford Site Groundwater Model to support CERCLA, NEPA, RCRA, and AEA, as required.

(3) Upgrade and maintain the Central Plateau Groundwater Model and Plateau to River (P2R) Model to keep current with newly generated groundwater data that is developed by CERCLA characterization, RCRA investigations, and other studies. The Contractor shall maintain and update the 100 Area, 300 Area, and land transfer groundwater models.

C.5.2 Soil Boring and Sampling

The Contractor shall drill and sample soil for vadose zone characterization, as defined in approved CERCLA work plans, SAPs, and RCRA unit investigations, in both the Central Plateau and along the River Corridor.

C.5.3 Borehole and Surface Geophysical Logging

The Contractor shall conduct geophysical logging for deep borings, about 300 ft each, and shallow borings, about 100 ft each; conduct neutron logging and spectral gamma in boreholes; and conduct surface geophysical surveys (e.g., micro-seismic, resistivity, electromagnetics, electro-resistivity tomography; magnetics, and microgravity) to support well and boring installation activities and to characterize contamination in the subsurface. The Contractor shall process all data resulting from this activity and enter it into the Hanford Site geophysical logging databases.

C.5.4 Treatability Tests

The Contractor shall conduct treatability tests as needed and conduct investigative activities associated with application of new methods for characterizing, remediating, and monitoring groundwater, vadose zone, and waste sites.

C.5.5 Operable Unit Decision Document Activities

(a) Consistent with the background provided in Section C.5 (RCRA/CERCLA Decision Documents) and in addition to the scope requirements in Sections C.5.1, C.5.2, C.5.3, C.5.4, and C.5.5, the Contractor shall develop decision documents (RI/FS reports including risk assessments, Proposed Plans and Remedial Design/Remedial Action Work Plans) necessary to obtain final CERCLA RODs for the Hanford Site OUs.

(b) The Contractor shall develop decision documents and prepare remedial or removal action implementing documentation for Hanford Site Groundwater, Central Plateau and River Corridor facility and waste site OUs inclusive of RCRA TSD units to include the RFI/CMS and/or RI/FS Work Plan (as described in the TPA).

(c) The Contractor shall conduct characterization requirements as defined in the work plans, treatability study plans, data quality objectives (DQO), and SAPs; support the development and maintenance of Sitewide, Central Plateau, and unit specific conceptual site models (CSM), as well as the CA and
CIE; and prepare RFI/CMS and/or RI/FS reports including risk assessments, Closure Plans and/or Proposed Plans.

(d) The Contractor shall provide support to DOE in executing its owner role with regulators and stakeholders in the preparation, submission, approval, and defense of the decision, regulatory, and supporting documentation.

(e) The Contractor shall:

1. Perform field investigations. Field investigations involve intrusive and non-intrusive investigations and a range of technologies are expected to be employed. The Contractor shall research and explore new and emerging technologies to improve the cost-effectiveness and time to accomplish field investigations while ensuring DQOs are met.

2. Analyze, evaluate, and report on data from field activities (e.g., characterization, field studies, treatability testing, and technology deployment). Data and data needs from adjacent OUs should be integrated into all field activities, as applicable. Evaluate data to confirm or update the CSM including identification of contaminants, assessment of exposure and toxicity to risk in line with agreed upon land use, exposure scenarios and cleanup levels, and characterize risk.

3. Review decision documents prepared by OHCs, as requested by the CO.

C.5.5.1 River Corridor Operable Unit Decision Documents

The desired outcome will be a final set of DOE and regulator-approved CERCLA RODs and RD/RAWPs for the 100-BC, 100-K, and 100-N OUs that define any remaining cleanup actions required in those OUs.

C.5.5.2 Central Plateau Operable Unit Decision Documents

The desired outcome to obtain DOE and regulator-approved CERCLA and/or RCRA decision documents for the Central Plateau waste sites, pipelines, canyons and groundwater OUs inclusive of closure plans for RCRA TSD units.

C.6 Core Functions

The primary purpose of this section is to assist in describing the specific responsibilities of the CPCC within Hanford crosscutting programs. The following sections define the programs that the CPCC shall establish to perform the cleanup mission safely and effectively on the Hanford Site Central Plateau and other related facilities remaining along the River Corridor under the CPCC. These activities are associated across all work within the PWS.

C.6.1 Project Support Performance Requirements

The following sections define the programs that must exist to safely and effectively perform the cleanup mission at the Hanford Site Central Plateau and related facilities. The requirements and associated implementing instructions established under these programs shall be applied to all work within the PWS.

C.6.1.1 Project Management

(a) 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 the development of project management plans, baselines, disciplined change control processes, and service level agreements.
(b) The Contractor shall prepare and submit for DOE approval a PMP, consistent with the requirements in DOE O 413.3B, \textit{Program and Project Management for the Acquisition of Capital Assets}. The PMP 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 provide integration and control of scope, schedule, and cost information. The capital asset projects do not need to be standalone project management plans and instead, may be an appendix to the PMP.

(c) The Contractor shall provide all management and technical information to:

1. Meet the requirements of DOE O 413.3B.
2. Support the budget formulation activities including, but not limited to, emerging work items list; budget formulation input (including Integrated Priority List), the fall limited budget update submission, budget scenario development, and budget presentations (such as public and regulatory briefings, etc.).
3. Meet the data requirements of the DOE Integrated Planning, Accountability, and Budgeting System (IPABS), and the Project Assessment and Reporting System (PARS II).
4. Ensure transparency in project performance and efficiency in project execution.
5. Support audits, evaluations, and external technical reviews.
6. Support other DOE project performance assessments and information needs.

(d) All project management information developed under this Contract shall be accessible electronically by DOE. The desired outcome is a predictable and consistent Contractor performance aligned to customer needs conducted within annual and multi-year baselines.

\textbf{C.6.1.2 Project Integration and Control and Earned Value Management}


(b) The EVMSD shall describe the management processes and controls that shall be used to implement a compliant Earned Value Management System (EVMS), manage and control work, and complete Contract requirements.

(c) The EVMSD shall include:

1. The baseline development process and the hierarchy of documents that shall be used to describe and maintain the Performance Measurement Baseline (PMB);
2. Identification of the systems, tools and software and integration of these systems with the Work Breakdown Structure (WBS) and accounting systems and data;
3. The process the Contractor intends to use for earned value management, configuration control, interface control, and document control;
4. The Contractor’s Project Baseline Change Control Process;
5. The Contractor’s process for handling changes that are only impacts to costs and not identified as a schedule impact;
(6) The Organizational Breakdown Structure, including roles and responsibilities of each major organization and identification of key management personnel; and

(7) A list of project software the Contractor proposes to use for project control.

(d) The Contractor shall comply with the requirements of the Section H Clause entitled, DOE-H-2024, *Earned Value Management System*, and have the EVMS evaluated against the EIA-748 standard by a qualified, independent, third party selected by the DOE Office of Project Management Oversight & Assessments (DOE-PM). Upon completion of the evaluation and closure of all corrective actions, DOE-PM will certify the Contractor’s EVMS as compliant with the EIA-748 standard. Subsequent to the initial evaluation and certification, DOE-PM may at any time require the Contractor to repeat the evaluation and certification process. The Contractor shall provide all necessary support to conduct the initial and any subsequent evaluations and closure of all corrective actions.

(e) The Contractor shall also flow down EVMS requirements in accordance with the Section H Clause entitled, DOE-H-2024, *Earned Value Management System*.

**C.6.1.3 Performance Measurement Baseline**

(a) The PMB shall be an integrated and traceable technical scope, schedule, and cost execution baseline that encompasses all activities to execute the requirements of this Contract, informs and is integrated with the OHC’s lifecycle scope, schedule and cost baseline, as applicable, and enables safe, effective and efficient advancement and completion of the Hanford Site mission.

(b) The PMB shall include the following:

(1) Technical Scope. The following baseline documents shall be viewed collectively as the technical scope for the cost/schedule control system:

   (i) Contract PWS and other sections that define work scope and requirements;

   (ii) Waste site and facility lists;

   (iii) Approved interface agreements; and

   (iv) WBS Dictionary Sheets (the WBS submittal shall include a data column which cross references the WBS elements at the lowest level to the appropriate Contract Line Item Number [CLIN]).

(c) The PMB shall comply with the following requirements:

(1) The WBS shall encompass all activities required in this Contract and provide the basis for all project control system components, including:

   (i) Estimating;

   (ii) Scheduling;

   (iii) Budgeting; and

   (iv) Project performance reporting (as required under this contract).

(2) Control accounts within the WBS shall be identified; and

(3) The baseline and management thereof shall comply with EIA-748 Earned Value Management Systems and DOE O 413.3B.
(d) The schedule shall:

(1) Include all significant external interfaces, all TPA and Consent Decree milestones, other regulatory and Defense Nuclear Facilities Safety Board commitments, and Government-Furnished Services and Information (GFS/I) dependencies.

(2) Be an activity based, resource loaded, logical network-based and integrated plan that correlates to the WBS and is vertically traceable to the EVMS control accounts and aligns with the Contractor’s field schedules.

(3) Include earned value method at the activity level and be capable of summarizing from control accounts to higher WBS levels.

(4) Any additional working level schedules deemed necessary by the Contractor shall be integrated with the PMB and be able to provide earned value reporting in compliance with EIA-748.

(5) The 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.

(6) The method used to determine earned value shall be identified for each control account.

(7) The PMB shall be accessible to DOE at any time through access to electronic software and native data files.

(8) The Contractor shall update the Enterprise Project Structure Node of the DOE Primavera P6 (P6) Schedule Database with the P6 XER files for the baseline and current performance schedules.

(e) The PMB shall be logically tied, driven, and integrated with:

(1) Financial system(s) for consistency and accurate reporting of information with traceability to budget and reporting requirements.

(2) DOE, congressional, regulatory, and external commitments.

(3) Performance milestones including contract performance incentives and other performance measures established by DOE.

C.6.1.3.1 Performance Measurement Baseline Submittals

(a) The Contractor shall develop and submit an initial PMB that is representative of the initial Task Order scopes of work. Subsequent updates to the PMB will occur as each Task Order is negotiated and awarded and implemented into the PMB. These proposed PMB updates, for additional Task Order work only, will be submitted as part of the Task Ordering Process to the CO, for DOE and Contractor negotiation and DOE approval, as part of the Contractor’s Task Order Proposals. The Contractor shall comply with the requirements of Section H Clause entitled, Task Ordering Procedure. The Contractor shall also follow the requirements of their EVMSD requirements for baseline change control process.

(b) The Contractor shall provide the WBS, WBS dictionary data, and basis of estimate data in either Microsoft Word® or Microsoft Access® format. Cost data shall be provided in Microsoft Access® or Microsoft Excel® format and the schedule shall be provided utilizing the current version of Primavera Systems, Inc., Enterprise for Construction® software unless agreed to otherwise by DOE.

(c) The Contractor shall provide additional data that may be required by the HMESC for development of the Hanford Sitewide lifecycle baseline and DOE Integrated Master Plan (IMP).
(d) The Contractor shall support DOE External Independent Review and Energy Systems Acquisition Advisory Board (ESAAB) review as required.

C.6.2 Project Performance Reporting

(a) The Contractor shall provide DOE with the necessary project performance information to support budget planning and execution, project planning and execution; project performance reporting, audit, and evaluation; and other DOE performance assessment and information needs.

C.6.2.1 Monthly Performance Report

(a) The Contractor shall submit and transmit to DOE a Monthly Performance Report representing the prior month’s performance by the 15th of each month.

(b) The Monthly Performance Report shall include a summary of overall contract performance and a separate report for each of the major work scopes and projects at the PBS level.

(c) The summary of overall contract performance shall include:

   (1) Key accomplishments:

      (i) Major issues including actions required by the Contractor and DOE;

      (ii) Analysis of funds expenditure, with projections for the Project by FY and life of the Contract;

      (iii) Technical scope, schedule, and cost variance analysis; including implications to near term and long term milestones and deliverables at risk of being missed;

      (iv) Discussion of corrective actions currently in place to address performance issues including initiation date of corrective actions; and

      (v) Information on any safety or quality matters that emerged or persisted during the reporting month.

(d) Each of the major project reports shall include:

   (1) Project manager’s narrative assessment including:

      (i) Significant accomplishments and progress towards completion of project goals and objectives:

         (A) Key risks and challenges; and


   (2) Business structure information to demonstrate ongoing compliance with the requirements of the Section H Clause entitled, Subcontracted Work;

   (3) Project Baseline Performance including:

      (i) EVMS information using the following Office of Management and Budget (OMB) Contract Performance Report formats (DI-MGMT-81466);

      (ii) Format 1, DD Form 2734/1, Mar 05, Work Breakdown Structure;

      (iii) Format 2, DD Form 2734/2, Mar 05, Organizational Categories;
(iv) Format 3, DD Form 2734/3, Mar 05, Baseline;
(v) Format 4, DD Form 2734/4, Mar 05, Staffing; and
(vi) Format 5, DD Form 2734/5, Mar 05, Explanations and Problem Analysis.

(4) The Contract Performance Reports shall be provided in the format forms referenced in the Integrated Program Management Report (IPMR) Data Item Description (DID) DI-MGMT-81861, unless the Contract specifies otherwise;

(5) Contract Funds Status Report (CFSR) shall be provided in accordance with DID, DI-MGMT-81468, CFSR, or equivalent;

(6) Baseline schedule status, which reflects progress against the baseline and includes critical path analysis, performance trends, variance discussion(s), and potential issues related to milestones;

(7) Contract ETCs and EACs;

(8) A 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;

(9) Project 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;

(10) The project risk assessment shall also identify the engineering and technology to reduce the risk and uncertainty with the project; and

(11) Actions required by DOE, including GFS/I and DOE decisions.

C.6.2.2 Project Review Meetings
The Contractor shall participate in a monthly contract/project review and be prepared to address any of the information in the monthly report and other information as requested by DOE. A weekly contract or project status meeting shall be conducted at DOE’s request to provide interim updates and address issues.

C.6.2.3 Cost Estimating
(a) Cost estimates shall be credible, well documented, accurate, and comprehensive.

(b) Contractor developed cost estimates form the basis of the cost baseline of the PMB and are important when evaluating proposed Contract changes. DOE uses these cost estimates for budget formulation, Contract change management, cleanup program planning, establishing a database of estimated and actual costs, and performance measurement. The Contractor shall prepare cost estimates in accordance with the requirements in Section H Clause entitled, Cost Estimating, and Section H Clause entitled, Task Ordering Procedure, of this Contract and using The Twelve Steps of High-Quality Cost Estimating Process identified by the Government Accountability Office (GAO) in GAO-09-3SP, GAO Cost Estimating and Assessment Guide, for all priced Contract actions exceeding the simplified acquisition threshold.

C.6.2.4 Scheduling
(a) The Contractor shall support DOE and the HMESC contractor in the development and maintenance of the DOE Program IMP through the use of a DOE provided standardized coding structure.
The Contractors PMB and Integrated Master Schedule (IMS) shall utilize the DOE provided coding structure to integrate the Contractor’s activities and capital asset projects into the IMP. The IMS integrates the operations activities, capital asset projects, and other activities managed by the Contractor into one schedule. DOE will use the individual Contractor IMS from the Contractor and OHCs to construct the IMP.

(b) The Contractor shall develop the IMS in accordance with the National Defense Industrial Association’s Planning & Scheduling Excellence Guide (v3.0), and EIA-748 Guidelines. The Contractor’s IMS shall be resource loaded.

c) HMESC will lead development of the Hanford IMP for DOE.

C.6.2.5 Risk Management

(a) Successful execution of the Hanford Site cleanup mission requires an integrated risk management program where crosscutting risks and mitigation actions are identified, communicated, and coordinated with DOE and OHCs. The conduct of risk management shall result in risk informed prioritization of program, project, and infrastructure investments that facilitate successful project execution and program management.

(b) The Contractor shall implement a risk management program in compliance with DOE O 413.3B and DOE policy Requirements for Management of the Office of Environmental Management’s Cleanup Program. The Contractor shall also incorporate the principles of DOE G 413.3-7A, Risk Management Guide, and GAO-09-3SP in its risk management process.

(c) The Contractor shall submit a Risk Management Plan (RMP) to DOE for approval. The capital asset projects do not need to be standalone risk management plans and instead, may be an appendix to the RMP. The plan shall identify the processes and procedures that will be implemented to address risk identification, qualitative risk assessment, quantitative risk analysis, risk handling, schedule risk analysis, risk monitoring and reporting, and calculating the recommended management reserve and schedule reserve required for adequate management of Contractor-controlled risk.

(d) The Contractor shall communicate its risk analysis pertaining to crosscutting decisions to DOE and OHCs, including agreement as to who shall be the lead for managing each risk. These crosscutting impacts shall be quantified in terms of probability, cost, and schedule impact to the overall Hanford Site cleanup mission, where possible.

C.6.3 Environment, Safety, Health & Quality

C.6.3.1 Worker Safety and Health

The Contractor shall develop (or adapt) and implement a Worker Safety and Health Program that complies with 10 CFR 851, Worker Safety and Health Program, and submit the program to DOE for review and approval.

C.6.3.1.1 Workplace Substance Abuse Programs

(a) The authorities and requirements for a Workplace Substance Abuse Program (WSAP) are derived from 10 CFR 707, Workplace Substance Abuse Programs at DOE Sites and 49 CFR 40, Procedures for Transportation Workplace Drug and Alcohol Testing Programs. The WSAP is required of the Contractor, and shall be flowed down to all subcontractors with personnel in testing-designated positions. HMESC will establish program requirements, provide program procedures, conduct employee and supervisory training, establish testing programs, and maintain the official WSAP records.
(b) The Contractor shall:

1. Provide a WSAP Implementation Plan to DOE for approval, and review and update the plan;

2. Comply with the requirements in 10 CFR 707, Workplace Substance Abuse Programs at DOE Sites; DOE O 350.1, Contractor Human Resource Management Programs; and 49 CFR 40, Procedures for Transportation Workplace Drug and Alcohol Testing Programs, as administered by the overall WSAP Implementation Plan;

3. Comply with the HMESC established testing program for employees in testing designated positions. Testing designated positions are identified by the Contractor and apply to employees whose duties involve:

   i. Access to or handling of classified information;
   
   ii. Access to or handling of Special Nuclear Material (SNM);
   
   iii. High risk of danger to life, the environment, public health and safety, or national security; and
   
   iv. Transportation of hazardous materials to or from a DOE site.

4. Coordinate and provide drug/alcohol testing information to HMESC, as required by the HMESC program and U.S. Department of Transportation (DOT) regulations;

5. Comply with the HMESC-established procedures and records management requirements for the implementation of the WSAP;

6. Comply with procedures and programs established by HMESC for education awareness on illegal substance use in the workplace, supervisory training regarding their responsibilities with impaired employees, and Employee Assistance Program services; and

7. Report occurrence and/or reasonable suspicion testing regarding the WSAP to HMESC within the timeframe established by HMESC to allow notice to DOE within four hours from the time the testing is ordered.

C.6.3.1.2 Safety Culture

(a) The Contractor shall:

1. Adopt and continuously improve organizational culture (Site core values and behaviors), Safety Culture, and Safety Conscious Work Environment, including implementation and utilization of programs/processes that support employees raising concerns without fear of retaliation. These programs/processes include, but are not limited to, the Employee Concerns Program (ECP); the Differing Professional Opinions Process; Ethics and Compliance Program/Process; and Alternative Dispute Resolution;

2. Continuously promote a work environment where employees are encouraged to raise concerns. The Contractor shall define expectations, rigorously reinforce those expectations, and take actions to mitigate the potential for a chilling effect;

3. Conduct business in a manner fully transparent to DOE. Activities are demonstrated by open, clear, and well-communicated management actions and technical and project documentation. Identified issues and trends are proactively shared with DOE;
(4) Champion a culture that promotes proactive self-identification and reporting of issues that identifies and takes action on systemic weaknesses leading to sustained continuous self-improvement; and

(5) Champion a culture that emphasizes the following attributes:

(i) Demonstrated safety leadership;
(ii) Risk-informed, conservative decision making;
(iii) Management engagement and time in the field;
(iv) Staff recruitment, selection, retention, and development;
(v) Open communication and fostering an environment free from retribution;
(vi) Clear expectation and accountability;
(vii) Personal commitment to everyone’s safety;
(viii) Teamwork and mutual respect;
(ix) Participation in work planning and improvement;
(x) Mindful of hazards and controls;
(xi) Credibility, trust, and reporting errors and problems;
(xii) Effective resolution of reported problems;
(xiii) Performance monitoring through multiple means;
(xiv) Use of operations experience; and
(xv) Questioning attitude.

C.6.3.2 Industrial Hygiene
The Contractor shall implement a comprehensive Industrial Hygiene Program in compliance with 10 CFR 851 and the associated regulatory and consensus standards that are incorporated by reference.

C.6.3.3 Beryllium Program
(a) The Contractor shall:

(1) Perform work in compliance with 10 CFR 850, *Chronic Beryllium Disease Prevention Program*. The Contractor shall work with HMESC to develop and manage the integrated Hanford Sitewide Chronic Beryllium Disease Prevention Program (CBDPP) plan; and

(2) Provide interface with the HMESC Beryllium Health Advocate regarding management of the Hanford Site CBDPP.

C.6.3.4 Site Wide Safety Systems
(a) HMESC integrates and coordinates the Hanford Site safety and health standards through MSC-MP-41080, *Hanford Integrated Standards Management Plan*. The Contractor shall participate in the development and implementation of the integrated Site safety and health programs.
(b) The goal is to have integrated and standardized programs at Hanford for worker safety and health where there are similar hazards, requirements, and worker expectations. Since Hanford Site workers may perform work in facilities controlled by OHCs, safety and health is improved through integrated and standardized safety and health programs.

(c) The Integrated Site Safety and Health Programs provide standardized safe-work practices and applicable mandatory training provided by HMESC. All worker safety and health practices must be compliant with 10 CFR 851, *Worker Safety and Health Program*. MSC-MP-41080 defines the processes used to develop, implement, maintain, and revise Site Safety and Health Standards. The processes defined in MSC-MP-41080 are intended to encourage and reinforce collaboration through a consensus process among DOE, Hanford Contractors, and Bargaining Units on the Hanford Site.

(d) Although there are 10 Site standards listed in Table J-3, *Hanford Site Services and Interface Requirements Matrix*, service entitled, *Site Safety Standards (Common Safety Processes)*, the Contractor is allowed to increase or decrease the number of Site standards with DOE approval. Discrepancies amongst the Hanford Contractors that cannot be resolved internally by the facilitator and or Integrated and Sitewide Safety Systems Director must be elevated to the Senior Management Team (SMT) for resolution. If the SMT cannot resolve the impasse, it is elevated to DOE for final resolution. The Contractors shall adhere to the DOE decision through Contract direction. The above actions do not eliminate or replace contractor internal dispute resolution processes, Collective Bargaining Agreements or Hanford Site ECPs.

(e) The Contractor shall:

1. Work collaboratively to develop and approve MSC-MP-41080.
2. Provide representatives to attend regular Site safety and health program meetings to resolve standardized safe-work practices and training needs.
3. Provide input to HMESC as required to ensure integration and implementation of the Site integrated and standardized safety and health programs.

**C.6.3.5 Radiation Protection**

(a) The Contractor shall:

1. Develop and implement a Radiation Protection Program that complies with the requirements of 10 CFR 835, *Occupational Radiation Protection*, and DOE/RL-2002-12, *Hanford Radiological Health and Safety Document*. Utilize guidance from DOE-STD-1098-2017, *Radiological Control*, to develop the program; and


**C.6.3.6 Radiological Assistance Program**

(a) HMESC manages the Region 8 Radiological Assistance Program (RAP), as described in DOE O 153.1, *Departmental Radiological Emergency Response Assets*, on behalf of DOE. The Region 8 RAP is responsible for Alaska, Oregon, Washington, and other regions, as directed by DOE Headquarters (HQ). The RAP Mission is to provide first-responder radiological assistance to protect the health and safety of the general public and the environment; assist DOE program elements, and other federal, state, Tribal and local agencies in the detection, identification and analysis, and response to events involving the use of radiological/nuclear material. The RAP provides
24-hour-a-day radiological response capabilities. The RAP teams consist of DOE and DOE contractor personnel that perform radiological assistance duties as part of their normal employment or as part of the terms of the Contract between their employer and DOE. HMESC will require augmentation of RAP Response Team personnel, equipment, and expertise as delineated in work scope arrangements with the Contractor, OHCs or offsite vendors.

(b) The Contractor shall:

(1) Establish an agreement with HMESC detailing the specific services to be provided by the Contractor in support of the Region 8 RAP;

(2) Provide qualified personnel, technical expertise, equipment, and support to the DOE Region 8 RAP as delineated in the inter-contractor agreement to ensure maintenance and staffing of emergency teams with the ability to respond under the direction of DOE National Nuclear Security Administration and the U.S. Department of Homeland Security; and

(3) As specified in the inter-contractor agreement, adhere to the requirements established by HMESC, consistent with DOE O 153.1.

C.6.3.7 Quality Assurance

The Contractor shall submit a Quality Assurance Plan (QAP) that implements Quality Assurance (QA) program requirements identified in Section J, Attachment J-2, Table J-2.1 and E.1, using a graded approach for DOE approval. The graded approach shall be documented and submitted for DOE approval as a standalone document or combined with the QAP.

C.6.3.7.1 Requirements Management Program

(a) The Contractor shall:

(1) Develop, document, and implement an effective requirements management system that establishes and maintains an adequate requirements dataset and provides bi-directional traceability;

(2) Use the HMESC-provided (Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix, service entitled, Requirements Management) requirements management software; and

(3) Participate in the requirements management forum.

C.6.3.7.2 Procedure Management

(a) The Contractor shall:

(1) Prepare, review, approve, issue, use, and revise documents to prescribe work processes; and

(2) Identify and control procedures to ensure proper use.

(b) The HMESC-provided Hanford Site Procedure Management System (Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix, service entitled, Procedures Management System) is available for use by the Contractor.

C.6.3.8 Training

(a) The Contractor shall:
(1) Establish a training program in accordance with DOE O 426.2, Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities, and all applicable laws and regulations. The Training Program Plan shall be submitted to DOE for approval. The program shall include a Training Implementation Matrix (TIM) or training program description or plan (TPP), which shall be updated annually and submitted to DOE for approval;

(2) Track employee training status and notify employees of training needs (this includes training provided by OHCs, instrument vendors, and internal Contractor training). Training records shall be maintained and retrievable for current employees;

(3) Coordinate with OHCs to consolidate training modules, where practicable;

(4) Ensure that its training program is configured/managed so the personnel who do not have the necessary training (e.g., not trained, not pre-qualified, etc.) are prohibited from performing the work that requires the training; and


C.6.3.9 Environmental Regulatory Management

(a) The Contractor shall:

(1) Comply with environmental requirements and cleanup requirements under: the Hanford Federal Facilities Agreement and Consent Order (TPA), DOE/RL-89-10; the Consent Decree, State of Washington v. Dept. of Energy, Case No. 2:08-cv-05085-FVS (October 25, 2010) as amended; the Hanford Site CERCLA cleanup Decisions as listed in the, Hanford Site Fourth CERCLA Five-Year Review Report DOE/RL-2016-001; the Hanford Site Title V Air Operating Permit 00-05-006 Renewal 2, Rev. B; the Washington State’s Hanford Facility Dangerous Waste Permit (WA7890008967); and, the compliance agreements and negotiations in the Central Plateau Cleanup Completion Strategy DOE/RL-2009-81 Rev. 0.

(2) Execute work consistent with DOE NEPA decisions (Section J, Attachment J-2, Table J.2-2).

(3) When requested by DOE, prepare technical information required for additional NEPA analyses and/or documentation.

(4) Execute the Hanford Site environmental permitting and regulatory compliance activities per Section J, Attachment J-3, Table J-3.

(5) Support DOE in responding to regulatory issues.

(6) Cooperate and coordinate when requested by DOE during enforcement actions including tracking, trending, and evaluating actions; coordinating and integrating responses; developing a protocol with the OHCs for enforcement inspections; and, for resolving compliance issues.

Inspection Actions

(a) The Contractor shall:

(1) Interface with other contractors in providing legally and contractually required air, liquid effluent, and other media environmental monitoring data.
(2) Collect, compile, and/or integrate air and liquid effluent monitoring data from facilities assigned under the contract.

(3) Every three years obtain a qualified third party audit of the Contractor’s Environmental Management System (EMS).

(4) Submit an EMS internal audit compliant with DOE O 436.1 Supp Rev. 0, Departmental Sustainability.

C.6.3.10 Conduct of Operations

(a) The Contractor shall:

(1) Establish a Conduct of Operations (CONOPS) Program using the graded approach to CONOPS requirements and attributes identified in DOE O 422.1 for all Hazard Category 1, 2, and 3 nuclear facilities and for other than Hazard Category 1, 2, and 3 nuclear facilities. Facilities may be grouped as appropriate.

(2) Define graded approach for causal analysis and corrective actions for High, Low, and Informational Level reports as required by DOE O 232.2A, Occurrence Reporting and Processing of Operations Information, in the QAP.

(b) The CONOPS Program shall include the contractor’s implementing process or procedure for activity level work planning and control that achieves the following goals:

(1) Applies to all facilities and is not limited to nuclear facilities and activities.

(2) Protects the worker, the public, and the environment by scoping, planning, scheduling, and preparing in a manner that results in the safe execution of work.

(3) Mitigates or eliminates the hazards associated with the work.

(4) Identifies the impact of work to the facility and work groups and plan, control, and execute the work without incurring unanticipated issues resulting from the work.

(5) Maximizes efficiency and effectiveness of Site personnel and material resources.

(6) Maximizes availability and reliability of facility equipment and systems.

(7) Maximizes continuous feedback and improvement including worker feedback mechanisms.

C.6.3.11 Nuclear Safety

(a) The Contractor shall:

(1) Perform work in accordance with the safety basis for the scope of work covered by this Contract.

(2) Implement a nuclear safety program that satisfies the requirements of 10 CFR 830, Nuclear Safety Management, including Subpart A, Quality Assurance Requirements, and Subpart B, Safety Basis Requirements.

(3) Perform the role of Hanford Sitewide Transportation Safety Document (DOE/RL-2001-36, as amended and approved by DOE) Configuration Manager, as described in J.3-b.87 to include the coordination of this service to OHCs.
C.6.3.12 Conduct of Engineering

(a) The delegations below are provided for operational flexibility. DOE retains overall authority for the Hanford Site.

(b) The Contractor shall:

(1) Function as the Design Authority when appointed in accordance with DOE O 413.3B.

(2) Accept delegation per DOE O 420.1 to act as owner as it applies to industry codes and standards.

(3) Act as the National Fire Protection Association (NFPA) 70, National Electrical Code, Authority Having Jurisdiction.

(4) Develop a process to delineate which design products are stamped by a licensed professional engineer, for DOE’s approval, and implement as approved.

(5) Be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, and other services furnished by the Contractor under this Contract.

(6) Submit to DOE an Independently Qualified Registered Professional Engineer (IQRPE) review as required by Washington Administrative Code 173-303, Dangerous Waste Regulations.

(7) With the manager of tank farms as the lead, support the development and maintenance and provide concurrence to of the Hanford Site Natural Phenomena Hazards (NPH) requirements document, HNF-SD-GN-ER-501, Natural Phenomena Hazards, Hanford Site, Washington, document in accordance with Section J, Attachment J-3, Table J-3 service entitled, Hanford Site Phenomena Hazards.

(8) Utilize the Hanford Site NPH requirements document HNF-SD-GN-ER-501, Natural Phenomena Hazards, Hanford Site, Washington, in the design, construction, and analysis of facilities assigned to this Contract in accordance with DOE O 420.1.

(9) Develop quarterly System Health Reports (SHR) to status and trend the operability, reliability, and material condition of the active safety class and active safety significant systems to include the following elements:

   (i) A system scorecard or health score;

   (ii) System operational status including key equipment availability;

   (iii) Maintenance backlog;

   (iv) Closed and outstanding corrective actions;

   (v) Closed and outstanding problem or adverse condition reports;

   (vi) System deficiencies;

   (vii) System performance trending;

   (viii) Material condition assessment including any walkthrough results; and

   (ix) Other significant events and issues.
C.6.3.13 Conduct of Maintenance

C.6.3.13.1 Real Property Maintenance

(a) In accordance with DOE O 430.1, Real Property Asset Management, real property assets must be sustained by maintenance, repair, and renovation activities to ensure: mission readiness; operational safety; worker health, environmental protection and compliance; security; and property preservation to cost-effectively meet program missions.

(b) The Contractor shall:

(1) Establish and document a maintenance management program for real property assigned to this Contract that includes the following:

(i) Establish a Computerized Maintenance Management System (CMMS) that provides the ability to track, capture, document, and demonstrate the real property maintenance cost expenditures at the component level.

(ii) Develop a method to determine the minimum acceptable level of condition for each asset; methods for categorizing Repair Needs (RN) deficiencies that are also classified as Deferred Maintenance (DM); management of the DM backlog; and a method to prioritize maintenance work.

(iii) Keep existing facilities in an acceptable condition, functional, and sustainable in support of current mission. This includes a management process for planning and budgeting for known future cyclical maintenance, repair, and renovation requirements for major building components or infrastructure systems; and a mechanism to track direct and indirect funded expenditures for maintenance and repair and renovation at the asset level.

(iv) Develop a technical and management process to align the performance, functional, and physical attributes of real property facilities, structures, systems, and components in the maintenance program with associated requirements, design, and operational information.

(v) Ensure real property asset availability for planned use or disposition using preventive and predictive maintenance and repairs.

(vi) Develop a five year forecast (by FY) and update annually to identify financial investments for sustainment of real property assets to support DOE strategic plans, program guidance, and Departmental performance targets. Include consideration for desired level of service, remaining service life, current condition assessments, Energy Independence and Security Act energy and water evaluations, utilizations surveys, the mission dependency of the asset, and projected funding for DM reduction.

(vii) Support HMESC in the Hanford Site Condition Assessment Surveys/Condition Assessment Information System (CAIS) for assigned facilities, other structures and facilities, real property trailers, and real property CONEX boxes. Any issues found during condition assessments surveys will be handled in accordance with the Contractor Assurance System (CAS).

C.6.3.13.2 Nuclear Facility Maintenance

(a) The Contractor shall perform maintenance in accordance with the requirements of DOE O 433.1, Maintenance Management Program for DOE Nuclear Facilities, to minimize the likelihood and consequences of human fallibility or technical and organizational system failures.
(b) The Contractor shall:

(1) Develop and implement a Nuclear Maintenance Management Program (NMMP) using the general and specific requirements and attributes identified in DOE O 433.1 for the DOE Hazard Category 2 and 3 Nuclear Facility;

(2) Provide to DOE for approval NMMP description documents consisting of entries for each general and specific maintenance requirement and attribute of DOE O 433.1; and

(3) Review, update, and obtain DOE approval of nuclear maintenance documentation demonstrating conformance at inception, when changes in conditions require changes in the documentation, and at least every three years or as directed by DOE (minor administrative changes and corrections or routine updates to cited documents do not require new DOE approval).

(c) An NMMP may be written to encompass both nuclear and non-nuclear facility maintenance in a single program.

**C.6.3.13.3 Personal Property Maintenance**

(a) The Contractor shall:

(1) Complete the DM and Repairs Disclosure for Personal/Capital Equipment Form by September 30th for each year. For capital equipment, not to be reported on by the Contractor, a request also shall be submitted to DOE for approval of non-reporting. The following definitions for DM and RN are provided:

(i) DM and Repair. Maintenance and repairs that were not performed when they should have been or were scheduled to be and which are put off or delayed for a future period. (Federal Accounting Standards Advisory Board, Statement of Federal Financial Accounting Standards 42, Deferred Maintenance and Repairs) Record in Facility Information Management System (FIMS) only the DM cost estimates associated with real property assets.

(ii) RN. The estimated cost to restore a real property asset’s component system failures noted during a condition assessment survey to a state substantially equivalent to the most recently configured capacity, efficiency, or capability. The “needs” originate from the real property asset, not necessarily management. Repair needs will always equal or exceed DM; the difference between the two depends on each noted deficiency’s optimum period and acceptability to management (adapted from Federal Real Property Council, 2013 Guidance for Real Property Inventory Reporting).

(2) Align and integrate the CMMS, addressed in this section, for tracking all Personal Property Maintenance Activities Work Packages including cost and schedule.

**C.6.3.14 Fire Protection Program**

(a) Existing Fire Protection Exemptions and Equivalencies are provided in Section J, Attachment J-2, Table J-2.2.

(b) The Contractor shall:

(1) Institutionalize and recognize the Hanford Fire Marshal’s (HFM) authority as contained in the Authority, Responsibilities, and Duties and Enforcement section of the DOE approved HFM
Charter (HNF-52336, Authority, Responsibilities, and Duties of the Hanford Fire Marshal [aka Fire Marshal’s Charter]).

(2) Ensure individuals performing testing of backflow preventers shall have a Washington State Backflow Assembly Tester certificate issued by the Washington State Department of Health.

(3) Ensure new projects and facility design, construction, and modifications involving fire systems are in accordance with Hanford Fire Protection Design Requirements (HNF-36174).

(4) Ensure all fire permits required by NFPA 1, Fire Code, Section 1.12, shall be issued by the HFM permit system. HFM permits shall be obtained and posted (or readily accessible) prior to the proposed activity or configuration.

C.6.3.15 Personal Property Management

C.6.3.15.1 Personal Property Management Program

(a) The Hanford Site Personal Property and Materials Management Program managed by HMESC is an over-arching program conducted in accordance with established DOE directives and other regulations and laws (FAR Part 52.245-1, Government Property; DEAR Part 952.245-5, Government Property (Cost Reimbursement; Time and Materials, or Labor-Hour Contracts; Section J.67, Laws, Regulations, and DOE Directives; and 41 CFR 109, DOE Property Management Regulations) that enables effective and efficient stewardship of personal property assets, and optimum reuse and disposal of federal personal property.

(b) The Contractor shall participate with HMESC in the development and execution of the Hanford Site Personal Property and Materials Management Program. The program provides for efficient tracking of accountable personal property Sitewide, management of the primary property management Sitewide database, including providing Sitewide property management reports and other related systems, central recycling, excess property disposition, equipment transfers and loans, and maintenance of central warehouses and associated inventory. Discrepancies amongst the Contractors that cannot be resolved internally shall be resolved through the interface management process.

(c) The Contractor shall manage a Contract-specific Personal Property and Materials Management Program consistent with the Hanford Site Program and requires the following:

(1) Provide a Contract-specific Personal Property and Material Management Program (Property Management System) and submit for DOE approval.

(2) Work with HMESC and OHCs in establishing Hanford Site Personal Property and Materials Management policies and procedures.

(3) Conduct a complete, wall-to-wall physical Contractor Controlled Inventory, including bar coding and tagging as applicable, and provide a report to DOE.

(4) Participate in Sitewide personal property borrowing and loaning activities (domestically and abroad); loans of Government property to and from non-contractors, other DOE sites, and/or other agencies.

(5) Participate in the Sitewide precious metals recycling program.

(6) Maintain an accurate inventory throughout the lifecycle of the Contract.
C.6.3.15.1.1 Disposition of Excess Personal Property
(a) When personal property in Condition Code 1, 4, or 7 (41 CFR 102-36.240) is determined to be excess to the needs of this Contract, it shall be posted on the Sitewide Excess Personal Property Bulletin Board for seven days. If the asset is not reutilized on the Hanford Site, then the Contractor shall use HMESC for further and final disposition.

(b) The Contractor shall:
   (1) Manage planning, coordination, asset isolation, cleanup, preparation for removal, transfer, and other activities required to complete the transfer of targeted assets.
   (2) Process scrap metal, paper, wood, and recyclable materials through HMSEC.
   (3) Report excess items within the timeframes specified in FAR Part 52.245-1, Government Property, and 41 CFR 109, Department of Energy Property Management Regulations.
   (4) Disposition nuclear-related or proliferation sensitive property in accordance with the requirements of 41 CFR 109 and DOE O 474.2, Nuclear Material Control and Accountability.

C.6.3.15.1.2 Inventory Management
(a) The Contractor shall:
   (1) Manage assigned inventory warehouses. Warehouse facility operations shall provide for tracking, storage, and disbursement of inventory items.
   (2) Perform an annual inventory of Government property within warehouse facilities assigned to this Contract.
   (3) Support an annual inventory with HMESC as the lead of HMESC’s convenience storage warehouse and any other shared warehouses containing CPCC personal property for this Contract.
   (4) Maintain appropriate levels of designated supplies and emergency response-related items, to ensure the timely availability of critical items.
   (5) Establish the most cost-effective method to provide common-use and critical items, including onsite storage, just-in-time contracts, and basic ordering agreements.
   (6) Follow the priorities for use of mandatory government sources listed in FAR Part 8, Required Sources of Supplies and Services, prior to purchasing personal property.
   (7) Maintain stock on hand or provide immediate access to critical items.
   (8) Support the Hanford Site automated material systems required to provide customer access and accountability for stored items.
   (9) Develop, implement, and administer the CPCC Spare Parts Program for this contract in compliance with DOE O 433.1, Maintenance Management Program for DOE Nuclear Facilities.

C.6.3.15.2 Real Property Asset Management
(a) In accordance with DOE O 430.1, Real Property Asset Management, real property must be managed in a safe, secure, cost-effective, and sustainable manner; ensure that financial investments in real property are aligned to meet DOE mission needs and requirements; and ensure the real property portfolio is appropriately sized, aligned, and in proper condition to support efficient mission
execution. This also includes providing a reliable FIMS information to HMESC that provides current, complete, and accurate information on real property holdings, enabling informed decision making in the planning, budgeting, operation, maintenance, and disposal of real property.

(b) The Contractor shall participate and coordinate with HMESC in strategic and tactical planning of real property short-term and long-term forecasts for this Contract and provide information to HMESC to document appropriately in master plans: Infrastructure and Services Alignment Plan (ISAP), Five Year Site Plan (FYSP), Facility Master Plan, and other planning activities (e.g., Hanford Site Population Forecasts) being developed and maintained by HMESC.

C.6.3.15.2.1 Facilities Information Management System (Reporting Systems)

(a) The Contractor shall:

(1) Provide to the HMESC FIMS Administrator on an annual basis, the required maintenance costs, and other data elements that need to be updated in FIMS at the asset level utilizing the captured component level maintenance data to meet the FIMS reporting requirements and timelines.

(2) Participate in the annual FIMS data validation effort, encompassing records review, onsite asset inspection, and validation of a select number of records. Support development of validation scorecard results and corrective action plan.

(3) Support HMESC to develop real property performance measurement/metrics for the Hanford Site to trend lifecycle management of real property assets.

C.6.3.15.2.2 General Purpose Facility Planning and Management

(a) The Contractor shall, with HMESC as the lead, participate in the Joint Contractor Space Utilization Board to:

(1) Coordinate, manage, and integrate office and warehouse needs across the Hanford Site to provide cost-effective, efficient, safe, and secure posture of real property to meet operating requirements.

(2) Evaluate the supply and demand of facilities for the Hanford Site to develop, maintain, and implement a collective strategy and objective to support and improve the effectiveness and efficiencies of facilities, as documented in the ISAP, FYSP, and Facility Master Plan.

C.6.3.15.3 Land-Use Planning and Management

(a) The Contractor shall coordinate with and support HMESC in a range of real property activities, such as conducting land-use planning for areas and specific parcels; conducting reviews and integrating land-use requests for new facilities, infrastructure systems, land improvements, or change of land use; conducting land management activities, including day-to-day implementation of the Comprehensive Land Use Plan (CLUP); managing land use requirements and beneficial reuse of land; and conducting real estate activities in the out-grant and disposal of real property or interests therein.

(b) The desired outcome for land-use planning and management is to perform work in compliance with the CLUP and its implementing plans and procedures, support HMESC in performing management of real property at the Hanford Site for DOE, and cooperate in the use of real property among OHCs.

(c) The Contractor shall:

(1) Comply with the CLUP and associated Area and Resource Management Plans as directed or interpreted by DOE.
(2) Provide input to HMESC to assess the need for updating the existing or developing new Area Management Plans and Resource Management Plans.

(3) Ensure that land use actions related to this Contract do not impede safety or completion of OHC projects on the Hanford Site.

(4) Provide necessary data and information to HMESC for performing Hanford Site Land-Use Planning and Management and for the development, maintenance, and implementation of an integrated, comprehensive Land Management Tracking and Documentation System.

(5) Maintain real property assets and identify corrective actions for deficiencies in land use. Document and track deficiencies until corrective actions are completed.

(6) Participate in the Site Selection and Evaluation and Excavation Permit Processes managed by HMESC.

(7) Provide land-use planning and management information to HMESC for the Stewardship Information Portal and the integration of data from data systems, including but not limited to:

   (i) Ecological Information System;
   (ii) Waste Information Data System and Wells;
   (iii) Stewardship Information System;
   (iv) Real Estate Records;
   (v) Borrow Pits;
   (vi) Site Evaluations;
   (vii) Site Excavation Permits;
   (viii) FIMS;
   (ix) CAS;
   (x) Hanford Structure Responsibility Assignment Matrix;
   (xi) Caretaker II;
   (xii) Chemical Information Tracking System; and
   (xiii) Hanford Fire Occupancy Permits.

C.6.3.16 Closure and Post-Cleanup Surveillance and Maintenance

(a) The Contractor shall complete safe and effective transition for areas where remediation has been completed to post-cleanup S&M.

(b) The Contractor shall:

   (1) Complete all activities required to transition areas where waste site remediation and facility D4 has been completed in accordance with regulatory requirements to the Hanford Post-Cleanup S&M Program.

   (2) Submit for DOE approval a Post-Cleanup S&M Plan that provides the proposed approach and criteria to be met for post-cleanup S&M.
(3) Submit for DOE approval Remedial Action Reports (RAR) for each of the areas described in DOE/RL-2010-35, Hanford Long-Term Stewardship Program Plan. The RARs shall document the completion of interim remedial action for each area.

(4) Support the conduct of a closure review with HMESC to confirm that documentation of waste site closure is consistent with the CERCLA ROD and no further action is needed to protect HHE by final RODs. This review shall also capture any interface control requirements included under the LTS Institutional Controls (IC) Program.

(5) Work with HMESC, as necessary, to prepare and provide the necessary documentation, and participate as part of the Integrated Project Team to transition each of the cleaned up areas into the post-cleanup S&M Program and ultimately to the Office of Legacy Management. The transitions shall be performed in accordance with DOE/RL-2010-35.

C.6.3.17 Information Management

C.6.3.17.1 Strategic Planning, Governance, and Enterprise Architecture

(a) The primary goal of the Strategic Planning, Governance, Enterprise Architecture, and Program Management scope of work is to enable the successful execution of the Hanford Site mission and associated activities by providing effective, efficient, and innovative Information Management (IM) and Information Technology (IT), maintenance of Hanford Site technical data in support of regulatory decision-making, and LTS.

(b) The Contractor shall participate in a Governance Advisory Board (Board) composed of key senior IT managers (Contractor, OHC and DOE) and stakeholders, subject to the approval of the DOE Federal Chief Information Officer (CIO). The board will provide policy guidance (e.g., analyses to be used by the government to develop policy), advice, and assistance in the definition, design, and implementation for the IT Program. In addition, the board serves as the core group providing advocacy for IT services and infrastructure business and technology across the Hanford Site. The governance function will work to foster full integration between the Hanford Enterprise Architecture and Capital Planning and Investment Control processes, including strategic planning, investment management, and portfolio management. The Governance Entity serves as the focal point for the development and coordination of Hanford Sitewide policy, guidance, including standards and best practices for IT services and infrastructure. This team is responsible for establishing common terminology definitions and frameworks, including policies, standards, processes, and procedures.

(c) The Contractor shall execute this Contract in accordance with OMB Circular A-130, Management of Federal Information Resources, and provide detailed input into the ongoing Capital Planning Investment Control process including, but not limited to, IT investment cost, schedule, and risk. This also includes responding to occasional data calls for more detailed IT investment and performance information.

(d) IM Strategic Planning and Enterprise Architecture: The Contractor shall ensure participation on the Board sufficiently demonstrates engagement in Strategic Planning and Enterprise Architecture.

(e) Hanford Site IM Standards: Hanford Site IM standards are managed through DOE or a separate DOE integration Contractor via the Board. The Contractor shall adhere to established Hanford Site IM standards.

C.6.3.17.2 Information Management—Technical

(a) In addition to the IM services provided via Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix, certain other requirements apply generally to all OHCs.
(b) The Business Management System (BMS) is a collection of various enterprise IM investments that provide core business functions such as Enterprise Resource Planning - including business intelligence, human resources, supply chain, finance, work management, and other related functions. BMS is managed through DOE or a separate DOE integration Contractor (e.g., HMESC). In accordance with the business and mission requirements outlined in this and other sections of the Contract, the Contractor shall utilize BMS information systems and services, as necessary and sufficient, to support Enterprise Resource Planning and other business functions.

(c) For infrastructure and other Contractor-proposed systems not mentioned elsewhere in this Contract but deemed mission essential, the Contractor shall provide the full lifecycle management for the approved system. Systems brought to the Contract by the Contractor shall be compatible with the systems utilized by DOE.

(d) The Contractor shall comprehensively identify its Supervisory Control and Data Acquisition (SCADA) Systems/Industrial Control Systems (ICS) and feed this information into the Business Impact Assessment Process conducted by DOE or DOE integration Contractors. The Contractor shall extend and integrate IT practices, programs, procedures, and requirements (e.g., engineering, configuration management, governance, architecture, cyber security, etc.) to its SCADA/ICS. Specialized cyber engineering services are available in Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix.

(e) The Contractor will have access to DOE or DOE integrator Contractor managed software assets covering many common business and mission needs. More details can be found in Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix.

**C.6.3.17.3 Government-Furnished and Other Available Software**

(a) The Contractor will be provided access to the software systems listed in Section J, Attachment J-11, *Government-Furnished Services and Information*, and other software systems as may be necessary to coordinate information exchange with customers and interface partners.

(b) The Contractor shall:

(1) Where applicable, use the software systems listed in Section J, Attachment J-11, *Government-Furnished Services and Information*. The Contractor is not responsible for any updates of listed software except where noted;

(2) Regarding software engineering and development, bring software development needs to the attention of the Governance Advisory Board as found in Section J, Attachment J-3, *Hanford Site Services and Interface Requirements Matrix*;

(3) Provide any additional databases and software programs they deem necessary to manage staff training requirements, facility equipment, analytical data, compliance with environmental regulations, and protection of the safety and health of its employees, in accordance with the strategic planning and governance provided above; and

(4) Ensure that all software meet the QA Requirements of their software QAP.

**C.6.3.17.4 Government-Furnished Services and Information**

(a) The Contractor will be provided with some programs and services to accomplish its mission. A detailed listing of services and information is given in Section J, Attachment J-11, *Government-Furnished Services and Information*. 
(b) The GFS/I included in this Contract are for the first year of this Contract term. DOE is committed to providing effective support to the Contractor throughout the period of Contract performance, and the Contractor may request that DOE consider providing additional GFS/I. To manage the GFS/I furnished under this Contract and to evaluate the additional GFS/I that may be required by the Contractor, the Contractor shall submit for DOE approval:

(1) GFS/I Request: Twelve month advance projection of GFS/I to be furnished under the Contract and additional Contractor-requested GFS/I, prior to each FY, for DOE approval; and

(2) GFS/I Request - Update: Quarterly update to the projection of GFS/I to be furnished under the Contract and additional Contractor-requested GFS/I, prior to each quarter, for DOE approval.

c) DOE will review the 12 month and quarterly advance projections. If DOE can support the additional Contractor-requested GFS/I, DOE will notify the Contractor within 30 days that the additional Contractor-requested GFS/I can be provided, and will provide the Contractor details regarding DOE action(s). The supported GFS/I will be added to Section J, Attachment J-11, Government-Furnished Services and Information, by Contract modification. If DOE cannot support a Contractor request, DOE will notify the Contractor within 30 days that the requested GFS/I cannot be provided, and there will be no DOE commitment to the Contractor to furnish the GFS/I.

d) For the additional Contractor-requested GFS/I, DOE will use its best efforts to meet these requests; however, in the event that DOE is unable, for any reason, to provide the Contractor with its requested additional GFS/I, the Contractor remains fully and solely responsible for obtaining the needed services and/or information in a timely manner and without any further recourse against DOE.

C.6.3.17.5 Records

(a) Records Management is a key component of documenting the Hanford Site’s legacy, compliance, cleanup progress, and decisions. It is essential that the Contractor maintain and manage records to ensure adequate and proper documentation of work accomplishments and document DOE stewardship of federal responsibilities and funds. The scope includes developing a strategy for lifecycle management of records, including inventory and schedule management, vital records, restoration, preservation for litigation actions, major collection management, and long-term records storage.

(b) The Contractor shall:

(1) Conduct Records Management in accordance with 44 USC Chapters 21, 29, 31, 33, and 35; 36 CFR, Subchapter B (Chapter XII), Records Management; the current DOE Records Management Program and Vital Records Orders in Section J, Attachment J-2, Requirement Sources and Implementing Documents, and any other DOE requirements as directed by the CO. These functions include, but are not limited to:

(i) Tasks associated with creation/receipt, maintenance, storage/preservation, protecting, scheduling, indexing, and dispositioning active and inactive records;

(ii) Retrieving records from on and offsite storage facilities; and

(iii) Supporting new and ongoing Freedom of Information Act (FOIA), Privacy Act, Energy Employees Occupational Illness Compensation Program Act (EEOICPA), Former Worker Medical Screening Program, CBDPP, congressional inquiries, litigation holds, and legal discovery requests to ensure that records in Electronic Information Systems can provide adequate and proper documentation for as long as the information is needed.
(2) Ensure records generated in the performance of the Contract containing personal information routinely retrieved by name or other personal identifier are classified and maintained in Privacy Act System of Records (SOR) in accordance with FAR 52.224-2, Privacy Act (Apr. 1984) and DOE O 206.1, Department of Energy Privacy Program;

(3) Preserve and disposition records in accordance with National Archives and Records Administration-approved records disposition schedules. (Note: Records retention standards are applicable for the classes of records described therein, whether the records are owned by the Government or the Contractor [DEAR 970.5204-3]); and


c) All records (see 44 USC 3301 for statutory definition of a record) acquired or generated by the Contractor in performance of this Contract, except for those defined as Contractor-owned (see Section I, DEAR 970.5204-3, Access to and Ownership of Records) and including, but not limited to, records from a predecessor contractor (if applicable) and records described by the Contract as being maintained in Privacy Act SORs shall be the property of the Government.

C.6.3.17.5.1 Electronic Records Management System

(a) The only certified Electronic Records Management System on the Hanford Site is the Integrated Document Management System (IDMS) based on the OpenText content server product, administered and maintained by HMESC.

(b) IDMS shall be used as the repository for electronic records unless a replacement system is implemented.

(c) The Contractor shall develop and implement a plan, subject to approval by DOE, to manage the Contractor’s records in IDMS.

C.6.3.17.5.2 Hanford Radiological Records Program

(a) The Hanford Radiological Records Program provides for the management and preservation of current and former radiation monitoring records for DOE (and predecessor agencies) employees, Hanford Site contractors, subcontractors, and visitors, including records of existing and past Hanford Site Radiation Dosimetry policies and practices, to demonstrate compliance with radiation exposure requirements.

(b) The Contractor shall utilize the HMESC Hanford Radiological Records Program (Section J, Attachment J-3, Hanford Site Services and Interface Requirements Matrix, service entitled, Radiological Site Services [RSS]).

C.6.3.17.6 Other Information Management J-3 Services

(a) The Contractor shall:

(1) Acquire services necessary for mission performance in accordance with the Hanford Site Services and Interface Requirements Matrix (Attachment J-3).

(2) Regarding software engineering and development, bring software development needs to the attention of the Governance Advisory Board as found in the Interface Requirements Matrix (Attachment J-3).
C.6.3.18 Contractor Assurance System

(a) The CAS covers the full scope of contractor operations and is applied to all operating and business functions, including systems for the protection of the worker, public, environment, property, business, and financial matters.

(b) The Contractor shall:

1. Develop and implement an effective CAS that complies with DOE O 226.1, Implementation of Department of Energy Oversight Policy.

2. Participate in the CAS Forum for the purposes of: development, approval and maintenance of the Site Wide Assurance Systems Approach Document for the purpose of identifying and describing approaches; benchmarking best practices; consolidating contractor feedback, and managing workflow configuration alignment among DOE, HMESC, and other participating prime contractors.

3. Develop and implement appropriate workflow applications using the HMESC-provided software.

4. Develop and submit an implementation plan to DOE that aligns CAS elements and implementing procedures with the Site Wide Assurance Systems Approach Document and, HMESC-provided software. Full implementation shall occur within 180 days of NTP.

C.6.4 Security and Emergency Services

The Contractor shall ensure the protection of DOE assets by implementing DOE and HMESC requirements for SAS, Emergency Services, and Emergency Operations.

C.6.4.1 Safeguards and Security Management

C.6.4.1.1 Safeguards and Security Program Management

(a) The Contractor shall coordinate and interface with HMESC and its subcontractors who provide SAS services (e.g., Hanford Site access control, security police officers, and vulnerability analysis).

(b) The Contractor shall perform the following SAS program management functions:

C.6.4.1.2 SAS Program Planning, Oversight, and Administration

(a) The Contractor shall identify and coordinate their SAS operational planning activities with HMESC operational planning activities on a Hanford Sitewide basis.

(b) The Contractor shall provide SAS technical, cost, and schedule performance information to HMESC.

C.6.4.1.3 Security Conditions

(a) The Contractor shall conform to and comply with the DOE security conditions system.

(b) The Contractor shall comply with any protective measure requirements that are implemented in the event of a crisis or emergency and/or in response to a malevolent or terrorist threat to any or all DOE facilities, assets, and personnel.

C.6.4.1.4 Site Safeguards and Security Plan and Other SAS Plans

The Contractor shall provide information to HMESC, which includes site-specific assets and security interests, in support of maintaining the Hanford Site Security Plan and other SAS plans. The Contractor shall comply with the Hanford Site Security Plan and other approved SAS Plans.
C.6.4.1.5 Vulnerability Assessments
The Contractor shall provide the necessary operational and technical expertise in support of the preparation of vulnerability assessments, security analyses, and special SAS studies and evaluations as identified by HMESC for the Hanford Site.

C.6.4.1.6 Design Basis Threat
The Contractor shall implement SAS actions, procedures, and/or processes as assigned by DOE that are necessary to comply with DOE design basis threat (DBT) requirements. Overall DBT implementation actions and/or plans shall be consolidated and prepared by HMESC and approved by DOE.

C.6.4.1.7 Performance Assurance
The Contractor shall provide information to HMESC to support preparation of the Hanford Sitewide Performance Assurance Program Plan as part of the Hanford Site Security Plan.

C.6.4.1.8 Surveys, Reviews, and Assessments
(a) The Contractor shall provide operational and technical expertise, when requested, to support SAS surveys, reviews, assessments, and/or SAS performance tests (e.g., force-on-force exercises) that are conducted by HMESC and/or DOE for SAS program elements.

(b) The Contractor shall conduct formal self-assessments at intervals consistent with risk management principles and/or as directed by the DOE cognizant security office.

(c) The Contractor shall identify, implement, and close corrective actions for CPCC deficiencies in accordance with the SAS corrective action management programs, and applicable DOE requirements. The Contractor shall coordinate with HMESC on the input of information into various SAS tracking databases for findings identified in self-assessments, DOE periodic SAS surveys, and by other outside sources in the SAS Program.

C.6.4.1.9 Facility Clearance and Registration
The Contractor shall submit all required information to HMESC for facility clearance and registration actions.

C.6.4.1.10 SAS Training
The Contractor shall identify SAS training needs for CPCC staff and shall arrange, fund, and schedule training in accordance with applicable requirements.

C.6.4.1.11 SAS Awareness
(a) The Contractor shall:

(1) Comply with the requirements of the Hanford Security Awareness Program.

(2) Maintain awareness of Hanford Sitewide security issues/topics and incorporate them into the Contractor’s internal practices and procedures, as appropriate.

(3) Implement supplementary SAS awareness activities and/or briefings (e.g., at staff and safety meetings across the Hanford Site) in coordination with Sitewide policies.

C.6.4.1.12 Classified Visits
The Contractor shall submit required information to HMESC for classified visits and comply with the requirements of the approved Site Security Plan managed by HMESC. The Contractor’s Classified Visits
procedures shall ensure that only persons with the appropriate access authorizations and need-to-know receive access to classified information or matter in connection with visits involving the release or exchange of classified information or matter.

**C.6.4.1.13 Equivalencies and Exemptions**

(a) The Contractor shall:

1. Identify, evaluate, and submit equivalencies and exemptions to SAS requirements to DOE.
2. Coordinate with HMESC prior to submitting equivalencies and exemptions to DOE. Equivalencies and exemptions requests shall be applicable and unique to the project/program scopes of work and submitted only when other means to meet requirements would not meet DOE SAS program objectives.

**C.6.4.1.14 Incidents of Security Concern**

(a) The Contractor shall:

1. Develop and implement procedures and processes consistent with DOE requirements for addressing incidents of security concern.
2. Provide information and facility access to HMESC for investigation of security incidents.
3. Develop and implement corrective actions.
4. Provide information to HMESC to support administration of the Hanford Site Security Infraction Program.

**C.6.4.2 Physical Security**

(a) The Contractor shall:

1. Comply with HMESC security plans and DOE security plans/requirements.
2. Support HMESC in developing or updating facility asset protection agreements for CPCC facilities, and conduct operations consistent with the agreements.
3. Submit through HMESC for DOE review and approval any SAS arrangements or changes prior to operations commencing, or changing operations, or configurations that might alter the performance of existing SAS systems (e.g., limited/protected area boundaries, physical security configurations and associated hardware [sensors/cameras], patrol coverage and responses, safeguards methods or boundaries, and entry/access control systems/procedures).
4. Be responsible for all facility security costs, including capital investments and maintenance, except for sensors or equipment that is a component of a security system (for example, a communication cable from a sensor to a central processing unit). HMESC is responsible for security system-specific costs.

**C.6.4.2.1 Protective Forces**

(a) HMESC provides Protective Forces (e.g., armed personnel, specialized equipment, and tactical procedures) to protect DOE assets, including people and property on the Hanford Site. HMESC is responsible for the protective force activities; however, many areas (e.g., information about the facility, reporting about events in the facility and access to the facility) of facility operations management that shall require cooperation and/or support from the Contractor.
(b) The Contractor shall:

(1) Support and integrate operational/business activities in conjunction with HMESC Protective Forces in use at the Hanford Site for the physical protection of SNM, classified materials, industrial assets, and mitigation and deterrence of radiological and toxicological sabotage events.

(2) Manage CPCC activities consistent with DOE-RL approved risk and vulnerability assessments, the Hanford Site Security Plan, and other security plans and facility asset protection requirements coordinated by HMESC that involve the use of Protective Forces.

C.6.4.2.2 Information Security

(a) The Contractor shall ensure that appropriate resources are applied and processes are developed to integrate and comply with the Hanford Site Security Plan and DOE requirements for the identification and protection of sensitive and classified information and matter. The scope shall include, but is not limited to, Classification, Classified Matter Protection and Control, Controlled Unclassified Information Management (e.g., Official Use Only [OUO]), Unclassified Controlled Nuclear Information (UCNI) and Operations Security (OPSEC).

(b) The Contractor shall ensure that all sensitive and classified information is protected and controlled commensurate with its classification level, category, and applicable caveats.

C.6.4.2.2.1 Operations Security

(a) The Contractor shall:

(1) Participate in and support Hanford Sitewide OPSEC Working and Awareness groups and perform the necessary management and support functions required for an effective OPSEC program.

(2) Provide support to HMESC OPSEC assessments of all Hanford Site facilities having Category I SNM and OPSEC reviews of all Hanford Site facilities that have the potential to process or store classified or controlled unclassified information.

(3) Support the annual Site OPSEC threat assessment and preparation of the annual OPSEC plan.

(4) Conduct website reviews for OPSEC purposes.

(5) Review information generated for this Contract for critical information.

(6) Assist HMESC and/or DOE in the development of indicators and countermeasures.

C.6.4.2.2.2 Classified Matter Protection and Control

(a) The Contractor shall:

(1) Develop and maintain a system of procedures, facilities, and equipment to identify, protect, and control classified matter that is being generated, received, transmitted, used, stored, reproduced, or destroyed in accordance with DOE directives.

(2) Be responsible for asset protection reviews for facilities that contain classified matter and, in conjunction with HMESC, maintain an updated list of security containers, locations, and custodians.

(3) Continuously reduce unneeded classified matter, and report and support investigation of any and all potential or actual compromise of classified information.
C.6.4.2.2.3 Classification and Unclassified Controlled Nuclear Information Program
(a) The Contractor shall:

(1) Nominate a sufficient number of Derivative Classifiers and Reviewing Officials to be trained and approved by HMESC.

(2) Have appropriate classification and/or UCNI topical guidance available to organizations that are potential generators of classified and/or UCNI information.

(3) Provide for receipt and storage of classified documents from HMESC Classified Document Control Center.

(4) Interface with HMESC and OHC management, as necessary, to inform employees of subject areas of a sensitive and/or potentially classified nature.

C.6.4.2.2.4 Controlled Unclassified Information
(a) The Contractor shall:

(1) Manage and implement a Controlled Unclassified Information Program, consistent with the common Hanford Sitewide OUO information program policies:

(2) Provide OUO education and awareness for all staff, and

(3) Review CPCC documents released to the public or assigned a formal document number for OUO content.

C.6.4.2.2.5 Critical Infrastructure
The Contractor shall maintain CPCC information systems that are critical to the Hanford Site mission and shall protect these systems from internal and external threats in conjunction with the HMESC SAS program.

C.6.4.3 Personnel Security
The Personnel Security function for Hanford involves processing requests for employee security clearances and non-cleared HSPD-12 credentials, enrollment and maintenance of employees in the Human Reliability Program (HRP), and foreign nationals for visits and assignments. HMESC manages and conducts a centralized Personnel Security program for the Hanford Site on behalf of DOE.

C.6.4.3.1 Badging and Access Authorization (Clearance) Processing
(a) The Contractor shall:

(1) Request and obtain personnel security clearances and badges, including “Special Access” from HMESC. The Contractor shall support HMESC in downgrading and terminating clearances, as required.

(2) Support HMESC processes for obtaining security badges, keys, proximity cards, etc. from terminating employees and removing such individuals from automated access control systems.

(3) Provide pre-employment/pre-clearance suitability investigations information to HMESC for CPCC prospective and current employees.
C.6.4.3.2 Human Reliability Program
(a) The Contractor shall:

(1) If needed, before proposing a position for HRP, perform analysis to validate the HRP requirements consistent with 10 CFR 712, Human Reliability Program.

(2) Submit a request to HMESC for enrollment in the Hanford Site HRP program for personnel occupying those positions.

(3) Support and/or provide personnel information, training, and administration needs to HMESC in the management of the HRP program for the Contractor’s enrolled HRP personnel.

(4) Take personnel actions, as necessary, based on HRP test results provided by HMESC.

C.6.4.3.3 Unclassified Foreign National Visits and Assignments
(a) The Contractor shall:

(1) Notify HMESC of potential foreign visitors or employees, and prepare and submit security plans to HMESC for foreign national visitors to the Hanford Site before approval of the visit/assignment.

(2) Require Foreign National Visits and Assignments (FNVA) training for Contractor personnel who host FNVAs.

(3) Conduct the FNVA in compliance with approved security plans.

(4) Submit a list of authorized delegates with authority to approve unclassified foreign visits and assignments.

C.6.4.3.4 Foreign Travel
The Contractor shall administer Official Foreign Travel in accordance with the most current Contract Requirements Document (CRD) for DOE O 551.1, Official Foreign Travel, including submittal of projections of potential foreign travel, and all official foreign travel request packages to DOE for review and subsequent submittal to DOE-HQ for approval in accordance with established timeframes, prior to any official foreign travel.

C.6.4.4 Nuclear Material Control and Accountability
(a) The Contractor shall maintain control and accountability of accountable nuclear material (i.e., Other, Source, and SNM) in various locations on the Hanford Site. Controls shall be appropriate for the nuclear material attractiveness and quantities as described in DOE requirements (e.g., Category IV highly radioactive SNF, to Category I quantities of plutonium in a variety of chemical forms and isotopic amounts). HMESC manages and conducts a centralized Material Control and Accountability (MC&A) program for the Hanford Site on behalf of DOE.

(b) The Contractor shall perform the following MC&A functions:

(1) Assign an individual that will serve as the Contractor’s MC&A single point-of-contact, independent of line operations, with responsibility and authority to affect implementation of MC&A requirements. This individual shall work with the Hanford Site MC&A Management Official within HMESC to provide oversight of accountable nuclear material in possession of the CPCC.
(2) Support HMESC in preparation and maintenance of a Hanford Sitewide MC&A Plan, administration of treaty related activities (e.g., International Atomic Energy Agency), performance of safeguards occurrence investigation and reporting, and scheduling of periodic inventories consistent with the Contractor’s project work schedules.

(3) Identify personnel requiring MC&A training provided by HMESC and coordinate training schedules with HMESC.

(4) Conduct on-the-job MC&A training specific to CPCC facilities and systems.

(5) Request the following from HMESC:
   (i) Final authorization to move, ship, process, or store nuclear materials, including approval of shipper/receiver plans;
   (ii) Final approval of Material Balance Area (MBA) custodians;
   (iii) Final determination of MBA categorizations; and
   (iv) Final approval of MC&A related implementing procedures.

(6) Respond to HMESC or DOE calls related to the MC&A program.

(c) The Contractor’s MC&A program shall include coordinating and integrating all aspects of implementation with HMESC. The Contractor shall use HMESC for, but not limited to:

   (1) MC&A requirement interpretation with overall responsibility for the MC&A program;
   (2) Training and qualification of all personnel performing MC&A functions (with the exception of specific facility/system on-the-job MC&A training);
   (3) Nuclear materials accounting and reporting requirements for all nuclear materials both active and inactive (e.g., “V-RIS”) and be responsible for the official nuclear material inventory, including discrepancy reconciliation;
   (4) Statistical services;
   (5) Purchasing, regulating, and managing MC&A-controlled forms and tamper indicating devices; and
   (6) Nuclear materials measurement system approvals and measurement system control requirements for all MC&A nuclear materials measurement activities (e.g., monitoring measurement control information, collecting and analyzing measurement control information, calculating control limits, and monitoring equipment performance against those limits).

(d) The Contractor shall integrate MC&A requirements with other plans, projects/programs, and activities at all lifecycle stages and inform HMESC of such. The Contractor shall proactively take into account MC&A requirements, systems, and technologies in the planning, design, construction, and operation of new or renovated DOE facilities and activities.

C.6.4.5 Telecommunications

The Contractor shall comply with Hanford Site procedures and policies regarding activities involving Communications Security, protected distribution systems, and TEMPEST/Transmission Security programs of Telecommunications Security.
C.6.4.6 Emergency Services

C.6.4.6.1 Fire Services

(a) HMESC manages and conducts fire services for the Hanford Site. This includes wild land fire, structural fire, and ambulance emergency response. Activities such as hazardous material and chemical/biological/radiological emergency response, pre-fire planning, Sitewide respiratory protection services, and testing and maintenance of life safety fire protection systems in designated facilities are also included.

(b) The Contractor shall support facility access to HMESC fire services personnel and notify the Hanford Fire Department of work activities, events, and incidents that may require Fire Services involvement and/or response (e.g., medical assistance, hazardous or radiological emergency help, etc.).

C.6.4.7 Emergency Operations

C.6.4.7.1 Emergency Management Program

(a) HMESC establishes and maintains a centralized Emergency Operations Program and the Hanford Sitewide Emergency Preparedness (EP) Program for the Hanford Site on behalf of DOE-RL. The EP Program is responsible for the Hanford Emergency Operations Center (EOC), develops and maintains emergency plans and procedures, performs hazard surveys and assessments, reviews hazard assessments for all facilities at the Hanford Site, and supports Hanford Sitewide EP training and drills.

(b) The Contractor shall develop and maintain an Emergency Management Program as described in DOE/RL-94-02, Rev. 6, Hanford Emergency Management Plan (or current version), for structures and waste sites under its control. The Contractor’s Emergency Management Program shall be consistent with DOE requirements and the centralized EP Program. The Contractor’s program shall establish processes and instructions for all Contractor EP activities. Because of the potential for the Contractor to become the event contractor as defined in the Hanford Emergency Management Plan, the Contractor shall maintain a 24 hours per day, 7 days per week capability to staff the required facility specific emergency response organization positions within 60 minutes of receipt of notification from the Occurrence Notification Center of a Hanford Site emergency.

C.6.5 Interactions

C.6.5.1 External Affairs

(a) The Contractor shall establish and maintain an External Affairs/Public Affairs program that provides timely responses to DOE requests for information and assistance, outreach to keep external constituencies informed about work under the Contract, an effective Hanford website, and integrated and effective Site tour planning.

(b) External Affairs includes information and involvement programs to reach diverse external parties interested in the Hanford Site (e.g., Tribal Nations, stakeholders, news media, elected officials and their staffs, local community officials, and the public) with the status, challenges, and objectives of the cleanup work.

(c) For external constituencies, the Contractor shall anticipate specific areas of concern, interest, or controversy and employ communication strategies that inform and ensure close coordination with DOE Communications personnel throughout. DOE retains the primary role in directing the timing, substance and form of public information and must approve products and outreach.
(d) The Contractor shall:

1. Submit an External Affairs/Internal Communications Program Description for DOE approval that provides a comprehensive description of the External Affairs Program, staffing, products, and services with an emphasis on innovative approaches to communications.

2. Submit responses to information requested by DOE in compliance with FOIA and Privacy Act requirements.

3. Develop, plan, and coordinate proactive approaches to dissemination of timely information regarding DOE unclassified activities, with an emphasis on innovative approaches to communications. The Contractor shall implement this responsibility through coordination with DOE in such a manner that the public, whether it is the media, citizens’ groups, private citizens or local, state or federal government officials, has a clear understanding of DOE activities at the Hanford Site.

4. Work with DOE to inform and involve the Tribal Nations as part of cleanup decision-making processes in accordance with the DOE American Indian and Alaska Native Tribal Government Policy and Implementation Guidance. Support and coordinate with DOE on the ongoing technical staff interactions to ensure that affected tribes can be involved early and often in proposed plans and activities.

5. Participate in and attend citizen advisory board activities in support of DOE and specific to scope of overall Contract work.

6. Provide strategy and resources for required public comment and outreach processes related to upcoming decision making (e.g., NEPA and CERCLA).

7. Participate in tour planning and preparation, and make facilities and personnel available as requested by DOE. Visits to the project sites shall be part of ongoing communication and outreach activities.

8. Provide HMESC with current information related to the Contract scope to maintain the external Hanford Site Website.

9. Provide ongoing support to DOE in the preparation of communication materials such as presentations, fact sheets, specialized graphics and charts, large posters, up-to-date photography, video and audio clips, and stories.

10. Coordinate internal employee communication products through DOE for review and approval if they are related to issues/incidents that have the potential to garner external media and stakeholder interest.

11. Receive DOE approval prior to externally releasing information related to the Hanford Site.

(e) These interfaces shall be in coordination with DOE: media, members of the U.S. Congress and their staffs, Tribal and community leaders, and a wide variety of stakeholders and local governments.

C.6.5.2 External Review and Support

(a) The Contractor shall provide support to DOE and HMESC in hosting the Defense Nuclear Facilities Safety Board, GAO, Office of Inspector General, and other Government and DOE oversight staff from auditing and assessing organizations, providing required presentations, preparing DOE
responses, responding to information requests, and by providing required Subject Matter Experts to respond to questions and information requests.

(b) The Contractor shall also support the following:

(1) Providing access to work areas, personnel, and information, as necessary; and

(2) In coordination with DOE audit liaisons, providing support during audits and assessments, including delivering information within a specified time, arranging briefings, preparing presentation materials, maintaining a record of documents provided in response to requests.

C.6.6 Hanford Site Interface Management

(a) The Contractor shall establish and maintain an interface management function in coordination with OHCs to collaborate and work cooperatively to improve mutual understanding and seek resolutions in the best interest of the Government and the Hanford Site mission.

(b) Interface Management is a key function for effective and efficient delivery of services between contractors on the Hanford Site. The role of Interface Management is to solve issues in the best interest of the Government at the lowest level possible in the respective organizations.

(c) The Contractor shall initially adopt existing interface agreements and then appropriately document, execute, and manage interfaces and agreements made with OHCs, DOE, and other site users in accordance with the Hanford Site Services and Interface Requirements Matrix (Attachment J-3), the Section H Clause entitled, Hanford Site Services and Interface Requirements Matrix, and other documented interfaces. Changes to those agreements, processes, and work schedules, as related to interface management, shall be executed per this PWS and Section H Clause entitled, Hanford Site Services and Interface Requirements Matrix.

(d) The Contractor shall:

(1) Participate in developing a Hanford Site Interface Governance Policy to be signed by all Hanford Site contractors. The policy shall:

   (i) Outline the interface management documents and business structure, including change control processes and hours supported by Section J, Attachment J-3 direct funded services; and

   (ii) Illustrate the different interface types and processes for managing the inter-contractor transactions, including Service Delivery Documents, Memorandums of Agreement, Administrative Interface Agreements, ICDs, and Waste Treatment Plant ICDs.

(2) Provide input to HMESC to support the development and maintenance of interface management processes and storage of the interface agreements.

(3) Provide input to HMESC to support the development of periodic updates to the Hanford Site Services and Interface Requirements Matrix (Attachment J-3), and concur on any changes to the matrix prior to HMESC submittal to DOE. HMESC is responsible for submitting the Interface Requirements Matrix to DOE.

(4) Participate in a review of the matrix, which shall be led by HMESC with cooperation and participation of the OHCs, within six months of completion of transition of the last contractor identified in the Hanford Site Services and Interface Requirements Matrix.
Proposed and agreed upon changes to the matrix shall be submitted by HMESC to DOE for incorporation into Hanford Site contracts.

(5) Participate in the Sitewide Contractor Leadership Council and Contractor Interface Board (CIB) to improve overall delivery of effective accomplishment of the Hanford Site mission. The council is comprised of Hanford Site Contractor Presidents, with participation from DOE Field Offices’ Representatives. Hanford Site contractors shall attempt to resolve interface issues through the CIB prior to escalating an issue to DOE.

C.6.7 Business Performance Requirements

The scope of this section includes activities such as Business Administration, Internal Audit, ECP, and other general performance requirements. 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 described in this section and have optimized these services through an integrated planning approach.

C.6.7.1 Business Administration

(a) The Contractor shall establish and maintain cost-effective internal business administration that enables good business decisions, sufficient resources to manage the Contract activities, and a cooperative and (as appropriate) collaborative working relationship with OHCs, stakeholders, and DOE.

(b) The Contractor shall provide the management expertise, leadership, and business administration processes (e.g., administration of market-based employee benefits, independent oversight, legal) and systems (e.g., Finance/Accounting, Contracts/Procurement, and Human Resources) to perform Contract Section C requirements safely, securely, efficiently, and in a cost-effective manner.

C.6.7.2 Internal Audit

(a) The Contractor shall establish and maintain an internal audit function that is fully compliant with applicable requirements.

(b) The Contractor shall:

(1) Provide internal audit activities in accordance with the Section I Clause DEAR 970.5232-3 Alternate 19 II, Accounts, Records, and Inspection.

(2) Conduct internal audits and examination of the records, operations, management systems and controls employed in programs and administrative areas, expenses, subcontractor costs and the transactions with respect to costs claimed to be allowable under this Contract, at least annually. Ensure the systems of controls employed by the Contractor are audited, documented, and satisfactory to the CO. Up to eight additional audits shall be conducted based on risk analysis, including input from DOE. The results of such audits, including the working papers, shall be submitted or made available to the DOE CO or a Contracting Officer’s Representative. The Contractor shall include this requirement in cost-reimbursement subcontracts (time and materials, labor hour, cost plus for non-fixed price contracts) with an estimated cost exceeding $5 million and expected to run for more than two years, and other cost-reimbursement subcontracts as determined by DOE.

(3) Provide annual Subcontract Audit plans for CO approval which lists planned audits to be performed. The Contractor shall perform internal audits consistent with unmodified Institute of
Internal Audit (IIA) and external audits consistent with unmodified Generally Accepted Government Auditing Standards (GAGAS)

(4) Provide annual Internal Audit plans for CO approval which lists planned audits to be performed. The Contractor shall perform internal audits consistent with IIA audit standards.

(5) Provide to the CO annually, or at other intervals as directed by the CO, copies of the reports reflecting the status of recommendations resulting from management audits performed by its internal audit activity and any other audit organization. This requirement may be satisfied in part by the reports required under paragraph (i) of 48 CFR 970.5232-3, Accounts, Records, and Inspection.

C.6.7.3 Employee Concerns Program

(a) The Contractor shall establish and maintain an ECP that effectively addresses, resolves, and prevents recurrence of employees’ concerns.

(b) In addition, the Contractor shall establish and maintain an ECP that complies with CRD O 442.1A entitled, Department of Energy Employee Concerns Program.

(c) The Contractor shall:

(1) Accept, for resolution, existing employee concerns unresolved at the close of the initial Contract transition period.

(2) Participate in the chartered Sitewide ECP committee.

(3) Assist DOE in the resolution of employee concerns in a manner that protects the health and safety of both employees and the public and ensures effective operation of DOE-related activities under their jurisdiction.

(4) Conduct an annual self-assessment to measure the effectiveness of the ECP and implement corrective actions, as necessary.

(5) Provide timely notification to DOE of significant staff concerns or allegations of retaliation or harassment.

C.6.7.4 Strategic Partnership Projects

(a) The Contractor shall establish and maintain a Strategic Partnership Projects (SPP) Program that leverages the resources and capabilities of the Contractor to the benefit of the Government.

(b) In addition, the Contractor shall:

(1) Perform work for non-DOE entities, including other U.S. Government agencies, on a fully reimbursable basis.

(2) Develop and submit to DOE for approval, an SPP Program prior to performance of SPP activities.

(3) Submit SPP proposals for DOE approval prior to making commitments.

C.6.7.5 Outgoing Contract Transition

(a) The Contractor shall ensure a smooth transition of work scope to OHCs to avoid disruptions that could impact accomplishing the Hanford Site mission.
(b) At the completion of the Contract, or portion(s) of the Contract, the Contractor shall cooperate with DOE and assist the incoming contractor(s) to facilitate an overall effective and seamless Contract transition.

C.7 Usage-Based Services to Be Provided to Other Hanford Contractors

The Contractor shall provide the services identified in the *Hanford Site Services and Interface Requirements Matrix* (Attachment J-3), Changes to the matrix shall be signed showing concurrence by the Contractor and OHCs.