

PART I – THE SCHEDULE

SECTION C

PERFORMANCE WORK STATEMENT

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C.0 Overview and Background

Background

The Department of Energy's (DOE) Office of Environmental Management (EM) Consolidated Business Center (EMCBC) supports the Under Secretary for Management & Performance in carrying out EM functions of reduction and cleanup of the environmental legacy of the Nation's nuclear weapons program and Government-sponsored nuclear energy research. The EM Program is the largest, most diverse, and technically complex environmental cleanup program in the world and includes responsibility for cleanup of 107 sites across the country. Included in that responsibility is the need to:

- Safely disposition nuclear waste and materials;
- Safeguard materials that could be used in nuclear weapons; and
- Deactivate and decommission several thousand contaminated facilities no longer needed to support the Department's mission and remediate extensive surface and groundwater contamination.

In response to Defense Nuclear Facilities Safety Board Recommendation 2004-1 dated October 2006, EM was reorganized to align the cleanup vision and mission and to ensure environment, safety, and health requirements and controls are integrated into Federal work activities, and within EM federal and contractor activities. In order to best assist the remaining site offices in fulfilling the EM cleanup mission and program objective, the EMCBC is seeking Deactivation, Decommissioning, and Removal (DD&R) services.

Purpose

The purpose of this procurement is to establish a contract vehicle DOE can use at sites nationwide to acquire timely, cost-effective, legally sound DD&R and associated support services from Small Businesses to further the government's mission toward reducing environmental liabilities. 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.

The EMCBC will procure the services described below by issuing performance-based Task Orders under this basic Indefinite-Delivery-Indefinite-Quantity (IDIQ) Contract. Performance-based contracting defines Contractor performance expectations in terms of outcomes or results rather than methods, processes, systems, or broad categories of work activity.

Each Task Order will include a detailed Performance Work Statement (PWS) describing the work to be accomplished. The Contractor shall accomplish the work described in the Task Order PWS, including providing deliverables, in a timely and professional manner that meets the needs of the DOE. The Contractor shall provide and manage skilled and qualified personnel and shall comply with all applicable training and qualification programs to perform the work described in the Task Order PWS.

Required services may also include programmatic and field support activities such as technical report writing, environmental compliance, transportation services, field sampling, radiological surveys, direct measurements, sample analyses, and preparation of related technical documents. Further technical support, such as verification, as well as health physics, surveys, and audit/assessment activities may be requested by the DOE.

The Contractor's performance will be monitored by the Contracting Officer (CO) and/or the designated Contracting Officer's Representative (COR) through regular status reports; meetings with Contractor personnel; and receipt, review and approval of deliverables or other reports identified in the Contractor in Task Orders issued under the Contract.

In performing the services, the Contractor may be required to cooperate and interface with other EM contractors. The extent of this cooperation and the parties involved, if any, will be described in detail in the individual Task Orders issued under this basic IDIQ Contract.

Location of Work

Work will be performed at the various DOE Sites. The place of performance will be specified in each individual Task Order. The various DOE locations include, but are not limited to, the EM Cleanup Sites page at <https://www.energy.gov/em/cleanup-sites>.

Note: PWS Sections in C.1, C.2, and C.3 provide a description of PWS areas that are included in the basic IDIQ Contract. Not all the PWS areas listed in C.1, C.2 and C.3 will be applicable to every Task Order. Each Task Order will identify the specific applicable PWS area(s) and may add further specific work requirements and deliverables.

C.1 Transition Activities/Task Order Implementation

The desired outcome is smooth Transition/Task Order Implementation of responsibilities for execution of the Contract and each Task Order maintains and avoids or minimizes disruptions to ongoing operations and/or accomplishment of the DOE mission.

The goal of the Transition/Implementation process is to ensure terms and conditions of the Contract and each Task Order are fully understood by the Contractor and the Contractor demonstrates readiness to assume responsibility seamlessly prior to assumption of responsibility for performance of the Task Order.

The objectives of Transition/Task Order Implementation are to complete a safe, effective, and efficient transfer of responsibility for execution of the Task Order with minimal disruption to ongoing operations. Transition requirements will be determined within each Task Order.

C.2 Program Support Services

The Contractor shall be responsible for documenting compliance with requirements described in agreements between DOE and federal and state regulatory agencies and DOE directives that contain Contractor Requirements Documents (CRD) as well as DOE directives that do not contain a CRD but include Contractor Requirements. The primary purpose of this section is to assist in describing specific responsibilities of the Contractor within performance of this

Contract. The following subsections address management systems and programs that may be applicable in implementing each Task Order to perform the EM mission safely and effectively. For each subsection, the Contractor may use current/existing contractor company-level programs, and/or consensus standards to develop Task Order-level implementing documents (deliverables), such as plans and reports if approved by the CO. The Contractor may adopt, as applicable, any DOE approved plans and implementing procedures, manuals, and associated training/qualification curriculum at the effective date of the transition, provided the Contractor has formally reviewed and accepted the documents to ensure compliance with contract requirements, current regulatory requirements, DOE directives, and the Contractors' organizational roles and responsibilities. Detailed information regarding specific requirements for each subsection will be provided in each Task Order as applicable.

NOTE: Directives are the Department of Energy's primary means of establishing policies, requirements, responsibilities, and procedures for Departmental elements and contractors.

NOTE: For this Contract, a management system is defined as a set of interrelated or interacting elements of an organization to establish policies and objectives, and processes to achieve those objectives.

C.2.1 Human Resources

The Contractor shall develop, implement, and administer compensation and benefit programs that will attract and retain competent, productive employees. These programs shall facilitate achievement of objectives and business strategies in support of DOE missions in a cost-effective manner in accordance with DOE O 350.1, *Contractor Human Resource Management Programs*.

C.2.2 COVID Safety Protocols

The Contractor shall develop safety protocols to ensure the continued operation of DOE sites and facilities under health and safety emergencies as designated by the President and implement Executive Order 14042, Ensuring Adequate COVID Safety Protocols for Federal Contractors in accordance with DOE O 350.5, *COVID Safety Protocols for Federal Contractors*.

C.2.3 Project Management

The Contractor shall ensure that project management practices are used in the performance of work including the development of project management plans, baselines, and disciplined change control processes. The Contractor shall ensure that project management practices are used in the performance of work including the development of project management plans, baselines, and disciplined change control processes. Project measurement and reporting for destruction and removal of physical facilities or systems (work performed under DD&R) shall be performed in accordance with DOE Order 413.3, *Program and Project Management for the Acquisition of Capital Assets*.

The Contractor shall develop and deploy technology-related activities required to optimize DOE-EM cleanup efforts in order to decrease life cycle costs and/or schedules. Technology Development and Deployment (TD&D) shall be performed in accordance with DOE Order 413.3, *Program and Project Management for the Acquisition of Capital Assets*.

C.2.3.1 Project Integration and Control and Earned Value Management

The Contractor shall comply with the requirements of the Section H Clause entitled, DOE-H-2024, *Earned Value Management System*, and, if required, have the EVMS evaluated against the EIA-748 standard by a qualified, independent, third party selected by the DOE Office of Project Management (DOE-PM).

C.2.3.2 Project Performance Reporting

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.2.3.3 Cost Estimating

The Contractor shall prepare cost estimates in accordance with the requirements in Section H Clause entitled, DOE-H-2023, *Cost Estimating System Requirements*, and Section H Clause entitled, *Task Ordering Procedure*, of this Contract.

C.2.3.4 Scheduling

The Contractor shall develop a schedule for each Task Order scope. The Contractor's schedule shall be resource loaded. The schedule shall include the proposed Task Order's scope of work identifying the logic ties and dependencies between already contracted Task Order scopes of work, if any, and the new Task Order work scope. The Contractor shall use project management software used for planning, scheduling, and managing DOE capital asset project work (Oracle Primavera P6 is the typical project software). If P6 is not used, scheduling software must be compatible or transferrable to P6 format.

C.2.3.5 Risk Management

The Contractor shall develop and/or implement risk planning (update the risk register and analysis for each subsequently awarded Task Order), identifying 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.

C.2.4 Environment, Safety, Health & Quality

The Contractor shall develop and integrate management systems and/or programs for the implementation of the multiple requirements bases for Environmental, Safety, Health, and Quality (ESH&Q) assessments activities within the scope and processes defined by the Contract and in accordance with 10 CFR 830, *Nuclear Safety Management*. Where appropriate, the Contractor shall use a graded approach to implement the requirements of this part, document the basis of the graded approach used, and submit that documentation to DOE. The graded approach may not be used in implementing the unreviewed safety question (USQ) process or in implementing technical safety requirements.

The Contractor shall establish and maintain a single Integrated Safety Management (ISM) program as required by 48 *CFR* 970.5223-1, *Integration of Environment, Safety and Health into Work Planning and Execution*.

The Contractor shall report all occupational safety and health information as required in DOE O 231.1, *Environment, Safety, and Health Reporting*. This reporting shall include electronic submission of injury and illness reports using the Computerized Accident/Incident Reporting System (CAIRS).

C.2.4.1 Worker Safety and Health Program

The Contractor shall develop (or adopt if Contractor determines an existing program meets requirements) and implement a Worker Safety and Health Program (WSHP) that complies with 10 *CFR* 851, *Worker Safety and Health Program*. The program shall include Industrial Hygiene.

C.2.4.1.1 Workplace Substance Abuse Program

The Contractor shall comply with the authorities and requirements for Workplace Substance Abuse Program (WSAP) in accordance with 10 *CFR* 707, *Workplace Substance Abuse Programs at DOE Sites* and 49 *CFR* 40, *Procedures for Transportation Workplace Drug and Alcohol Testing Programs*. The Contractor shall incorporate the WSAP into all subcontracts with personnel in testing-designated positions.

C.2.4.1.2 Safety Culture

The Contractor shall adopt and continuously improve organizational culture (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 in accordance with DOE O 442.1, *Department of Energy Employee Concerns Program* and DOE-H-2083, *Safety Culture*.

C.2.4.2 Radiation Protection Program

The Contractor shall develop and implement a Radiation Protection Program (RPP) to establish requirements to protect the public and environment against undue risk from radiation associated with radiological activities conducted under control of the DOE. The program shall comply with the requirements of 10 *CFR* 835, *Occupational Radiation Protection*, and include further requirements found in DOE O 458.1, *Radiation Protection of the Public and the Environment*. The Contractor shall take all actions necessary to preclude serious injuries and/or fatalities; keep worker radiation exposures and environmental releases As Low As Reasonably Achievable (ALARA) and below established limits; minimize the generation of waste; maintain or increase protection of the environment; and maintain or increase public and worker safety and health.

C.2.4.3 Nuclear Safety

The Contractor shall develop and/or implement a nuclear safety program that complies with the requirements of 10 *CFR* 830, *Nuclear Safety Management*, including Subpart A, *Quality Assurance Requirements*, (the Subpart A Quality Assurance shall be part of C.2.4.4) and Subpart

B, *Safety Basis Requirements*. The Contractor shall establish facility and programmatic safety requirements for nuclear safety design criteria; Fire protection; Criticality safety; Natural phenomena hazards (NPH) mitigation; and Cognizant system engineer (CSE) program in accordance with DOE O 420.1, *Facility Safety*. This includes requirements outlined in Attachments 2 and 3 of the Order. The Contractor shall develop and implement any applicable safety basis requirements like Documented Safety Analysis (DSA), Technical Safety Requirement (TSR), and Unreviewed Safety Question Process procedure.

C.2.4.4 Quality Assurance

The Contractor shall develop and implement a Quality Assurance (QA) program or management system to assign responsibilities and authorities, define policies and requirements, and provide for the performance and assessment of work.

The Contractor shall develop, implement, assess, and continuously improve the Quality Assurance Program (QAP) in accordance with DOE Order 414.1, *Quality Assurance*.

The Contractor shall submit a Quality Assurance Program (QAP) plan to DOE for review and annually submit a summary of the annual review of the QAP and, if necessary, a modified QAP to the DOE approval authority.

Contractor Assurance System

The Contractor shall develop and implement a Contractor Assurance System (CAS) Description as required by DOE O 226.1, *Implementation of DOE Oversight Policy*. The Contractor's CAS shall include development and implementation of an Issues Management System for the identification, assignment of significance category, and processing of quality or safety-related issues identified within the Contractor's organization in accordance with DOE O 414.1, *Quality Assurance*. All issues are to be tracked in one combined location and disseminated to DOE upon request.

Occurrence Reporting and Processing System

The Contractor shall review and categorize identified issues as required by DOE O 232.2, *Occurrence Reporting and Processing of Operations Information*. The Contractor shall prepare Occurrence Reporting and Processing System (ORPS) reports when appropriate and perform subsequent follow-up actions to address the reported issues as necessary in accordance with these requirements. The ORPS reports shall be submitted per occurrence to the DOE ORPS.

C.2.4.5 Conduct of Operations

The Contractor shall establish and implement a Conduct of Operations (CONOPS) Program in accordance with DOE O 422.1, *Conduct of Operations*. The CONOPS program shall consist of formal documentation, practices, and actions implementing disciplined and structured operations that support mission success and promote worker, public, and environmental protection.

C.2.4.6 Environmental Regulatory Management

The Contractor shall support DOE when preparing necessary documentation responding to regulatory issues and cooperate and coordinate when requested by DOE during enforcement

actions including tracking, trending, and evaluating actions, coordinating, and integrating responses and resolving compliance issues. The Contractor shall interface with other contractors in providing legally and/or contractually mandated air, liquid effluent, and other media environmental monitoring data; collect, compile, and/or integrate air and liquid effluent monitoring data from facilities assigned; and submit an Environmental Management System (EMS) internal audit compliant with DOE O 436.1, *Departmental Sustainability*.

C.2.4.7 Property Management

The Contractor shall support DOE maintenance for all real and personal property assets at the site in accordance with DOE O 430.1, *Real Property Asset Management*. The requirements of this DOE Order do not automatically apply to contractors. Any application of real property asset management requirements to contractors must be communicated separately from this DOE Order. The DOE has established the Facilities Information Management System (FIMS) as the reporting system for all DOE real property facilities, including land. The Contractor shall contact the DOE FIMS administrator at the EMCBC to become a registered user of the system.

The Contractor shall submit to DOE an annual Fire Protection Summary Information in accordance with DOE O 231.1, *Environment, Safety, and Health Reporting*.

C.2.4.8 Records

The Contractor shall serve as the Record Custodian for Federal records (regardless of media) generated/received by the Contractor, including all contractors/subcontractors. All records shall be managed in electronic format (born digital) to the fullest extent possible. If there are historical records obtained from a predecessor contractor, these must also be managed in electronic format (digitized) in accordance with NARA requirements and approved by DOE. All records shall be managed in accordance with 44 U.S.C., Chapters 21, 29, 31, 33 and 35; 36 CFR Chapter XII, Subchapter B, *Records Management*; DOE Order 243.1, *Records Management Program*, National Archives and Records Administration (NARA) requirements and bulletins and any other DOE requirements as directed by the CO.

If any work in this PWS is subcontracted, all applicable records management requirements, ownership, and privacy act clauses must be incorporated. The Contractor shall develop and/or adopt existing requirements and responsibilities for creating and preserving records containing adequate and proper documentation of the organization, functions, policies, decisions, procedures, and essential transactions of the DOE and to provide information necessary to protect the legal and financial rights of the Government and persons directly affected by DOE activities.

The Contractor shall develop and implement records management controls to ensure that the identification, maintenance, and disposition of all records, including email, are managed utilizing an Electronic Records Management System (ERMS) that meets the requirements of NARA's Universal Electronic Records Management (UERMS) requirements. The preferred ERMS is SharePoint with M365 in which DOE can provide a playbook; use of another ERMS requires documentation on meeting UERM requirements.

The Contractor shall be responsible for all records management and document control activities, including, but not limited to: tasks associated with creation/receipt, maintenance, storage/preservation, protecting, scheduling, indexing and dispositioning active and inactive records (including e-mails); managing classified records (if applicable), Controlled Unclassified Information (CUI), Unclassified Controlled Nuclear Information (UCNI); providing all employees and subcontractors with records management training; retrieving of records; supporting records management data calls from NARA and DOE; and supporting ongoing Freedom of Information Act (FOIA), Privacy Act, Energy Employees Occupational Illness Compensation Program (EEOICPA), the former worker medical screening program, the Chronic Beryllium Disease Prevention Program, congressional inquiries, legal discoveries and other record requests.

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 System of Records (SOR) shall be the property of the Government.

C.2.5 Safeguards and Security

The Contractor shall administer the Safeguards and Security (S&S) Program in accordance with the Department of Energy (DOE) directives, and site-specific S&S Security Plans and procedures approved by the Office of Environment Management (EM) Officially Designated Federal Security Authority (ODFSA).

The objectives of the Contractor S&S program shall be to incorporate a risk-based approach to protect assets and activities against the consequences of attempted theft, diversion, terrorist attack, industrial sabotage, radiological sabotage, chemical sabotage, biological sabotage, espionage, unauthorized access, compromise, and other acts that may have an adverse impact on national security, the environment, or pose significant danger to the health and safety of DOE Federal and contractor employees or the public, in accordance the DOE Design Basis Threat (DBT).

To meet these objectives, the Contractor shall ensure that sufficient personnel are appointed/assigned to implement the following S&S topic areas, consistent with applicable DOE directives and requirements:

- S&S Program Planning
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - ODFSA approved S&S plans and procedures,
 - Security conditions (SECON) program,

- Performance assurance program, and
 - Survey, review and self-assessment program.
-
- S&S Program Management Operations
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - Foreign ownership, control, or influence (FOCI) program,
 - Facility clearance and registration of S&S activities,
 - S&S awareness training program,
 - Control of classified visits program,
 - S&S training program,
 - Restrictions on the transfer of security funded technologies program, and
 - Process for requesting exemptions and equivalencies for S&S programs.
 - Protective Force (ProForce) Operations
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - Management,
 - Training,
 - Duties,
 - Weapons and munitions,
 - Facilities and equipment, and
 - Performance testing.
 - Physical Protection
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - Physical protection planning,
 - Security areas,
 - Prohibited and controlled articles,
 - Posting notices,
 - Security locks and keys,
 - Barriers,
 - Secure storage,
 - Entry and exit screening, and
 - DOE security and local site-specific badge program.
 - Information Security and Classification
 - The Contractor shall deliver for approval a written integration plan to the ODFSAs Federal Classification Officer that incorporates how the Contractor will comply with Information Security and Classification requirements, that include:

- General requirements, handling and protection, marking, accountability, classified information in use, storage, reproduction, transmission and receipt, and destruction;
- Ensuring foreign government information is protected;
- Release or disclosure of US classified information to foreign governments;
- Disclosure and release in emergency situations; and
- Operations Security programs to ensure protection of critical information.
- The Contractor shall ensure a contractor classification officer is designated to administer the classification program and monitor classifications programs under its cognizance.
- Controlled Unclassified Information (CUI)
 - The Contractor shall deliver for approval a written integration plan to the Federal CUI liaison that incorporates how the Contractor will comply with:
 - CUI applicability,
 - Identification,
 - Marking,
 - Communication,
 - Safeguarding,
 - Training,
 - Access and sharing,
 - Dissemination,
 - Decontrol,
 - Destruction,
 - Equivalency and exemptions, and
 - Misuse.
- Personnel Security (PerSec)
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - Cleared and unclassified issuance of Homeland Security Presidential Directive (HSPD) 12 badges,
 - Access authorizations,
 - Human reliability,
 - Control of classified visits, and
 - S&S awareness training program.
- Foreign Visits and Assignments (FVA&A)
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - Sponsor program management and administration,
 - Counterintelligence requirements,

- Export controls and technology transfer,
 - Security plan requirements, and
 - Approval, periodic assessments, and reporting.
- Materials Control and Accountability (MC&A)
 - The Contractor shall deliver for approval a written integration plan to the ODFSA that incorporates how the Contractor will comply with:
 - Program management,
 - Material accounting,
 - Material control,
 - Measurement, and
 - Physical Inventory.

The Contractor shall ensure that all S&S personnel appointed/assigned to perform the duties listed above have appropriate access authorization, requisite knowledge, experience, qualifications, required equipment, and information technology resources. The Contractors shall ensure these personnel are not assigned other tasks that have the potential to impact the performance of their S&S duties.

The Contractor shall ensure that interfaces and necessary interactions between S&S programs and other disciplines such as other site contractor(s), off-site response, safety, emergency management, classification, counterintelligence, facility operations, cyber operations, and business and budget operations including property management are clearly identified, defined, documented, and approved.

For work under a Task Order requiring DOE access authorization (DOE L or Q clearance) the Contractor will need to obtain a positive Foreign Ownership, Control, or Influence (FOCI) determination and be able to obtain a facility clearance. The specific work requiring a DOE access authorization will be defined at the Task Order level.

C.2.6 Nuclear Material Control and Accountability (NMC&A)

The Contractor shall:

- (1) Maintain control and accountability of accountable nuclear material (i.e., Other, Source, and SNM). 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).
- (2) If applicable, 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 appropriate site official to provide oversight of accountable nuclear material in possession.

C.2.7 Telecommunications

The Contractor shall:

- (1) Comply with site procedures and policies regarding activities involving Communications Security, protected distribution systems, and TEMPEST/Transmission Security programs of Telecommunications Security.
- (2) Provide telecommunication capability (including voice and data communication capabilities) and radio communication systems.

C.2.8 Emergency Services & Operations

The Contractor shall develop, manage, and maintain a Comprehensive Emergency Management System for structures and waste sites under its control, in accordance with DOE O 151.1, *Comprehensive Emergency Management System*. The Contractor's Emergency Management system shall be consistent with DOE requirements and any centralized site or regional emergency program. The Contractor shall develop, manage, and maintain the Continuity of Operations (COOP) Program in accordance with DOE O 150.1, *Continuity Programs*. The Contractor's program may integrate with, or be an addendum to, established site COOP plans.

C.3 Environmental Monitoring, Remediation, Deactivation, Decommissioning, and Removal (DD&R) of Facilities and Waste Management

The Contractor shall operate in accordance with permits and licenses, and all appropriate federal, state, and local laws and regulations. Task Orders issued under this Contract will meet specific criteria for the DOE obligations and liabilities for the site. The individual Task Orders will address the acceptance criteria and desired outcome. The Contractor may perform facility and soil characterization, DD&R, and environmental remediation services; complete all activities in accordance with all actions and requirements contained in regulatory and supporting documentation applicable to each Task Order; and complete and document all final remedial actions and other disposition actions, as required, to close and support outgoing (real property) transition.

The following sections define the activities that may be applicable in implementing each Task Order and the services that may be required to be performed in any combination or separately in each individual Task Order. Specifically, tasks may include but not be limited to the following:

- (a) Initial site inspection and assessments;
- (b) In-situ and/or real-time soil characterization;
- (c) Remediation of a specific site or area including remediation of soils and associated site restoration;
- (d) Regulatory report writing; and
- (e) Data reduction, interpretation, and presentation, statistical analysis, and geographic information systems.

The Contractor shall assist DOE in preparing the Annual Site Environmental Report (ASER) as required by DOE O 231.1, *Environmental, Safety and Health Reporting*.

C.3.1 Environmental Monitoring

The Contractor shall develop and implement surface water monitoring according to the EPA National Pollutant Discharge Elimination System (NPDES), and within site permits for monitoring storm water runoff, treated groundwater and fire suppression water meet the applicable requirements in the Clean Water Act (CWA) and environmental regulations. The Contractor shall maintain NPDES Permits used to regulate discharge of storm water runoff from collection sites and outfalls which may be pumped to a storage and/or treatment center. Detailed monitoring results are provided in NPDES discharge monitoring reports.

C.3.2 Air Monitoring

The Contractor shall perform air filter screening for development of the annual EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) report.

The Contractor shall develop and implement a Field Sampling Plan (FSP) that describes the following: site background and environmental setting, regional and site hydrogeology, sampling objectives, rationale for sampling and analysis, pre-sampling activities, sample collection, analytes and analytical methods, and guidance for all fieldwork describing, in detail, sampling and data gathering methods.

Monitoring procedures should be conducted using a water quality sampling and analysis plan (WQSAP) that has been approved by the CO. The WQSAP must address the physical process of obtaining field information, measurements, and environmental samples.

The Contractor shall integrate the FSP into the Quality Assurance Program (QAP) plan as an addendum to describe the quality assurance and quality control (QA/QC) protocols necessary to achieve the objectives dictated by the intended use of the data. Control protocols include the procedures for sample collection, preservation, chain-of-custody, and transport, calibration and maintenance of instruments, processing verification, storage, and reporting of data, and other relevant QA/QC procedures required to maintain precision and accuracy of the data.

C.3.3 Soil Remediation Program

Soil and Water Remediation includes waste regulated under the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This also includes remediation, if warranted, of groundwater and surface water. Non-nuclear facility demolition and disposal (D&D) may also be included under this heading.

- (a) The Contractor shall develop and implement a management system and/or program that characterizes data for facilities, equipment, and soils to demonstrate compliance with the associated regulatory requirement(s) for waste disposition or release.
- (b) As part of the due diligence described in Transition /Task Order Implementation Activities, Section C.1.2(i), the Contractor shall complete a review of the existing characterization data

and other relevant documents to determine if the methods and characterization data related to radioactive and chemical materials remaining within the facility and/or soils support safe and compliant DD&R and excavation activities, including waste disposition. Based on the due diligence, the Contractor shall document whether the characterization data provided is sufficient in the Material Differences and Pre-existing Conditions. If not sufficient, the Contractor shall prepare and submit a GAP Analysis report with associated recommendations.

- (c) The Contractor shall develop Data Quality Objectives (DQO) and develop a Characterization Plan for DOE approval. The Contractor shall consider the type of contamination (i.e., Technetium-99, fissile, uranium, and other contaminants), the use of existing data sets (Owner operational history and data, NDA data, historical sampling), and appropriate points of reference (similar data sets associated with systems at other DOE sites). The Contractor shall optimize and limit the characterization requirements with respect to cost of characterization to that necessary to support safe and compliant DD&R and soil excavation activities, including waste disposition.
- (d) The Contractor shall perform facility characterization, including characterization of process equipment.
- (e) The Contractor shall perform soil characterization.

C.3.4 DD&R of Facilities

The Contractor shall develop and implement a project management system and/or program for the destruction and removal of physical facilities, systems, equipment and the demolition of above grade and below-grade structures associated with the facility and ancillary support systems as identified in each Task Order.

The Contractor may perform DD&R of facilities including but not limited to those classified as Nuclear Hazard Category 3, 2, and 1, including associated safety systems; or reactor facilities, whether fueled or defueled; and complex facilities containing hazardous, chemicals and materials including, but not limited to, asbestos, lead, PCBs, elemental mercury, and beryllium, and non-hazardous materials and waste. Sites and facilities may be contaminated with radioactive, hazardous, and/or chemical substances, fissile and/or fissionable materials and the levels of contamination may vary. Radiological constituents may include, but are not limited to mixed fission products, activation products (e.g., cobalt-60), plutonium, americium, uranium, depleted uranium, radioactive sources, residual radioactive material (e.g., mill tailings), tritium.

The Contractor may perform ancillary services such as design, construction, operation, surveillance, and maintenance activities, and/or training (DOE, Contractor, and visitor personnel) which may be required to accomplish the performance of the Task Order. The services may be required to be performed in any combination or separately in each individual Task Order.

C.3.5 Waste Management and Removal

The desired outcome is for the Contractor to develop and implement a Waste Management Program for the management of DOE sanitary, high-level, transuranic (TRU), low-level waste

(LLW), and the radioactive component of mixed waste. The services may be required to be performed in any combination or separately in each individual Task Order.

The desired outcome is a Waste Management Program which includes activities required to manage and dispose of waste associated with or generated by cleanup of the contaminated sites and facilities.

Specifically, tasks may include but not be limited to the following:

- (a) Develop, implement, and maintain a Waste Management Program;
- (b) Manage, characterize, store, process, treat, and package waste;
- (c) Transport and dispose of waste including final characterization, certification, and permitting;
- (d) Perform characterization, certification, permitting, storage, treatment, and necessary logistical support to store, transport (on-site) and/or ship (off-site), and/or dispose of radiological, chemical and other hazardous waste, mixed waste (radioactive and hazardous), or other waste types;
- (e) Implement any information regarding specific waste types, preferred treatment and disposal paths which may be available, contracts which may be available for treatment and disposal services, and existing permits and other requirements, e.g., Receiver Site Waste Acceptance Criteria (WAC);
- (f) Identify and implement a treatment process to effectively stabilize the waste and allow for its safe storage and eventual disposal. The services are presented in the following manner for clarity purposes due to the differences in the regulatory framework applicable to the differing types of services;
- (g) Ensure compliance with waste acceptance criteria for designated waste management facilities and complete disposition activities in accordance with all actions and requirements contained in regulatory and supporting documentation applicable to each facility and/or waste site; and
- (h) Complete and document all final remedial actions and other disposition actions, as required, to close and support outgoing transition.

The Contractor's waste management program shall be developed in accordance with DOE O 458.1, *Radiation Protection of the Public and the Environment*, and DOE O 435.1, *Radioactive Waste Management*, CRD which requires use of DOE M 435.1-1, *Radioactive Waste Management Manual*, to develop, implement and maintain a Radioactive Waste Management Program if applicable. Where a sitewide Radioactive Waste Support program currently exists, the Contractor will participate in reporting, updating and/or providing information to the CO when requested.

C.3.5.1 Non-radioactive (Sanitary) Waste

The Contractor shall adopt site requirements for management of Sanitary Waste (SW). SW includes both non-radioactive and municipal wastes (office waste, food, garbage, refuse and

other solid wastes that are similar to those generated by most households) and typical industrial wastes (construction debris, scrap metals, wood waste, etc.).

C.3.5.2 Radioactive Waste

The Contractor's Waste Management Program shall address receipt, treatment, storage, and disposal of legacy and newly generated low-level waste (LLW) mixed low-level waste (MLLW), transuranic (TRU) waste, and hazardous waste in accordance with DOE O 460.1, *Hazardous Materials Packaging and Transportation Safety*.