

ADVANCED MIXED WASTE TREATMENT PROJECT
STATEMENT OF WORK

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SECTION C
STATEMENT OF WORK
FOR THE
ADVANCED MIXED WASTE TREATMENT PROJECT (AMWTP)

C.1 CONTRACT PURPOSE AND END STATE VISION

The purpose of this contract is to process and dispose of the Transuranic (TRU) waste and Mixed Low-Level Waste (MLLW) at the Idaho National Laboratory (INL) Site's Transuranic Storage Area (TSA) while maintaining an operational facility through no later than September 30, 2016. The volume of waste that remains to be processed under this contract is what remains of the original 65,000 m³ of "stored" waste (defined in Section B.4(c)). This is primarily to ensure compliance with the 1995 Idaho Settlement Agreement and the INL Site Treatment Plan regarding treating the waste and removing it from the state of Idaho. The Advanced Mixed Waste Treatment Project (AMWTP) Contractor is referred to as "the Contractor" or the "AMWTP Contractor." The Contractor has the responsibility for total performance under the contract, including determining the specific methods for accomplishing the work to assure its safe and compliant completion. Although the AMWTP facility was constructed for AMWTP waste, the Department of Energy (DOE) is utilizing the AMWTP facility for processing other waste. Therefore, the Contractor may also be required to perform additional work within the scope of this contract as described in Section C.11, and as directed by the Contracting Officer.

Apart from the AMWTP, there are two major contractors at the INL site. The Idaho Cleanup Project (ICP) contractor is responsible for the majority of Environmental Management (EM)-funded cleanup work at the INL site, including demolition and closure of out-of-service facilities. The INL contractor is responsible for managing the efforts of the national laboratory, including landlord functions. Successful completion of this AMWTP contract statement of work will require close coordination with these two contractors.

C.2 CONTRACTOR PERFORMANCE

The Contractor shall furnish all personnel (trained and qualified), facilities, equipment, material, services and supplies except as set forth in this contract to be furnished by DOE (Exhibit C.2 and Section J, Attachment H), and otherwise do all things necessary to accomplish work in a safe and efficient manner.

The Contractor shall be responsible for providing oversight and project management functions to enable the safe and compliant completion of this Statement of Work (SOW). The Contractor shall be responsible for planning and executing the programs, projects, operations and other activities as described in this SOW. Additionally, the Contractor

shall develop, implement, and maintain a resource-loaded integrated baseline as described in Section H.1, Project Control Systems and Reporting Requirements.

The project will require the Contractor to successfully identify, analyze, resolve, mitigate, eliminate, or avoid many types of risk. Risks to the worker, the public, and the environment are managed through the Integrated Safety Management System (ISMS), the Environmental Safety and Health Program (ES&H), and the Worker Safety and Health Plan required by 10 CFR Part 851. Risk to the project schedule and cost is classified as programmatic or project risk and shall be managed through the Programmatic Risk Management process specified in DOE Order 413.3B. The Contractor shall address programmatic risks and uncertainties in accordance with Section H.2, Programmatic Risks and Uncertainties.

C.3 DESCRIPTION OF WASTE

The wastes include DOE laboratory and processing wastes from Rocky Flats and various DOE facilities. These wastes are stored in drums, boxes, and bins at the INL Site's TSA. Exhibit C.1 is a diagram of the AMWTP facilities at the INL Site's Radioactive Waste Management Complex (RWMC). Exhibit C.2 briefly describes each building and structure. The wastes may consist of, but may not be limited to, mixtures of various solid materials, including paper, cloth, plastic, rubber, glass, graphite, bricks, concrete, metals, nitrate salts, process sludge, miscellaneous components, and some absorbed liquids.

The majority of the AMWTP waste contains both Resource Conservation and Recovery Act (RCRA) constituents and radioactive constituents, and is therefore mixed TRU and MLLW. Some waste may also contain Toxic Substances Control Act (TSCA) regulated materials such as polychlorinated biphenyls (PCBs) and asbestos.

The Contractor shall process and package the remaining waste into an acceptable waste form for disposal, either at the Waste Isolation Pilot Project (WIPP) or an offsite MLLW treatment/disposal facility. The historical representation of the waste is not a declaration of a particular category of waste (i.e., TRU or MLLW) for disposal purposes. Declaration of a container's waste category (i.e., TRU or MLLW) is based on certification for transportation of the final disposal container.

C.3.1 REMOTE-HANDLED WASTE

A portion of the AMWTP stored waste may contain sufficient radioactivity to be classified as remote-handled waste (i.e., greater than 200 millirem per hour (mR/hr) on contact). These waste types include, but may not be limited to:

- Remote-Handled (RH) TRU waste; and
- "Suspect" RH-TRU (waste currently managed as contact-handled (CH) TRU, but containing lead shielding inside its storage container to limit the surface dose rate to less than 200 mR/hr).

For TRU waste that cannot be classified as CH waste, the Contractor shall transfer RH-TRU waste to the ICP contractor.

The Contractor shall reach an agreement with the ICP contractor concerning the characterization, and the method and timing for transferring/processing (this includes transporting the waste to or from ICP) RH-TRU waste. If the ICP contractor determines that some of the RH-TRU waste that it is responsible for can be reclassified as CH-TRU, it will be sent to the AMWTP Contractor, and the AMWTP Contractor shall complete the required actions for shipment and disposal or certification as appropriate. Waste container transfers shall be documented, tracked, and reported to DOE by individual container identification numbers.

C.3.2 SPECIAL REQUIREMENTS WASTES

A portion of the waste has special requirements. The Contractor shall process these wastes expected to be encountered during the contract period, including disposal at an appropriate disposal facility as identified by the Contractor. These wastes include, but may not be limited to:

- non-defense TRU waste
- high fissile gram equivalent (FGE) TRU waste
- oversized boxes and items
- overweight drums and boxes

C.3.2.1 NON-DEFENSE CH TRU WASTE

This waste currently has no path for disposal at the WIPP, because WIPP can only accept defense-generated TRU waste. Its volume is estimated at 43 m³. Addressed under C.9.

C.3.2.2 HIGH FGE WASTE

This waste contains more than 800 FGE in a single container and cannot be brought into the treatment facility for processing under facility criticality working requirements.

C.3.2.3 OVERSIZED BOXES AND ITEMS

This waste is contained in boxes with dimensions greater than the 5 ft x 6.5 ft x 8 ft box size. The treatment facility cannot currently process oversized boxes and items.

C.3.2.4 OVERWEIGHT DRUMS OR BOXES

This waste includes drums with a gross weight in excess of 1,000 lbs and boxes with a gross weight in excess of 10,000 lbs, which is greater

than what the treatment facility can currently accept. The Contractor shall be prepared to manage and disposition this waste. Facility improvements must be made in a priority fashion early in the contract period to establish the ability to manage this waste.

C.3.3 PROCESS-GENERATED AND OTHER WASTES

In addition to the waste identified in the sections above, the Contractor shall treat, as necessary, and dispose of process-generated waste and other wastes encountered during AMWTP operations in accordance with time-frames specified in the Site Treatment Plan, DOE Order 435.1, or any other relevant regulations or regulatory requirements. Process-generated waste is newly generated as a result of waste processing, maintenance operations, or equipment change out. Examples of process-generated wastes include, but are not limited to, shredder boxes, empty cargo containers, cleaning solvents used during maintenance, rags, contaminated clothing, and failed equipment parts. Other wastes encountered during AMWTP operations include, but are not limited to, contaminated soil, contaminated plywood, and plastic. The Contractor shall disposition all MLLW/LLW process-generated waste created from August 1, 2015 through January 31, 2016 by March 31, 2016; and waste generated from February 1, 2016 through July 31, 2016 by September 30, 2016. This excludes waste generated during Treatment Facility infrastructure upgrade activities.

C.4 WASTE PROCESSING ACTIVITIES

The Contractor shall process waste by retrieving it from the Radioactive Waste Management Complex (RWMC) Transuranic Storage Area-Retrieval Enclosure (TSA-RE) and storage modules; transporting the waste between various AMWTP and ICP facilities; performing characterization of the waste necessary for storage and/or treatment; storing the waste at the various stages of processing; performing treatment (as necessary); certifying the final waste form; preparing the waste for shipment; loading TRUPACT-II containers or other approved containers depending on ultimate waste type; loading containers on approved transport carriers; coordinating the shipment of waste to WIPP (once operations resume) or other appropriate disposal facility; and, as necessary, supporting audits/surveillances performed by the Carlsbad Field Office (CBFO), regulators, or other disposal facilities. Once WIPP operations resume, transportation of TRU waste to WIPP is the responsibility of CBFO. The Contractor shall treat TRU waste, as necessary, to meet the requirements of the most current version of the WIPP WAC, and other most current versions of WIPP-related documents (see <http://www.wipp.energy.gov>).

Transportation of MLLW to treatment and disposal facilities is the responsibility of the Contractor. The Contractor shall comply with the applicable waste acceptance criteria for MLLW dispositioned via offsite treatment and disposal facilities.

The Contractor shall maintain controls to confirm traceability of waste packages transferred either onsite or offsite. The Contractor shall implement a waste minimization and pollution prevention program consistent with applicable Executive Orders and DOE Directives. The Contractor shall use all means practicable to minimize or eliminate any newly generated wastes. These wastes, including process-generated wastes, shall not be generated unless it is necessary for the performance of the SOW.

Specific activities supporting waste processing are included in the following sections.

C.4.1 RETRIEVAL

The Contractor shall retrieve stored waste (boxes, bins, and drums) from the earthen covered berms located within the TSA-RE, and the RCRA storage modules. A portion of these containers are breached, damaged, degraded, or of questionable structural integrity. The Contractor shall take appropriate measures to manage these containers safely and effectively to minimize the spread of radioactive contamination and hazardous materials, and exposure to workers. The Contractor shall disposition the soil cover removed from the bermed waste as CERCLA waste at the ICDF or at a RCRA MLLW disposal facilities as appropriate.

The Contractor shall complete the following retrieval scope activities prior to the end of Fiscal Year 2016:

- Complete the retrieval of all remaining waste from Pad 1 Cell 1 of the TSA-RE, including the removal of all soils from the east and west berms not required to maintain RCE integrity.
- Complete the unloading of 35 of 105 cargo containers by December 31, 2015, and complete the unloading of at least 90 of 105 cargo containers by September 30, 2016.
- Transfer all empty cargo containers and all retrieval soils generated up to 60 days prior to the end of the contract to ICDF. ICDF operations and support will be a GFSI.

C.4.2 CHARACTERIZATION

The Contractor shall perform characterization as needed for storage, treatment, transportation, and disposal of the waste identified in Section C.3. Characterization may include, but is not limited to, radiological examination, radiographical examination, head-space gas analysis, structural integrity, or any other methodology acceptable to DOE. The Contractor shall ensure that the waste meets all requirements for acceptance at the appropriate on-site or off-site treatment and/or disposal facility, including any applicable certification requirements.

The Contractor shall complete all activities required to transfer the certification authority for all ICP CH-TRU waste within its control from Central Characterization Project (CCP) to AMWTP prior to December 31, 2015. This includes activities necessary to ensure uninterrupted ICP CH-TRU services during the CCP to AMWTP scope transition.

The Contractor shall provide all waste handling and storage for ICP CH-TRU waste from the time that it is transferred to AMWTP until it is dispositioned to WIPP. The Contractor shall provide all waste characterization and certification services to the ICP contractor, including visual examination activities performed in the Accelerated Retrieval Project units. Once WIPP operations resume, the Contractor shall provide all waste handling and storage for ICP waste to support the assembly of payloads and shipment to WIPP. The Contractor shall establish an Interface Agreement with the ICP Contractor that details the coordination for the transfer, characterization (including VE), and receipt of treated waste will be coordinated to ensure uninterrupted operations.

The Contractor shall complete the following characterization scope activities prior to the end of Fiscal Year 2016 unless otherwise noted:

- Complete the addition of a sufficient number of solids IDCs to the solids waste stream profile by October 31, 2015 to provide a sufficient amount (~450 cubic meters) of available feed for uninterrupted processing by the ICP Contractor.
- Complete an assay of all remaining TRU shredder boxes and disposition any that are determined to be MLLW (except those filled during the last 60 days of the contract extension period).
- Complete characterization for 2,500 “unknown” containers that are currently in storage.
- Complete characterization on the small waste stream containers that fit inside the current characterization equipment, which includes the Bendix, Monsanto, JC Haynes, and Mexican Americium containers.

C.4.3 TREATMENT

The Contractor shall treat (as necessary) CH TRU and MLLW for disposal. The Contractor shall certify that the waste has been treated to applicable requirements, including the waste acceptance criteria of the treatment/disposal facility. Treated waste greater than or equal to 100 nCi/g must meet the requirements of the most current version of the WIPP WAC and other WIPP program documents. Treated waste less than 100 nCi/g must meet the requirements of the disposal facility’s waste acceptance criteria.

The Contractor shall maintain management controls for verification of volume input and output to the AMWTP facility and shall track material flows

sufficiently to provide the supporting information necessary to establish that performance meets all contract requirements.

The Contractor shall complete the following treatment scope activities prior to the end of Fiscal Year 2016:

- Process 964 cubic meters of original waste volume through the Treatment Facility.
- Initiate a process to treat squeezants by March 31, 2016.
- Complete all changes necessary to allow the processing of waste containers with up to 800 FGE in the AMWTF.
- Provide documentation and information to the ICP contractor to support its effort to establish a treatment process for roaster oxide drums.
- Provide as-needed support to the ICP contractor to establish a process for removing large items from debris boxes as resources permit.

C.4.4 STORAGE

The Contractor shall store, in a safe and compliant manner, wastes for which the Contractor is responsible within AMWTP facilities until the wastes are disposed or transferred to the appropriate responsible party. ICP waste will be returned to the ICP contractor for storage or stored within the AMWTP facility if space is available during the WIPP closure.

The Contractor shall complete the following storage scope activities prior to the end of Fiscal Year 2016, unless otherwise noted:

- Provide storage for up to 3,500 (assumes 1 shipment/week) 55-gallon drum equivalents of buried waste.
- Construct certified rows as waste becomes available.

C.4.5 PACKAGING AND TRANSPORTATION

The Contractor shall transport waste containers within the RWMC as necessary, and shall coordinate waste shipments within the INL with the appropriate contractor(s). The Contractor shall assemble payloads that are certified for shipment to WIPP once WIPP shipping resumes. These payload configurations can include a mixture of TRU waste and waste having TRU constituents provided the final disposal container is determined to be TRU waste. Contractor assembly and certification of payloads and shipments are under the oversight and authority of CCP. Transportation of TRU waste to WIPP is the responsibility of CBFO after the transport leaves the RWMC security gate and receives dispatch approval from the WIPP Central Monitoring Room. Packaging and transportation of non-TRU waste to treatment and/or disposal facilities is the responsibility of the Contractor. Packaging and transportation of RH-TRU waste to the ICP contractor for processing is the responsibility of the Contractor.

Once WIPP operations resume, the Contractor shall assemble and package CH-TRU waste and make it available for shipment. The ICP waste can be shipped either by itself or with AMWTP waste, as allowed by CBFO, but must be tracked separately. The Contractor shall maintain proficiency in the loading operations for the TRUPACT-II while WIPP shipping remains suspended.

The Contractor shall package waste to meet applicable regulatory and treatment/disposal requirements. The Contractor shall package the TRU final waste form in containers that can be shipped in TRUPACT-II shipping containers (NRC Certificate of Compliance #USA/9218/B(U)F-85), and HalfPACT (NRC Certificate of Compliance #USA/9279/B(U)F-85), or other NRC-certified packaging as applicable (e.g., TRUPACT-III container, once certified). These specifications are identified in the most current version of the WIPP WAC. These TRU shipping containers will be provided by CBFO based on the approved WIPP Shipping Baseline schedule. The Contractor is responsible for providing shipping containers for non-TRU waste and ensuring all applicable shipments meet Department of Transportation (DOT) requirements.

Waste may be transported within the RWMC without further characterization or treatment to meet DOT requirements.

Packaging and transportation of candidate RH-TRU waste shall be in accordance with the requirements of the agreement described in Section C.3.1.

The Contractor shall maintain responsibility for the certification authority granted to AMWTP by CBFO in order to characterize transuranic waste for disposal at the WIPP effective on the contract takeover date. The Contractor shall maintain this authority throughout the contract period.

The Contractor shall utilize payload configurations that maximize the WIPP disposal capability, as determined by CBFO. The Contractor shall assemble shipments that contain a mixture of payloads that can be disposed in an efficient arrangement in WIPP (i.e., a mixture of 7-packs of 55-gallon drums, 3-packs of 100-gallon product drums, ten drum overpacks, and standard waste boxes). The Contractor shall follow DOE policy for efficient use of TRU waste transportation resources (EM-3 policy memorandum dated June 21, 2005, or current replacement). This policy requires shipping sites to ship the maximum number of loaded packages (i.e., three TRUPACT-IIs or two TRUPACT-IIs and one HalfPACT) per shipment with minimal dunnage containers and the maximum amount of waste. All over-packed shipping configurations require specific approval from CBFO. Exceptions may be requested from the CBFO and require approval before implementation.

Once WIPP operations resume, the Contractor shall establish a WIPP Shipping Baseline schedule subject to CBFO approval with the week starting on Sunday and ending on Saturday. The schedule shall account for all of the holiday restrictions identified in the most current version of the Western Governor's Association's *WIPP Transportation Safety Program Implementation Guide*; the following native Indian tribal holidays [Treaty Days (July 3), Independence Day (July 4), Shoshone – Bannock Indian Festival (second weekend in August, Thursday through Sunday) and Indian Days (last Friday of September)]; and six weeks for annual WIPP maintenance shutdowns typically beginning the week of Thanksgiving and continuing through the end of December. CBFO will establish what constitutes the last shipment prior to a holiday or shut down and when shipments can resume. For planning purposes, the Contractor shall assume that once WIPP operations resume, approximately 15 shipments per week of AMWTP, ICP, and offsite waste unless the holidays and other shipping restrictions listed above reduce this weekly allotment. These 15 shipments per week include approximately four (4) shipments per week of ICP waste. If ICP cannot support all four (4) shipments, then the Contractor can use those shipments for AMWTP waste.

The Contractor shall implement the WIPP Eight (8)-week Rolling Schedule approved by CBFO once WIPP operations resume. The WIPP Eight (8)-week Rolling Schedule is subject to changes based upon CBFO funding and DOE priorities. Shipment departure times are subject to CBFO approval in order to minimize transit times between the INL site and WIPP and to comply with CBFO agreements with participating states en route (such as the number of shipments at a Port of Entry at any one time or when shipments can arrive at a Port of Entry).

The Contractor shall provide transportation coordination related to the scheduling, inspection, notification, tracking, and reporting of waste shipments.

C.4.6 DISPOSAL

Disposal of TRU waste destined for disposal at WIPP is the responsibility of DOE. Disposal of any waste not destined for disposal at WIPP is the responsibility of the Contractor. The Contractor shall comply with the applicable waste acceptance criteria for offsite treatment and disposal facilities.

Note that there is no onsite disposal facility for MLLW or contact handled low-level waste (CH-LLW) except as allowed per agreements with the State of Idaho and the Idaho CERCLA Disposal Facility WAC. The Contractor shall assume responsibility for the shipping certification granted by the DOE Nevada Test Site Office, now known as the Nevada National Security Site (NTS), in order to dispose of non-TRU waste at NTS effective on the contract

takeover date. This certification must be maintained as long as the Contractor ships waste to NTS.

The Contractor shall complete the following disposal scope activities prior to the end of Fiscal Year 2016:

- Evaluate the inventory of solids and soils containers that exhibit TRU alpha activity that is either <100 nCi/g or <LLD.
 - Perform treatability studies, as necessary
- Coordinate with the ICP Contractor to support their development of a disposal recommendation, to address the 171 containers of U-233 waste that are in storage at INTEC. Part of this scope may involve providing coordination with the Carlsbad Field Office (CBFO) if the use of CBFO-owned Type B containers is needed.

C.5 PROJECT SUPPORT

The Contractor shall maintain a project management system, including submittal of a Project Execution Plan, in accordance with Section H.1, Project Control Systems and Reporting Requirements.

The Contractor shall submit monthly status reports on or before the 15th of each month, and shall submit all project management data on or before the 10th of each month. The monthly status reports shall include cost and schedule variance analysis at a suitable Work Breakdown Structure (WBS) level, and a discussion of critical technical or programmatic risk issues. The Contractor shall use the WBS and WBS Dictionary included as Exhibits C.3 and C.4 or another WBS approved by the Contracting Officer.

C.6 INTEGRATED SAFETY MANAGEMENT SYSTEM (ISMS) AND ENVIRONMENTAL SAFETY AND HEALTH PROGRAM (ES&H)

The Contractor shall maintain a single ISMS as required by DEAR 970.5223-1, *Integration of Environment, Safety and Health into Work Planning and Execution*. The ISMS program shall ensure that safety and environmental protection considerations are integrated throughout the entire work planning and execution process (including subcontracts as appropriate) and shall extend through the execution of individual work packages where job-site safety is ensured for each worker. The Contractor shall ensure that the principles of ISMS serve as the foundation of the implementing mechanisms for work at the site. The Contractor shall ensure that the structure of requirements to achieve nuclear safety is based on sound principles such as defense in depth, redundancy of protective measures, robust technical competence in operations and management oversight, and compliance with DOE Directives embodying nuclear safety requirements.

The Contractor shall maintain an ES&H program to ensure the protection of workers (compliant with 10 CFR Part 851), the public, and the environment. The Contractor shall operate the ES&H program as an integral, but visible, part of how the Contractor conducts business. This includes prioritizing work planning and execution, establishing clear ES&H priorities, allocating resources to address programmatic and operational considerations, collecting and analyzing samples, correcting non-compliances and addressing hazards for AMWTP facilities, operations, and work.

The Contractor shall conduct activities in compliance with environmental protection requirements including, but not limited to, those listed on the List of Applicable DOE Directives (Section J, Attachment B). The Contractor shall take actions necessary to preclude accidents and injuries, keep worker exposures as low as reasonably achievable, and prevent environmental releases. The Contractor shall promptly respond to operational events and environmental releases.

The Contractor shall maintain authorization basis documents. The Contractor shall submit for approval authorization agreements for applicable nuclear facilities per DOE G 450.4-1B, Integrated Safety Management System Guide.

The Contractor shall continue to follow its existing regulatory required implementation plans and processes, e.g., 10 CFR Part 835 Radiation Protection Plan (RPP), 10 CFR Part 830 Quality Assurance Implementation Plan, 10 CFR Part 851 Worker Protection Plans, and Unreviewed Safety Question Process. The Contractor may elect to update the adopted plans as necessary.

C.7 QUALITY

The Contractor shall maintain a compliant quality assurance program that meets all applicable requirements, including 10 CFR Part 830, DOE O 414.1D, the WIPP Hazardous Waste Facility Permit, and the current version of the CBFO Quality Assurance Program Document. The Contractor's quality assurance program shall also be compliant with the most current version of ANSI/ASME NQA-1, allowing for consistency with the WIPP Hazardous Waste Facility Permit, and the current version of the CBFO Quality Assurance Program Document.

The Contractor shall maintain conduct of operations and software quality assurance programs necessary to improve productivity, safety, predictability, and reliability.

C.8 ENVIRONMENTAL COMPLIANCE

The Contractor shall comply with all applicable environmental requirements, permits and compliance documents including, but not limited to: RCRA permits; air permits; the Site Treatment Plan under the Federal Facility Compliance Act; and the 1995 Idaho Settlement Agreement. Permit compliance includes maintenance of required personnel, training, equipment, facilities, and procedures.

The ICP contractor is responsible for site-wide coordination for RCRA and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regulatory programs. The INL contractor is responsible for site-wide coordination for regulatory programs other than RCRA and CERCLA. The AMWTP Contractor shall provide to the INL or ICP contractors, as applicable, the appropriate AMWTP-related information, data (certified if necessary), and support necessary to complete their site-wide functions including, but not limited to, the following areas:

- RCRA and Idaho Hazardous Waste Management Act;
- Site-wide level regulatory reports, consent order and agreement tracking and closure;
- Site-wide permit application, including permitting for the Site Treatment Plan under the Federal Facility Compliance Act;
- Site-wide air emission applications, permits and reporting per the Clean Air Act and the Idaho implementing regulations;
- Site-wide monitoring, surveillance and reporting for liquid effluents, drinking water, storm water and groundwater to demonstrate compliance with the Clean Water Act and other water quality requirements;
- Soils, air, and biota surveillances and monitoring to determine the impact of operations on the environment and natural resources;
- Site-wide compliance reports, data, and records, required by the Toxic Substances Control Act, Federal Insecticide, Fungicide and Rodenticide Act, Emergency Planning and Community Right to Know Act, and cultural resource management laws and regulations; and
- National Environmental Policy Act (NEPA) actions.

C.9 PRODUCTION PLANNING

The Contractor shall perform a detailed evaluation of all remaining waste inventory at AMWTP, including both legacy and process generated waste. As part of this evaluation, the Contractor shall evaluate current treatment processes for their ability to treat the remaining waste inventory. The Contractor shall develop a detailed production planning flow diagram for DOE that shows the following:

- Detailed waste inventory showing remaining waste by type and characteristics that will drive treatment needs. This shall include an estimate of the types and quantities of waste that remain to be retrieved based upon historical knowledge.

The Contractor shall include a DOE representative during this evaluation and planning process as a member of the planning team. The Contractor shall provide a final flow diagram to DOE management by March 31, 2016.

C.10 FACILITY OPERATION, MAINTENANCE, AND IMPROVEMENTS

The Contractor shall maintain and improve, as necessary, all AMWTP equipment, facilities (Exhibit C.2 and Section J, Attachment H), and utilities to maximize performance and ensure that they are operational throughout the contract period. This means that by the end of the contract period, or as equipment, facilities, and utilities are

no longer needed to process waste, they are placed in a standby condition that would allow for complete resumption of operation in a stable state within a reasonably short period of time (i.e., able to process waste within one month). Even in a standby condition the Contractor shall perform and keep current all required maintenance, including preventive maintenance, and calibrations, etc. All systems required to keep the facility in a safe condition shall be maintained operational. The Contractor shall not employ a run-to-failure approach on any systems or equipment at the AMWTP during the term of the contract without Contracting Officer (CO) approval. The Contractor shall, to the extent possible, time any planned facility maintenance outages with planned WIPP maintenance outages and other planned shipping curtailments to avoid any complex-wide impacts to the TRU shipping program.

The contractor shall implement critical infrastructure improvements to improve the efficiency and reliability of the AMWTP.

C.11 CONTRACT TRANSITION

The Contractor shall support activities that transition the work from Contractor to a successor contractor in an orderly and efficient manner directed by the Contracting Officer.

C.12 DOE SUPPORT

The Contractor shall support DOE in its interactions with stakeholder and oversight organizations by providing information and technical data, supporting tours, and other reasonable items. Examples of support to be provided by the Contractor include, but are not limited to, interactions with the State of Idaho, Environmental Protection Agency (EPA), Shoshone-Bannock Tribes, Citizens Advisory Board, Defense Nuclear Facilities Safety Board, Nuclear Regulatory Commission, and DOE Headquarters.

C.13 INTERFACES WITH SITE CONTRACTORS FOR SERVICES

The Contractor shall ensure that required life safety, occupational medicine, fire protection, operational and emergency response, and other customary or necessary institutional programs are provided throughout the life of the contract. The following mandatory services shall be obtained from the INL contractor:

- Fire Department
- Emergency Operations
- Wireless Design and Support
- Power Management

The Contractor shall extend, as necessary, any formal interface agreement in place with the INL contractor. The Contractor shall provide executed copies of these interface agreements to the Contracting Officer. A more detailed description of these services is in Section J, Attachment G.

C.14 RECORDS MANAGEMENT

The Contractor shall provide a records management program compliant with all Federal regulatory requirements, including records management requirements in 36 CFR 1220-1236. This includes, but is not limited to, maintenance, storage, protection and disposition of active and inactive records, retrieval from onsite storage facilities, and support for ongoing discovery efforts associated with litigation. The Contractor shall provide a complete records inventory list in a suitable format to the post-closure records custodian identified by the Contracting Officer. The Contractor shall incorporate records management and records management archival functions into the design, development, and implementation of information systems.

The Contractor shall maintain compliance with the CBFO-approved records management requirements for the TRU waste certification program.

Upon request by DOE, the Contractor shall verify employment histories and provide medical records, radiation dose records, and any other records related to or pertinent to the condition or case for any individual who applies for compensation under the Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA), Public Law 106-398, 42 U.S.C. 7384, *et seq.* When directed by DOE, the contractor shall not contest a worker's compensation claim or award determined to be valid pursuant to Subtitle D of EEOICPA. The contractor shall track EEOICPA costs and provide a monthly activity report of funds spent on EEOICPA claims processing. The contractor shall provide records search and any resulting workers' compensation determinations. Only the administrative activity is included in the estimated cost.

C.15 SAFEGUARDS, SECURITY, AND COUNTERINTELLIGENCE

The Contractor shall establish and maintain a security plan, as required by DOE directives, and coordinate regularly with the INL contractor to ensure appropriate levels of protection against: unauthorized access; theft, diversion, or loss of custody of nuclear materials; espionage; loss or theft of classified information or Government property; and hostile acts that may cause unacceptable adverse impacts on national security or the health and safety of DOE and Contractor employees, the public, and the environment.

The Contractor shall provide input, as needed, to the INL contractor for applicable elements of the Site Safeguards and Security Plan and participate in safeguards and security drills and exercises as required by DOE directives. The INL contractor is responsible for site-wide security. The AMWTP Contractor shall be responsible for security within the AMWTP facility.

The Contractor shall promptly prepare and submit applications for security clearances, for adjudication by DOE-ID, as required for work under this contract. The Contractor shall maintain the security-facilities infrastructure at AMWTP. The Contractor shall promptly adjust to the Security Condition determined by DOE. The Contractor shall provide a Cyber Security Program to maintain automated information systems, test

systems and network interface; provide training; identify threats and vulnerabilities; assess risks to the systems; and oversee subcontractor computer security programs.

The Contractor shall develop and maintain a Nuclear Materials Control and Accountability Program, an Operations Security Program, a Classification Program, an Information Security Program, and a General Security Awareness Training Program as required by DOE directives.

C.16 FIRE PROTECTION ACTIVITIES

The Contractor shall conduct an engineering evaluation of the existing firewater distribution system components that are under the purview of the AMWTP Contractor to determine the extent of their remaining useful life for providing reliable and adequate water supply and distribution for fire suppression, as required by DOE Order 420.1B and National Fire Protection Association codes and standards.

Additionally, the Contractor shall conduct an engineering evaluation of the existing building fire alarm systems and components to determine the extent of their remaining useful life for providing reliable fire alarm signaling and occupant notification, as required by DOE Order 420.1B and National Fire Protection Association codes and standards.

Based on the results of these analyses, the Contractor shall provide recommendations for corrective maintenance and system upgrades as appropriate, including rough order of magnitude estimates for cost and schedule.

The Idaho Cleanup Project (ICP) Contractor will be conducting a similar evaluation for firewater supply and distribution systems within the control of the ICP Contractor throughout the RWMC. As necessary, the AMWTP Contractor shall support the ICP Contractor's evaluation of the firewater supply and distribution system components that are not under the purview of the AMWTP Contractor.