

Oak Ridge Cleanup Contract 89303322DEM000067  
89303322DEM000067/89303523FEM400032

United Cleanup Oak Ridge LLC (UCOR)

Subtask No: 1-03-03

End State Phase In, Revision 2

7/14/2023



U.S Department of Energy  
Oak Ridge Office of  
Environmental Management

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## **Section B – Supplies or Services and Prices/Costs**

This Subtask work shall be performed under Contract Line Item Number (CLIN) 1-0301-03 of the Oak Ridge Reservation Cleanup Contract (ORRCC) Master Indefinite Delivery/Indefinite Quantity (IDIQ) Contract (herein referred to as the Master IDIQ Contract). Section B of the Master IDIQ Contract is incorporated by reference.

### **B.2 DOE-B-2012 Supplies/Services Being Procured/Delivery Requirements (Oct 2014)**

The Contractor shall furnish all personnel, facilities, equipment, material, supplies, and services (except as may be expressly set forth in this Subtask as furnished by the Government) and otherwise do all things necessary for, or incidental to, the performance of work as described in Section C, Performance Work Statement under this Subtask.

### **B.3 DOE-B-2002 Cost-Plus-Award-Fee Subtask: Total Estimated Cost and Award Fee (Oct 2014) (Revised)**

- (1) This is a Cost-Plus-Award-Fee type Subtask. The total estimated cost and award fee for this Subtask are as follows:

**Table B-1. Estimated Total Price**

<b>Total Estimated Cost</b>	<b>\$617,333,516</b>
<b>Fee</b>	<b>\$ 45,261,762</b>
<b>Total Estimated Price</b>	<b>\$662,595,278*</b>

\*This Subtask is subject to reopening pending receipt of audit of UCOR currently in process by an auditing firm retained by DOE. Therefore, the parties agree that the Total Subtask Estimated Value is subject to adjustment based on the results of audit report and resolution of audit findings. Should there be no agreement between DOE and Contractor on the amount of the price adjustment, the Contracting Officer may make a unilateral determination and modify the Subtask accordingly. Failure of Contractor and DOE to agree with such change and the resulting Total Subtask Estimated Value shall be resolved in accordance with the Disputes Clause of the Contract.

- (2) The Total Estimated Cost and Fee of the Subtask , and/or the Total Estimated Cost and Fee of the Subtask Contract Line Items, is as follows:

**Table B-2. Subtask CLIN Structure**

CLIN/ SubCLIN	CLIN/SubCLIN Title	CLIN Type	Estimated Cost	Fee	Total Estimated Price
01	Oak Ridge Reservation Cleanup Contract				
01-03	End State Task Orders 89303322DEM000067 /89303523FEM400032				
01-03-3	TO-03, End State Phase In, Revision 2				
01-03-3a	End State Phase In (fee-bearing)	CPAF	\$578,811,741	\$45,261,762	\$624,073,503
01-03-3b	Site Usage Fees	CR	\$2,473,358	N/A	\$2,473,358
01-03-3c	Post-Retirement Medical Benefits, Long-Term Disability, and Pension and Reservation Management (GFC)	CR	\$36,048,417	N/A	\$36,048,417
<b>Total</b>			<b>\$617,333,516</b>	<b>\$45,261,762</b>	<b>\$662,595,278</b>

**Acronyms:**

CLIN Contract Line Item Number  
 CPAF cost-plus-award-fee  
 CR cost-reimbursement

GFC Government-Furnished Cost  
 N/A not applicable

- (3) Payment of fee will be made in accordance with Clause I.228, *DEAR 970.5232-2, Payment and Advances (Dec 2000) – Alt I (Dec 2000), Alt II (Dec 2000) and Alt III (Dec 2000) (DEVIATION)* of the Master IDIQ Contract and the Performance Evaluation and Measurement Plan (PEMP).
- (4) Master IDIQ Contract Section J Attachment entitled, *Performance Evaluation and Measurement Plan*.
- (i) The Contracting Officer (CO) will unilaterally issue a PEMP for each evaluation period that establishes the criteria and procedures for evaluating the Contractor’s performance for the purpose of determining fee earned. The PEMP may be revised unilaterally at any time during the evaluation period; but the revised PEMP, or revised portion thereof, shall not be effective until 30 calendar days after the

Contractor receives the revised PEMP. The PEMP will include, as a minimum, the following:

- (A) Evaluation criteria linked to the Contract's performance objectives as defined in terms of cost, schedule, technical, or other Contract performance requirements or objectives.
  - (B) Means of how the Contractor's performance will be measured against the evaluation criteria.
  - (C) Fee evaluation period.
  - (D) Amount of the total annual available fee that is allocated to the evaluation period, including the allocation for subjective award fee criteria and objective award fee criteria.
  - (E) Methodology for application of subjective evaluation ratings or attainment of predetermined objectives to earned fee.
  - (F) Use of rollover of unearned fee is prohibited.
- (ii) The length of evaluation periods will be determined unilaterally by the CO. The evaluation periods should provide a balance between the Contractor's ability to have sufficient performance time for the Government to evaluate, but evaluation periods should provide the ability for the Government to provide timely evaluations on the Contractor's performance without being administratively burdensome.
- (5) Fee Determination. Fee decisions are made solely at the discretion of the Government, including but not limited to, the characterization of the Contractor's performance, amount of earned fee, if any, and the methodology used to calculate the earned fee.
- (6) Unsatisfactory Performance. No award fee shall be earned if the Contractor's overall performance in the aggregate is below satisfactory.

## **B.5 Basis for Change**

In accordance with Clause B.9 *Basis for Change*, of the Master IDIQ Contract, the identification of fee risk ownership for both the Government and the Contractor is set forth in Appendix B.5.

## **B.6 Performance Management Incentive**

In accordance with Clause B.12, *Performance Management Incentive*, of the Master IDIQ Contract, Performance Management Incentive is not applicable to this Subtask .

## **Section C – Performance Work Statement**

## C.1 Subtask Requirements

The Contractor shall perform the requirements in accordance with the Master IDIQ Contract and the information included below:

### **PERFORMANCE BASED STATEMENT OF WORK Subtask 1-03-03: TO-03, End State Phase In, Revision 2**

#### 1.0 INTRODUCTION

The End State Phase In Subtask authorizes the work to be performed during the estimated **14**-month period of performance (POP) immediately following the estimated 4-month Implementation period. On day one (1) of the End State Phase In period, the Contractor continues full responsibility for performance of the Master IDIQ Section C, *Performance Work Statement* (PWS) scope with limitations defined herein. The objective of this Subtask is to continue to keep the existing work ongoing to meet enforceable regulatory and stakeholder commitments and progress toward end state completion objectives. DOE and the ORRCC Contractor will continue to partner to negotiate and award Subtasks 1-03-04 through 1-03-10, 1-03-13, and 1-03-17, and implement a graded approach to an initial Integrated Baseline Review (IBR).

Revision 1 of the End State Phase In Subtask authorizes additional cleanup work to be performed within the current F.3, *Period of Performance* as described in Section 3.0, *Scope*. Key desired outcomes for risk and environmental liability reduction associated with this additional cleanup work include:

- De-inventory of 97% of the radionuclide inventory included in the 10-Year Task Order Strategic Plan.

Revision 2 of the End State Phase In Subtask exercises the Government's right to extend services per Master IDIQ Contract Clause I.49, *Option to Extend Services (Nov 1999)*, and unilaterally authorizes an extension to the F.3, *Period of Performance* to continue operations and additional cleanup work described in Subtask Section C for an estimated four-month period at an equivalent level of support as currently authorized for the Subtask.

The Contractor shall incorporate Subtask 1-03-03 Revision 2 into the performance measurement baseline and Integrated Master Schedule and shall submit the following Subtask-specific Deliverables to DOE for approval, as required per Section J-7-1:

- Deliverable T-03-58, *Performance Measurement Baseline (Final update for Subtask 1-03-03 Revision 2)*, which is to include per H.51, *Ordering Procedure*:
  - A fragment of the detailed resource-loaded schedule for the TO-3 Revision 2 scope of work.

- Updated WBS Dictionary Sheets showing the addition of the Subtask 1-03-03 Revision 2 scopes of work through DOE WBS Level 7, which shall align with the Master IDIQ Section C Performance Work Statement (PWS) subsections at the lowest level. 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)/Sub-CLIN and PWS subsection. The WBS Dictionary shall also include updated Basis of estimate organized by DOE WBS Level 7 with detail by Control Account incorporating the addition of the TO-3 Revision 2 scope of work.
- Updated Time-phased cost estimate for the Subtask 1-03-03 Revision 2 period of performance, summarized at DOE WBS Level 6 with detail at DOE WBS Level 7 and Control Account showing the addition of the TO-3 Revision 2 scope of work and Total Estimated Cost.
- Deliverable T-03-59, *Integrated Master Schedule (update for TO-3 Revisions 1 and 2)*, which is to include per H.51, *Ordering Procedure*:
  - A copy of the Integrated Master Schedule showing the inclusion of the TO-3 Revision 2 scope of work and identifying the logic ties and dependencies between already contracted Subtask scopes of work and the Subtask 1-03-03 Revision 2 work scope.
- T3-060, *Subtask Metrics and Milestone Plan (update for Subtask 1-03-03 Revision 2)*: To incorporate the applicable J-7-1 Deliverables and TO-specific milestones and *10-Year Task Order Strategic Plan* metrics applicable to the Subtask 1-03-03 Revision 2 scope of work, including the following metrics and units of measure:
  - CH TRU Waste Certified for Final Disposal Progress Indicator (m3)
  - CH TRU Waste Processed (Certification Ready) Progress Indicator (m3)
  - RH TRU Waste Certified for Final Disposal Progress Indicator (m3)
  - RH TRU Waste Processed (Certification Ready) Progress Indicator (m3)
  - TRU-CH (m3)
  - TRU-RH (m3)
  - Bulk Tank Waste Removed (thousands of gallons)
  - Liquid Waste Tanks Cleaned (number of tanks)
  - Liquid Waste In Inventory eliminated (number of gallons)
  - Liquid Waste Tanks closed (number of tanks)
  - Remediation Complete (# of Release Sites)
  - Site Remediated/Footprint Reduction (Acreage)
  - Groundwater Wells Installed (# wells)
  - Industrial Facility Completions (# of Facilities)
  - Radioactive Facility Completions (# of Facilities)
  - Nuclear Facility Completions (# of Facilities)

- Square Footage Deinventoried (Square Feet)
  - Square Footage Demolished (Square Feet)
  - General Plant Projects Completed (number of projects)
  - D&D Debris and Remediated Soil Disposed Indicator (m3)
  - LL/LLMW disposed Legacy (Stored) and NGW (m3)
  - Material Access Areas eliminated (number of areas)
  - Radionuclides Deinventoried (Curies)
  - Contaminant Load Remediated from Soil and Other Environmental Media (yd3)
- T3-061, Waste Generation Forecast (update for Subtask 1-03-03 Revision 2): To document the Waste Generation Forecast for the Subtask 1-03-03 Revision 2 scope of work, including the following data elements for each PWS subsection that will result in the generation of waste:
    - Waste generation forecast includes the following data elements:
    - PBS Number
    - Project Group
    - WBS Project
    - Waste Type (Sanitary, LLW or MLLW)
    - Material Type
    - Solid or Liquid
    - RCRA Type (Characteristic or Both)
    - RAD Type (Contact or Remote)
    - Classified
    - Destination Facility
    - EMWMF Confidence in Volume
    - Schedule (FY/Quarters of disposal)
    - Units
    - Component
    - Waste Origin

## 2.0 BACKGROUND

This is not an end states Subtask; however, the Subtask period of performance will continue through completion of the proposed cleanup scope and through ~~July 23, 2023~~ November 26, 2023 for level-of-effort operations. DOE and the ORRCC Contractor have partnered to reach agreement on the scope of work, completion objectives, and risk and mitigation ownership for the Subtask period of performance. The Contractor shall ensure this Subtask scope is integrated with other Subtasks, as necessary.

## 3.0 SCOPE



The Contractor shall perform the scope of work and requirements in accordance with the Section C PWS sections and subsections of the Master IDIQ Contract identified below:

- **C.2 Post-Retirement Medical Benefits, Long-Term Disability and Pension Contributions**

- **C.3.1 ORNL Cleanup**

- C.3.1.1 3026 Hot Cells**

- C.3.1.1.1 Characterization
    - C.3.1.1.2 Preparation for Demolition
    - C.3.1.1.3 Demolition

- C.3.1.2 3038 Facility**

- C.3.1.2.1 Characterization
    - C.3.1.2.2 Preparation for Demolition

- C.3.1.3 Bethel Valley Isotope Area Facilities**

- C.3.1.3.1 Characterization
    - C.3.1.3.2 Preparation for Demolition

- C.3.1.5 OR Graphite Reactor Support Facilities**

- C.3.1.5.1 Characterization
    - C.3.1.5.2 Preparation for Demolition
    - C.3.1.5.3 Demolition

- C.3.1.6 Bethel Valley Bulk Shielding and Low Intensity Test Reactors Complex**

- C.3.1.6.1 Characterization
    - C.3.1.6.2 Preparation for Demolition
    - C.3.1.6.3 Demolition

- C.3.1.7 Oak Ridge Research Reactor Facilities**

- C.3.1.7.1 Characterization
    - C.3.1.7.2 Preparation for Demolition

- C.3.1.10 3515 Facility**

- C.3.1.10.1 Characterization
    - C.3.1.10.2 Preparation for Demolition

- C.3.1.11 3517 and Support Facilities**

- C.3.1.11.1 Characterization
    - C.3.1.11.2 Preparation for Demolition

- C.3.1.12 7500 Complex**

- C.3.1.12.1 Characterization
    - C.3.1.12.2 Preparation for Demolition

- C.3.1.19 Experimental Gas-cooled Reactor Complex**

- C.3.1.19.2 Preparation for Demolition

- C.3.1.21 Molten Salt Reactor Experiment Complex**

- C.3.1.21.1 Characterization

**C.3.1.23 3544 Complex**

- C.3.1.23.1 Characterization
- C.3.1.23.2 Preparation for Demolition

**C.3.1.33 Bethel Valley Remedial Actions**

**C.3.1.40 5505 Demolition**

- C.3.1.40.1 Characterization
- C.3.1.40.2 Preparation for Demolition

○ **C.3.2 Y-12 Cleanup**

**C.3.2.4 Alpha 4 (9201-4) Complex**

- C.3.2.4.1 Characterization
- C.3.2.4.2 Preparation for Demolition

**C.3.2.5 Alpha 2 (9201-2) Complex**

- C.3.2.5.1 Characterization
- C.3.2.5.2 Preparation for Demolition

**C.3.2.7 Beta 1 Complex**

- C.3.2.7.1 Characterization
- C.3.2.7.2 Preparation for Demolition

**C.3.2.9 9213 Complex**

- C.3.2.9.1 Characterization
- C.3.2.9.2 Preparation for Demolition
- C.3.2.9.3 Demolition

**C.3.2.16 Y-12 EU-5**

C.3.2.19 Bear Creek Valley Burial Grounds Record of Decision

C.3.2.24 Bear Creek Valley White Wind Scrap Yard Record of Decision

**C.3.2.26 Upper East Fork Poplar Creek Soils Remedial Action**

**C.3.2.27 Bear Creek Valley NT-8 Action Memo and Removal Action**

○ **C.3.3 ETPP Cleanup**

**C.3.3.1 Zone 1 Soil**

**C.3.3.2 Zone 2 Soil**

**C.3.3.3 Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation**

- C.3.3.3.1 ETPP ROD Development

○ **C.4 CERCLA Disposal Facility Construction (Y-12)**

- C.4.1 CERCLA Disposal Facility Design
- C.4.3 CERCLA Disposal Facility Startup

○ **C.5.1 Liquid and Gaseous Waste Operations and Life Extension (ORNL)**

- C.5.1.1 LGWO Operations
- C.5.1.2 LGWO Life Extension Initiative

○ **C.5.2 Transuranic and Solid Waste Debris Storage and Shipment Support**

- C.5.2.1 Melton Valley Solid Waste Storage Facility Operations and Maintenance
  - C.5.2.2 TRU Shipment Support
- **C.5.3 ORNL Surveillance and Maintenance of EM Facilities and Sites and Environmental Monitoring**
  - C.5.3.1 ORNL Surveillance and Maintenance
  - C.5.3.2 ORNL Environmental Monitoring
  - C.5.3.3 MSRE Enhanced S&M
- **C.5.4 Y-12 Surveillance and Maintenance of EM Facilities and Sites and Environmental Monitoring**
  - C.5.4.1 Y-12 Surveillance and Maintenance
  - C.5.4.2 Y-12 Environmental Monitoring
- **C.5.5 CERCLA Disposal Facilities and ORR Landfills Management and Operations**
  - C.5.5.1 EMWMF
  - C.5.5.2 ORR Landfills
- **C.5.6 Outfall 200 Mercury Treatment Facility (Y-12)**
  - C.5.6.1 MTF Construction Support
- **C.5.7 ETTP Site Closure, Historic Preservation, Surveillance and Maintenance, and Environmental Monitoring**
  - C.5.7.1 ETTP Closure
  - C.5.7.2 ETTP Historic Preservation
  - C.5.7.3 ETTP S&M and Environmental Monitoring
- **C.5.8 Legacy Waste Disposition**
- **C.5.9 Infrastructure Enhancements**
  - C.5.9.2 Design Basis Threat Mitigation
- **C.6 Core Functions**
  - C.6.1.1 Project Support Performance Requirements
  - C.6.1.2 Project Performance Reporting
  - C.6.1.3 Health and Safety
  - C.6.1.4 Radiation Protection
  - C.6.1.5 Nuclear Safety
  - C.6.1.6 Nuclear Criticality Safety
  - C.6.1.7 Safety Culture
  - C.6.1.8 Quality Assurance
  - C.6.1.9 Engineering
  - C.6.1.10 Environmental Protection
  - C.6.1.11 Environmental Sustainability
  - C.6.1.12 Federal Facility Agreement and Related Support
  - C.6.1.13 Records Management

- C.6.1.14 Public Relations and Media Support
- C.6.1.15 Legal Management
- C.6.1.16 Safeguards and Security
- C.6.1.17 Information Technology
- C.6.1.18 Audit Support Services
- C.6.1.19 Administration of Pension and Benefits Services at ORR, Portsmouth, and Paducah Sites
- C.6.1.20 Other Program Activities
- C.6.2.1 Reservation Management
- C.6.2.2 Reindustrialization
- C.6.2.3 Emergency Management and Fire Protection
- C.6.2.4 Technology Development
- C.6.2.5 Historic Preservation and Cultural Resource Management
- C.6.2.6 Analytical Services (Sample Management Office Integration)
- C.6.2.7 Transportation Services
- C.6.2.8 Waste Management
- C.6.2.9 Land Use Controls
- C.6.2.10 Support DOE Natural Resource Damage Assessment
- C.6.2.11 Site Usage Fees

For the scope of work performed under Master IDIQ PWS sections and subsections listed in the Scope, the Contractor shall incorporate the following assumptions and completion objectives into the Subtask:

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
C.2: <i>Post-Retirement Medical Benefits, Long-Term Disability and Pension Contributions:</i>	<ul style="list-style-type: none"> <li>• Includes Government Furnished Cost (GFC) of \$25,425,023.</li> <li><u>REVISION 2:</u></li> <li>• <u>Includes additional GFC of \$3,413,741 for the period 7/24/2023 through 9/30/2023 and GFC of \$3,076,605 for the period 10/1/2023 through 11/26/2023.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Assume cost-sharing for administration as agreed to by PPPO.</u></li> <li>• <u>This PWS subsection is non fee-bearing (SubCLIN 1-3-3c).</u></li> </ul>
C.3.1.1, <i>3026 Hot Cells:</i>	<ul style="list-style-type: none"> <li>• Complete Characterization and Preparation for Demolition end states</li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>and demolition of the east cell bank structure.</p> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete project oversight for characterization, preparation for demolition, disposition of deactivation wastes, and demolition of the east cell bank structure and continue project oversight for disposition of demolition debris.</u></li> </ul>	
C.3.1.2, 3038 Facility	<ul style="list-style-type: none"> <li>• Complete Characterization end state activities, including characterization for demolition, and continue Preparation for Demolition end state activities described in C.3, including asbestos-containing material (ACM) abatement above the ceiling.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete project oversight of Characterization end state, and continue project management, project support, and consumables for Preparation for Demolition end state.</u></li> </ul>	<ul style="list-style-type: none"> <li>• Assume double-handling of process equipment/ gloveboxes will be minimized by packaging as Waste Isolation Pilot Plant (WIPP)-compliant waste where feasible.</li> </ul>
C.3.1.3, Bethel Valley Isotope Area Facilities	<ul style="list-style-type: none"> <li>• Complete Characterization and Preparation for Demolition end state desired outcomes described in C.3 for all facilities except 3099 pad, including removal of 3029 Cobalt source, hot cells, 3033 Krypton enclosure, and 3093 Krypton storage tank.</li> <li>• DOE has determined the 3099 pad shall remain for a future remedial action.</li> </ul> <p><u>REVISION 2:</u></p> <p><u>Complete project oversight of Characterization and Preparation for Demolition end states, including project</u></p>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<u>management, project support, and consumables.</u>	
C.3.1.5, <i>Graphite Reactor Support Facilities</i>	<ul style="list-style-type: none"> <li>• Complete Characterization and Preparation for Demolition end state desired outcomes described in C.3, except for sampling and DQA required for a future remedial action decision and controlled low-strength material (CLSM) placement, assuming the 3002 slab and superficial structures will be removed during demolition.</li> <li>• Remaining activities include asbestos abatement exterior to the facilities, process piping removal, decontamination of the 3002 canal, plugging slab penetrations, demobilization, removal of temporary power, and disposition of all deactivation wastes.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete project oversight of Characterization and Preparation for Demolition end states, including project management, project support, and consumables.</u></li> <li>• <u>Complete application of fixative to ventilation ducts, Demolition Plan, work package(s) for demolition activities, and associated project oversight of these initial Demolition end state activities.</u></li> </ul>	<ul style="list-style-type: none"> <li>• Assume the 3002 slab and superficial structures will be removed during demolition.</li> <li>• <u>Demolition is assumed to be open air.</u></li> <li>• <u>The 3002 slab, canal, and the segment of the concrete ventilation duct between 3002 and 3003 will be removed during demolition.</u></li> </ul>
C.3.1.6, <i>Bethel Valley Bulk Shielding Reactor and Low Intensity Test Reactors Complex Demolition</i>	<ul style="list-style-type: none"> <li>• Complete the desired outcome, with final Phased Construction Completion Reports (PCCRs), D2 approved.</li> <li>• DOE has determined the facility slabs shall remain for a future remedial action (RA).</li> </ul>	
C.3.1.7, <i>Oak Ridge Research Reactor</i>	<ul style="list-style-type: none"> <li>• Complete Characterization and continue</li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
<i>Facilities</i>	<p>Preparation for Demolition desired outcomes described in C.3, including planning an approach and developing the RDR/RAWP for stabilization of basement spring and pump system and initiate lead removal, process pipe removal, and disposal of all wastes.</p> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete project oversight of Characterization end state, and continue project management, project support, and consumables for Preparation for Demolition end state.</u></li> </ul>	
C.3.1.10, 3515 <i>Facility</i>	<ul style="list-style-type: none"> <li>• Complete development of a characterization approach and initiate hot cell investigations in support of Characterization end state described in C3.</li> <li>• Complete applicable Level 3 recordation in accordance with National Historic Preservation Act (NHPA) requirements and initiate deactivation and isolation of utility systems to begin Preparation for Demolition end state described in C.3.</li> </ul>	
C.3.1.11, 3517 and Support Facilities	<ul style="list-style-type: none"> <li>• Complete Hot Cell Characterization Report and initiate Characterization end state activities described in C.3 for the preparation for demolition and demolition of the facility complex, including implementation of required safety basis revisions to execute Hot Cell Investigation.</li> <li>• Complete preparation of applicable recordation in accordance with NHPA requirements and crane repair/refurbishment to begin Preparation for Demolition end state for the facility complex.</li> </ul>	<ul style="list-style-type: none"> <li>• Assume casks will not be relocated to storage but will remain in the facility for processing/repackaging for offsite disposal, if feasible.</li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p>REVISION 1:</p> <ul style="list-style-type: none"> <li>○ Perform and Complete all activities required to transfer the Byproduct Utilization Program-500 (BUP-500) Radioisotope Thermal Generator (RTG) in compliance with DOE Orders and regulations from the Oak Ridge National Laboratory (ORNL), Building 3517, to an approved facility. Additionally, the Contractor shall complete activities for initial disposition of components and preparation actions for final disposition. Specific requirements include:               <ul style="list-style-type: none"> <li>○ Support completion of National Environmental Policy Act requirements for the disposition of the BUP-500.</li> <li>○ Support DOE Oak Ridge Office of Environmental Management in obtaining DOE Headquarters approval of an exemption from DOE Order 460.1D Chg. 1 (LtdChg), <i>Hazardous Materials Packaging and Transportation Safety</i>, to authorize an out-of-commerce shipment of the BUP-500 RTG and contract with an approved carrier for transportation of the BUP-500 using a Federalized driver.</li> <li>○ Make any repairs to the BUP-500 as necessary to safely transport the device.</li> <li>○ Prepare subcontracts for the disposition of the BUP-500 packaging material and other non-useable material (if any). These</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Material transfer will take place once a capsule is breached.</li> <li>● DOE will provide approval of applicable transportation requirements exemption.</li> </ul>



RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>subcontracts shall further define the Scope of Work necessary to ultimately disposition the BUP-500 (if authorized in a future Subtask).</p> <ul style="list-style-type: none"> <li>○ Collaborate with the Nevada National Security Site or another appropriate disposal facility to ensure that any unusable material can be accepted for disposal (<i>if authorized to dispose in a future Subtask</i>). This includes both the nonradioactive components as well as the shield body and fuel canisters and potentially most of the Strontium-90.</li> <li>○ Prepare and transport the BUP-500 to an approved facility, and disposition low-level waste.</li> </ul>	
	<p><b>REVISION 2:</b></p> <ul style="list-style-type: none"> <li>● <u>Complete design for Hot Cell sampling and deactivation by manned entry.</u></li> <li>● <u>Continue project oversight of Characterization and Preparation for Demolition end states, including project management, project support, and consumables.</u></li> </ul>	
C.3.1.12, 7500 Complex	<ul style="list-style-type: none"> <li>● Design, procure, and stage the dewatering system for the 7500 basement.</li> </ul>	
C.3.1.19.2, Experimental Gas-cooled Reactor Complex Preparation for	<ul style="list-style-type: none"> <li>● Continue deactivation of the Complex to prepare the facility for demolition, assuming demolition will not occur for approximately 10 years.</li> <li>● Placement of CLSM required to</li> </ul>	<ul style="list-style-type: none"> <li>● Assume demolition will not occur for approximately 10 years.</li> </ul>

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
<i>Demolition</i>	stabilize the facilities for demolition will be deferred to the Demolition end state.	
<i>C.3.1.21.1, Molten Salt Reactor Experiment Complex Characterization</i>	<ul style="list-style-type: none"> <li>• Preparation of regulatory documentation and characterization activities associated with development of in situ decommissioning alternatives as described in the CERCLA Molten Salt Reactor Experiment (MSRE) Complex Remedial Investigation Work Plan, D1 are authorized as Characterization end state activities.</li> <li>• Complete collection of one-year of monitoring data and update the groundwater model.</li> <li>• Complete non-destructive assay (NDA) of remaining building units.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete Remedial Investigation, D0 including transmittal to DOE, complete Feasibility Study Outline, Revision 1, and associated project management.</u></li> </ul>	
<i>C.3.1.23, 3544 Complex</i>	<ul style="list-style-type: none"> <li>• Deactivation and isolation of utility systems are authorized to begin Preparation for Demolition, in addition to other Characterization end state activities described in C.3 (excluding Waste Handling Plan), following completion of PWS Subsection C.5.1 transition to cold standby anticipated by October 2022.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete low-risk process equipment characterization, including sampling, analysis, ALARA review, and data validation.</u></li> <li>• <u>Complete RDR/RAWP, D0 and D1 including transmittals to DOE.</u></li> <li>• <u>Procure waste containers (except SMAC</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>The 3518 neutralization basin structure and other subsurface structures will remain in place, but that pumps, mixers, walkways, handrails, and other ancillary steel will be removed and</u></li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p><u>shielded containers) for deactivation debris.</u></p> <ul style="list-style-type: none"> <li>• <u>Continue project oversight of Characterization and Preparation for Demolition end states, including project management, project support, and consumables.</u></li> </ul>	<p><u>disposed.</u></p> <ul style="list-style-type: none"> <li>• <u>SMAC shielded containers are not needed until tanks/media are removed in a future Subtask.</u></li> </ul>
C.3.1.33, <i>Bethel Valley Remedial Actions</i>	<ul style="list-style-type: none"> <li>• Initiate characterization, Data Quality Objectives, and development of the Remedial Design Report/Remedial Action Work Plan addendum for remediation of EU-4 East, EU-4 North, and EU-4 Southeast.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete preparation of the RDR/RAWP Addendum, D1, resolution/incorporation of D1 comments on the RDR/RAWP addendum, clearance and transmittal of the RDR/RAWP D1 and D2 to DOE, and associated project management.</u></li> </ul>	
C.3.1.40, <i>5505 Demolition</i>	<ul style="list-style-type: none"> <li>• Deactivation and isolation of secondary utility systems are authorized to begin Preparation for Demolition, in addition to finalizing the approach for Characterization end state activities described in C.3, assuming remediation of C.3.1.33 BV Remedial Actions Exposure Unit (EU)-6 will be sequenced to follow 5505 demolition in a future Subtask.</li> <li>• Initiate characterization sampling after the facility is cold and dark, which is planned for May 2023.</li> <li>• The Program Owner (Office of Science) will complete primary isolations.</li> <li>• Complete removal/disposition of drum.</li> </ul> <p><u>REVISION 2:</u></p>	<ul style="list-style-type: none"> <li>• Assume remediation of C.3.1.33, BV Remedial Actions Exposure Unit (EU)-6 will be sequenced to follow 5505 demolition in a future Subtask.</li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>• <u>Complete process equipment characterization (sampling, analysis, and data validation, verification, and evaluation) to inform deactivation approach.</u></li> <li>• <u>Continue project oversight of Characterization and Preparation for Demolition end states, including project management, project support, and consumables.</u></li> </ul>	
C.3.2.4, <i>Alpha 4 (9201-04) Complex</i>	<ul style="list-style-type: none"> <li>• Continue Characterization end state activities described in C.3, including Data Quality Objectives (DQOs)/Waste Handling Plan (WHP)/Sampling and Analysis Plan (SAP) for equipment characterization and declassification.</li> <li>• Continue Preparation for Demolition end state activities described in C.3, including starting the sanitization and declassification effort, improvements on various material handling systems, cold and dark/temporary power installation, sort/segregate/repackaging ~ 50% of the legacy waste; and removal/packaging/disposition of select internal equipment associated with the COLEX process.</li> <li>• Complete disposition of East COLEX deactivation waste.</li> <li>• Design, plan, and begin relocation of infrastructure that supported the Biology Complex /EU-5 cleanup to area agreed to in the Memorandum of Agreement with the Y-12 Site Contractor to support Y-12 cleanup work.</li> <li>• Continue extension of site power and data to trailers located at EU-5 footprint.</li> <li>• Demolish/disposition 1316-A.</li> </ul>	<ul style="list-style-type: none"> <li>• Assume a gravel cover rather than revegetation and punch list items required for turnover.</li> </ul>

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<ul style="list-style-type: none"> <li>• The Contractor shall continue preparation of the footprint for future use assuming a gravel cover rather than revegetation and punch list items required for turnover.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete sort/segregate/repackaging/disposal of the remaining ~50% of the total legacy waste inventory of 447 containers.</u></li> <li>• <u>Complete west old salvage yard (WOSY) infrastructure/laydown area improvements to support Y-12 cleanup work, including relocation/ reconnection of infrastructure, trailers, containers, and utilities.</u></li> <li>• <u>Complete EU-5 power line removal.</u></li> <li>• <u>Complete monorail analysis.</u></li> <li>• <u>Complete stencil removal.</u></li> <li>• <u>Continue project oversight of Characterization and Preparation for Demolition end states, including project management, project support, and consumables.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>The creation of no-path-to-disposal waste will be prevented or minimized.</u></li> <li>• <u>Collaboration with DOE project management, waste management SMEs, and regulatory affairs SMEs will identify acceptable paths forward for Alpha-4 waste items included in Master IDIQ Attachment J-12, Difficult to Disposition Waste and no-path-waste including but not limited to storage and/or variance request preparation and submittal.</u></li> <li>• <u>Recovered mercury will be dispositioned or relocated to approved storage area(s).</u></li> <li>• <u>Prep for demo activities in Alpha 4 may continue inside PIDAS with Alpha-5 and Beta-4 prep for demo activities prioritized when authorized in a future subtask.</u></li> </ul>
C.3.2.5.2, Alpha 2 (9201-2) Complex	<ul style="list-style-type: none"> <li>• Complete preparation for demolition end state described in C.3, with the</li> </ul>	<ul style="list-style-type: none"> <li>• Alpha-2 demolition will be sequenced to precede</li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
<i>Preparation for Demolition:</i>	<p>exception of the basement and placement of CLSM.</p> <ul style="list-style-type: none"> <li>• Initiate and continue the design and implementation of protection for the basement sump.</li> <li>• Complete characterization of the basement walls/floors to support future RA decisions.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete sampling for Outfall baseline.</u></li> <li>• <u>Complete removal of temporary power from basement.</u></li> <li>• <u>Complete preparation of the basement for CLSM placement.</u></li> <li>• <u>Complete filling of the basement with CLSM.</u></li> <li>• <u>Complete Alpha-2 Demolition Plan and work package(s) for demolition activities, and establish Traffic Control Plan.</u></li> <li>• <u>Complete project oversight for Characterization and Preparation for Demolition end states, including project management, project support, and consumables.</u></li> </ul>	<p>Beta-1 and will be included in a future Subtask.</p> <ul style="list-style-type: none"> <li>• <u>The slabs and subsurface structures shall remain for a future remedial action, except for inaccessible basement areas identified for excavation in the applicable RmAWP.</u></li> <li>• <u>Exterior ACM has been removed, except where the Y-12-owned utility re-route prevented access.</u></li> <li>• <u>Facility complex will be prepared for open air demolition.</u></li> </ul>
<i>C.3.2.7.2, Beta 1 Complex Preparation for Demolition</i>	<ul style="list-style-type: none"> <li>• Complete preparation for demolition end state described in C.3, except basement.</li> <li>• Complete implementation of water treatment system and initiate and continue removing basement water.</li> <li>• Initiate and continue characterization of the basement walls/floors prior to placement of CLSM to support future RA decisions.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete pumping basement water through deactivation of the basement</u></li> </ul>	<ul style="list-style-type: none"> <li>• Beta-1 demolition and CLSM placement will be sequenced to follow Alpha-2 and will be included in future Subtask.</li> <li>• <u>The slabs and subsurface structures shall remain</u></li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p><u>until ready for CLSM placement.</u></p> <ul style="list-style-type: none"> <li>• <u>Complete preparation of the basement for CLSM placement, including:</u> <ul style="list-style-type: none"> <li>○ <u>Life safety improvements,</u></li> <li>○ <u>Loose legacy waste removal,</u></li> <li>○ <u>Universal and hazardous waste removal,</u></li> <li>○ <u>ACM removal,</u></li> <li>○ <u>Removal of temporary power,</u></li> <li>○ <u>Plugging slab penetrations and floor drains, and</u></li> <li>○ <u>Characterization of the basement walls/floors prior to support future RA decisions.</u></li> </ul> </li> <li>• <u>Procure/receive waste containers, obtain disposal site approval(s), and complete treatment and disposal of all wastes.</u></li> <li>• <u>Complete project oversight for Characterization and Preparation for Demolition end states (except CLSM placement), including project management, project support, and consumables.</u></li> </ul>	<p><u>for a future remedial action, except for inaccessible basement areas identified for excavation in the applicable RmAWP.</u></p> <ul style="list-style-type: none"> <li>• <u>Exterior ACM has been removed, except where the Y-12-owned utility re-route prevented access.</u></li> <li>• <u>Facility will be prepared for open air demolition.</u></li> <li>• <u>Repairs will be needed to support waste hauling across E Street prior to the start of demolition and after demolition.</u></li> </ul>
C.3.2.9, 9213 Complex	<ul style="list-style-type: none"> <li>• Complete Characterization, Preparation for Demolition, and Demolition end states for the 9213 Complex including slab removal and backfill of the area.</li> <li>• Limited sampling activities will be performed post slab removal before backfill is placed to support future remedial action investigation of this area.</li> <li>• Ensure final grading plan leaves adjacent subsurface features/vaults visible for future evaluation.</li> </ul>	
C.3.2.16, Y-12 EU-5:	<ul style="list-style-type: none"> <li>• No EU-5 remedial actions have been identified.</li> <li>• The Contractor has obtained approval of</li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p>a Technical Memorandum for No Further Action.</p> <ul style="list-style-type: none"> <li>• Complete remaining removal of slabs (9208, 9220, and 9767-03) and walls of the crawlspace under 9211.</li> </ul>	
C.3.2.19, <i>Bear Creek Valley Burial Ground ROD</i>	<p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete preliminary water level measurements.</u></li> <li>• <u>Complete preliminary RAD survey.</u></li> <li>• <u>Complete preliminary sampling/analysis/ data V&amp;V for existing wells, sediment, and surface water and dispose Investigation Derived Waste (IDW).</u></li> <li>• <u>Plan, present, and resolve Data Quality Objectives.</u></li> <li>• <u>Complete Remedial Investigation Work Plan, D0 and D1 including transmittals to DOE.</u></li> <li>• <u>Complete project management through clearance and transmittal of the RIWP, D1 to DOE.</u></li> </ul>	
C.3.2.24, <i>Bear Creek Valley White Wing Scrap Yard ROD</i>	<p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Plan, present and resolve Data Quality Objectives.</u></li> <li>• <u>Complete Remedial Investigation Work Plan, D0 and D1 including transmittals to DOE.</u></li> <li>• <u>Complete project management through clearance and transmittal of the RIWP, D1 to DOE.</u></li> </ul>	
C.3.2.26, <i>Upper East Fork / Poplar Creek (UEFPC) Remedial Actions:</i>	<ul style="list-style-type: none"> <li>• Initiate development of the Remedial Action Work Plan (RAWP) addendum to support downstream CERCLA actions.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete RAWP addendum, D1 and D2</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Evaluation of ROD</u></li> </ul>



<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p><u>and transmit to DOE.</u></p> <ul style="list-style-type: none"> <li>• <u>Complete project management through approval of the RAWP addendum, D2 and readiness of EU-2 for soil/sediment sampling.</u></li> <li>• <u>Complete preparation of EU-2 for soil/sediment sampling, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete development of DQO scoping package and Dynamic Work Plan, and plan, present, and resolve DQOs.</u></li> <li>○ <u>Complete EU-2 Preliminary Hazard Screening and implementation.</u></li> <li>○ <u>Complete brush clearing.</u></li> <li>○ <u>Complete walkover survey.</u></li> <li>○ <u>Complete storm drain and process drain assessments.</u></li> </ul> </li> </ul>	<p><u>boundaries and Clean Parcel Determinations and a gap analysis will be performed to ensure no areas exist that are not covered under CERCLA.</u></p> <ul style="list-style-type: none"> <li>• <u>Planning for remaining EUs will be completed based on OREM/Y-12 priorities and phased approach to soil remedial actions. Sub-EUs will be proposed as appropriate for planning purposes but maintaining EU-wide risk evaluation.</u></li> <li>• <u>Regulatory agreement will be obtained to include EUs 15, 16, and 17 into UEFPC ROD and/or determine as candidates for Clean Parcel Determination.</u></li> </ul>
<p>C.3.2.27, <i>NT-8 Action Memorandum and Removal Action:</i></p>	<ul style="list-style-type: none"> <li>• <u>Complete Phase I and II characterization field studies, data validation/OREIS submittal, and Data Quality Assessment (DQA) and Engineering Evaluation/Cost Analysis (EE/CA), D0.</u></li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete EE/CA, D1 and D2 including transmittals to DOE.</u></li> <li>• <u>Complete Action Memorandum, D0, D1, D2, including transmittals to DOE, public notification and incorporation of public response.</u></li> <li>• <u>Complete project management through approval of the Action Memorandum.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Technical approach to Removal Action shall not result in the generation of listed RCRA waste (F, P, U, or K codes), nor waste without an identified path to disposal.</u></li> </ul>
<p>C.3.3.1, <i>Zone 1</i></p>	<ul style="list-style-type: none"> <li>• <u>Resolve regulatory comments on the</u></li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
<i>Soil:</i>	<p>Zone 1 Soils Final Record of Decision (ROD) and complete associated regulatory documents to implement the requirements of the approved Zone 1 Final ROD.</p> <ul style="list-style-type: none"> <li>• Evaluate Vapor Intrusion Screening and develop the Zone 1 RAR, D0.</li> </ul>	
<i>C.3.3.2.1, Zone 2 Southeast Area Exposure Units</i>	<ul style="list-style-type: none"> <li>• Complete the following:               <ul style="list-style-type: none"> <li>○ EU-35: Initiate remediation of K-1407-B Pond.</li> <li>○ EU-39: Characterization of waste streams, obtain disposal site approvals, and initiate remedial actions.</li> <li>○ Respond to EPA/TDEC comments and prepare PCCR (D2) versions follow-on document, as necessary for EU-25, EU-41, and EU-42.</li> <li>○ EU-30: Remediation of soils.</li> </ul> </li> </ul>	
<i>C.3.3.2.2, Zone 2 North-by-Northwest Area Exposure Units</i>	<ul style="list-style-type: none"> <li>• Complete the following:               <ul style="list-style-type: none"> <li>○ EU-13: Remediation of soils, waste profile support, preparation of WP/TM Addendum for water treatment, functional test of water treatment system and initiation of water treatment.</li> <li>○ EU-16: Remediation of K-1064 Peninsula Area. Due to classification issues in EU-16, waste shipments to EMWMF require dump truck super-sacks to prevent visual access to the waste, security locks for the dump trucks while in transit, and security repositories for storing the locks and keys when not in use.</li> <li>○ EU-17 Riverbank: Removal, package and shipment of transite and placement of riprap to stabilize</li> </ul> </li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>shoreline (in November 2022 – January 2023, when water levels have dropped) and preparation of regulatory completion documentation.</p> <ul style="list-style-type: none"> <li>○ EU-18: Preparation of regulatory completion documentation (i.e., PCCR).</li> <li>○ EU-19: Resolve EPA/TDEC comments received on PCCR (D1) and submit D2 version.</li> <li>○ EU-19 Mudflat Time-Critical Removal Action (TCRA)/non-TCRA: Removal action (in November/December 2022, when water levels have dropped), and Removal Action Report.</li> <li>○ EU-38: Characterization and waste profile development for two 1417 catch basins posted as TRU contaminated area.</li> </ul>	
C.3.3.2.3, Zone 2 <i>K-25 Area Trichloroethylene Plume</i>	<ul style="list-style-type: none"> <li>● Remediate TCE-contaminated soil area between K-1600 and K-1024, and mercury contaminated soils and piping in layback areas, and initiate preparation of regulatory completion documentation.</li> </ul>	
C.3.3.2.4, Zone 2 <i>Balance of K-25 Area Exposure Units</i>	<ul style="list-style-type: none"> <li>● EU-22: Complete EU-22 remedial action of K-101 Slab.</li> <li>● EU-20: Initiate planning for assessment and clean-out of the K-1101 pit, and initiate characterization of K-2500G for inclusion in regulatory closure documentation.</li> </ul>	
C.3.3.3.1 <i>ETTP ROD Development</i>	<ul style="list-style-type: none"> <li>● K-31/K-33 Groundwater:             <ul style="list-style-type: none"> <li>○ Resolve EPA/TDEC comments on Proposed Plan (PP) (D1), prepare D2 version, and support public notification meeting.</li> </ul> </li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>○ Prepare D0 and D1 ROD.</li> <li>● Main Plant Area Groundwater:               <ul style="list-style-type: none"> <li>○ Support comment resolution, revise PP (D1) and prepare/transmit PP (D2) to DOE.</li> <li>○ Complete preparation of Interim ROD (IROD).</li> <li>○ Complete three rounds of groundwater sampling in EU-36.</li> <li>○ Complete two DQO sessions in support of the RIWP.</li> </ul> </li> <li>● Zone 1 Groundwater:               <ul style="list-style-type: none"> <li>○ Continue RI Field Work, as necessary, and begin associated data analysis and DQA.</li> <li>○ Develop and transmit K-720 Fly Ash Pile Addendum to the RIWP.</li> <li>○ Initiate K-720 fieldwork procurement planning, site preparation and vegetation removal.</li> </ul> </li> <li>● Ecology/Surface Water/Sediment:               <ul style="list-style-type: none"> <li>○ Transmit erratum to RIWP (D2).</li> <li>○ Complete RI Field Work, associated data analysis and DQA.</li> </ul> </li> <li>● K-1007-P1 Pond:               <ul style="list-style-type: none"> <li>○ Resolve comments on Non Time-Critical Action Memorandum and complete Removal Action Work Plan.</li> <li>○ Pond fill removal action is planned to be completed in parallel with airport construction in a future Subtask.</li> <li>○ Complete Mitigation Plan prior to the removal action.</li> </ul> </li> </ul> <p><b>REVISION 2:</b></p> <ul style="list-style-type: none"> <li>● <u>K-31/K-33 Groundwater:</u> <ul style="list-style-type: none"> <li>○ <u>Complete ROD, D2, including clearance and transmittal to DOE.</u></li> </ul> </li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>• <u>Main Plant Area Groundwater:</u> <ul style="list-style-type: none"> <li>○ <u>Plan, present, and resolve two DQO sessions in support of the TSWP.</u></li> <li>○ <u>Complete TSWP, D0.</u></li> <li>○ <u>Complete RIWP, D0 and transmit to DOE.</u></li> <li>○ <u>Plan, present, and resolve two DQO sessions in support of the RDWP.</u></li> <li>○ <u>Complete RDWP, D0 and transmit to DOE.</u></li> </ul> </li> <li>• <u>Zone 1 Groundwater:</u> <ul style="list-style-type: none"> <li>○ <u>Plan, present, and resolve three RI Field Work DQA sessions.</u></li> <li>○ <u>Complete K-720 sampling/analysis/data validation and verification for the first two quarters of year one.</u></li> <li>○ <u>Complete K-720 well mobilization, well installation, and demobilization.</u></li> <li>○ <u>Complete one quarter of well sampling, analysis, data validation and verification.</u></li> <li>○ <u>Complete Direct Push Technology well installations.</u></li> </ul> </li> <li>• <u>Ecology/Surface Water/Sediment:</u> <ul style="list-style-type: none"> <li>○ <u>Complete RI Field Work DQA Sessions 5 and Errata, DQA Session 6 and Errata, and DQA Session 7 and Errata.</u></li> <li>○ <u>Complete Fishing Survey and analysis.</u></li> <li>○ <u>Complete K1007 Ponds Benthic Community Survey.</u></li> </ul> </li> </ul>	
C.4.1, <i>CERCLA Disposal Facility Design</i>	<ul style="list-style-type: none"> <li>• Support actions to obtain regulatory approval of the ROD.</li> <li>• Following approval of the ROD, complete documents to obtain regulatory approvals for:</li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>○ CERCLA Remedial Design Report (RDR)/ Remedial Action Work Plan (RAWP) D2, Early Site Prep (ESP)</li> <li>○ CERCLA Remedial Design Work Plan (RDWP) D1, Groundwater Field Demonstration (GWFD)</li> <li>○ CERCLA RDWP D2, GWFD</li> <li>● Complete documentation and reviews (including annual Project Peer Review) to obtain approval of applicable critical decisions in accordance with DOE Order 413.3B for design and construction of ESP and GWFD.</li> <li>● Initiate sensitive resources mitigation efforts.</li> <li>● Initiate development of waste acceptance criteria (WAC) compliance plan.</li> <li>● Perform site maintenance and field data collection.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>● <u>Complete Project Management and Support for the period 7/24/2023 through the start of Subtask 2 in October 2023.</u></li> <li>● <u>Complete final actions to obtain GWFD Construction Start approval.</u></li> <li>● <u>Complete evaluation of GWFD subcontract bids and award the GWFD subcontract.</u></li> <li>● <u>Complete GWFD pre-construction submittals, including resolution and incorporation of review comments.</u></li> </ul>	<ul style="list-style-type: none"> <li>● <u>Completion of GWFD subcontract award and pre-mobilization submittals assumes Project Management Executive approval as pre-Critical Decision 2/3 activities.</u></li> </ul>
C.4.3, CERCLA Disposal Facility Startup	<ul style="list-style-type: none"> <li>● Continue annual performance summary and other submittals in compliance with DOE O 435.1 requirements.</li> </ul> <p><u>REVISION 2:</u></p>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<ul style="list-style-type: none"> <li>• <u>Continue annual DOE O 435.1 requirements, including evaluation and determination of required revisions for the PA/CA.</u></li> </ul>	
C.5.1.1, <i>Liquid and Gaseous Waste Operations</i>	<ul style="list-style-type: none"> <li>• Continue responsibility for operational activities described in Master IDIQ Section C.5.1.1.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for operational activities described in Master IDIQ Section C.5.1.1. for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Prepare for sludge sampling of the MV storage tanks, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete sludge sampling tool design, fabrication and testing.</u></li> <li>○ <u>Complete DQO/SAP for MVST sludge sampling.</u></li> <li>○ <u>Complete work package development for MVST sludge sampling.</u></li> </ul> </li> <li>• <u>Initiate support for sludge mobilization planning required to complete sludge retrieval and transfer operations to the MVSTs, including:</u> <ul style="list-style-type: none"> <li>○ <u>Technical evaluation of dilute disposition methodologies.</u></li> <li>○ <u>Complete cost/benefit analysis of potential dilute disposition methodologies.</u></li> <li>○ <u>Complete conceptual design for potential dilute disposition methodologies.</u></li> </ul> </li> <li>• <u>Complete initial Preliminary Completion Strategy (Concepts and Preliminary Focus of Direction) for LGWO Systems with conceptual options and ROMs.</u></li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
<p>C.5.1.2 <i>LGWO</i>  <i>Life Extension</i>  <i>Initiatives</i></p>	<ul style="list-style-type: none"> <li>• Complete digital control system (DCS) Installation, Start-Up/Operational Testing, and Subcontractor Demobilization.</li> <li>• Complete 7966A Roof replacement.</li> <li>• Complete replacement of specific segments of 3608 above-grade piping, including:               <ul style="list-style-type: none"> <li>○ Install the F-1026 Acid Line.</li> <li>○ Install the J-1002-C Jet Mixer line.</li> <li>○ Install the Zeolite to F-1002 line.</li> <li>○ Install the F-1050 Surge Tank to Zeolite Line.</li> <li>○ Install the F-1050 Acid Line.</li> <li>○ Install the F-1022 Sludge Holding System.</li> <li>○ Install the F-1025-A&amp;B Caustic System.</li> <li>○ Install the F-1001 Metals System, Pulse Jets 1001C</li> <li>○ Install the F-1001 Metals Tank to F1003 Rapid Mix Tank</li> <li>○ Install the F-1002 Non-Metals System: Pulse Jet 1002C</li> <li>○ Install the F-1003 Rapid Mix System</li> <li>○ Install the GAC to F-1001 Recycle Line</li> <li>○ Install the Tanker Unloading Station tie to F1024</li> <li>○ As-built drawings of all pipelines listed above.</li> </ul> </li> <li>• Complete 3039 Stack Inspection for Repair/Maintenance Recommendation and complete installation of new ladder glide lock arrest system.</li> <li>• Complete 2600 dike repair.</li> <li>• Complete Bethel Valley sludge sampling.</li> </ul>	



<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>• Complete filter press initial design and initiate work control and corresponding DCNs.</li> <li>• Complete LGWO steam turbine and control station upgrade.</li> <li>• Complete LGWO granulated activated carbon (GAC) Column to Backwash Upgrade (including the out of service GAC and 1021 piping removals needed to complete).</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Complete replacement of 3608 above-grade piping and as-built drawings, including installation of tie-in(s) to tanker unloading station and the following remaining segments:</u> <ul style="list-style-type: none"> <li>○ <u>F1006 to F1050</u></li> <li>○ <u>F1008</u></li> <li>○ <u>F1032</u></li> </ul> </li> <li>• <u>Complete 3039 Stack repair recommendations, including:</u> <ul style="list-style-type: none"> <li>○ <u>Project oversight and support,</u></li> <li>○ <u>Subcontract modification(s),</u></li> <li>○ <u>Work package development,</u></li> <li>○ <u>Remobilization,</u></li> <li>○ <u>Stack interior sampling and analysis,</u></li> <li>○ <u>Stack repairs,</u></li> <li>○ <u>Demobilization, and Completion documentation, including as-builts.</u></li> </ul> </li> <li>• <u>Continue project planning and preparations for filter press replacement, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete filter press subcontract award;</u></li> <li>○ <u>Complete manufacturing and quality control site visit and witness the Filter Press Functional</u></li> </ul> </li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p><u>Acceptance Testing;</u></p> <ul style="list-style-type: none"> <li>○ <u>Complete Filter Press piping fabrication;</u></li> <li>○ <u>Complete work package(s) and submittals for filter room access;</u></li> <li>○ <u>Create filter room access;</u></li> <li>○ <u>Mobilize for filter press installation;</u></li> <li>○ <u>Complete Filter Press Delivery for installation; and,</u></li> <li>○ <u>Complete project oversight through mobilization for filter press installation and receipt of filter press delivery.</u></li> </ul> <ul style="list-style-type: none"> <li>● <u>Initiate 2600 above-grade piping replacement, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete WHP and Waste Profile for 2600 and 7961 piping replacement wastes.</u></li> <li>○ <u>Complete F2103 Jet Mixers and Tank Trim Piping replacement and as-built drawings.</u></li> </ul> </li> <li>● <u>Provide project oversight, materials, and consumables through completion of the F2103 segment.</u></li> </ul>	
<i>C.5.2.1 Melton Valley Solid Waste Storage Facility Operations and Maintenance</i>	<ul style="list-style-type: none"> <li>● Provide safe, compliant, and cost-effective operations and maintenance of the Melton Valley Solid Waste Storage Facilities and storage of solid contact-handled (CH) and remote-handled (RH) TRU waste in RCRA-permitted storage facilities located at ORNL and perform CH and/or RH TRU waste transfers and movement from accessible ORNL storage facilities and deliver it to the Transuranic Waste Processing Center (TWPC) to support completion of shipments to the WIPP in accordance with applicable requirements, pending</li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>transition of operational responsibility for the TWPC.</p> <ul style="list-style-type: none"> <li>• Perform receipts of newly-generated TRU waste from the Office of Science to ORNL storage facilities.</li> <li>• Complete venting process and disposal of two chemical traps in TRU waste storage and disposal of blue spill pallets and waste electric forklift at Building 7572.</li> <li>• Complete 60-day transition and readiness to accept full responsibility for the TRU Waste Processing Facility Complex (TWPC) and workforce by October 26, 2022.</li> <li>• Subsequent to completion of the TWPC transition, assume responsibility for all operational activities described in Master IDIQ Section C.5.2.1.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for all operational activities described in Master IDIQ Section C.5.2.1 for the period 7/24/2023 through 11/26/2023, including MV Storage Facility operations and maintenance, TRU waste retrievals and transfers, and TWPC operations and maintenance.</u></li> <li>• <u>Continue receipts of newly-generated TRU waste from the Office of Science to ORNL storage facilities.</u></li> <li>• <u>Complete inspection, characterization, repackaging, and disposal of the SWSA 5 forklift and dumpster legacy waste.</u></li> <li>• <u>Complete processing of NFS Waste Boxes 8 through 12.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Assume existing limited areas will be maintained and new limited areas will be established, as necessary, to support all activities necessary for the storage, movement, processing, certification, and shipment of classified waste. These activities shall include required paperwork/documentation, coordination, and facility modifications.</u></li> </ul>
C.5.2.2, TRU Shipment Support	<ul style="list-style-type: none"> <li>• Subsequent to completion of the TWPC Transition authorized in C.5.2.1, assume</li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p>responsibility for all operational activities described in Master IDIQ Section C.5.2.2.</p> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for all operational activities described in Master IDIQ Section C.5.2.2 for the period 7/24/2023 through 11/26/2023.</u></li> </ul>	
C.5.3.1, <i>ORNL Surveillance and Maintenance</i>	<ul style="list-style-type: none"> <li>• Continue responsibility for operational activities described in Master IDIQ Section C.5.3.1, except transition of the Building 3019 and Building 2026 complexes will not occur during this Subtask POP.</li> <li>• Include Security Patrol coverage for Reeves Road.</li> <li>• Include electrical preventative maintenance craft support.</li> <li>• Accept operational responsibility for Building 3037 and complete known repairs in preparation for occupancy by onsite workforce.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for operational activities described in Master IDIQ Section C.5.3.1 for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Continue Security Patrol coverage for Reeves Road for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Provide surveillance and maintenance of Reeves Road for the period 7/24/2023 through 11/26/2023 within existing budgeted C.5.3.1 resources.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Transition of the Building 3019 and Building 2026 complexes will not occur during this Subtask POP.</u></li> <li>• <u>The Office of Science will complete identified repairs to Reeves Road prior to 7/24/2023.</u></li> </ul>
C.5.3.2, <i>ORNL Environmental Monitoring</i>	<ul style="list-style-type: none"> <li>• Continue responsibility for operational activities described in Master IDIQ Section C.5.3.2.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for operational activities described in Master IDIQ</u></li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<u>Section C.5.3.2 for the period 7/24/2023 through 11/26/2023.</u>	
<i>C.5.3.3, Molten Salt Reactor Experiment Complex Enhanced Surveillance and Maintenance</i>	<ul style="list-style-type: none"> <li>• Complete installation and system testing of the continuous purge system.</li> <li>• Complete MSRE Drain Tank Cell (DTC) off gas sampling prior to startup.</li> <li>• Initiate Readiness Assessment for system startup.</li> </ul> <u>REVISION 2:</u> <ul style="list-style-type: none"> <li>• <u>Complete Contractor Readiness Assessment for system start-up and associated start-up oversight.</u></li> </ul>	
<i>C.5.4.1, Y-12 Surveillance and Maintenance</i>	<ul style="list-style-type: none"> <li>• Continue responsibility for operational activities described in Master IDIQ Section C.5.4.1.</li> <li>• Continue characterization, processing, and disposal of additional waste items at Y-12 9720-60 (burial ground area), including railroad ties.</li> </ul> <u>REVISION 2:</u> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for operational activities described in Master IDIQ Section C.5.4.1 for the period 7/24/2023 through 11/26/2023.</u></li> </ul>	
<i>C.5.4.2, Y-12 Environmental Monitoring</i>	<ul style="list-style-type: none"> <li>• Continue responsibility for operational activities described in Master IDIQ Section C.5.4.2.</li> </ul>	
	<u>REVISION 2:</u> <ul style="list-style-type: none"> <li>• <u>Continue responsibility for operational activities described in Master IDIQ Section C.5.4.2 for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Continue ORR Groundwater Program for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Continue Bethel Valley Groundwater Phase I Remedial Investigation Work Plan, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete Synoptic Water Level Measurements for the first quarter</u></li> </ul> </li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<p style="text-align: center;"><u>of FY 2024.</u></p> <ul style="list-style-type: none"> <li>○ <u>Complete planning for installation of wells at Corehole 8 Plume.</u></li> </ul>	
<p><i>C.5.5.1, EMWMF and EMDF Management, Waste Acceptance Criteria Attainment, and Operations</i></p>	<ul style="list-style-type: none"> <li>● Continue operational activities for the EMWMF described in Master IDIQ Section C.5.5.1.</li> <li>● Initiate the Bear Creek Valley Remedial Site Evaluation review of current mercury sources through evaluation of historical information on source areas using environmental characterization, long-term monitoring, and existing biota data.</li> <li>● The EMDF will not be operational during this Subtask POP.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>● <u>Continue operational activities for the EMWMF described in Master IDIQ Section C.5.5.1 for the period 7/24/2023 through 11/26/2023.</u></li> <li>● <u>Complete installation of new wells west of EMWMF and document in annual EMWMF PCCR.</u></li> <li>● <u>Continue Bear Creek Valley Remedial Site Evaluation, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete SAP, D0 and D1 including transmittals to DOE.</u></li> <li>○ <u>Complete Bear Creek Sediment Sampling, Analysis, Data V&amp;V.</u></li> <li>○ <u>Complete Bear Creek Surface Water Sampling, Analysis, Data V&amp;V.</u></li> <li>○ <u>Complete Fish Tissue Data Evaluation.</u></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● <u>Operations for the EMDF are not included in this Subtask Revision 2.</u></li> </ul>
<p><i>C.5.5.2, ORR Sanitary, Industrial, and Construction and Demolition Landfills</i></p>	<ul style="list-style-type: none"> <li>● Continue operational activities for the ORR landfills described in Master IDIQ Section C.5.5.2.</li> <li>● Complete Landfill V expansion for sufficient capacity.</li> </ul> <p><u>REVISION 2:</u></p>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>• <u>Continue operational activities for the ORR landfills described in Master IDIQ Section C.5.5.2 for the period 7/24/2023 through 11/26/2023.</u></li> </ul>	
<i>C.5.6.1, MTF Construction Support</i>	<ul style="list-style-type: none"> <li>• Continue to provide construction support to OREM during the Outfall (OF) 200 Mercury Test Facility (MTF) construction by another OREM prime contractor, including (but not limited to):               <ul style="list-style-type: none"> <li>○ Special Inspections;</li> <li>○ development of system acceptance tests and integrated test plan;</li> <li>○ maintenance of OF200 Office Trailers/Parking Area;</li> <li>○ supervisory control and data acquisition (SCADA) programming support;</li> <li>○ Title III services during construction;</li> <li>○ Project management and oversight support during construction; and,</li> <li>○ Startup and Operations readiness preparation, including development of Operations Management Assessment Plan, Waste Management Plan, Facility/Infrastructure Plan, Transition to Operations Plan, Operations Staffing Plan, Spare Parts List, Checkout/Testing/Commissioning Plan, updated Project Hazards Analysis, Operations Test Procedures, Preventative Maintenance Plan, and Maintenance Procedures for major equipment items.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Assume operations support team/key operations personnel (especially Operations Test Manager) in place 2-years in advance of operational turnover of the MTF from construction contractor.</li> </ul>
<i>C.5.7.1, ETTP Site Closure</i>	<ul style="list-style-type: none"> <li>• Continue disposal of sludge from Rarity Ridge wastewater treatment plant.</li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>• Complete planning and subcontract procurement for removal of waterway structural and material hazards, including the water intake facility at the Powerhouse and miscellaneous fencing, fence posts, and concrete docks, modifying active outfalls and pipes, and removing inactive outfalls and pipes.</li> <li>• Complete OF690 stormwater re-route.</li> <li>• Complete planning and subcontract procurement for other stormwater drains, including OF490 and Poplar Creek, and video investigation as necessary to determine if piping is structurally viable, consistent with overall site plan for stormwater.</li> <li>• Complete removal and disposition of remaining site structures not supporting ETTP Remedial Actions.</li> <li>• Plan and procure the disposition of K-1250-2 and 3 bridges.</li> <li>• Continue heavy equipment and artifact disposition.</li> <li>• Continue removal of Zone 1 miscellaneous concrete structures but not at the expense of critical path remedial actions.</li> <li>• Initiate removal of hydrants, bollards, PIVs, and guardrails at ETTP.</li> <li>• Develop Work Plan and/or other work documents as needed and evaluate the Zone 2 duct banks.</li> <li>• Develop a report of findings proposing a final end state for the Zone 2 duct banks based on a case-by-case basis including but not limited to filling in, demolishing in place, abandoning, etc. while ensuring the evaluation of future safety interests particularly in high-trafficked areas.</li> </ul>	



<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue disposal of sludge from Rarity Ridge wastewater treatment plant for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Complete Final Request for Proposal and Certified-for-Construction Design for Phase I ETTP Road Repairs that will include:</u> <ul style="list-style-type: none"> <li>○ <u>Victorious Blvd West from Perimeter Road, west to the section of Victorious Blvd West previously transferred;</u></li> <li>○ <u>Victorious Blvd East from Heritage Center Blvd;</u></li> <li>○ <u>Americus Blvd from Chromium St, north to Zirconium Street;</u></li> <li>○ <u>Intersection at Perimeter Road and Victorious Blvd West; and,</u></li> <li>○ <u>Removal of railroad tracks on Victorious Blvd West.</u></li> </ul> </li> <li>• <u>Complete Final Request for Proposal and Certified-for-Construction Design for ETTP Mitchell Branch Storm Water Reroute.</u></li> </ul>	
C.5.7.2, <i>ETTP Historic Preservation</i>	<ul style="list-style-type: none"> <li>• Provide Title III support during implementation of the final Certified for Construction design, after DOE makes a final construction acquisition decision.</li> <li>• Complete fabrication of wayside exhibits.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue responsibilities of the ORRCC Contractor described in Attachment J-3-3, <i>ETTP Historic Preservation Responsibility Matrix</i>, for the period 7/24/2023 through 11/26/2023.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Complete responsibilities as described in the Attachment J-3-3, <i>TO-3 Revision 2 Interfaces, ETTP Historic Preservation Responsibility Matrix.</i></u></li> <li>• <u>The Viewing Platform Site Improvements will</u></li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
		<u>follow completion of ETTP Soils Remediation fieldwork.</u>
<i>C.5.7.3, ETTP Surveillance and Maintenance and Environmental Monitoring</i>	<ul style="list-style-type: none"> <li>• Continue the following activities:               <ul style="list-style-type: none"> <li>○ Operation of Chromium Water Treatment System including, but not limited to, system evaluation and/or corrective maintenance/repairs or rebuild of the system as required by the 5-Year Review,</li> <li>○ Electrical utilities for the ETTP site,</li> <li>○ ETTP Site Mowing,</li> <li>○ Snow and ice removal from sidewalks and parking areas,</li> <li>○ Minor sidewalk repairs,</li> <li>○ Minor parking lot repair,</li> <li>○ Minor road repairs,</li> <li>○ Water and Sewage Utilities for the ETTP site,</li> <li>○ NHP exterior maintenance,</li> <li>○ ETTP Environmental Monitoring/Water Quality Program.</li> <li>○ Characterization, profile development, and disposal of any waste generated during S&amp;M activities.</li> </ul> </li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue the following activities for the period 7/24/2023 through 11/26/2023:</u> <ul style="list-style-type: none"> <li>○ <u>Operation of Chromium Water Treatment System including, but not limited to, system evaluation and/or corrective maintenance/repairs or rebuild of the system as required by the 5-Year Review;</u></li> <li>○ <u>Electrical utilities for the ETTP site;</u></li> <li>○ <u>ETTP Site Mowing;</u></li> <li>○ <u>Snow and ice removal from</u></li> </ul> </li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<p><u>sidewalks and parking areas;</u></p> <ul style="list-style-type: none"> <li>○ <u>Minor sidewalk repairs;</u></li> <li>○ <u>Minor parking lot repair;</u></li> <li>○ <u>Minor road repairs;</u></li> <li>○ <u>Water and Sewage Utilities for the ETPP site;</u></li> <li>○ <u>NHP exterior maintenance;</u></li> <li>○ <u>ETPP Environmental Monitoring/Water Quality Program;</u></li> <li>● <u>Characterization, profile development, and disposal of any waste generated during S&amp;M activities; and,</u></li> <li>● <u>Associated project management and support.</u></li> <li>● <u>Complete inspecting, repackaging, and disposition of three drums of wall display plaques containing radioactive materials.</u></li> </ul>	
<i>C.5.8, Legacy Waste Disposition</i>	<ul style="list-style-type: none"> <li>● Continue treatment and disposition of Dioxin and Furan waste per recent Treatability Study report, including refinement of the dioxin and furan treatment protocol.</li> <li>● Continue to evaluate Treatment and Disposal of newly-discovered ETPP High RAD LLW Container, assuming this scope is UE D&amp;D funded.</li> <li>● Continue radiological characterization of the following Master IDIQ Attachment J-12 waste containers stored at the ORNL 7822K Pad:           <ul style="list-style-type: none"> <li>○ X10C9601285</li> <li>○ X10C0010384</li> <li>○ X10C9800357</li> <li>○ X10C9601297</li> <li>○ X10C9600857</li> <li>○ X10CSLLN007648</li> <li>○ X10C9800379</li> </ul> </li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<ul style="list-style-type: none"> <li>○ X10CSLLN008171</li> <li>○ X10C9501078</li> </ul> <p><b>REVISION 2:</b></p> <ul style="list-style-type: none"> <li>● <u>Complete Non-Destructive Assay (NDA) and NDA Reports for 6 vaults stored at ORNL 7822K Pad.</u></li> <li>● <u>Complete research on vendors capable of processing the ETP cesium canister and Site Treatment Plan status reporting requirements.</u></li> <li>● <u>Complete safety basis modification for Sodium Lithium shields for disposition.</u></li> </ul>	
<i>C.5.9.2, Design Basis Threat Mitigation</i>	<ul style="list-style-type: none"> <li>● Resolve and incorporate comments as required to obtain approval of Design Basis Threat implementation plan and begin implementation of mitigating actions.</li> </ul> <p><b>REVISION 2:</b></p> <ul style="list-style-type: none"> <li>● <u>Complete DBT Mitigation implementation, including:</u> <ul style="list-style-type: none"> <li>○ <u>Complete Federal Risk Acceptance Package;</u></li> <li>○ <u>Complete Validation Plan;</u></li> <li>○ <u>Complete Compliance Letter; and,</u></li> <li>○ <u>Complete project management and project support through approval of compliance.</u></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● <u>No physical facility upgrades will be necessary to support implementation of the order.</u></li> </ul>
<i>C.6, Core Functions</i>	<ul style="list-style-type: none"> <li>● Continue to establish and implement programs to perform the cleanup mission of the ORRCC safely and effectively for all authorized PWS work per Master IDIQ Section C.6.</li> <li>● Subtask 1-03-03 is planned to be issued unilaterally as authorized unpriced work following receipt of the Contractor's Subtask proposal and will be definitized within 180-days of proposal receipt.</li> <li>● Proposals will be requested and negotiated for Subtasks-1-03-04 through 10 prior to the end of the POP.</li> </ul>	

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
	<ul style="list-style-type: none"> <li>• A graded approach for the IBR for initial post-transition Subtasks will be implemented.</li> <li>• Complete conceptual design (30%) for relocation of the Transportation hub from ETTP to support cleanup at Y-12 and ORNL and closure of ETTP.</li> <li>• Complete annual block training for FY 2023.</li> </ul> <p><u>REVISION 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue to establish and implement programs to perform the cleanup mission of the ORRCC safely and effectively for all authorized PWS work per Master IDIQ Section C.6 for the period 7/24/2023 through 11/26/2023.</u></li> <li>• <u>Complete PEMS replacement and documentation for the Phoenix software.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>DOE and Contractor will partner on a tailored approach for Integrated Baseline Review(s) described in Master IDIQ Section H.16(d). Assume the initial Integrated Baseline Review will be combined for Task Order-02 and Task Order-03 Subtasks 1-03-03, 1-03-04, 1-03-05, 1-03-06, 1-03-07, 1-03-08-01, 1-03-08-02, 1-03-09, 1-03-10, 1-03-13, and 1-03-17 and completed within 60 days of the final Subtask award.</u></li> <li>• <u>DOE will complete Master IDIQ Deliverables M-001, M-002, and M-055 with input from the Contractor, as requested.</u></li> </ul>
<i>C.6.1.3, Health and Safety</i>		<ul style="list-style-type: none"> <li>• <u>Approximately 50 OREM employees will require comprehensive health screening and medical surveillance</u></li> </ul>

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
		<u>services annually.</u>
C.6.1.4, <i>Radiation Protection</i>		<ul style="list-style-type: none"> <li>• <u>Approximately 75 OREM representatives will require ongoing radiation monitoring and reporting.</u></li> </ul>
C.6.1.9, <i>Engineering</i>	<ul style="list-style-type: none"> <li>• <u>Complete procurement and commissioning of two next-generation NDA equipment units with shielding and support systems.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Continue as the design authority for the ETPP NHP Viewing Platform and Site Improvements through completion of PWS C.5.7.2, as authorized in TO-10.</u></li> </ul>
C.6.1.18, <i>Audit Support Services</i>		<ul style="list-style-type: none"> <li>• <b><u>Real property and financial statement audit will be tested against new Federal Accounting Standards beginning in FY 2024.</u></b></li> </ul>
C.6.1.20, <i>Other Program activities</i>	<ul style="list-style-type: none"> <li>• Relocate trailers K-2527AC and K-2527AD from their current location (ED-11A) to the Northwest area of the parking lot South of K-1036.</li> </ul>	
C.6.2.1, <i>Reservation Management:</i>	<ul style="list-style-type: none"> <li>• Includes GFC of \$2,983,451.</li> </ul> <p><b><u>REVISION 2:</u></b></p> <ul style="list-style-type: none"> <li>• <u>Includes additional GFC of \$1,149,596 for the period 7/24/2023 through 11/26/2023.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Guidance will be obtained from the Office of Science to estimate Reservation Management contributions in accordance with annual site wide requirements.</u></li> <li>• <u>This PWS subsection is non-fee bearing (SubCLIN 1-3-3c).</u></li> </ul>

<b>RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives</b>		
<b>PWS Subsection</b>	<b>Completion Objective</b>	<b>Assumptions</b>
<i>C.6.2.2, Reindustrialization</i>		<ul style="list-style-type: none"> <li>• <u>Includes development and maintenance of land maps which show land parcels available for reuse and intended transfers.</u></li> </ul>
<i>C.6.2.3, Emergency Response</i>		<ul style="list-style-type: none"> <li>• <u>ETTP fire protection and emergency response will be provided by the City of Oak Ridge.</u></li> <li>• <u>Fire and emergency response at ORNL and Y-12 will be provided through site usage fees at each respective site.</u></li> </ul>
<i>C.6.2.4, Technology Development</i>	<ul style="list-style-type: none"> <li>• Continue East Fork Poplar Creek water chemistry manipulation, soil/sediment source zone stabilization and isolation, and ecological manipulation and enhancement studies.</li> <li>• Continue Bear Creek periphyton studies.</li> <li>• Continue planning and documentation of Technology Demonstrations to be performed by others.</li> <li>• Complete the final Certified for Construction (CFC) design and subcontract procurement for DARA facility modifications to provide a test facility for ORNL and Y-12 cleanup projects.</li> </ul> <p><u>Revision 2:</u></p> <ul style="list-style-type: none"> <li>• <u>Continue Technology Development, ensuring continuity of ongoing studies through FY 2024.</u></li> <li>• <u>Complete subcontract award, test plan, field demonstration preparation and support, and Summary Report for the third Technology Demonstration</u></li> </ul>	

RFTP Section 3.0 Subtask Specific Assumptions and Completion Objectives		
PWS Subsection	Completion Objective	Assumptions
	<u>(demonstration to be performed by others).</u>	
C.6.2.8, <i>Waste Management</i>		<ul style="list-style-type: none"> <li>• <u>Rather than providing a waste generation forecast for all cleanup scope in the Master IDIQ Contract, DOE has agreed to receive a waste generation forecast with each Subtask proposal for each PWS subsection that will result in the generation of waste.</u></li> </ul>
C.6.2.11.1, <i>ORNL Site Usage Fees</i>	<ul style="list-style-type: none"> <li>• Include estimated site usage fees for total applicable ORRCC onsite workforce for FY 2023 (12 months).</li> </ul>	
C.6.2.11.2, <i>Y-12 Site Usage Fees</i>	<ul style="list-style-type: none"> <li>• Include estimated site usage fees for total applicable ORRCC onsite workforce for FY 2023 (12 months).</li> </ul>	

**4.0 APPLICABLE DIRECTIVES**

In addition to the Directives included in the Master IDIQ Contract, additional Directives are included in Attachment J-2 to this Subtask.

**6.0 DELIVERABLES**

In addition to the Deliverables included in the Master IDIQ Contract, additional Deliverables are included in Attachment J-7 to this Subtask.

**7.0 GOVERNMENT-FURNISHED SERVICES AND ITEMS**

In addition to the Government-Furnished Services and Items included in the Master IDIQ Contract, additional Government-Furnished Services are included in Attachment J-8 to this Subtask.

**8.0 PERFORMANCE OBJECTIVES AND STANDARDS**



The performance requirements, made up of objectives and respective standards, for this Subtask will be used to determine whether the work requirements have been met. The performance measures are included in the Performance Evaluation and Measurement Plan.

## **Section D – Packaging and Marking**

Section D of the Master IDIQ Contract is incorporated by reference.

## **Section E – Inspection and Acceptance**

In addition to the following requirements, Section E of the Master IDIQ Contract is incorporated by reference:

### **E.1 Inspection and Acceptance Delegation**

In accordance with Clause E.2, DOE-E-2001, Inspection and Acceptance, the Contracting Officer assigns inspection and acceptance of all items to the Contracting Officer's Representative; however, the Contracting Officer's Representative is not authorized to accept nonconforming items or services.

## **Section F – Deliveries or Performance**

Section F of the Master IDIQ Contract is incorporated by reference. The requisite clause information specific to this Subtask included below is consistent with the clause numbering structure established by the Master IDIQ Contract.

### **F.3 Period of Performance**

- (a) The estimated Subtask Period of Performance (POP) is estimated to be October 1, 2022 – ~~July 23, 2023~~November 26, 2023, for operations PWSs. The estimated POP for cleanup PWSs is October 1, 2022 – March 31, 2025. The Subtask POP will continue through completion of the cleanup scope and through ~~July 23, 2023~~November 26, 2023, for the level-of-effort operations included in the Subtask Section C 3.0, *Scope*.
- (b) The Contractor shall not be paid for work performed or costs incurred prior to the Subtask effective date, unless specifically authorized by the Contracting Officer.

## **Section G – Contract Administration Data**

Section G of the Master IDIQ Contract is incorporated by reference in addition to the following:

### **G.1 Subtask Administration**

To promote timely and effective contract administration, correspondence delivered to the Government under this Subtask, shall reference the contract number, Task Order number, Subtask number, and subject matter, and shall be subject to the following procedures:

- (a) Technical correspondence. Technical correspondence shall be addressed to the COR for this Subtask, and a copy of any such correspondence shall be sent to the CO for this Subtask, with an informational copy to the Contract COR and Contract CO. As used herein, technical correspondence does not include correspondence where patent or rights in data issues are involved, nor technical correspondence that proposes or involves waivers, deviations, or modifications to the requirements, terms, or conditions of this Contract.
- (b) Information regarding correspondence addresses and contact information will be provided through official correspondence:
  - (1) Subtask Contracting Officer
    - (A) Name: Natasha White
    - (B) Telephone number: 865-576-2397
    - (C) Address:  
U.S. Department of Energy  
Oak Ridge Office of Environmental Management  
200 Administration Road  
Oak Ridge, TN 37830
    - (D) Email address: natasha.white@orem.doe.gov
  - (2) Subtask Contracting Officer's Representative
    - (A) Name: Nathan Felosi
    - (B) Telephone number: 865-576-3323
    - (C) Address:  
U.S. Department of Energy  
Oak Ridge Office of Environmental Management  
200 Administration Road  
Oak Ridge, TN 37830
    - (D) Email address: Nathan.felosi@orem.doe.gov

## **Section H – Special Contract Requirements**

In addition to the following requirements, Section H of the Master IDIQ Contract is incorporated by reference:

## **Section I – Contract Clauses**

In addition to the following requirements, Section I of the Master IDIQ Contract is incorporated by reference:

## Section J – List of Documents, Exhibits, and Other Attachments

In addition to the following requirements, Section J of the Master IDIQ Contract is incorporated by reference:

1. Section J-3 – Interfaces

Attachment J-3-3 includes the following additional interfaces applicable to the TO-3 Revision 2 scope of work:

### Attachment J-3-3 ETTP Historic Preservation Responsibility Matrix

This matrix summarizes the roles and responsibilities for the various contractor entities involved in the completion of the remaining stipulations of the Memorandum of Agreement for Decommissioning and Demolition of the K-25 Site and Interpretation of the East Tennessee Technology Park on the Oak Ridge Reservation including Oak Ridge Reservation Cleanup Contractor responsibilities described in Performance Work Statement Section C.5.7.2

<u>Activity</u>	<u>USACE Construction Contractor *</u>	<u>USACE **</u>	<u>ORRCC Contractor ***</u>
<u>Viewing Platform</u>			
<u>Viewing Platform Construction</u>	<u>Construction (Viewing Platform facility, walkways)</u>	<u>Construction management for Viewing Platform</u>	<u>Title III Services</u> <u>As-built drawings</u> <u>Excavation and penetration permit(s)</u> <u>RAD protection</u> <u>Procure and install front desk</u>
<u>Viewing Platform Construction Debris</u>	<u>Waste packaging and disposal</u>	<u>Construction management for Viewing Platform waste disposal</u>	<u>Disposal authorization at DOE landfill sites</u> <u>Support for clean spoils disposal</u>
<u>Viewing Platform Site Improvements</u>			

<u>Activity</u>	<u>USACE Construction Contractor *</u>	<u>USACE **</u>	<u>ORRCC Contractor ***</u>
<u>Viewing Platform Site Improvements</u>	<u>Construction of K-25 Footprint Delineation (road improvements, visual markers, Wayside Exhibit Frames)</u>	<u>Construction management for Footprint Delineation</u>	<u>Title III Services</u> <u>As-built drawings</u> <u>Excavation and penetration permit(s)</u> <u>RAD protection</u> <u>Schedule coordination with ETPP RA Project</u> <u>Fabrication and installation of graphic panels in Wayside Exhibit frames</u>
<u>Viewing Platform Site Improvements Construction Debris</u>	<u>Waste packaging and disposal</u>	<u>Construction management for Footprint Delineation waste disposal</u>	<u>Support for clean spoils disposal</u>
<u>Viewing Platform Exhibits</u>		<u>Facilitate access to UCOR and UCOR's subcontractor for exhibit fabrication and installation, to verify final measurements; turn over access from USACE construction contractor to UCOR and UCOR exhibit fabrication/installation contractor for installation of exhibits.</u>	<u>Production Ready Art</u>  <u>Fabricate and install the changeable, non-permanent exhibits and displays.</u>
<u>Telecommunications</u>	<u>Demobilize to enable work to proceed</u>	<u>Construction management for demobilization</u>	<u>Procure and install telecommunications equipment after USACE completes construction of Viewing Platform</u>
<u>External Communications</u>	<u>None</u>	<u>None</u>	<u>Support DOE OREM in communications with the NHP Consulting Parties, including semi-annual report</u>

<u>Activity</u>	<u>USACE Construction Contractor *</u>	<u>USACE **</u>	<u>ORRCC Contractor ***</u>
<u>K-25 Artifacts</u>	<u>None</u>	<u>None</u>	<u>Manage historic artifacts.</u> <u>Maintain a database of identified artifacts.</u> <u>Support DOE in property movements for excess artifacts not retained</u>
<u>*Assumes USACE will acquire and administer two single firm fixed price construction contracts for all identified NHP construction activities in accordance with OREM design.</u>			
<u>** Construction management assumes operational responsibility for the construction site footprint will be transferred to USACE for the duration of construction activities.</u>			
<u>*** The ORRCC Contractor will acquire and administer subcontract with Professional Site Design Team and Museum Professional required for assigned responsibilities.</u>			
<u>Acronyms:</u>			
DOE	Department of Energy	RA	Remedial Action
NHP	National Historic Preservation	RAD	Radiological
OREM	Oak Ridge Office of Environmental Management	USACE	United States Army Corps of Engineers
ORRCC	Oak Ridge Reservation Cleanup Contract		

**2. Section J-5 – Small Business Subcontracting Goals**

The following goals for this Subtask are appended to the Master Small Business Subcontracting Plan:

**Table J-5-1. Subtask Small Business Subcontracting Goals**

Category	Total to be Subcontracted (\$)	Minimum Small Business Goals as a percent of total subcontracted dollars
Small Business (categories below are subsets within this category)	<u>\$164,518,291</u>	45%
Other Small Business Subcontracts	<u>\$95,055,012</u>	19%
Veteran-Owned Small Business (VOSB)	<u>\$10,967,886</u>	3%
Service-Disabled Veteran-Owned Small Business (SDVOSB)	<u>\$10,967,886</u>	3%
Historically Underutilized Business Zone (HUBZone)	<u>\$10,967,886</u>	3%

Small Disadvantaged Business	<u>\$18,279,810</u>	5%
Women-owned Small Business	<u>\$18,279,810</u>	5%

In accordance with Clause H.52, *Subcontracted Work*, Government-Provided Costs for Reservation Management and Post-Retirement Benefits and Long-Term Disability and Pension Contribution, and estimated costs for services acquired under parent organization support plan and for the site usage fees provided to other site contractors are included in the Subtask value, but not included in the cumulative Subtask value for subcontracting goals, are provided in Table J-5-2.

**Table J-5-2. Government-Provided and Estimated Costs Not Included in Subcontracting Goals**

Reservation Management	<u>\$4,133,047</u>
Post-Retirement Benefits and Long-Term Disability and Pension Contribution	<u>\$31,915,370</u>
Site Usage Fees	<u>\$2,473,358</u>
Services Acquired under Parent Organization Support Plan	<u>\$4,440,403</u>

3. Attachment J-7, Contract Deliverables, includes the following additional deliverables for this Subtask:

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
T3-001	Performance Measurement Baseline (updates for TO-03, TO-04, TO-05, TO-06, TO-07, TO-08, TO-09, TO-10)	Draft with each Subtask Proposal; Final Within 30 days of each Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i>
T3-002	Integrated Master Schedule (updates for TO-03, TO-04, TO-05, TO-06, TO-07, TO-08, TO-09, TO-10)	Draft with each Subtask Proposal; Final Within 30 days of each Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i>
T3-003	Subtask Metrics and Milestone Plan	Draft with each Subtask Proposal; Final within 30 days of each Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i>

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
T3-004	Waste Generation Forecast and Baseline Low-Level Waste and Material Disposition Data Update	Draft with each Subtask Proposal; Final within 30 days of each Subtask issuance	Approve – 30 days	Section C.6.1.1, <i>Project Support Performance Requirements</i> Section H.51, <i>Task Ordering Procedure</i> DOE Manual 435.1-1, <i>Radioactive Waste Management</i>
T3-005	Declaration that Adopted ETTP Contract Programs and Procedures have been updated to new organization	By 2/28/2023	Information	Section C.1.1(d), <i>Incoming Transition Programs and Procedures</i>
T3-006	Declaration of Readiness to accept responsibility for operation of the TWPC	No Later Than 10/16/2022	Approve – 10 days	Section C.5.2.1, <i>Melton Valley Solid Waste Storage Facility Operations and Maintenance</i>
T3-007	Y-12 - North Tributary 8 AM - EE/CA, D0 to DOE	7/06/2023	**	C.3.2.27, <i>Bear Creek Valley NT-8 Action Memo and removal Action</i> CERCLA and FFA
T3-008	ETTP - Final ETTP Main Plant Area Groundwater ROD - Interim Record of Decision, D1 to DOE	09/11/2023	**	C.3.3.3.1, <i>ETTP ROD Development</i> CERCLA and FFA
T3-009	ETTP - Zone 2 Soil ROD - EU 42 – PCCR, D2 Addendum to DOE	1/26/2023	**	C.3.3.2, <i>Zone 2 Soil</i> CERCLA and FFA
T3-010	Updated MSRE Groundwater Model after one-year of monitoring data collection	<del>By 7/31/2023</del> <u>By 8/31/2023</u>	Information	C.3.1.21, <i>Molten Salt Reactor Experiment Complex</i>
T3-011	Reserved			

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
T3-012	EMDF Critical Decision documentation for early site preparation activities	4/28/2023	Approve – 90 days	C.4.1, <i>CERCLA Disposal Facility Design</i> DOE O 413.3B
T3-013	ETTP - K-31/K-33 Groundwater ROD – ROD, D1 to DOE	7/11/2023	**	C.3.3.3.1, <i>ETTP ROD Development</i> CERCLA and FFA
T3-014	Reserved			
T3-015	EMDF Critical Decision documentation for Groundwater Field Demonstration	Within 60 days of GWFD RDWP, D2 approval	Approve – 90 days	C.4.1, <i>CERCLA Disposal Facility Design</i> DOE O 413.3B
T3-016	ORNL - Final BV ROD - MV/BV Groundwater Exit Pathway - Characterization Report, D0 to DOE	By 7/31/2023	**	C.5.4.2, <i>Y-12 Environmental Monitoring</i> CERCLA and FFA
T3-017	Y-12 - EMDF – RDR/RAWP (Early Site Preparation), D2 to DOE	3/30/2023	**	C.4.1, <i>CERCLA Disposal Facility Design</i> CERCLA and FFA
T3-018	ORNL - BV Interim ROD - Reactor Complex Pre-Demolition PCCR (a2), D0 to DOE	By 7/31/2023	**	C.3.1.5, <i>Graphite Reactor Support Facilities</i> and C.3.1.7, <i>Oak Ridge Research Reactor Facilities</i> CERCLA and FFA
T3-019	ORNL - BV Interim ROD- 3005 D&D – PCCR, D1 to DOE	02/20/2024	**	C.3.1.6, <i>Bethel Valley Bulk Shielding Reactor and Low Intensity Test Reactors Complex Demolition</i> CERCLA and FFA



**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
T3-020	ORNL - BV Interim ROD- 3010 D&D – PCCR, D1 to DOE	05/01/2023	**	<i>C.3.1.6, Bethel Valley Bulk Shielding Reactor and Low Intensity Test Reactors Complex Demolition</i> CERCLA and FFA
T3-021	Reserved			
T3-022	3517 Facility Hot Cell Characterization Report	2/21/2024	Information	<i>C.3.1.11, 3517 Facility and Support Facilities</i>
T3-023	Reserved			
T3-024	MSRE Building Unit NDA Report	<del>6/30/2023</del> <u>7/31/2023</u>	Information	<i>C.3.1.21, Molten Salt Reactor Experiment Complex</i>
T3-025	Draft DOE Order 435.1 Annual Summary Report for EMWMF to DOE	By 1/17/2023	Review – 30 days	<i>C.5.5.1, EMWMF and EMDF</i>
T3-026	Draft DOE 435.1 Annual Summary Report for EMDF to DOE	By 1/17/2023	Review – 30 days	<i>C.4.3, CERCLA Disposal Facility Startup</i>
T3-027	5505 Characterization Approach	Completed 3/21/2023	Information	<i>C.3.1.40, 5505 Demolition</i>
T3-028	9213 Complex PCCR, D0 (including Technical Memorandum for 9213 Complex RA Characterization to DOE to support future RA decisions)	2/2/2023	Information	<i>C.3.2.9, 9213 Complex</i>
T3-029	3039 Stack Inspection Repair Recommendation	5/12/2023	Information	<i>C.5.1.2, LGWO Life Extension Initiatives</i>
T3-030	BV Sludge Sampling Data Report	By 5/31/2023	Information	<i>C.5.1.2, LGWO Life Extension Initiatives</i>
T3-031	Filter Press Replacement Design Specifications for fabrication and installation	5/31/2023	Information	<i>C.5.1.2, LGWO Life Extension Initiatives</i>

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
T3-032	Reserved			
T3-033	Reserved			
T3-034	ETTP - EU Z2-17 PCCR Addendum to DOE	9/30/2023	**	<i>C.3.3.2, Zone 2 Soil CERCLA and FFA</i>
T3-035	Reserved			
T3-036	Reserved			
T3-037	Reserved			
T3-038	Reserved			
T3-039	Reserved			
T3-040	Reserved			
T3-041	Reserved			
T3-042	ETTP - Airport Well P&A Notification Comment Resolution and D2 to DOE	Submit within 30 days of comment receipt	**	<i>C.5.7.3, ETTP Surveillance and Maintenance, and Environmental Monitoring CERCLA and FFA</i>
T3-043	Reserved			
T3-044	ETTP - K-31/K-33 Groundwater RI/FS D2 Erratum to DOE	10/05/2022	**	<i>C.3.3.3.1, ETTP ROD Development CERCLA and FFA</i>
T3-045	ETTP - Z1 Groundwater RIWP Addendum for K-720 Fly Ash Pile to DOE	5/01/2023	**	<i>C.3.3.3.1, ETTP ROD Development CERCLA and FFA</i>
T3-046	ETTP - K-1007 Pond RmAWP (D1) to DOE	5/1/2023	**	<i>C.3.3.3.1, ETTP ROD Development CERCLA and FFA</i>
T3-047	Reserved			
T3-048	Reserved			

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
T3-049	Establish Nomenclature for all systems and components and complete labeling on Piping & Instrumentation Diagram design drawings for both Headworks and Treatment Facility	10/31/2022	Review – 30 days	C.5.6.1, <i>MTF Construction Support</i>
T3-050	Complete Construction Turnover Testing Requirements for all systems at Headworks and Treatment Facility	12/15/2022	Approve – 60 days	C.5.6.1, <i>MTF Construction Support</i>
T3-051	Complete punchlist items to transition Biology/EU-5 footprint back to NPO	Completed 11/03/2022	Approve – 30 days	C.3.2.16, <i>Y-12 EU-5</i>
T3-052	Y-12 - EMDF – RDWP (GWFD), D1 to DOE	5/15/2023	**	C.4.1, <i>CERCLA Disposal Facility Design</i> CERCLA and FFA
T3-053	Y-12 - EMDF – RDWP (GWFD), D2 to DOE	8/29/2023	**	C.4.1, <i>CERCLA Disposal Facility Design</i> CERCLA and FFA
T3-054	DOE Order 435.1 Annual Summary Report for EMWMF to DOE	Completed on 3/20/2023	Approve – 180 days	C.5.5.1, EMWMF and EMDF
T3-055	DOE 435.1 Annual Summary Report for EMDF to DOE	Completed on 3/20/2023	Approve – 180 days	C.4.3, <i>CERCLA Disposal Facility Startup</i>
T3-056	Reserved			
T3-057	Reserved			

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
<u>T3-058</u>	<u>Performance Measurement Baseline (update for Subtask 1-03-03 Revision 2)</u>	<u>Within 10 days of Subtask 1-03-03 Revision 2 award</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>
<u>T3-059</u>	<u>Integrated Master Schedule (update for Subtask 1-03-03 Revision 2)</u>	<u>Within 10 days of Subtask 1-03-03 Revision 2 award</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>
<u>T3-060</u>	<u>Subtask Metrics and Milestone Plan (update for Subtask 1-03-03 Revision 2)</u>	<u>Within 30 days of Subtask 1-03-03 Revision 2 award</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>
<u>T3-061</u>	<u>Waste Generation Forecast Update (update for Subtask 1-03-03 Revision 2)</u>	<u>Within 30 days of Subtask 1-03-03 Revision 2 award</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u> <u>DOE Manual 435.1-1, Radioactive Waste Management</u>
<u>T3-062</u>	<u>Submit a final report to DOE describing progress made in FY2023 toward treating and disposing the sodium and lithium shields.</u>	<u>30 days in advance of STP milestone</u>	<u>DOE Acceptance required</u>	<u>Section C.5.8, Legacy Waste Disposition</u> <u>Section C.6.2.8, Waste Management</u>

**Table J-7-1. End State Phase In Deliverables**

<b>Number</b>	<b>Deliverable</b>	<b>Deliverable Due Date</b>	<b>DOE Action Response</b>	<b>Reference</b>
<u>T3-063</u>	<u>Submit for DOE approval, UCOR compliance with DBT</u>	<u>By 7/30/2024</u>	<u>DOE Approval</u>	<u>Section C.5.9.2, Design Basis Threat Mitigation</u>
<u>T3-064</u>	<u>MSRE RI, D0 to DOE</u>	<u>By 1/31/2024</u>	<u>**</u>	<u>Section C.3.1.21 CERCLA and FFA</u>
<u>T3-065</u>	<u>Monthly Progress Report for TWPC</u>	<u>Monthly by the 12th Government workday of the following month</u>	<u>Information</u>	<u>Section C.5.2.1 Section C.6.1.2</u>
<u>T3-066</u>	<u>Preliminary Report on Conceptual Options with Rough-Order-of-Magnitude Estimates for Completion Strategy for BV LLLW System</u>	<u>By 1/31/2024</u>	<u>Approve – 30 days</u>	<u>Section C.5.1.2</u>
<u>T3-067</u>	<u>Y-12 UEFPC Soils RDR/RAWP Addendum, D1 to DOE</u>	<u>*</u>	<u>**</u>	<u>Section C.3.2. 26 UEFPC Soils Remedial Action (Select EUs) CERCLA and FFA</u>
<u>T3-068</u>	<u>NT-8 EE/CA D1 to DOE</u>	<u>*</u>	<u>**</u>	<u>Section C.3.2.27, NT-8 Action Memorandum and Removal Action CERCLA and FFA</u>
<u>T3-069</u>	<u>NT-8 AM D1 to DOE</u>	<u>*</u>	<u>**</u>	<u>Section C.3.2.27, NT-8 Action Memorandum and Removal Action CERCLA and FFA</u>
<u>T3-070</u>	<u>CERCLA Five Year Review, D1 to DOE</u>	<u>*Annually by August</u>	<u>**</u>	<u>Section C.5.4.2, ORR Water Quality Program CERCLA and FFA</u>

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
<u>T3-071</u>	<u>Bear Creek Valley Burial Ground RIWP, D1 to DOE</u>	*	**	<u>C.3.2.19 BCV Burial Ground Record of Decision</u> <u>CERCLA and FFA</u>
<u>T3-072</u>	<u>White Wing Scrap Yard RIWP, D1 to DOE</u>	*	**	<u>C.3.2.24 Bear Creek Valley White Wing Scrap Yard Record of Decision</u> <u>CERCLA and FFA</u>
<u>T3-073</u>	<u>Bear Creek Valley Mercury Source Remedial Site Evaluation Sampling and Analysis Plan, D1 to DOE</u>	*	**	<u>C.5.5.1, EMWMF and EMDF</u> <u>CERCLA and FFA</u>
<u>T3-074</u>	<u>K-31/K-33 Groundwater ROD, D2 to DOE</u>	<u>By 10/22/2023</u>	**	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u> <u>CERCLA and FFA</u>
<u>T3-075</u>	<u>Main Plant Area Groundwater IROD RDWP, D0 to DOE</u>	<u>By 3/31/2024</u>	**	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u> <u>CERCLA and FFA</u>
<u>T3-076</u>	<u>Main Plant Area Groundwater RIWP, D0 to DOE</u>	<u>By 1/03/2024</u>	**	<u>Section C.3.3.3, Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation</u> <u>CERCLA and FFA</u>

**Table J-7-1. End State Phase In Deliverables**

<b>Number</b>	<b>Deliverable</b>	<b>Deliverable Due Date</b>	<b>DOE Action Response</b>	<b>Reference</b>
<u>T3-077</u>	<u>Mitchell Branch Stormwater design plan</u>	<u>By 6/20/2024</u>	<u>Review – 30 days</u>	<u>C.5.7.1 ETP Closure</u>
<u>T3-078</u>	<u>Baseline Low-Level Waste and Material Disposition Data Update(s)</u>	<u>Annually to support new fiscal year in accordance with data call</u>	<u>Review – 30 days</u>	<u>DOE Manual 435.1-1, Radioactive Waste Management</u>
<u>T3-079</u>	<u>EV Self-Assessment Surveillances</u>	<u>Annually by 9/30/2023</u>	<u>Review – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u>
<u>T3-080</u>	<u>Annual Cleanup Progress Report</u>	<u>Annually, as directed by Program</u>	<u>TBD**</u>	<u>Section C.6.1.14, Public Relations and Media Support</u>
<u>T3-081</u>	<u>Project Management Plan update for DOE O 413.3B, Change 6</u>	<u>By 9/30/2023</u>	<u>Review – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u>
<u>T3-082</u>	<u>Mercury Technology Demonstrations #3 Plan to support CERCLA clean-up actions</u>	<u>By 4/30/2024</u>	<u>Review – 30 days</u>	<u>Section C.6.2.4, Technology Demonstrations</u>
<u>T3-083</u>	<u>Mercury Technology Demonstration # 3 Report(s)</u>	<u>Within 60 days of Technology Demonstration completion by Others</u>	<u>Review – 30 days</u>	<u>Section C.6.2.4, Technology Demonstrations</u>
<u>T3-084</u>	<u>Workforce utilization projections by Subtask updates</u>	<u>Monthly, with Monthly Progress Report</u>	<u>Review – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>

**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
<u>T3-085</u>	<u>3039 Stack Repair Completion Documentation, including as built</u>	<u>By 6/30/2024</u>	<u>Review – 30 days</u>	<u>Section C.5.1.2, LGWO Life Extension Initiatives</u>

<sup>1</sup>The DOE action is defined as follows:

- Approve – The Contractor shall provide the deliverable to DOE for review and approval. DOE will review the deliverable and provide comments or approve as submitted. If necessary, the Contractor shall revise the document to incorporate mandatory DOE comments and resubmit for DOE approval. Once approved by DOE, the deliverable shall be placed under change control with changes requiring DOE approval. It is not intended that editorial changes or corrections that do not alter commitments would require new DOE approval.
- Review – The Contractor shall provide the deliverable to DOE for review. DOE will review the information and will provide comments, as necessary. If necessary, the Contractor shall revise the document to incorporate mandatory DOE comments.
- Information – The Contractor shall provide the deliverable for information purposes only. DOE will review the information and may provide comments. Such comments do not require resolution under the Contract.



**Table J-7-1. End State Phase In Deliverables**

Number	Deliverable	Deliverable Due Date	DOE Action Response	Reference
<b>Acronyms:</b>				
AM	Action Memorandum	NDA	Non Destructive Assay	
BV	Bethel Valley	NPO	National Nuclear Security Administration	
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980	NT-8	North Tributary-8	
D&D	Demolition Preparation & Demolition	OREM	Oak Ridge Office of Environmental Management	
DBT	Design Basis Threat	PCCR	Phased Construction Completion Report	
DOE	Department of Energy	PP	Proposed Plan	
DSA	Documented Safety Analysis	RA	Remedial Action	
EE/CA	Engineering Evaluation/Cost Analysis	RAR	Remedial Action Report	
EMDF	Environmental Management Disposal Facility	RAWP	Remedial Action Work Plan	
EMWMF	Environmental Management Waste Management Facility	RDR	Remedial Design Report	
ETTP	East Tennessee Technology Park	RDWP	Remedial Design Work Plan	
EU	Exposure Unit	RI	Remedial Investigation	
FFA	Federal Facility Agreement	RIWP	Remedial Investigation Work Plan	
FMFIA		RMAWP	Removal Action Work Plan	
GWFD	Groundwater Field Demonstration	ROD	Record of Decision	
IROD	Interim Record of Decision	TBD	To Be Determined	
LLLW	Liquid Low Level Waste	TM	Technical Memorandum	
MOA	Memorandum of Agreement	TO	Task Order	
MSRE	Molten Salt Reactor Experiment	TWPC	Transuranic Waste Processing Center	
MV	Melton Valley	UEFPC	Upper East Fork Poplar Creek	
* Fully compliant regulatory submittals are due no less than 30 days in advance of FFA Appendix E milestone dates unless otherwise agreed to by DOE.				
** DOE Actions to follow the standard schedule protocol for primary and secondary documents established per the FFA.				

4. Attachment J-8, Government-Furnished Services and Information, includes the following additional Government Furnished Services and Information for this Subtask:

GFS/I	REQUIREMENT
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GFS/I	REQUIREMENT
Reeves Road upgrade	Maintenance and repair of Reeves Road will be provided under warranty through December 2022 and by another DOE Contractor through <del>February</del> <u>July 2023</u>
TWPC Government Furnished Services and Items	<p>DOE will provide the Contractor with the following upon transfer of operational responsibility for the TWPC from the incumbent contractor:</p> <ul style="list-style-type: none"> <li>– Provide Waste Isolation Pilot Plant shipping casks (TRUPACT II, RH-72B)</li> <li>– Bear the cost of transportation to and disposal of wastes at WIPP.</li> <li>– Provide electrical power and water to the TWPC at no cost to the contractor.</li> <li>– Occurrence Reporting and Processing System (ORPS) access</li> <li>– Security Clearances</li> <li>– Security at site</li> <li>– Federal Telephone System Access</li> <li>– Development of Acceptable Knowledge Reports (AKR),</li> <li>– Sampling and Analysis Plans,</li> <li>– Dose to Curie Models,</li> <li>– 72B Canister Build Sheets from CCP,</li> <li>– Analytical results and analytical data packages from ORNL Labs,</li> <li>– Classification, Public Release, and Export Control Reviews of AKR,</li> <li>– TRU waste streams defense determinations,</li> <li>– Enhanced AK documents.</li> </ul>
National Environmental Policy Act (NEPA) Documentation	The DOE Oak Ridge Office of Environmental Management will provide NEPA documentation for the transfer and reuse of the BUP 500. UCOR will assist DOE with preparation of the NEPA documentation as requested.
Exemption from DOE O 460.1D, Chg. 1, <i>Hazardous Materials Packaging and Transportation Safety</i>	The DOE Oak Ridge Office of Environmental Management will obtain DOE Headquarters approval of an exemption from DOE Order 460.1D Chg. 1 (LtdChg), <i>Hazardous Materials Packaging and Transportation Safety</i> , to authorize an out-of-commerce shipment of the BUP-500 RTG.

<b>GFS/I</b>	<b>REQUIREMENT</b>
<u>FIMS input for DOE Prime Contractors that are non-FIMS administrators</u>	<u>Real Property required fields for assets constructed or brought onsite by other non-FIMS administrator contractors. DOE Order 430.1C.</u>
<u>BLDD input for scope not authorized in task orders.</u>	<u>BLDD required fields for other DOE Prime Contractors generating waste on the ORR and for future, uncontracted OREM scope.</u>

**Appendix B.5**

The identification of fee risk ownership for both the Government and the Contractor is set forth below.

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-01	Delayed Safety Basis Documents	If there are delays in approval of required safety basis documents, then there may be impacts to Subtask cost and schedule performance.	Shared	N/A	N/A	Shared	Risk
TO-3-03	Ineffective Coordination	If project management coordination is not effective, then Subtask schedule and cost performance may be impacted. Lack of proper coordination among multiple contractors and entities (day-to-day operation) may impact Subtask cost and schedule performance.	Shared	Shared	Shared	Shared	Risk
TO-3-04	Changes in Security Requirements	If security requirements increase, then Subtask cost and schedule performance may be impacted.	DOE	DOE	DOE	DOE	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-05	Transportation Interruption	If a waste transportation event on the reservation (e.g. spread of contamination) results in a shutdown of waste transportation from the project it could impact Subtask cost and schedule performance.	Shared	Shared	Shared	Shared	Risk
TO-3-06	Designated Landfills Unavailable	If waste disposal facilities are not available when needed for waste disposal (e.g., due to unforeseen events such as temporary closure due to violations or significant weather event) then, there could be an impact on Subtask schedule and cost performance.	Shared	Shared	Shared	Shared	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-07	Unexpected Hazards/Conditions	If facility inspections or other actions uncover unexpected hazards (for example; structural instability, equipment failure, live utilities, sinkholes, or other unexpected geologic or groundwater conditions), then these hazards may result in significantly more complex work plans, safety plans, and documentation.	Shared	Shared	Shared	Shared	Risk
TO-3-08	Utility Service Disruption	If project activities disrupt utility service to the site or to active buildings at ORNL, then their missions may be impacted and restoration of the utilities could impact Subtask cost and schedule performance.	Shared	Shared	Shared	Shared	Risk
TO-3-10	FFA Document Approval Delayed	If regulators take longer than the FFA prescribed protocols to approve FFA documents, then Subtask performance may be impacted.	DOE	DOE	DOE	DOE	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-13	Change in ES&H Requirements	If ES&H requirements change, then Subtask cost and schedule performance may be impacted.	Shared	Shared	Shared	Shared	Risk/ Opportunity
TO-3-14	Contaminated Equipment Not Releasable	If release conditions cannot be met, then non-government equipment may need to be dispositioned and purchased by DOE.	Shared	Shared	Shared	Shared	Risk/ Opportunity
TO-3-15	Extreme Weather	If an extreme weather event occurs (e.g. rain, heat, cold/snow, high winds/tornado, earth quake), then Subtask cost, schedule or technical performance may be impacted.	DOE	DOE	DOE	DOE	Risk
TO-3-17	Industrial Accidents	If an industrial accident occurs that results in a temporary shutdown of project field activities, then there may be impacts to Subtask cost and schedule performance.	Shared	Shared	Shared	Shared	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-18	Readiness Process Delayed	If a readiness review is not completed on schedule or is elevated to a higher level, then there could be an impact to Subtask cost and schedule performance due to schedule delays.	Shared	N/A	N/A	Shared	Risk
TO-3-19	Inadequate Infrastructure Space	If local parking, laydown, administrative, training, and changing facilities, are not located at the project site, then bus service may be needed to shuttle workers to the job site, and laydown area accommodations may be needed. Subtask cost and schedule performance may be impacted, due to cost of alternative measures and lower worker efficiency.	Shared	N/A	Shared	Shared	Risk
TO-3-20	Unexpected Waste Volumes	If waste volume is found to be more or less than estimated, then Subtask cost and schedule performance may be impacted.	Shared	UCOR	Shared	Shared	Risk/ Opportunity



<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-21	Non-WAC Compliant Waste	If unexpected waste volumes do not meet the onsite disposal Waste Acceptance Criteria (WAC), then off-site disposal may be required. Waste resulting from the project that does not meet the Onsite Landfill WAC could impact Subtask cost and schedule performance (e.g. may require higher cost offsite disposal).	Shared	N/A	Shared	Shared	Risk
TO-3-22	Government Furnished Equipment Failure	If Government Furnished equipment cannot be refurbished, fails, or requires more frequent maintenance interval than planned, then Subtask cost and schedule performance may be impacted.	Shared	Shared	Shared	Shared	Risk
TO-3-23	More Characterization Needed	If the estimated quantity of characterization samples prove insufficient, then additional samples beyond the estimate will be needed.	Shared	N/A	Shared	Shared	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-24	NHPA Document Approval Delayed	If National Historic Preservation Act (NHPA) reviews by the Tennessee State Historic Preservation Officer (SHPO) or the Council take longer than the Historic Preservation Plan (HPP) prescribed protocols, such as the Section 106 Recordation, Interpretation and Documentation for the demolition/maintenance of a facility, or there is disagreement with the recommended interpretive effort then Subtask performance may be impacted.	DOE	N/A	N/A	DOE	Risk
TO-3-26	Insufficient Contractor Resources	If experienced local contractors or local workers are not available to transition to this contract, then labor costs and training duration and costs may in Subtask crease impacting Subtask cost and schedule performance.	Shared	Shared	Shared	Shared	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-28	More Verification Samples Needed	If the estimated quantity of verification samples prove insufficient, then additional samples beyond the estimate will be needed.	N/A	N/A	Shared	N/A	Risk
TO-3-29	More Characterization Needed	If the estimated quantity of characterization samples prove insufficient, then additional samples beyond the estimate will be needed.	N/A	N/A	Shared	N/A	Risk
TO-3-30	More Offsite Soil Fill Needed	If offsite soil fill volume is more or less than estimated, then Subtask cost and schedule performance may be impacted.	N/A	N/A	Shared	N/A	Risk/ Opportunity

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-31	Unexpected Waste Treatment Costs	If waste treatment costs are more or less than expected, then Subtask cost and schedule performance may be impacted. Potential triggers include: If Waste does not meet the onsite disposal Waste Acceptance Criteria (WAC), then off-site treatment and disposal may be required; If treatment methods are less than adequate or treatment is more extensive than expected, then Subtask cost and schedule performance may be impacted.	Shared	N/A	N/A	N/A	Risk/ Opportunity

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-32	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #1	Waste is generated for which no disposal outlet is available.	UCOR	N/A	N/A	N/A	Risk
TO-3-33	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #2	Surface contamination is found on the BUP-500.	UCOR	N/A	N/A	N/A	Risk
TO-3-34	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #3	DOE requires more support from UCOR Waste Management personnel to complete National Environmental Policy Act documents than what is considered routine and limited.	UCOR	N/A	N/A	N/A	Risk
TO-3-35	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #4	Security requirements in addition to what were considered in UCOR's proposal arise.	Shared	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-36	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #5	Preparation of the Security Plan for the BUP-500 requires more than routine and limited effort.	UCOR	N/A	N/A	N/A	Risk
TO-3-37	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #6	The work is delayed by security requirements, lockdowns, or security events.	Shared	N/A	N/A	N/A	Risk
TO-3-38	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #7	Repair of the BUP-500 exterior frame requires more than simple reinforcement using carbon steel structural shapes.	UCOR	N/A	N/A	N/A	Risk
TO-3-39	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #8	Repair of the BUP-500 exterior frame requires welding.	UCOR	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-40	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #9	Loading the BUP-500 onto the transportation conveyance requires more than a standard forklift or telehandler.	UCOR	N/A	N/A	N/A	Risk
TO-3-41	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #10	Modifications to the transport vehicle are required.	UCOR	N/A	N/A	N/A	Risk
TO-3-42	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #11	DOE-HQ does not approve a variance to allow for the BUP-500 to be transported out-of-commerce and under DOE authority.	DOE	N/A	N/A	N/A	Risk
TO-3-43	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #12	DOE does not federalize a commercial driver at all or commercialization of a driver delays shipment of the BUP-500.	Shared	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-44	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #13	Additional charges as outlined in the Transportation subcontractor's terms and conditions not considered in UCOR's proposal arise.	UCOR	N/A	N/A	N/A	Risk
TO-3-45	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #14	The State of Pennsylvania does not approve a modification to the radioactive materials handling license for Westinghouse's Churchill facility, preventing the facility from accepting the BUP-500.	Shared	N/A	N/A	N/A	Risk



<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-46	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #15	Approval of a modification to the Churchill facility's radioactive materials handling license is delayed, delaying shipment of the BUP-500.	UCOR	N/A	N/A	N/A	Risk
TO-3-47	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #16	Shipment of the internal shield structure and the empty capsules requires more than one shipment to the disposal facility.	UCOR	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-48	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #17	Shipment of the internal shield structure and the empty capsules requires more than one trip to the Westinghouse Churchill facility by the Waste Certification Official and a Transportation Specialist.	UCOR	N/A	N/A	N/A	Risk
TO-3-49	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #18	Waste from the BUP-500 is mischaracterized by Westinghouse	UCOR	N/A	N/A	N/A	Risk
TO-3-50	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #19	The BUP-500 interior shield structure cannot be disposed under the same waste profile as the exterior structure.	UCOR	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-51	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #20	The BUP-500 capsules are not empty when Zeno/Westinghouse asks for them to be disposed.	UCOR	N/A	N/A	N/A	Risk
TO-3-52	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #21	The capsules require special packaging, packaging above and beyond a Type A B-25 box, or dunnage.	UCOR	N/A	N/A	N/A	Risk
TO-3-53	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #22	The capsules are found not to be acceptable for disposal at NNSS.	UCOR	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-54	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #23	The exterior structure of the BUP-500 is found not to be acceptable for disposal at NNSS.	UCOR	N/A	N/A	N/A	Risk
TO-3-55	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #24	The interior shield structure of the BUP-500 is found not to be acceptable for disposal at NNSS.	UCOR	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-56	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #25	Out-of-commerce transportation pricing varies from the following: a) One week of driver and equipment for federalized transport b) Forty hours of administrative support c) Fuel surcharge based upon DOE rates at the time of transport	UCOR	N/A	N/A	N/A	Risk
TO-3-57	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #26	Any portion of this scope requires a Safety Basis revision.	UCOR	N/A	N/A	N/A	Risk

<b>Subtask 1-03-03 Fee Risk Ownership</b>							
<b>Risk ID</b>	<b>Title</b>	<b>Statement of Event</b>	<b>Prep for Demolition (including Characterization)</b>	<b>Demolition</b>	<b>Environmental Media Remediation</b>	<b>Operations</b>	<b>Type</b>
TO-3-57	Transfer of the BUP-500 Radioisotope Thermal Generator Risk #27	Delay of the work by inclement weather.	UCOR	N/A	N/A	N/A	Risk