



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Remediation - Oak Ridge  
761 Emory Valley Road  
Oak Ridge, Tennessee 37830

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COUNTY MAYOR'S OFFICE

March 27, 2024

Mr. James Daffron  
Acting ORNL Portfolio Federal Project  
Director  
ETTP Portfolio Federal Project Director  
U.S. Department of Energy  
Oak Ridge Operations  
200 Administration Road  
PO Box 2001  
Oak Ridge, TN 37831

Mr. Brian Henry  
Y-12 Portfolio Federal Project Director  
U.S. Department of Energy  
Oak Ridge Operations  
200 Administration Road  
PO Box 2001  
Oak Ridge, TN 37831

Ms. Joanna Hardin  
ETTP Portfolio Federal Project Director  
U.S. Department of Energy  
Oak Ridge Operations  
200 Administration Road  
PO Box 2001  
Oak Ridge, TN 37831

Dear Mr. Daffron, Ms. Hardin, and Mr. Henry

**Site Treatment Plan for Mixed Waste on the U.S. Department of Energy Oak Ridge  
Reservation – Submittal of the Annual Update and Semiannual Progress Report**

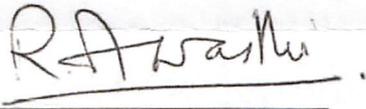
The Tennessee Department of Environment and Conservation (TDEC) previously acknowledged the receipt of the Annual Update, Version 28.0, of the Site Treatment Plan (STP) and the Semiannual Progress Report, as provided in an email dated December 5, 2023, from Steve Cooke, representing the U.S. Department of Energy (DOE), addressed to Revendra Awasthi and Kristof Czartoryski of TDEC.

In accordance with the STP Section 2.8.5.1, TDEC informed DOE of the decision to extend the review period for the STP Annual Update and the Semiannual Progress Report for thirty (30) working days. Subsequently, the parties agreed to additional extensions to facilitate collaborative efforts aimed at implementing necessary changes to the mixed Transuranic (TRU) Sludge milestones to ensure alignment with the shared objectives and regulatory requirements.

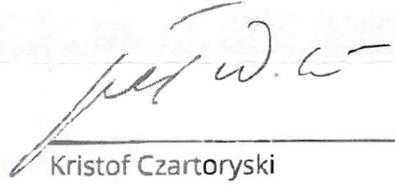
This letter conveys conditional approval of the Annual Update to the STP based on the revised mixed TRU Sludge milestones included in the attached enclosure.

If there are any questions, please do not hesitate to contact Revendra Awasthi by email at [Revendra.Awasthi@tn.gov](mailto:Revendra.Awasthi@tn.gov) or by phone at 865-306-1862; or Kristof Czartoryski by email at [Kristof.Czartoryski@tn.gov](mailto:Kristof.Czartoryski@tn.gov) or by phone at 865-250-9705.

Respectfully



Revendra Awasthi  
STP Coordinator  
Division of Solid Waste Management  
Knoxville Environmental Field Office



Kristof Czartoryski  
STP Manager  
Division of Remediation  
Oak Ridge Office

Enclosure

ec: Steve Cooke, DOE  
Steve Clemons, DOE  
Payton Bradford, OGC  
Lisa Hughey, DSWM  
Steve Sanders, TDEC  
Colby Morgan, TDEC

xc: Wade Creswell, ORRCA  
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Terry Frank, ORRCA

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## ENCLOSURE

Site Treatment Plan (STP) for Mixed Waste on the U.S. Department of Energy, Oak Ridge Reservation Annual Update, Version 28.0 Conditionally Approved Mixed TRU Sludge Milestones and Target Dates

### TRU Sludge Milestones:

1. By January 30, 2024, complete mock-up testing for sludge processing.
2. By September 30, 2024, provide a report summarizing the results of the mock-up testing.
3. ***By September 30, 2024, hold a public meeting to communicate the delay in the mixed TRU sludge project and its impact on the final processing date.***
4. ***By June 30, 2025, provide a Strategic plan addressing technologies available for the treatment of sludge, relevant to the OREM mission.***
5. ***By September 30, 2025, provide a comprehensive report, and strategic plan, evaluating tank status and ensuring safe operations until processing commences. This report should cover tank inventory, construction dates, capacity, integrity monitoring programs, current sludge generation rates, and Liquid Low-Level Waste (LLLW) / sludge minimization.***
6. ***By September 30, 2026, provide a copy of the sample data from the MVST and BVEST, as well as a report explaining the differences between it and the past data from 2001. This should show changes in radionuclide, chemical, hazardous, and transuranic constituents, density, and particle size distribution.***
7. ***By September 30, 2026, deliver a report documenting all necessary steps that were and will be completed to obtain sufficient funding to comply with the provisions, milestones, and target dates of this Plan as pertains to the processing of mixed TRU sludge. The expectation is for DOE to take appropriate budgetary actions to meet the September 30, 2032, target of a preliminary design.***

### TRU Sludge Target Dates:

1. ***By September 30, 2030, deliver an updated strategic plan to process and stabilize the sludges and ship the final waste form to a suitable off-site disposal facility, depending on the final characterization of the processed waste.***
2. By September 30, **2032**, provide a preliminary (60%) design for the sludge processing facility.

After mockup testing progresses and the project matures, the following targets and/or milestones, subject to mutual agreement of TDEC and DOE, will be incorporated into future STP updates:

- Complete design of the sludge processing facility.
- Award a contract for the construction of the sludge processing facility.
- Begin construction of the sludge processing facility buildouts required for housing TRU sludge.
- Complete processing of 50% of the TRU sludge inventory
- Complete processing of the remaining inventory of TRU sludge inventory

