



# Department of Ecology

March 2024 - Cleanup Priorities Meeting  
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# Tank Waste Retrieval and Treatment



- Ecology hopes for a settlement from the Holistic Negotiations
  - Our priorities will be in accordance with the settlement schedules.
  - We support the recent appropriations to complete high-level waste facilities.
- Ecology supports the 2,000 gallon Test Bed Initiative under the prior appropriation that DOE has carried over.
  - Ecology is holding public comment on the TBI RD&D permit March 11 – April 25
- Preparing the NUCON RD&D permit for public comment

# Tank Waste Retrieval and Treatment



- Continuing to support WTP operations
  - DFLAW: Melter 2 heat up, Provide Technical Assistance to support LAW Facility startup, Support Environmental Performance Demonstration Testing (EPDT), EPDT is the important activity that shows that all the off-gas systems are working as planned and that the air will be protected
  - HLW Facility: ongoing modifications to support construction
  - TSCR/LAWPS; ongoing permit modifications to support creation of pretreated waste for DFLAW
- AMPS: support preliminary work to be able to permit this permanent LAW pretreatment facility that will replace TSCR
- Continuing to support review and closeout of deliverables under the leaking tanks Agreed Order
- Ecology expects WMA A retrieval to begin in 2024

# Central Plateau Priorities

- Prepare the draft Revision 9A Hanford Dangerous Waste Permit and issue for public comment in 2024.
- 200-EA-1 and 200-BP-5/P0-1
- IDF operational readiness is anticipated in late 2024.
- Tri-Party Agreement (TPA): Energy is looking at work in 3-year increments.
  - Existing TPA milestones are a priority for Ecology (next slide).

# Treat/manage radioactive solid waste under existing TPA milestones

- Transuranic Mixed (TRUM) Waste Treatment
  - Establish the next target milestones for certification of TRUM waste and disposal of MLLW from 2025-2027 (Next M-091-47 Target Milestones)
  - Determine if we need to negotiate any further M-091-53 target milestones for repackaging large boxes of TRUM waste stored outdoors at the Central Waste Complex.
  - 2024-2026 Complete the engineering design for a facility to re-package small TRUM containers, to prepare them for shipment to WIPP\* (M-091-55 and 56) .
  - 2026 start certifying TRUM waste for shipment to WIPP (M-091-57).
- 2026 submit the 30% engineering design for a facility to convert reactive bulk sodium to non-reactive sodium hydroxide (M-092-09)
- Cesium and strontium capsules
  - 2025 complete transfer from WESF\* to dry storage (M-092-21).
  - 2026 evaluate possible disposition pathways (M-92-20A).

\*WIPP: Waste Isolation Pilot Plant

\*WESF: Waste Encapsulation and Storage Facility

# Other Priorities

- Decontamination, Dismantlement, Deactivation, and Decommissioning (D4)
  - This type of work maintains a stable workforce of D4 workers.
  - Makes progress towards removing & disposing of contaminated buildings.
  - Energy typically nominates buildings.
- Deep Vadose Zone
  - About 45 waste sites are in the 200-DV-1 operable unit.
  - Waste sites in other operable units have deep vadose zone contamination.
  - Energy is working on laboratory testing to identify technologies that could potentially immobilize or treat contamination in the deep vadose zone. (M-015-110E due 02/28/2026).
  - Ecology is interested in field tests of promising technologies.



# Questions?

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