West Valley Demonstration Project
Summary of WVDP Contracts

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Phased Decisionmaking

- Phased Decisionmaking ROD
- Phase 1 Decommissioning Plan

Phase 1 Decommissioning
(Completed by 2020)

Phase 1 Facility Disposition
- Relocate 275 HLW canisters to new dry cask storage facility
- Demolish Vitrification Facility and Main Plant Process Building
- Remove ancillary facilities
- Ship Legacy Low Level Waste

Phase 1 Soil Remediation
- Remove Below Grade Portion of MPPB and Vit (including source area of plume)
- Remove Lagoons and Liquid Waste Treatment Facility
- Ship Legacy TRU Waste
- Remove Remote Handled Waste Facility and remaining ancillary facilities
- Remediate all WMA 1 & 2 Soil

Phase 1 Studies

- Final Decommissioning ROD
- Phase 2 Decommissioning Plan

Phase 2 Decommissioning

Phase 2 Decisions
- HLW Canister Shipment (permanent disposal decision)
- Closure decision for Waste Tank Farm
- Closure decision for 2 Disposal Areas
Phased Decisionmaking

- Below Ground Portion of MPPE and VIT Removed
- Treatment Area (STF) Removed
- Vitrification Facility (VIT) Removed
- Main Plant Processing Building (MPPE) Removed
- Remote Handling Waste Facility Removed
- Lagoons and Water Treatment Removed
- Waste Tank Farm Dried and Monitored
- HLW Canister Interim Storage
- State-Licensed Disposal Area (SDA) Monitored
- NRC-Licensed Disposal Area (NDA) Monitored

Key:
- Phase 1 Facility Disposition
- Phase 1 Soil Remediation
- Phase 2 Decision
Phase 1 Decommission – Facility Disposition Contract

- Awarded to CH2MHILL B&W West Valley (CHBWV)
- Cost-Plus-Award-Fee, completion type contract with contract period beginning August 29, 2011
- Services to be provided include but are not limited to:
  - Project management and support services
  - Site operations maintenance, utilities
  - High-level waste canister relocation
  - Facility disposition
  - Waste tank farm management
  - NRC-licensed disposal area management
  - Waste management and nuclear materials disposition
  - Safeguards and security

Phase 1 Decommissioning – Facility Disposition Contract Milestones

- Process, ship and dispose of all legacy waste off-site November 2014
- Complete high level waste (HLW) canister relocation July 2015
- Demolition and removal of Main Plant Process Building (MPPB) and Vit Facility (VF) August 2017
- Complete all work described in Performance Work Statement August 2017
Environmental Characterization Services Contract – Science and Ecology Corporation (SEC)

- Awarded SEC
  - SEC was recently acquired by Perma-Fix
- Indefinite Delivery/Indefinite Quantity (IDIQ) Contract
  - Environmental Characterization Support Services to be provided may include but are not limited to:
    - Soil, sediment, and groundwater characterization,
    - Environmental monitoring,
    - Preparation of applicable regulatory documentation supporting decommissioning activities at the West Valley Demonstration Project (WVDP)

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Phase 1 Decommissioning (Completed by 2020)

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Phase 1 Studies

• Objective: Perform scientific studies during Phase 1 to facilitate interagency consensus to complete decommissioning of remaining facilities following completion of Phase 1 Decommissioning

• Much time and effort spent to develop a process by which:
  – Phase 1 Studies may be conducted jointly by State and Federal Government, each agency having an equal voice
  – Open and transparent dialogue with stakeholders with opportunities for meaningful input through the process
  – Independent scientific input to process

• Jointly funded Phase 1 Studies through an independent, agency-neutral contractor

Potential Areas of Study

- Soil Erosion
- Groundwater Flow and Contaminant Transport
- Catastrophic release of contamination and impact on Lake Erie
- Slope stability and slope failure
- Seismic hazard
- Probabilistic vs. deterministic dose and risk analysis
- Alternate approaches to and cost of complete waste and tank exhumation
- Viability, cost, and benefit of partial exhumation of waste and removal of contamination
- Exhumation uncertainties and benefit of pilot exhumation activities
- In-place closure containment technologies
- Engineered barrier performance
- Additional characterization needs
- Cost discounting and cost benefit analyses over long time periods

Phase 1 Studies Contract – Enviro Compliance Solutions (ECS)

• Awarded to ECS
• Contract is jointly funded by DOE and NYSERDA
• ECS team includes two subcontractors
  – Innovative Technical Solutions, Inc. (ITSI)
    • Technical Support Services
  – Armstrong and Associates
    • Moderator/Facilitator Services
Phase 1 Studies Contract - ECS

- Members of ECS staff may serve as Potential Areas of Study (PAS) Subject Matter Experts (SME)
- ECS serve as Study Area Managers (SAM)
- ECS staff may self-perform aspects of the Phase I Studies recommended by the SME and approved by DOE and NYSERDA
- ECS may procure the services of qualified specialty contractors to perform Phase I Studies as necessary