

West Valley Demonstration Project Summary of WVDP Contracts



Bryan C. Bower

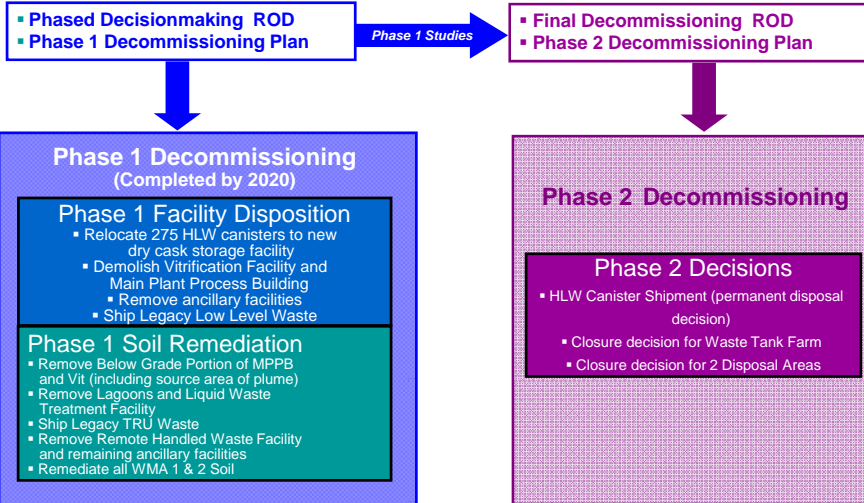
U.S. Department of Energy
West Valley Demonstration Project
10282 Rock Springs Road
West Valley, New York 14171

E-mail: Bryan.Bower@wv.doe.gov



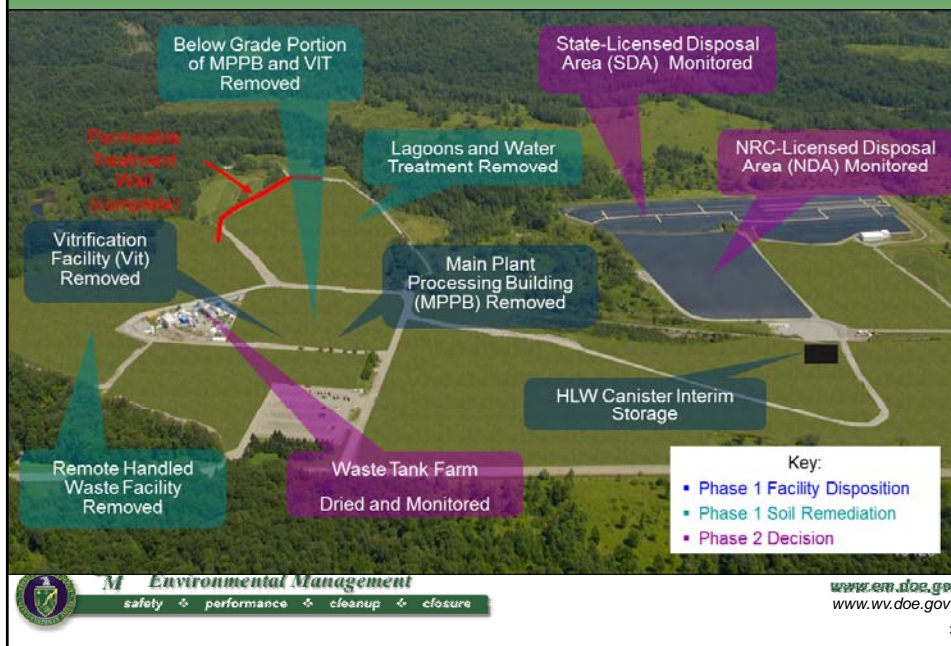
www.em.doe.gov
www.wv.doe.gov

Phased Decisionmaking



www.em.doe.gov
www.wv.doe.gov

Phased Decisionmaking



Phased Decisionmaking



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



EM Environmental Management
safety ✦ performance ✦ cleanup ✦ closure

www.em.doe.gov
www.wv.doe.gov

5

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 |



EM Environmental Management
safety ✦ performance ✦ cleanup ✦ closure

www.em.doe.gov
www.wv.doe.gov

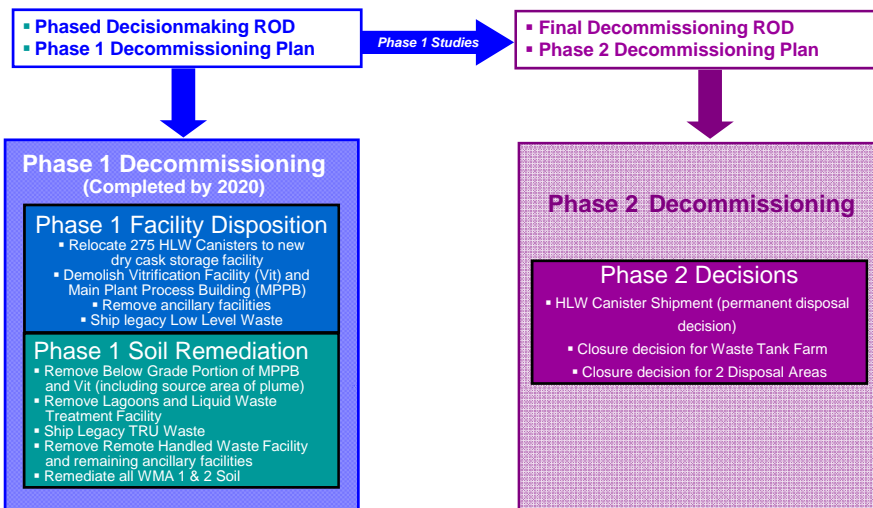
6

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)



Phased Decisionmaking



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



EM Environmental Management

safety ✦ performance ✦ cleanup ✦ closure

www.em.doe.gov
www.wv.doe.gov