CHBWV Project Update

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CH2M HILL B&W West Valley

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Site Ops Recent Accomplishments

• Completed dams and rail system inspections
• Installed new heating system for Main Plant/Vitrification Facility
• Completed NDA North Slope armoring design to meet intent of NRC’s NUREG-1623
• Completed Major Maintenance:
  • Head end ventilation blower repairs
Main Plant Process Building Accomplishments

- Completed deactivation activity in the Lower Extraction Aisle
- Completed asbestos abatement on all piping in Analytical Aisle Lab’s, Analytical Decon Aisle and Laundry
- Continued deactivation of Upper Warm Aisle and Hot Cells
- Continued interference removal for Liquid Waste Cell
- Continued asbestos abatement and deactivation in Plant Office
- Continued characterization of high hazard areas

Vit Facility Accomplishments

- Completed deactivation of Out–of-Service piping systems in Operating Aisles
- Continued clean out of misc. equipment, materials, & debris from Vit Cell
Balance of Site Facilities (BOSF) Accomplishments

- Work Instruction Package development:
  - Vitrification Diesel Fuel Oil Storage Building Pad
  - New Cooling Tower
  - Old Sewage Treatment Plant Foundation
  - Con Ed Building
- Completed waste load out:
  - Old Warehouse Foundation (Partial)
  - Waste Tank Farm (WTF) Test Tower structure
  - Vitrification Fabrication Shop Slab
  - Hazardous Waste Lockers (3 of 4)

Tank & Vault Drying System

Tank 8D-3
- Project all liquid evaporation and a dry tank by September 30, 2013

Tank 8D-4
- Evaporation was reduced April 2013 to allow more time to resolve the disposition of the tank and its contents before the bottom sludge is uncovered
- Current volumes:
  - ~3,700 gallons liquid
  - ~1,100 gallons sludge
### Waste Shipping Accomplishments

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<tr>
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<tbody>
<tr>
<td></td>
<td>No. of Shipments</td>
<td>Volume (ft³)</td>
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<tr>
<td>LLW</td>
<td>158</td>
<td>132,666</td>
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<tr>
<td>MLW</td>
<td>9</td>
<td>6,344</td>
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<tr>
<td>Industrial</td>
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<td>1,391</td>
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<tr>
<td>Hazardous</td>
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<td>120</td>
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<tr>
<td>Total</td>
<td>171</td>
<td>140,491</td>
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* After sampling, characterization, and consolidation

### Melter, CFMT, MFHT Shipping

- **Vitrification Melter, Concentrator Feed Make-up Tank (CFMT) and Makeup Feed Hold Tank (MFHT) Preparations**
  - Route Identification/destination
  - Grouting Component Fabrication
  - Grout Specification
  - WCS Disposal Program Certification
  - Fedbiz Ops EOI Solicitation for hauling

- **August Activities**
  - Hauling/Transportation Plan RFP
  - Scale/Crane Mobilization
  - Melter Grouting
  - Package Certification
- **Award Turnkey Hauling Contract September**
TRU ("GTCC-Like") Waste Disposition

- CHBWV embarked on processing Greater than Class C – Like (GTCC EIS Terminology) waste using WIPP Packaging Limits
- TRU Waste Disposition Plan
  - Will establish scope of remaining work
- Plan Element Developments in Progress
  - Identify WIPP WAC packaging limits applicable to West Valley
  - Align waste streams to compositions of similar radiological properties
  - Re-characterize inventory to align with WIPP packaging parameters
  - Address inventory with inadequate visual examination
  - Devise means to characterize commingled waste streams – Vit, Head End
  - Devise means to process High FGE, High Dose containers – method and location
  - Identify necessary process improvements to support plan execution

HLW Canister Storage Project Progress

- Completed design for:
  - Storage System
    - Multi-purpose Canister
    - Overpack
    - Vertical Storage Casks
  - Storage Pad
  - Transport system
- Performed Hazard Analysis and issued draft Safety Basis for review
- Performed decon testing
- Received and evaluated proposals for Canister Decontamination System
- Submitted Stormwater Pollution Prevention Plan for NYSDEC Approval
Recent HLW Accomplishments

- Completed procurement awards for:
  - 8 Vertical Storage Cast liners
  - Materials for 8 MPCs
  - TL220 transporter
  - Transport A Frame and Tugger
- Performed structural analysis for haul road
- Completed waste removal from in front of HLW storage racks
- Inspected contents of Canister WV413
- Issued Request for Proposal for Storage Pad construction
- Drafted NAC shipping cask Safety Analysis Report Amendment (NRC Approval Required)

Typical Storage Pad

Pad Dimension 144x110

Next Steps - HLW Canister Storage Project

- Evaluate and award procurement for:
  - Design and fabrication of decontamination system
  - Construction of Storage Pad
  - Automatic Welding System for multi-purpose canisters (MPCs)
  - Engineering and construction for structural floor modifications
- Vertical Storage Cask Fabrication Startup

Vertical Storage Cask being Fabricated