



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

## WVDP Project Update

**Scott Anderson**  
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**Citizen Task Force Meeting**  
**April 25, 2018**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

## Safety



Metric	April 2018 12-Month Rolling Average
TRC (12-Month Rolling Average)	1.33
DART (12-Month Rolling Average)	.33
Last Lost-Time Case Recordable	April 24, 2017
Last Recordable Injury (arm strain)	November 28, 2017



## Contract Scope

### Milestone 1

- ✓ Complete Relocation of 275 HLW Canisters and 3 Non-conforming HLW Canisters to Long-term Interim Storage (**Completed**)

### Milestone 2

- Process, Ship, Dispose of all Legacy Waste, not including Transuranic Waste (TRU) (**Ongoing**)

### Milestone 3

- Demolish and Remove the Main Plant Process Building and the Vitrification Facility (**Ongoing**)

### Milestone 4

- Complete All Work in Performance Work Statement, including Balance of Site Facilities, Surveillance and Maintenance, and Site Operations (**Ongoing**)

## Legacy Waste Processing

### Milestone 2 (93% Complete)

- Process, ship and dispose Legacy Waste
  - Overall Legacy Waste status
    - 159,244 ft<sup>3</sup> of 165,515 ft<sup>3</sup> LLW shipped (96% complete)
    - Approximately 20 shipments remain
  - Three large vessels in Chemical Process Cell-Waste Storage Area (CPC-WSA)
    - Dissolver transferred to Remote-Handled Waste Facility and is being size reduced
    - Reboiler outer vessel has been processed and is ready for shipment in June
    - Separator was shipped offsite for treatment and disposal
- Planned completion August 2018

A large box containing the Dissolver is transferred into the Remote-Handled Waste Facility



## Deactivation Progress



General area of MPPB demolition

General area of VF demolition

- Milestone 3 - Vitrification Facility (VF) Demolition – 61% Completed
- Milestone 3 - Main Plant Process Building (MPPB) Deactivation – 86% Completed
- Milestone 4 - Balance of Site Facilities Demolition – 20 of 47 Facilities Completed

## Milestone 3 – Vitrification Facility

### Milestone 3 – Vitrification Facility

- Demolition began on September 11, 2017
  - Phase 1 **Completed** (November 2, 2017)
    - Outer access aisles
  - Phase 2 is ongoing
    - Process Cell
    - Shield Doors
    - South Wall
  - Phase 3
    - Crane Maintenance Room
    - Tunnel
    - Secondary Filter Room
- Planned completion Summer



Vitrification Facility roof demolition  
April 23, 2018

## Vitrification Facility Phase 2 Demolition



Removal of Vitrification Facility roof steel beam  
April 23, 2018

## Vitrification Facility Phase 2 Demolition



Demolition of Vitrification Facility roof  
April 23, 2018

## Vitrification Facility Waste Disposal



Expected Debris Quantity: ~450 Intermodals (IMs)

Status: 156 Intermodals Loaded; 114 Intermodals Shipped

## MPPB Deactivation

### Milestone 3 – Main Plant Process Building

- Six crews are performing deactivation and decontamination in MPPB
  - Asbestos-containing material (ACM) removal
  - Deactivation in radiological areas
- Major areas left for deactivation, which are also the most difficult
  - Vent Exhaust Cell
  - Process Mechanical Cell
  - Vent Wash Room
  - Chemical Process Cell
- Overall Status: 86% Deactivated
- Planned completion November 2018



Before and After photos of Extraction Cell-1



## Balance of Site and Infrastructure

### Milestone 4

- Performing deactivation to support removal of 47 Balance of Site Facilities
  - 20 facilities demolished to grade
  - 89% of ancillary areas deactivated
- Reconfiguring Infrastructure for facility demolition and future site needs
  - Completed fire water line repairs near Utility Room
  - Site on new potable water distribution system
  - New electrical substation
    - Completed 90% of installation of 35Kv electrical reroute from Utility Room/Utility Room Extension
    - Working on new substation changeover
    - Expect to be operational in April
  - Rail Spur upgrades scheduled for Summer/Fall



Demolition of an ancillary building across from Vitrification Facility



## Follow-up from Last Meeting

# New Potable Water System Well Locations

