



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
ENVIRONMENTAL
MANAGEMENT

WVDP Project Update

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President and General Manager

**Citizen Task Force Meeting
October 24, 2018**

OFFICE OF
ENVIRONMENTAL
MANAGEMENT

Safety



| Metric | September 2018 12-Month Rolling Average |
|---------------------------------|---|
| TRC (12-Month Rolling Average) | 1.32 |
| DART (12-Month Rolling Average) | 0.00 |
| Last Lost-Time Case Recordable | April 24, 2017 |
| Last Recordable Injury | July 13, 2018 |



Contract Scope

Milestone 1

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

Milestone 2

- ✓ Processed, Shipped, Disposed of all Legacy Waste, not including Transuranic Waste (TRU) (**Completed**)

Milestone 3

- Demolish and Remove the Vitrification Facility (**Demolition completed, waste disposition ongoing**) and Main Plant Process Building (**Deactivation ongoing**)

Milestone 4

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

Legacy Waste Processing Milestone 2

- Completed on September 6, 2018
- Process, ship and dispose of Legacy Waste
 - More than 180,000 ft³ of LLW shipped
 - 151 shipments
 - 1,750 containers
 - Emptied Chemical Process Cell – Waste Storage Area in preparation for its demolition
 - Dispositioned several large components
 - 195-ton Melter, 167-ton Concentrator Feed Makeup Tank, and 150-ton Melter Feed Hold Tank



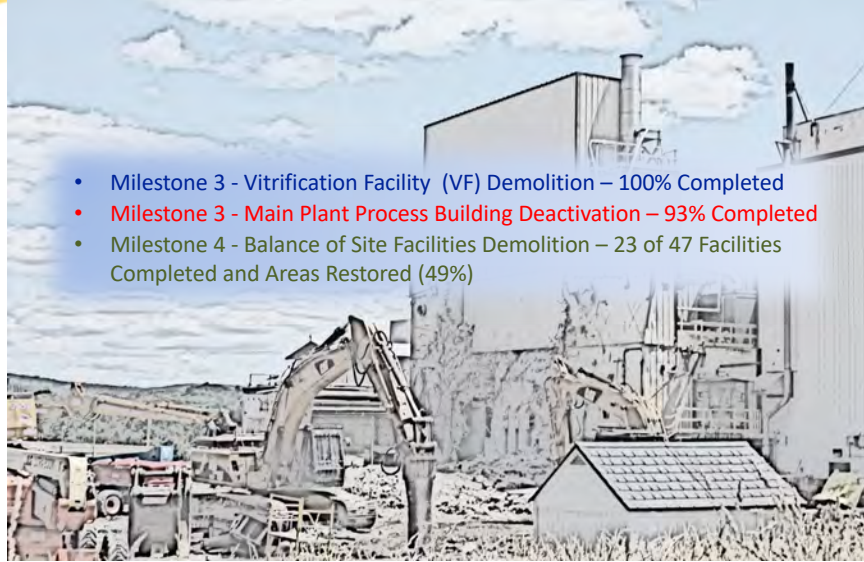
Waste and Site Operations celebrate the completion of Milestone 2: Legacy Waste Disposition



195-Ton Melter

Deactivation and Demolition Progress

- Milestone 3 - Vitrification Facility (VF) Demolition – 100% Completed
- Milestone 3 - Main Plant Process Building Deactivation – 93% Completed
- Milestone 4 - Balance of Site Facilities Demolition – 23 of 47 Facilities Completed and Areas Restored (49%)



Vitrification Facility Demolition Milestone 3

- Completed on September 20, 2018
- Phase 1 (Completed November 2, 2017)
 - Outer access aisles
- Phase 2 (Completed June 26, 2018)
 - Process Cell
 - In-Cell Coolers
 - Shield Windows
- Phase 3
 - Crane Maintenance Room Shield Door
 - Transfer Tunnel Shield Door
 - Three cranes and equipment
 - Transfer Tunnel walls and roof
 - Secondary Filter Room roof



Vitrification Facility Demolition

Vitrification Facility Demolition Progress (Cont.)

September 2017



Before and After
Vitrification Demolition

September 2018

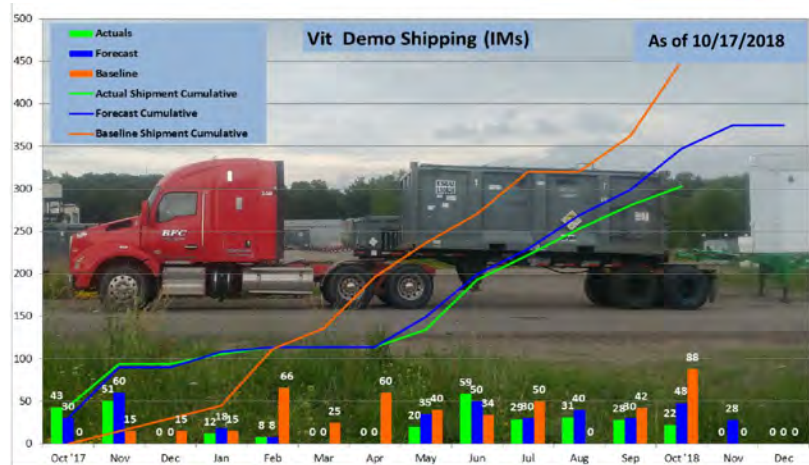


Celebrating Completion of Vitrification Facility Demolition and Legacy Waste Disposition



September 27, 2018

Vitrification Facility Waste Disposal



Expected Debris Quantity: ~377 Intermodals (IMs)
 Status: 344 Intermodals Loaded; 303 Intermodals Shipped

Main Plant Process Building Deactivation (MPPB) – Milestone 3

- 93% Complete
- 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 challenging include:
 - Vent Exhaust Cell (VEC) – Completed the stabilization of the upper and lower plenums
 - Vent Wash Room – Performed initial entry into room to remove large excess tools and equipment, and obtain radiological dose surveys of scrubber unit/general areas
 - Chemical Process Cell – Preparations are underway to grout this cell
- Planned completion November 2018
- Demolition placed on hold April 2018



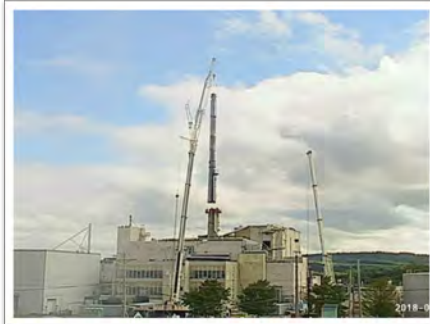
An employee uses a long-reach tool to perform work inside the VEC

Main Plant Deactivation Demolition of Ancillary Facilities



Contact Size Reduction Facility's dust collector being loaded during demolition

MPPB Stack Removal



MPPB Stack Removal (Cont.)



MPPB Stack Removal (Cont.)



Balance of Site Facilities (BOSF) and Infrastructure – Milestone 4

- 49% Complete
- Performing deactivation to support removal of 47 Balance of Site Facilities
 - Former Administration Building demolished and the area restored
 - 23 facilities demolished and areas restored
- Reconfiguring Infrastructure for facility demolition and future site needs
 - Work completed on the new natural gas distribution system
 - 2,800 feet of new pipeline installed
 - New electrical substation
 - Transformer hook-up this week
 - Phase 1 completion end of month
 - Phase 2 Spring 2019

August 2018



Administration Building Demolition

September 2018



Vitrification Facility Demolition Video