



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

# WVDP Project Update

**Scott Anderson**

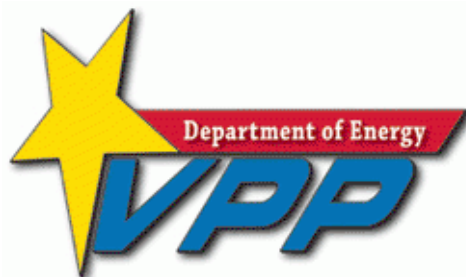
*Deputy General Manager*

**Quarterly Public Meeting  
May 23, 2018**

Be Seen. Be Safe.



Metric	April 2018 12-Month Rolling Average
TRC (12-Month Rolling Average)	1.63
DART (12-Month Rolling Average)	.00
Last Lost-Time Case Recordable	April 24, 2017
Last Recordable Injuries (2)	April 10, 2018 April 16, 2018



## 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 (95% Complete)

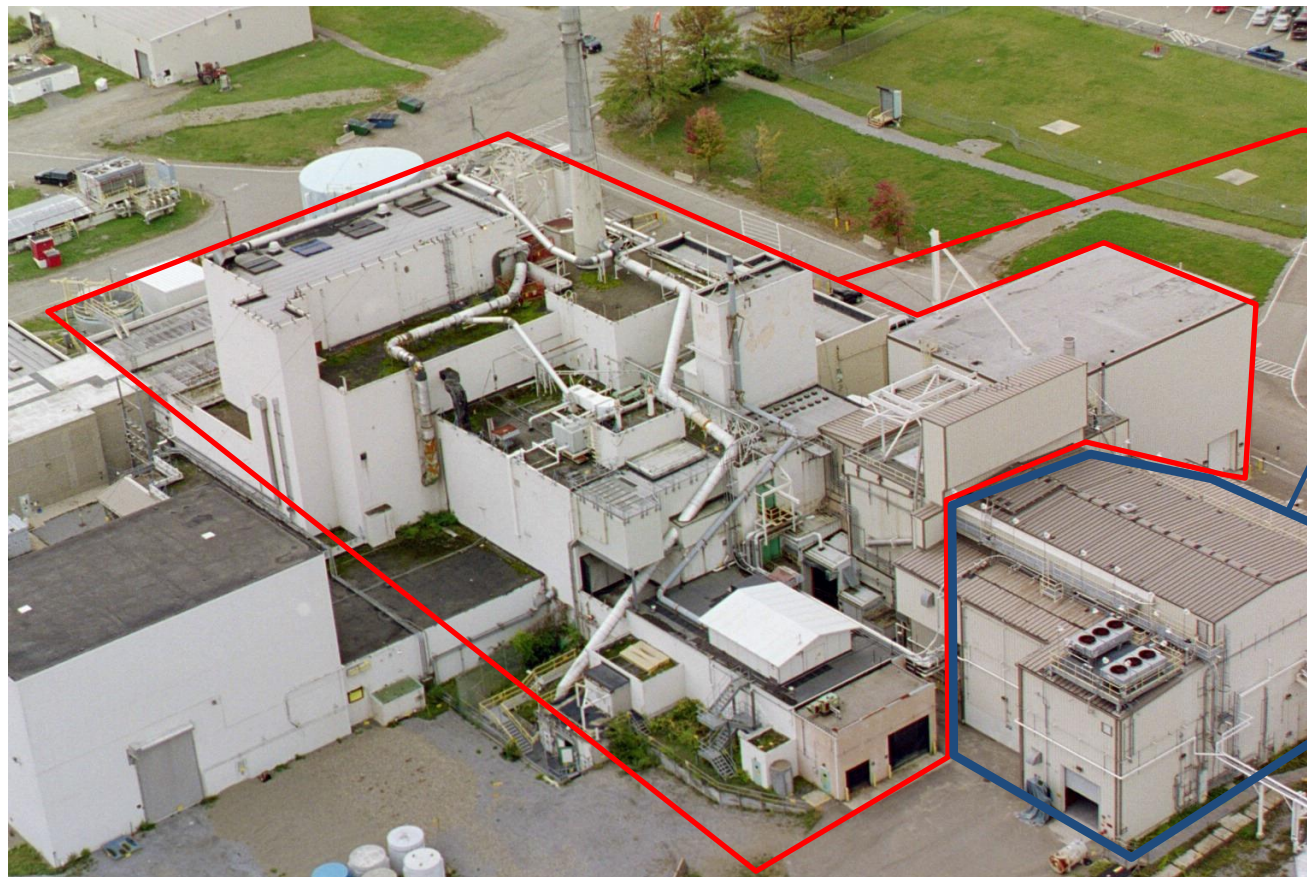
- Process, ship and dispose Legacy Waste
  - Overall Legacy Waste status
    - 165,039 ft<sup>3</sup> of 165,515 ft<sup>3</sup> LLW shipped (98% complete)
    - Approximately 17 shipments remain
  - Three large vessels in Chemical Process Cell-Waste Storage Area (CPC-WSA)
    - Separator was shipped offsite for treatment and disposal
    - Reboiler is ready for shipment in June
    - Completed size reduction of the Dissolver box bottom. Two SR boxes have been prepared to take into the Remote-Handled Waste Facility work cell for loading the size-reduced sides and box bottom.
- Planned completion July 2018

A forklift operator unloads an empty shipping box





# Deactivation Progress



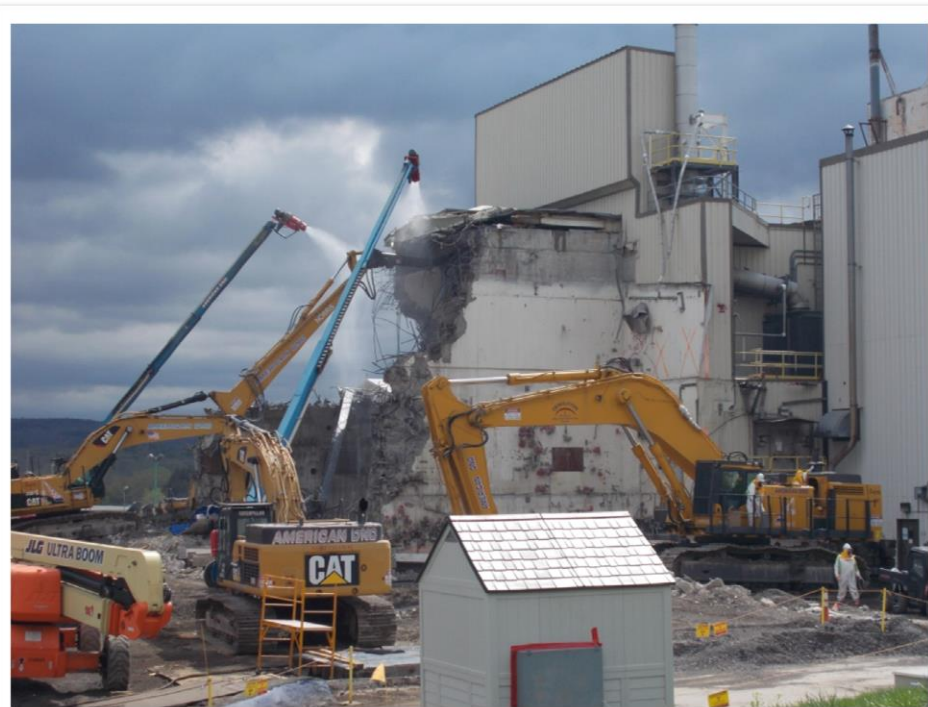
General area  
of MPPB  
demolition

General area  
of VF  
demolition

- Milestone 3 - Vitrification Facility (VF) Demolition – 64% Completed
- Milestone 3 - Main Plant Process Building (MPPB) Deactivation – 87% Completed
- Milestone 4 - Balance of Site Facilities Demolition – 20 of 47 Facilities Completed

## 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 Demolition



# Vitrification Facility Phase 2



Process Crane Removal



# Vitrification Facility Phase 2 Demolition



Vitrification process crane on floor  
May 3, 2018  
(View from inside Vitrification Facility looking down )



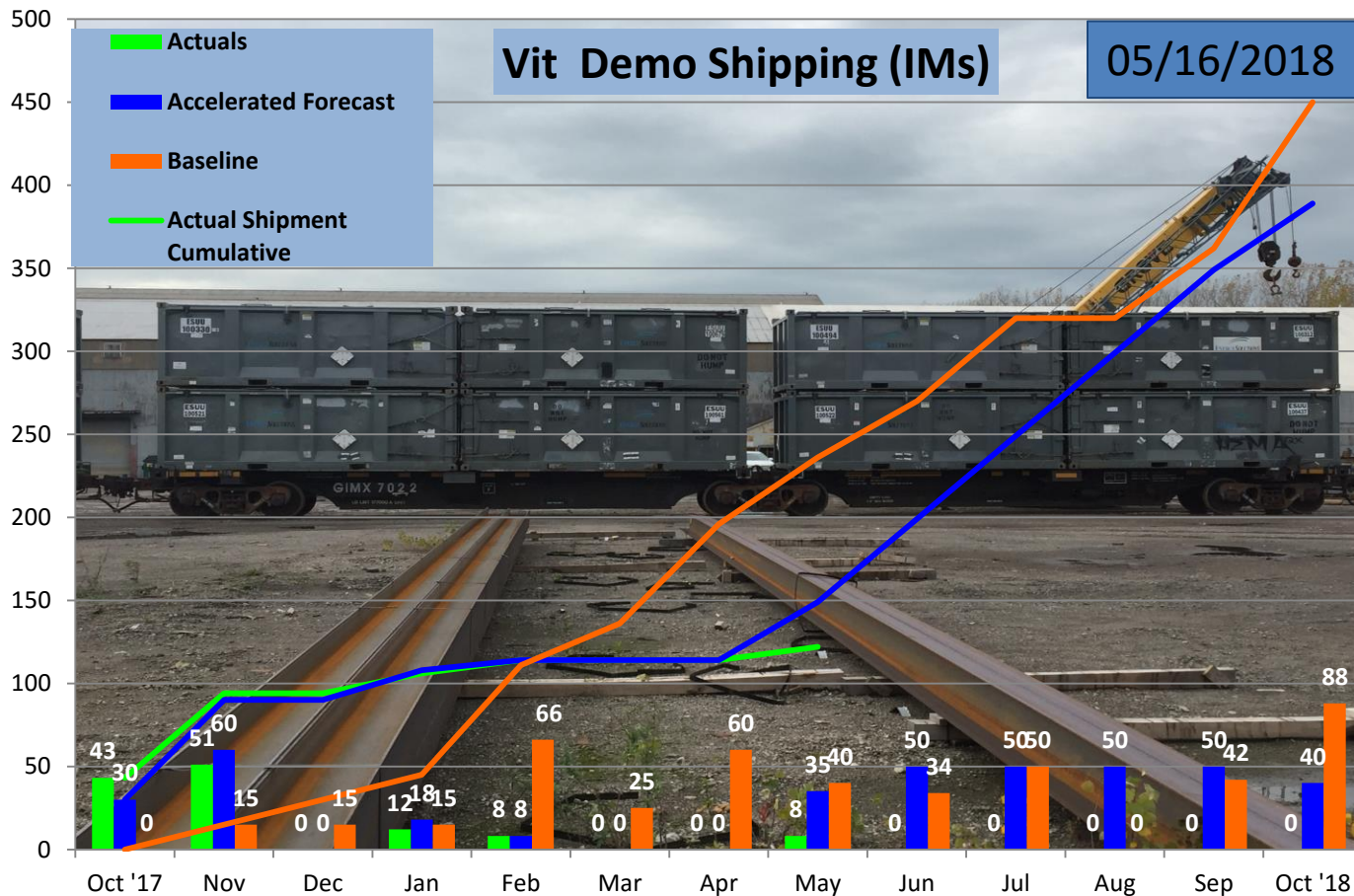
# Vitrification Facility Phase 2 Demolition



Vitrification Demolition (East Wall & Roof)

May 21, 2018

# Vitrification Facility Waste Disposal



**Expected Debris Quantity: ~450 Intermodals (IMs)**  
**Status: 197 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 – Completed ACM removal from the supply air duct on the roof that interferes with the cutting of the 36-inch vent duct
  - Process Mechanical Cell – Completed setup of grout hoses and performed grouting of PMC floor
  - Vent Wash Room – Continued cutting on the first three access openings into the scrubber unit for vacuuming debris
  - Chemical Process Cell – Performed preventive maintenance on the CPC crane in preparation for waste load-out activity from the CPC
- Overall Status: 87% Deactivated
- Planned completion November 2018



Preparing to cut 36-inch MPPB roof duct



## Milestone 4

- Performing deactivation to support removal of 47 Balance of Site Facilities
  - 20 facilities demolished to grade
  - 90% 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 May
  - Rail Spur upgrades scheduled for Summer/Fall



Completed the demolition of onsite equalization tanks, and began loading debris into intermodals