



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

WVDP Project Update

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**Quarterly Public Meeting
August 22, 2018**

Safety



Metric	July 2018 12-Month Rolling Average
TRC (12-Month Rolling Average)	1.97
DART (12-Month Rolling Average)	0.00
Last Lost-Time Case Recordable	April 24, 2017
Last Recordable Injury	July 13, 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

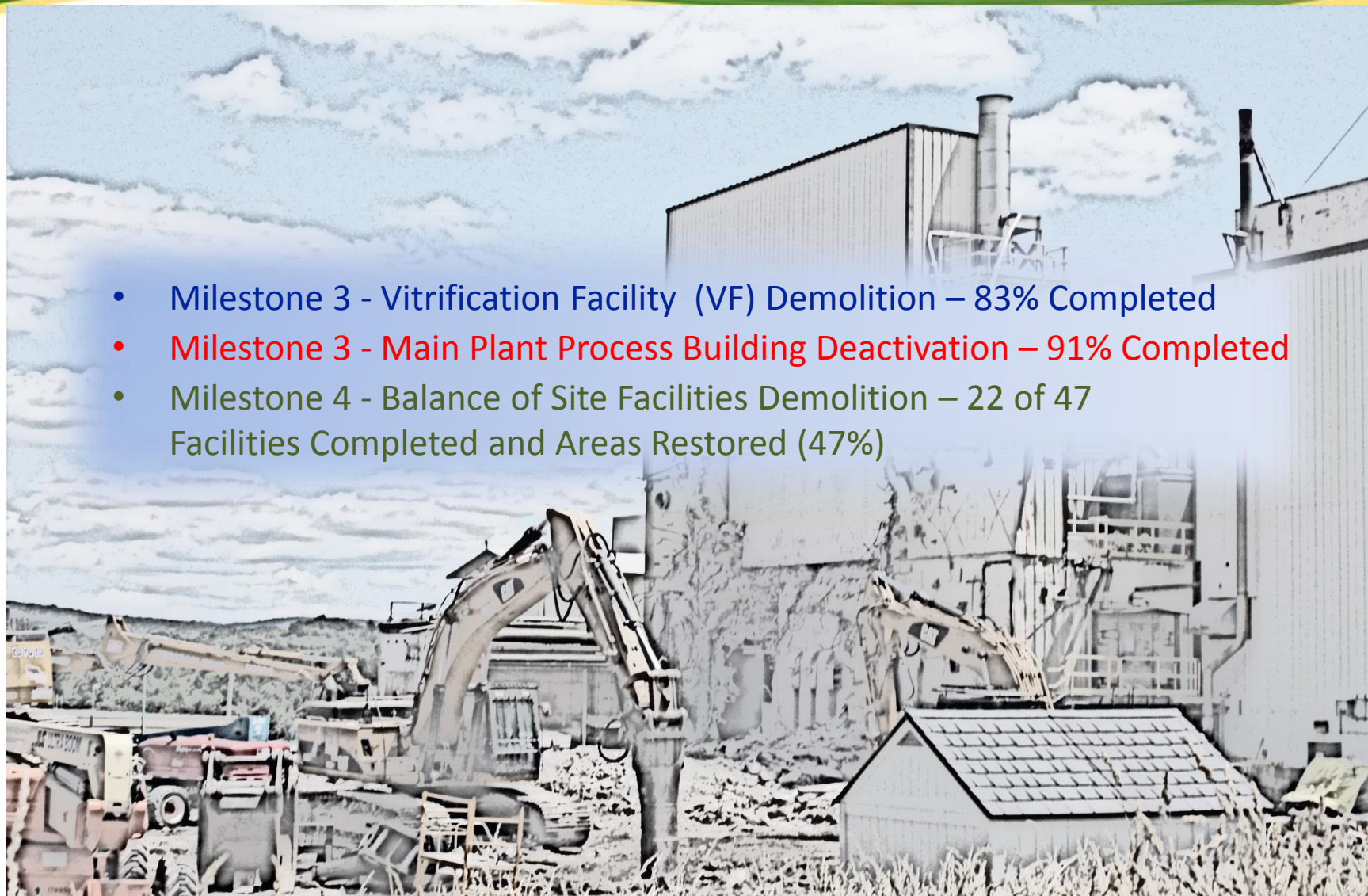
Milestone 2 (98% Complete)

- Process, ship and dispose Legacy Waste
 - Overall Legacy Waste status
 - 180,471 ft³ of LLW shipped
 - 151 containers
 - Emptied Chemical Process Cell – Waste Storage Area in preparation for its demolition (see photo)
 - One of the three large vessels remain
 - Work to process, size reduce, and package Dissolver is 95% complete
- Planned completion August 2018



Deactivation and Demolition Progress

- Milestone 3 - Vitrification Facility (VF) Demolition – 83% Completed
- Milestone 3 - Main Plant Process Building Deactivation – 91% Completed
- Milestone 4 - Balance of Site Facilities Demolition – 22 of 47 Facilities Completed and Areas Restored (47%)



Milestone 3 – Vitrification Facility

Phase 1 **Completed** (November 2, 2017)

- Outer access aisles

Phase 2 **Completed** (June 26, 2018)

- Process Cell (**completed**)
- In-Cell Coolers (**completed**)
- Shield Windows (**completed**)

Phase 3 (Ongoing)

- Crane Maintenance Room Shield Door (**completed**)
- Transfer Tunnel Shield Door (**completed**)
- Three cranes and equipment
- Transfer Tunnel walls and roof
- Secondary Filter Room roof

Planned completion September 2018



Vitrification Facility Demolition
Excavators with hydraulic hammers demolish
west and east walls

Vitrification Facility Phase 2 Demolition



Vitrification Facility Demolition, June 13
Excavator preparing demolition debris for loading

Vitrification Facility Phase 2 Demolition Completed

September 2017



Phase 2

November 2, 2017 – June 26, 2018

June 26, 2018



**Before and After
Vitrification Demolition**

Vitrification Facility Phase 3 Demolition



Removal of 100-ton Crane Maintenance
Room Shield Door

Removal of 60-ton Transfer Tunnel Shield Door

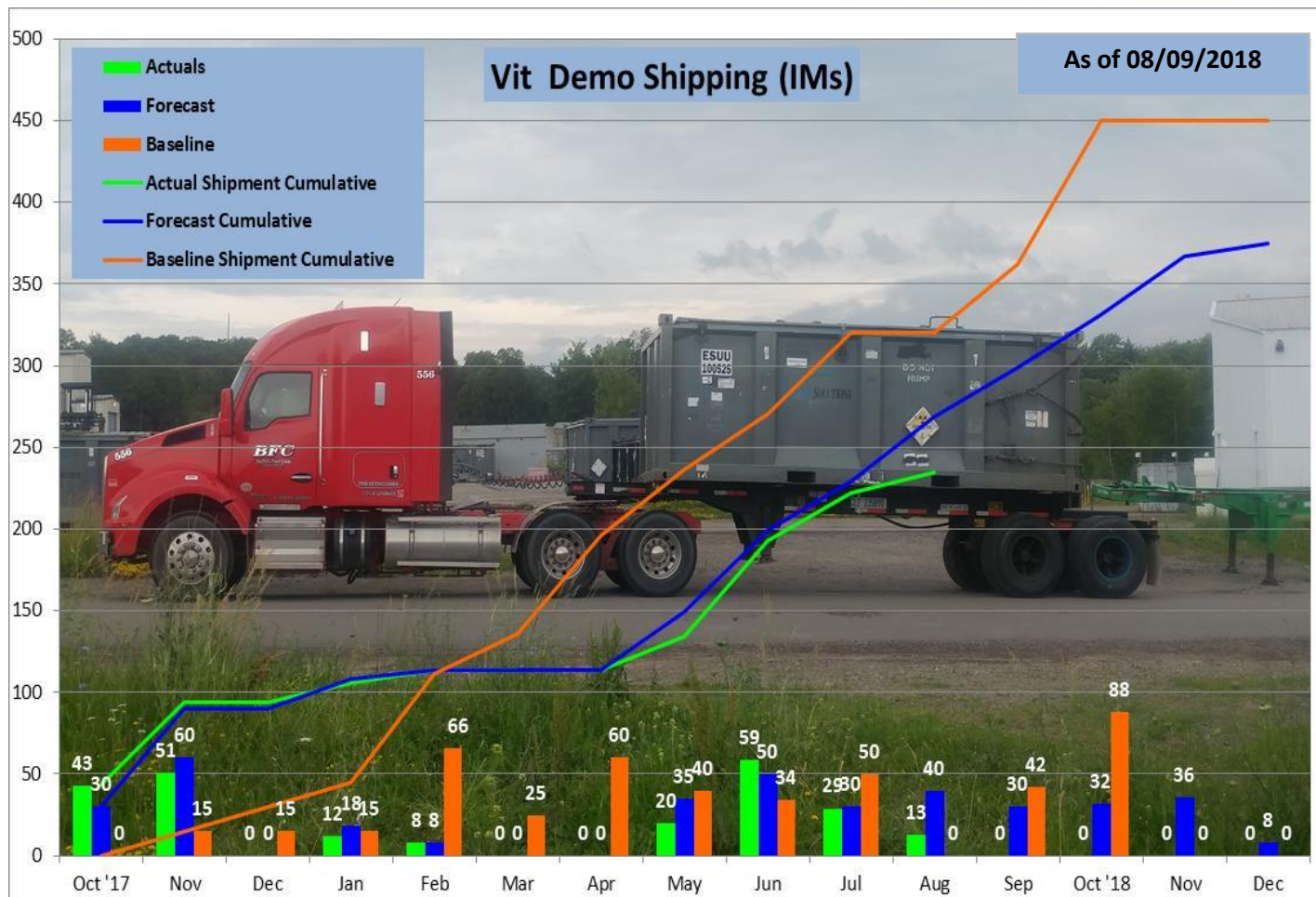


Vitrification Facility Phase 3 Demolition



Vitrification Demolition, August 13, 2018
Crews remove VIT process cranes

Vitrification Facility Waste Disposal



Expected Debris Quantity: ~377 Intermodals (IMs)

Status: 258 Intermodals Loaded; 228 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 separation cuts of the 36-inch duct on the roof, stabilized main blower units, and set-up preparations for final decon/stabilization of upper plenum
 - Process Mechanical Cell – Completed grouting of the floor, and fixative application to the upper walls and ceiling
 - Vent Wash Room – Completed coring five access openings in the west wall and cut openings in scrubber unit for vacuuming
 - Chemical Process Cell – Completed removal and waste packaging of loose equipment, tools and supplies from the cell and crane room
- Overall Status: 91% Deactivated
- Planned completion November 2018



VEC 36-inch duct
separation cuts



Balance of Site and Infrastructure (BOSF)

Milestone 4 – BOSF and Infrastructure

- Performing deactivation to support removal of 47 Balance of Site Facilities
 - Former Administration Building recently demolished
 - 22 facilities demolished and areas restored (47%)

- Reconfiguring Infrastructure for facility demolition and future site needs
 - New electrical substation
 - Installation and line testing were completed
 - Working with manufacturer on transformer
 - Civil work and 480-V pulls were completed
 - Underground utility surveys have been completed for the new natural gas distribution system
 - Rail Spur upgrades began the week of July 9 (Planned completion September 7)



Administration Building Demolition

