



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
ENVIRONMENTAL
MANAGEMENT

WVDP Project Update

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

Safety



Metric	November 2017 12-Month Rolling Average
TRC (12-Month Rolling Average)	2.0
DART (12-Month Rolling Average)	1.0
Last Lost-Time Case Recordable	April 12, 2017
Last Recordable Injury (arm strain)	October 16, 2017



2017 Accomplishments

- ✓ Recertified as a DOE-Voluntary Protection Program STAR site
- ✓ Accelerated offsite legacy waste shipments
- ✓ Achieved significant progress toward preparing the Main Plant Process Building for demolition
- ✓ Completed major site infrastructure upgrades
- ✓ Successfully partnered with DOE toward reconfiguring site's electric supply delivery system
- ✓ Conducted support initiatives to benefit local communities

Contract Scope

Milestone 1

- ✓ Complete relocation of 275 HLW canisters and 3 non-conforming HLW canisters to long-term interim storage (**Complete**)

Milestone 2

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

Milestone 3

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

Milestone 4

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

Legacy Waste Processing

Milestone 2

- Process, ship and dispose Legacy Waste
 - Overall Legacy Waste status
 - 142,470 ft³ of 165,515 ft³ shipped
 - 86% complete
 - Approximately 30 shipments remain
 - Three large vessels in Chemical Process Cell-Waste Storage Area (CPC-WSA)
 - First moved out of CPC-WSA for processing
 - Second being prepped for processing
 - Third will be shipped intact for processing offsite
- Planned completion September 2018

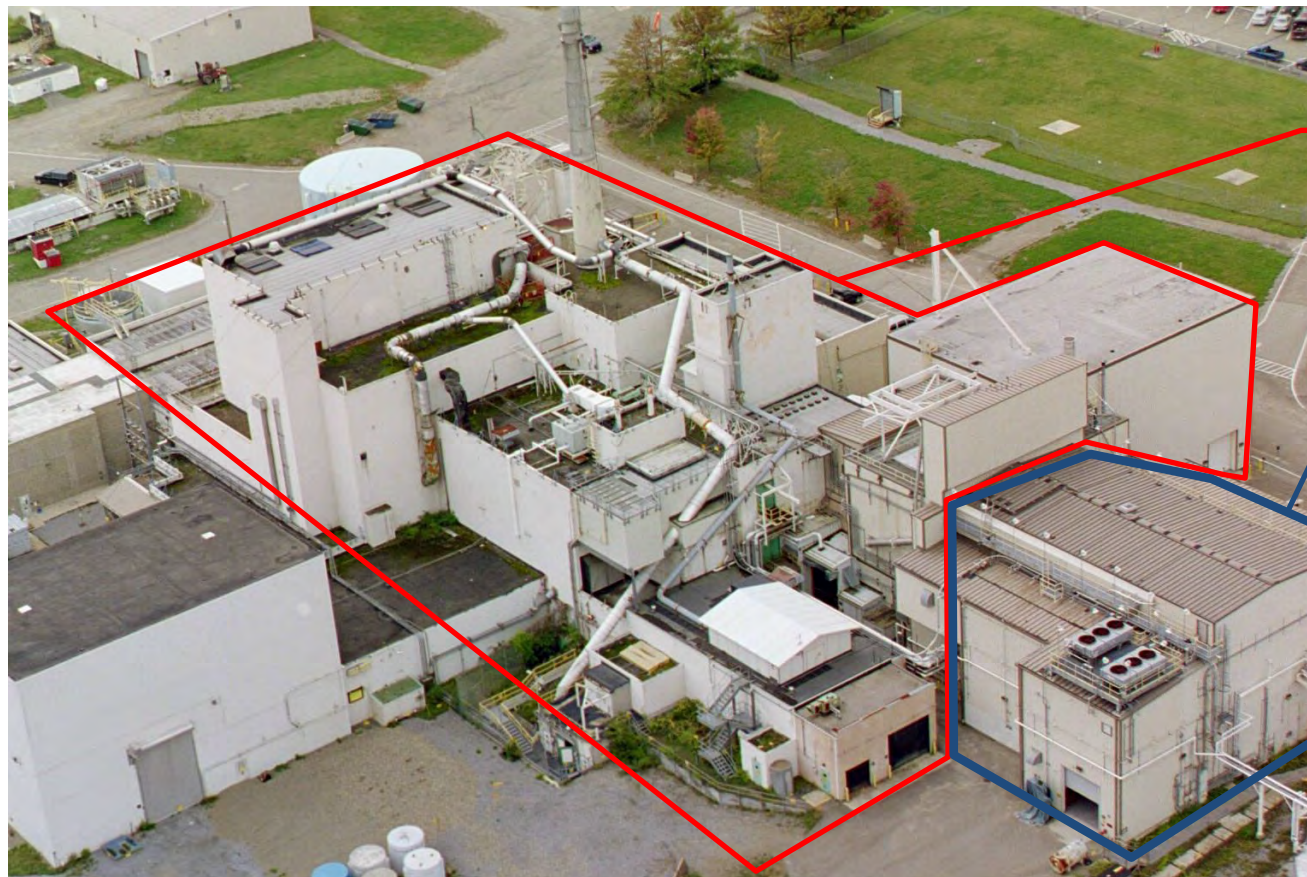
One of the large components sits in the doorway of the CPC-WSA



Filled waste boxes moved to onsite shipment-ready area



Deactivation Progress



General area
of MPPB
demolition

General area
of VF
demolition

- Milestone 3 - Vitrifaction Facility (VF) Demolition – 47% Completed
- Milestone 3 - Main Plant Process Building (MPPB) Deactivation – 80% Completed
- Milestone 4 - Balance of Site Facilities Demolition – 19 of 47 Facilities Completed

Milestone 3 – Vitrification Facility

Milestone 3 – Vitrification Facility

- Demolition began
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 March 2018



Vitrification Facility Phase 2 Demolition



Vitrification Facility East Side – November 27, 2017

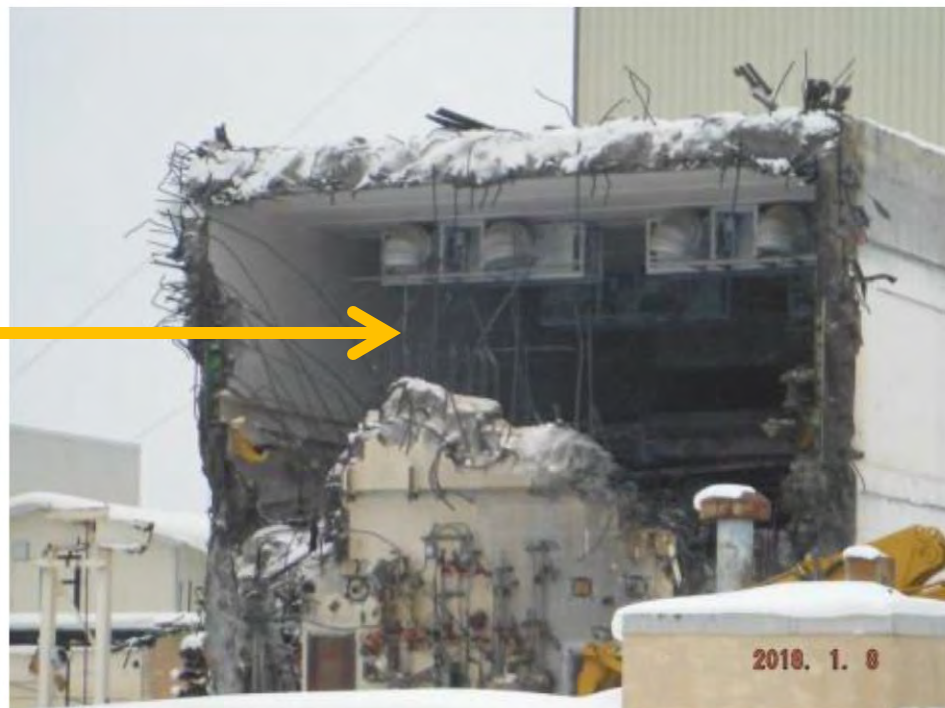


Vitrification Facility West Side – December 13, 2017

Vitrification Facility Phase 2 Demolition (Cont.)

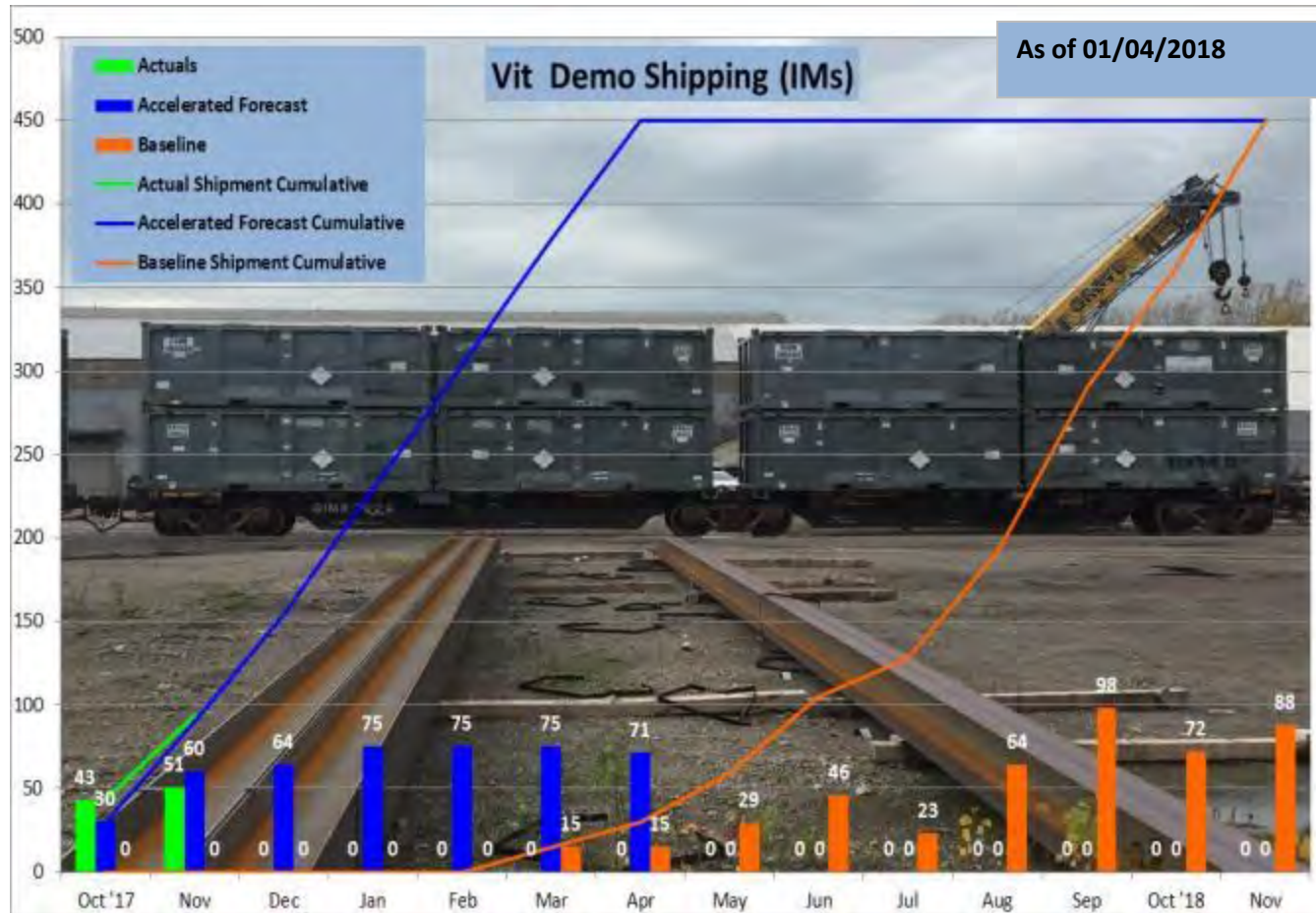


Inside Vitrification Cell



Vitrification Facility – January 8, 2018

Vitrification Facility Waste Disposal



Expected Debris Quantity: ~450 Intermodals (IMs)

Status: 111 Intermodals Loaded; 94 Intermodals Shipped

MPPB Deactivation

Milestone 3 – Main Plant Process Building (MPPB)

- Seven crews are performing deactivation and decontamination in MPPB
 - Asbestos-containing material (ACM) removal
 - Deactivation in radiological areas
- Several new areas now demolition-ready
 - Uranium Process Cell and Uranium Loadout
 - Acid Recovery Pump Room
 - Off Gas Cell Blower Room
 - Head End Ventilation
- Overall Status: 80% Deactivated



Extraction Cell-1 in 2014



Extraction Cell-1 in 2017

Balance of Site and Infrastructure

Milestone 4

- Performing deactivation to support removal of 47 Balance of Site Facilities
 - 19 facilities demolished and areas restored to date
- Reconfiguring Infrastructure for facility demolition and future site needs
 - All data and phone equipment is now located in the new data center
 - New electrical substation
 - Installation underway
 - Conduit installed
 - Expect operational in April 2018
 - Rail Spur upgrades scheduled for Spring



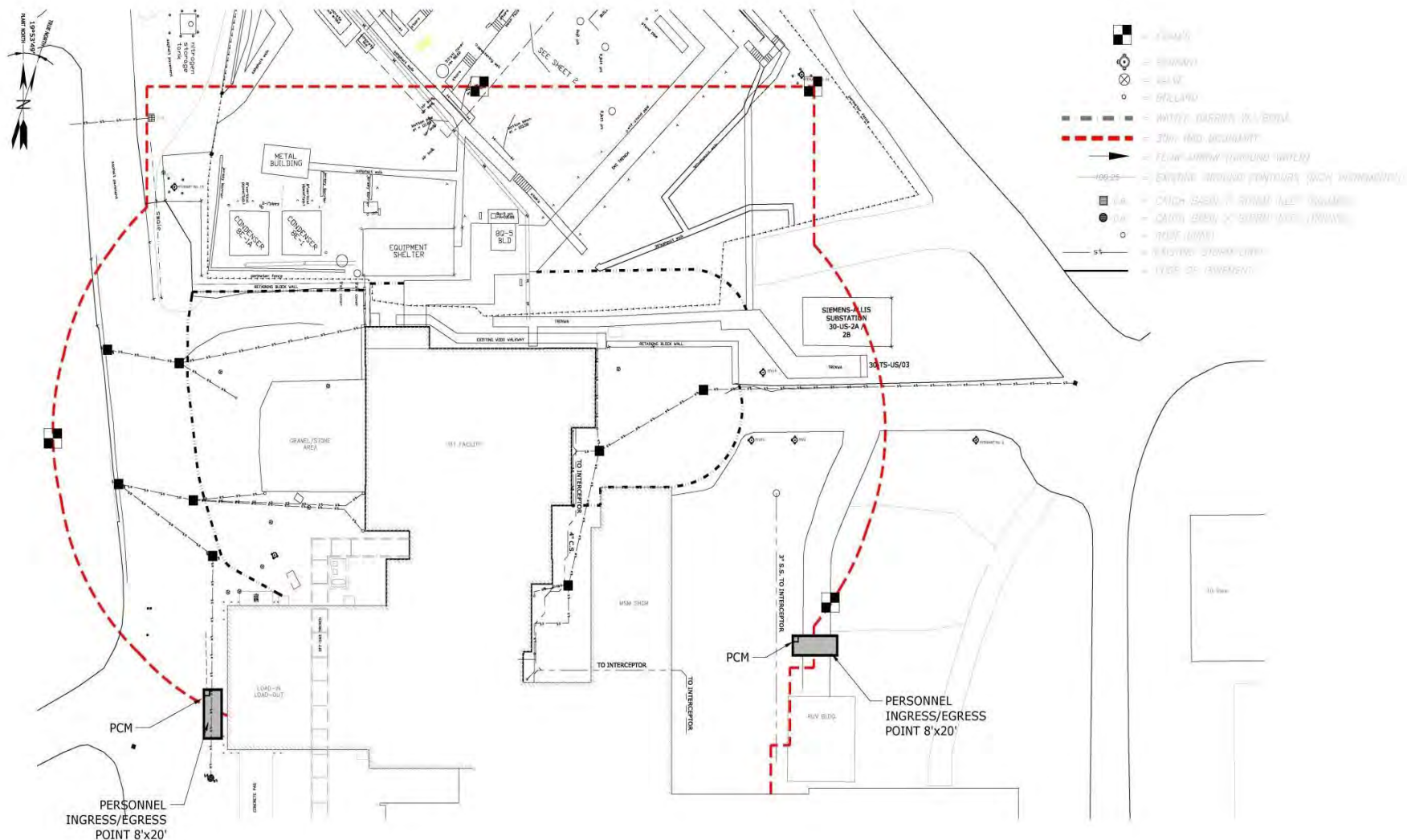
Pole being installed for new electrical substation

2018 Goals

- Perform All Work Safely and Compliantly
- Complete Disposition of Legacy Waste
- Complete Vitrification Facility Demolition
- Complete Main Plant Process Building Deactivation and Begin Demolition
- Initiate Off-site Rail Shipments
- Complete Gas and Electric Reconfiguration to Support Facility Demolition
- Complete Communications and Computer System Migration to New Data Center

Follow up From Past Meetings

Vitrification Facility Demolition Boundaries and Features



Vitrification Facility Demolition Air Monitoring Locations



Response to Potable Water Monitoring Inquiry

- Potable Water Sampling Results are available in the Annual Site Environmental Report (ASER)
 - Available online at
https://www.wv.doe.gov/Document_Index/ASER_2016/2016_ASER.pdf
 - Appendix B-5 Potable Water (Drinking Water) Data