



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

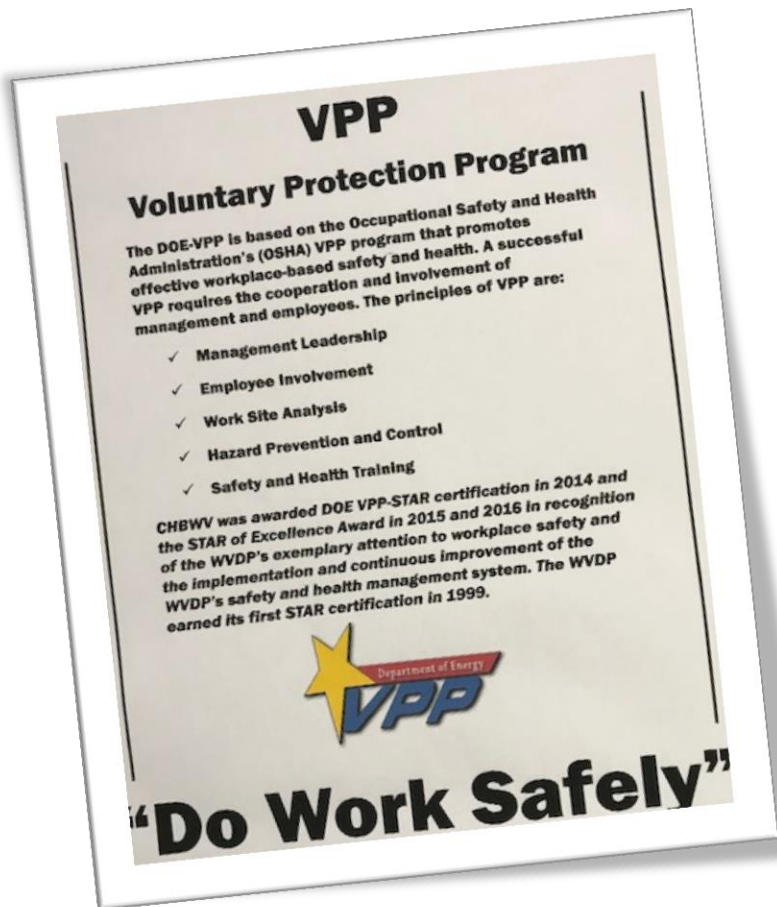
WVDP Project Update

Scott Anderson

Deputy General Manager

**Quarterly Public Meeting
February 28, 2018**

Safety



Metric	February 2018 12-Month Rolling Average
TRC (12-Month Rolling Average)	1.67
DART (12-Month Rolling Average)	.67
Last Lost-Time Case Recordable	April 24, 2017
Last Recordable Injury (arm strain)	November 28, 2017



2017 Accomplishments

- ✓ Began Vitrification Demolition (September 11, 2017)
- ✓ 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

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 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
 - 149,670 ft³ of 165,515 ft³ shipped
 - 90% complete
 - Approximately 24 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

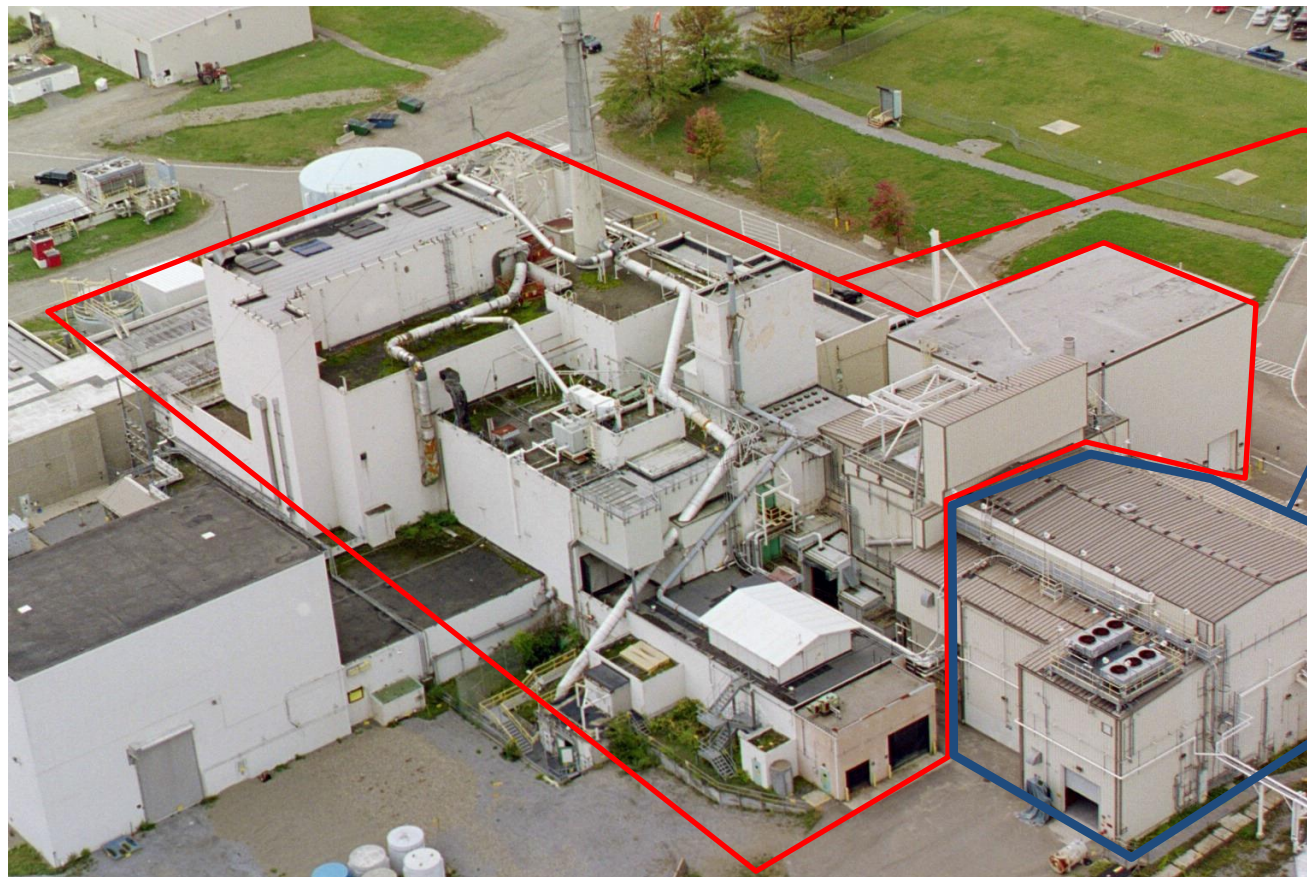
One of the large components sits in the doorway of the CPC-WSA



Filled waste boxes moved to onsite shipment-ready area



Deactivation Progress



General area
of MPPB
demolition

General area
of VF
demolition

- Milestone 3 - Vitrification Facility (VF) Demolition – 50% Completed
- Milestone 3 - Main Plant Process Building (MPPB) Deactivation – 82% Completed
- Milestone 4 - Balance of Site Facilities Demolition – 19 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 Spring/Summer



Removal of first shield window from the
Vitrification Facility
January 18, 2018

Vitrification Facility Phase 2 Demolition



Removal of second shield window from the
Vitrification Facility
January 19, 2018

Vitrification Facility Phase 2 Demolition

Shearing vitrification cell liner
January 31, 2018

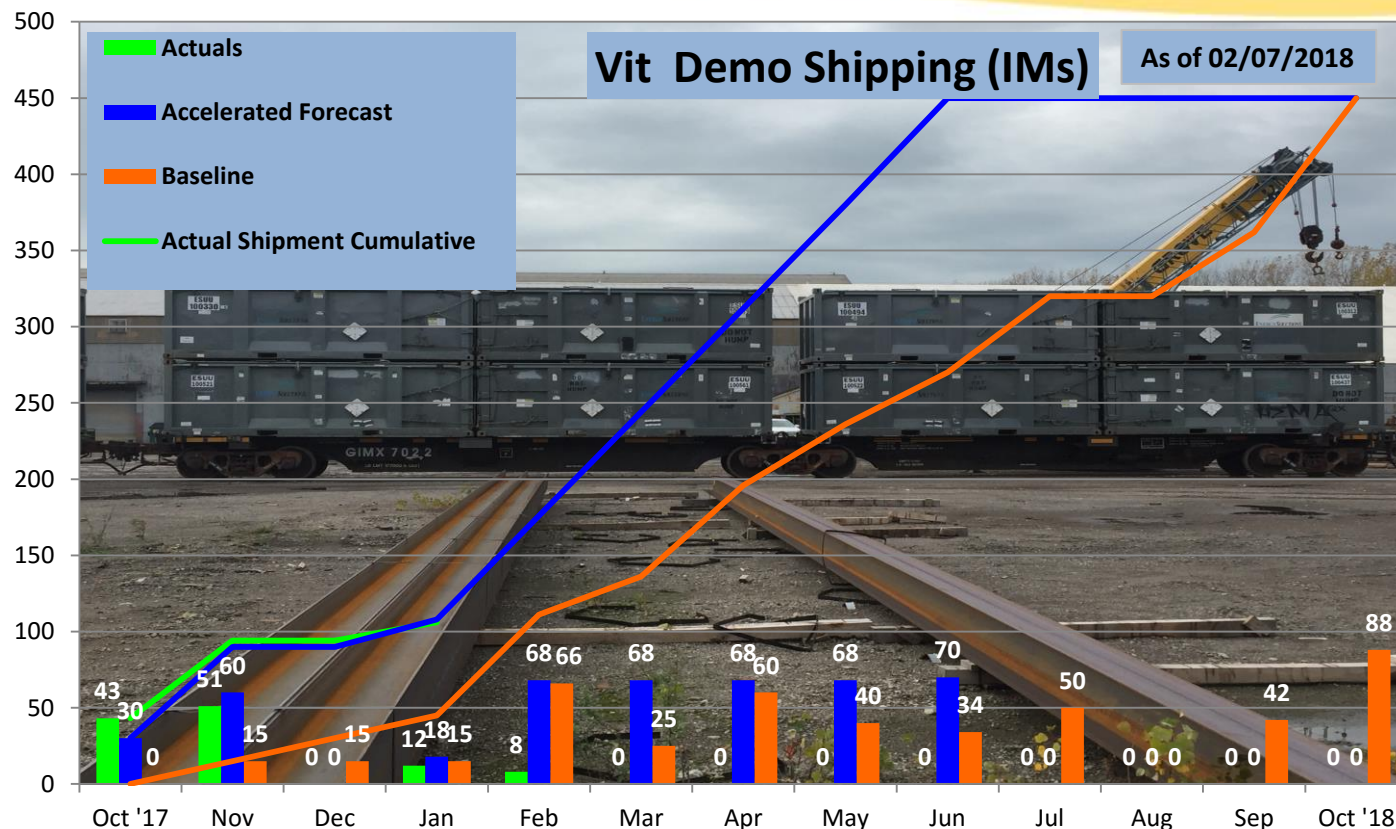


Vitrification Demo Equipment



(Left Photo) hydraulic hammer attachment and (Right Photo) turbo mister

Vitrification Facility Waste Disposal



Expected Debris Quantity: ~450 Intermodals (IMs)

Status: 129 Intermodals Loaded; 114 Intermodals Shipped

MPPB Deactivation

Milestone 3 – Main Plant Process Building

- Six groups 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: 82% Deactivated

Chemical Process Cell Crane Room



South Ledge Before Decontamination



South Ledge After Decontamination

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
 - Received approval from County Health Department to connect new potable water distribution system
 - New electrical substation
 - Completed installation of cross braces on power poles
 - Scheduled power line installation on March 2
 - Expect operational in April 2018
 - Rail Spur upgrades scheduled for Spring/Summer



Work being performed on the site's fire loop

- 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