



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

WVDP Project Update

John Rendall
Deputy General Manager

Quarterly Public Meeting
May 22, 2019

Safety



Metric	April 2019 12-Month Rolling Average
TRC (12-Month Rolling Average)	1.74
DART (12-Month Rolling Average)	0.35
Last Lost-Time Case Recordable	April 2017
Last Recordable Injuries	March 2019

- On March 31, at approximately 9:35 PM EDT, the West Valley Demonstration Project was notified that a truck carrying 14 low-level radioactive waste boxes had driven off the road in the Town of Tonopah, Nevada (near U.S. Routes 6 and 95).
- On-site emergency personnel evaluated the truck and its cargo and found no damage to the vehicle or load. There was no container breach, no release of materials, and no threat to the driver, emergency responders or the public.
- The driver, a subcontractor, was taken by ambulance to a Las Vegas hospital for evaluation, and was later released.
- The subcontractor and a nearby towing company stabilized the vehicle and towed it to the company's facility for storage. A second subcontractor driver, already in the area, picked up the truck and its load and delivered it to its final destination.
- Emergency response was outstanding and demonstrated the capability to respond to an emergency in a timely manner, including an off-hour emergency.

7D-4 TRU Waste Container

- On April 12, workers discovered radiological contamination on the tines of a forklift after relocating a TRU waste container from one storage location to another.
- Follow-up radiological surveys identified low-level contamination on shoes and on the bottom of coveralls of some of the workers. All workers involved with this incident cleared the personal contamination monitor after removing boots and/or articles of clothing (contaminated).
- Contamination was also found on the travel path and cribbing used to support the waste container.
- Upon confirmation that a TRU waste container was potentially leaking, the Alternate Emergency Operations Center was activated to direct with emergency response and area recovery.
- Immediate action was taken to secure the waste container and isolate contamination.
- The operational emergency was terminated that same day.
- No airborne contamination was detected.
- As with the transportation event, the response to the emergency was outstanding.

- On April 25, while monitoring cleanup from the 7D-4 incident, a Radiological Control Technician (RCT) discovered radiological contamination in the adjacent posted Radiological Material Area (RMA) on the LSA-2 Hardstand.
- Initial notifications were made in accordance with existing procedures and the area controlled. Offsite notifications were made to DOE-HQ, DOE-EMCBC, NYSERDA, CHBWV Corporate, and Cattaraugus County (courtesy notification).
- Radiological surveys indicated the soil contamination was subsurface, and likely legacy contamination (i.e., not related to previous 7D-4 container relocation).
- Response actions included stormwater management enhancements by placing stone and wattles to isolate area. Outfalls surveyed and no detectable contamination was found.

Milestone 1

- Complete relocation of 275 HLW canisters and 3 non-conforming HLW canisters to Long-term Interim Storage (Completed February 2017)

Milestone 2

- Process, ship, dispose of all Legacy Waste, not including Transuranic Waste (Completed September 2018)

Milestone 3

- Demolish and remove the Vitrification Facility and Main Plant Process Building (Deactivation ongoing, DOE is reviewing input from CHBWV regarding MPPB demolition – previously deferred)

Milestone 4

- Complete all work in Performance Work Statement, including Balance of Site Facilities, Surveillance and Maintenance, and Site Operations (Ongoing)

Deactivation and Demolition Progress

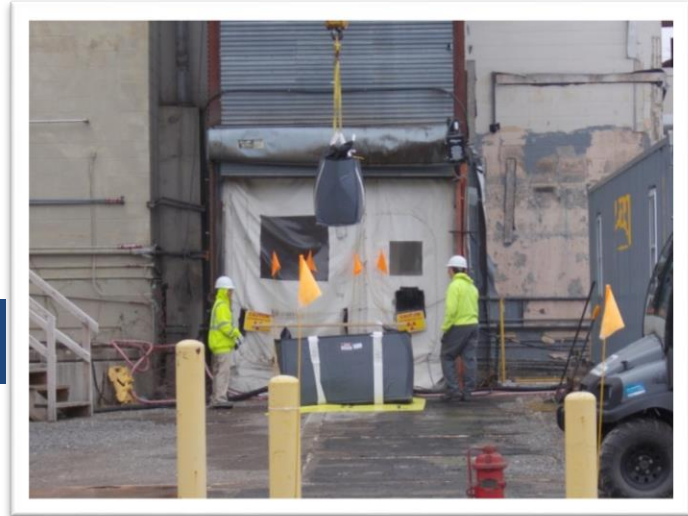
- **Milestone 3 - Main Plant Process Building Deactivation – 98% Completed**
- **Milestone 4 - Balance of Site Facilities Demolition – 34 of 47 Facilities Completed and Areas Restored (72%)**



Main Plant Process Building Deactivation (MPPB) – Milestone 3

- Five crews are performing deactivation and decontamination in MPPB
 - Continued Asbestos-Containing Material (ACM) wall plaster material removal from the south wall of the Control Room
 - Completed deactivation in the Chemical Operating Aisle

ACM removal from the fourth floor of the Main Plant



New Work Scope

- MPPB New Scope (added when Main Plant was deferred):
 - General Purpose Cell (GPC) Crane Room (GCR)/GPC Operating Aisle – Completed installation of additional video cameras, performed video inspections, and continued repairs on the PaR arm control cabinet. Performed a functional test of the PaR (85% functional).
 - Product Purification Cell-South (PPC-S) – Completed cleanup of an ACM disturbance on the Waste Reduction and Packaging Area dock in support of access to the PPC-S.
 - Fuel Receiving and Storage (FRS) Facility – Removed and relocated two High-Integrity Containers (HICs). Completed installation of a work platform on the lower bridge crane that will be used for ACM removal.

Fuel Receiving and Storage



Product Purification Cell-South



New Work Scope



High-Integrity Container relocation from FRS

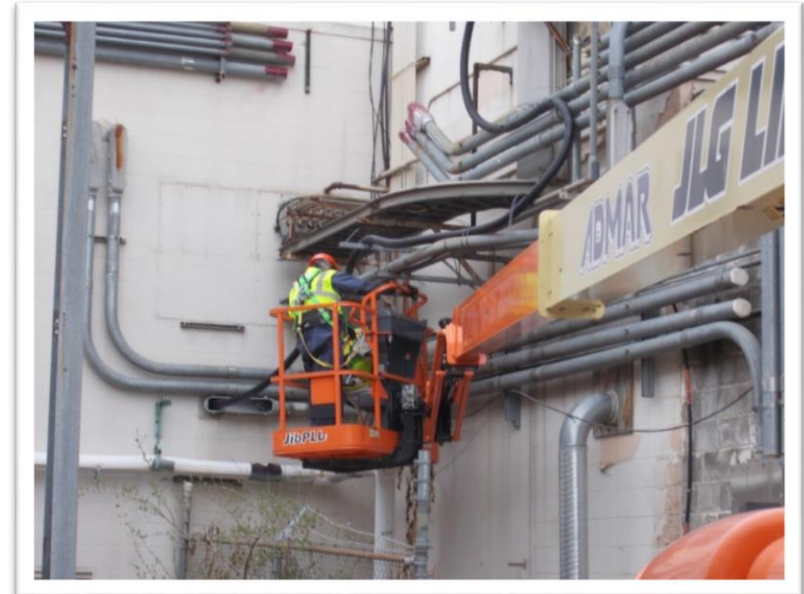


Demolition of 7 Ancillary Support Structures – Milestone 3

- Three out of seven buildings have been completed:
 - Contact-Size Reduction Facility
 - Manipulator Repair Shop
 - Laundry Facility
- Next demolitions:

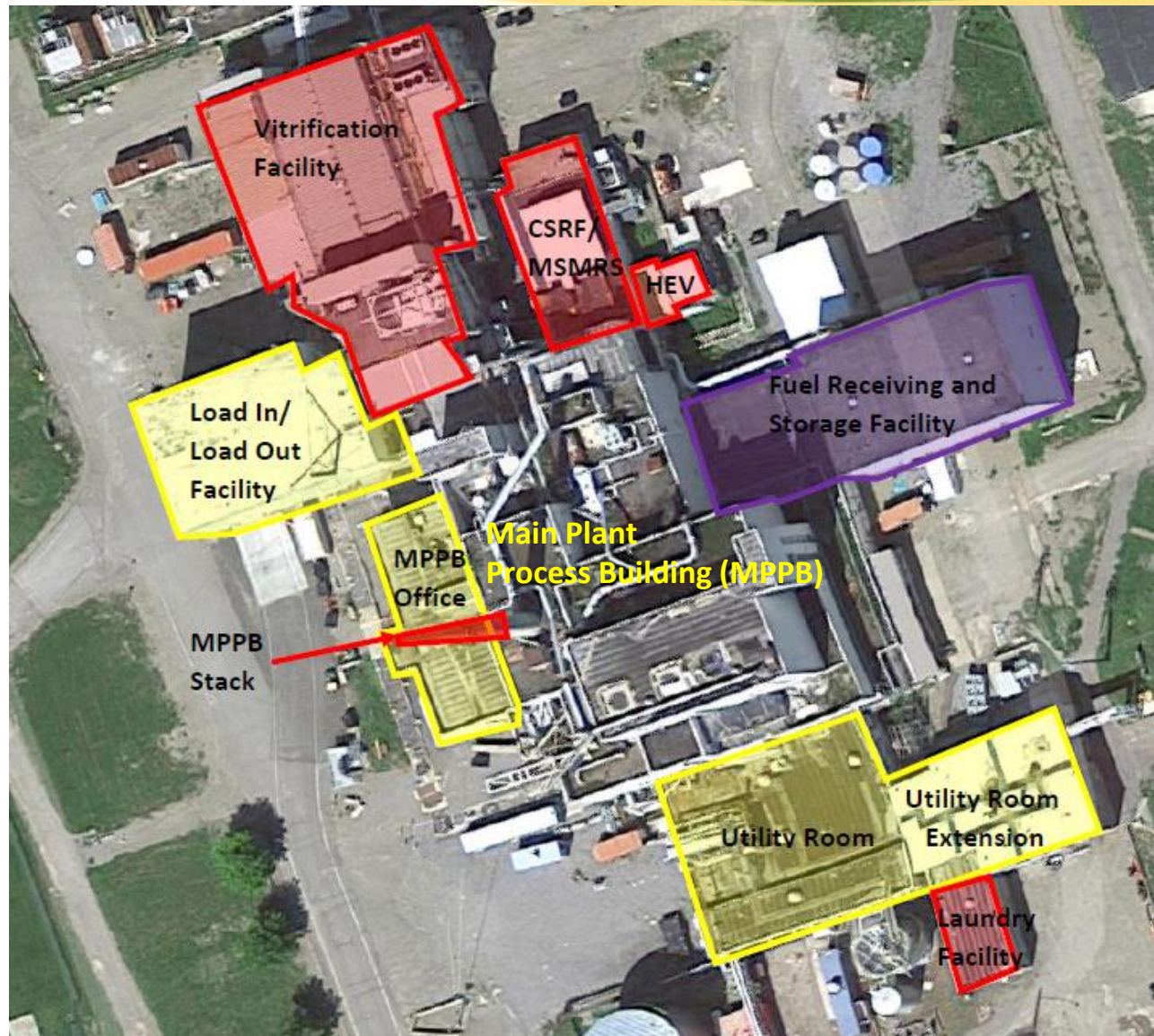
	<u>Schedule</u>
• Utility Room Extension	July 24
• Main Plant Office	August 13
• Load-In Facility	Sept. 23
• Utility Room	Oct. 10

NOTE: *Schedule subject to change*



Workers isolate utility connections in preparation for Utility Room Extension demolition

Demolition of Seven Ancillary Support Structures – Milestone 3



Removal Completed

Removal Planned for 2019

New Deactivation

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

- Performing deactivation to support removal of 47 Balance of Site Facilities
 - Completed demolition of Low-Level Wastewater Treatment O2 Pad on March 27
 - Began demolition work on Liquid Pretreatment System (LPS) building located in the NRC-Licensed Disposal Area and Utility Room Extension
 - 34 facilities demolished and areas restored
- Reconfiguring infrastructure for facility demolition and future site needs
 - New electrical substation
 - Phase 2 Summer 2019 (connect to National Grid's new 34.5 kV feed line)



Inside look view of LPS during
demolition preparations



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

Demolition of former Low-Level Wastewater Treatment O2 Pad (Completed)



Before



After

Liquid Pretreatment System Demolition



Upcoming Demolitions

- **Waste Tank Farm Shelter and Condensers**



- **Chemical Process Cell – Waste Storage Area**

