

WVDP Project Update Main Plant Process Building Controlled Deconstruction

Jason Casper, CHBWV President and GM

Citizen Task Force Meeting

April 23, 2025



U.S. DEPARTMENT
of ENERGY

AGENDA

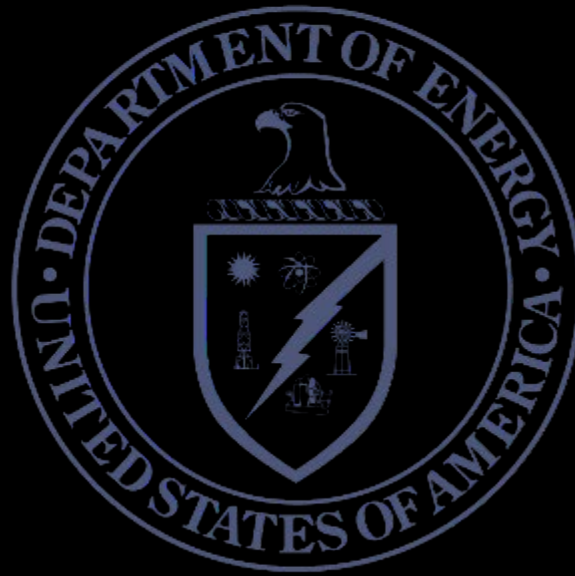
- Safety Stats
- Main Plant Process Building Deconstruction
 - 3-D Model View
 - March 2025 Aerial Photo
 - Progress Photos (Product Purification Cell)
- Waste & Site Operations
- Questions



SAFETY STATS

Metric	12-Month Rolling Average
Total Recordable Cases (TRC)	0.59
Days Away Restricted or Transferred (DART)	0.00
Last Lost Time Case Recordable	April 17, 2023
Last Recordable Injury	January 17, 2025

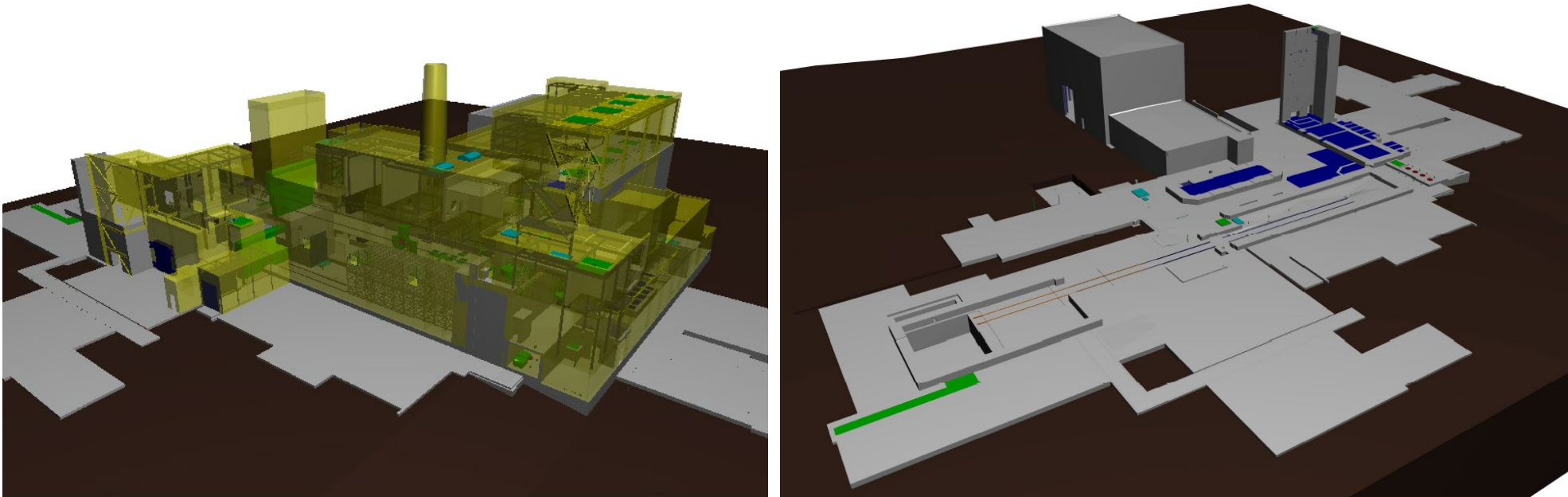




U.S. DEPARTMENT *of* ENERGY

MAIN PLANT PROCESS BUILDING
DECONSTRUCTION
(MPPB)

MPPB Deconstruction



3-D Model of Main Plant Deconstruction
(Completed areas in Yellow, Areas remaining in Gray)



MPPB Deconstruction



Main Plant west side before deconstruction (June 2022)



Main Plant west side after deconstruction (April 2025)



Product Purification Cell – Aerial Photos



Product Purification Cell-(PPC): Background

The PPC was used to house vessels associated with plutonium separation, concentration, material controls, and batching for shipping. Prior to the start of demolition of the PPC-S, the crews removed more than 98 percent of the contamination. Some details on PPC-S:

- PPC-S dimensions: 5 ft. x 16 ft. x 57 ft. high
- PPC-S provided unique challenges for decontamination due to its large source of radioactive material and the configuration of the cell
- Utilized liquid nitrogen (at -320°F) at pressures up to 60,000 psi (pounds per square inch) to provide an aggressive, yet safe, cleaning application to remove residual contamination
- Decontamination was accomplished by removing at least 1/8" of the surface (scabble) and safely collecting the material in a vacuum system for disposal (did not create a secondary waste stream)
- This cell was a potentially oxygen-deficient confined workspace that required additional planning and work controls, including a trained and ready confined space rescue team



**PPC-S: Bottom looking up
(after decontamination efforts)**



MPPB Deconstruction – PPC (Cont.)



MPPB Deconstruction – PPC (Cont.)





U.S. DEPARTMENT *of* ENERGY

Waste and Site Operations

Waste and Site Operations

MPPB Deconstruction Waste Support (as of April 3)

- Shipped a total of 1,308 intermodals or 218 rail cars of debris (25,508 tons)
- Shipped a total of 94 Specialty Boxes removed from the MPPB Deconstruction Project (873 tons)
- Continue to receive and prepare boxes



Waste and Site Operations

Waste Tank Farm:

- Waste Tank Farm pump (SP-339) overpacked and shipped on October 30, 2024
 - Waste Tank Farm pumps (SP-340 and SP-341) overpacked in December 2024
 - Waste Tank Farm pump (SP-372) overpacked in March 2025
- Shipped (SP-340 and SP-341) on March 26, 2025
- Shipped (SP-372) on March 27, 2025



QUESTIONS



U.S. DEPARTMENT
of ENERGY
