

U.S. DEPARTMENT *of* ENERGY

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Office of Environmental Management  
**Waste Isolation Pilot Plant**

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James Mason  
Institutional Affairs Program Manager  
Carlsbad Field Office

Bobby St. John  
External Communications Manager  
Salado Isolation Mining Contractors

# Waste Isolation Pilot Plant Mission



To provide safe and compliant characterization, transportation, and disposal of the United States' defense transuranic (TRU) waste while protecting workers, the public and the environment.



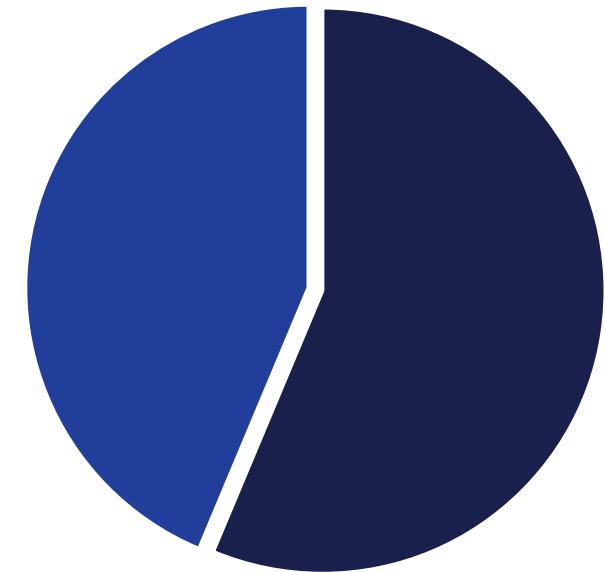
# WIPP TRU Waste Disposal

- WIPP Land Withdrawal Act (LWA)
- Defense generated transuranic waste
- Must meet WIPP Waste Acceptance Criteria
- WIPP transuranic waste capacity 6.2M ft<sup>3</sup>
  - Current volume capacity filled = 2.7M ft<sup>3</sup> (~45%)



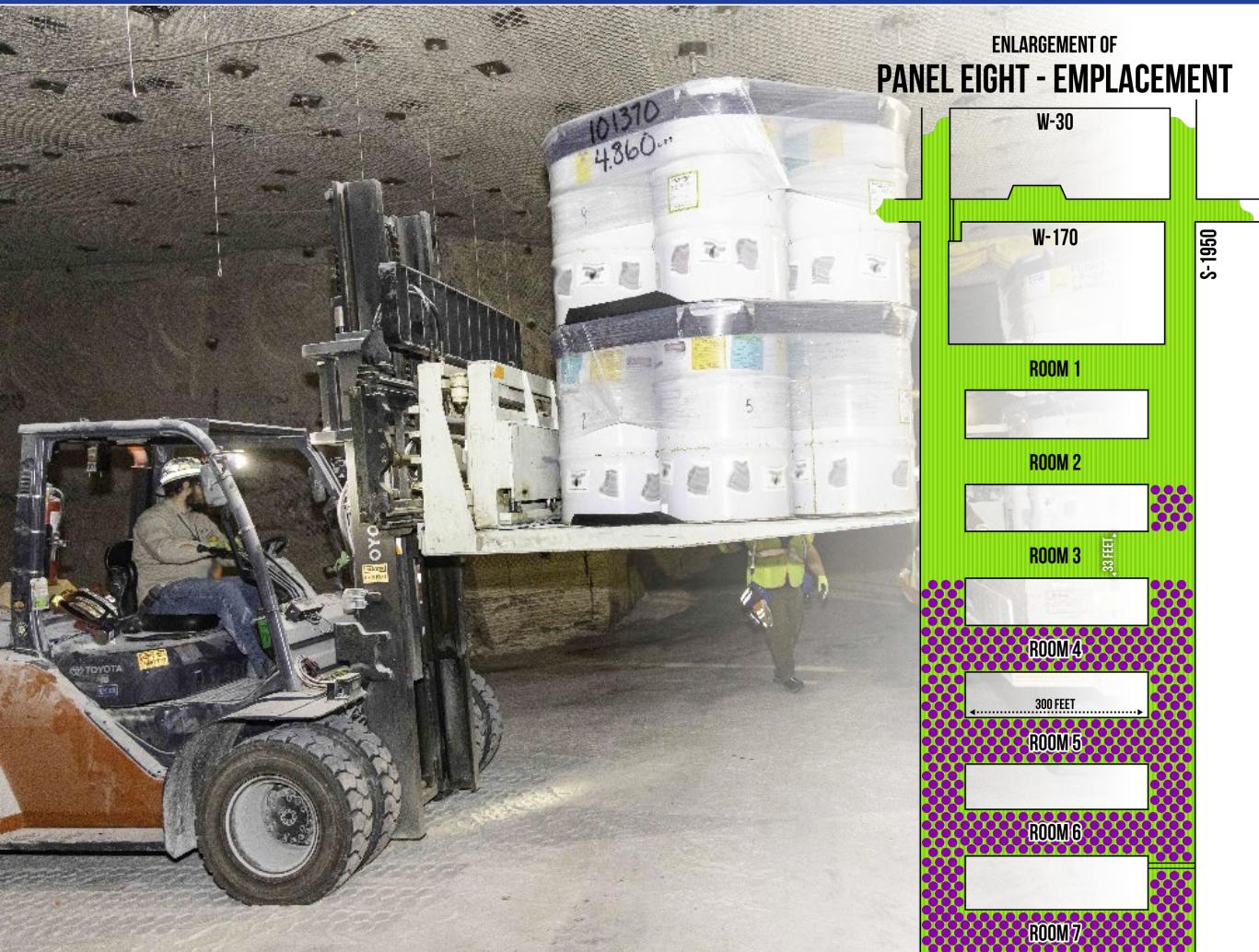
Waste drums safely emplaced in a WIPP underground repository room

WIPP transuranic waste capacity  
(cubic feet)



▪ LWA remaining capacity

# Waste Emplacement Update



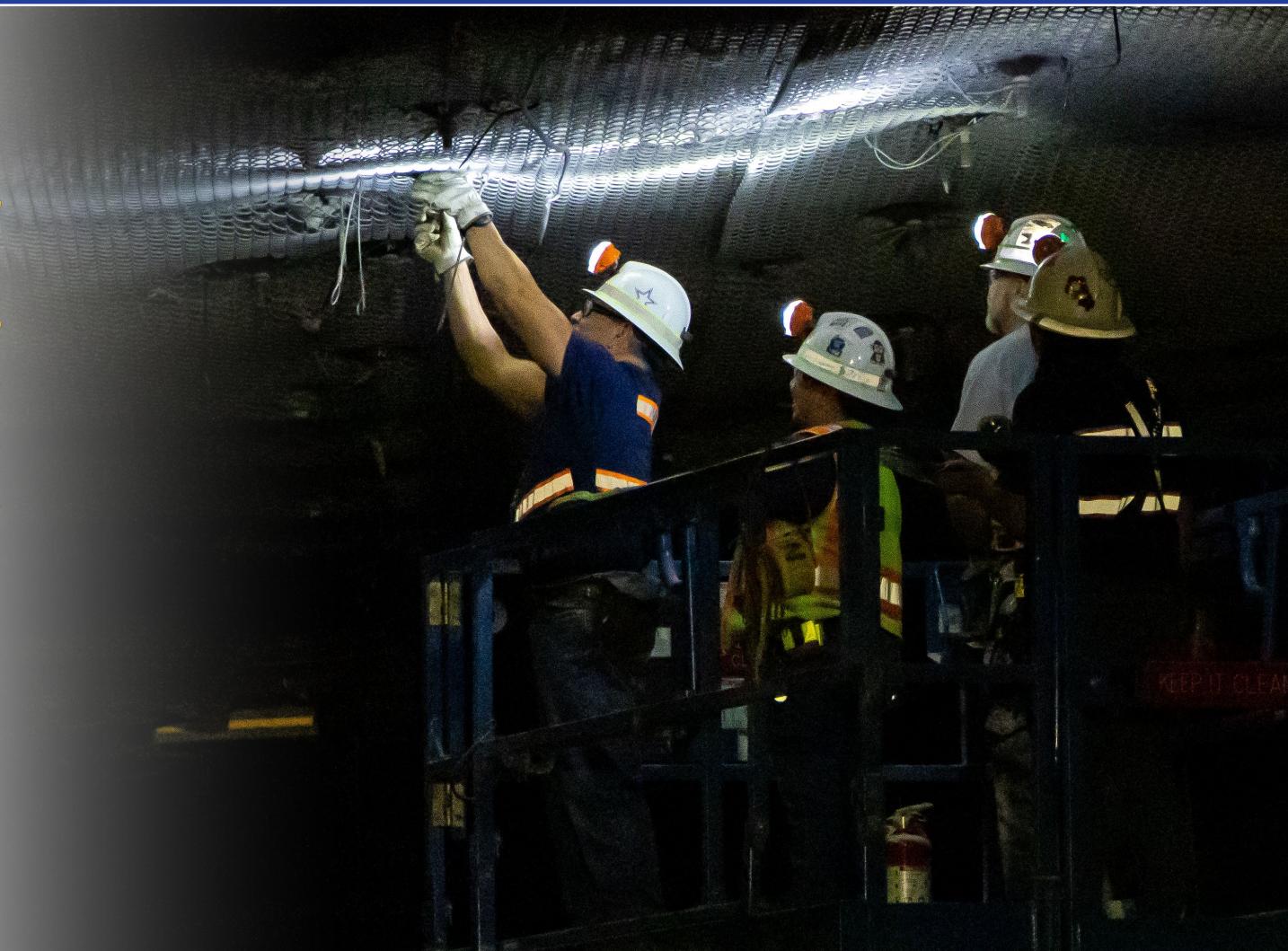
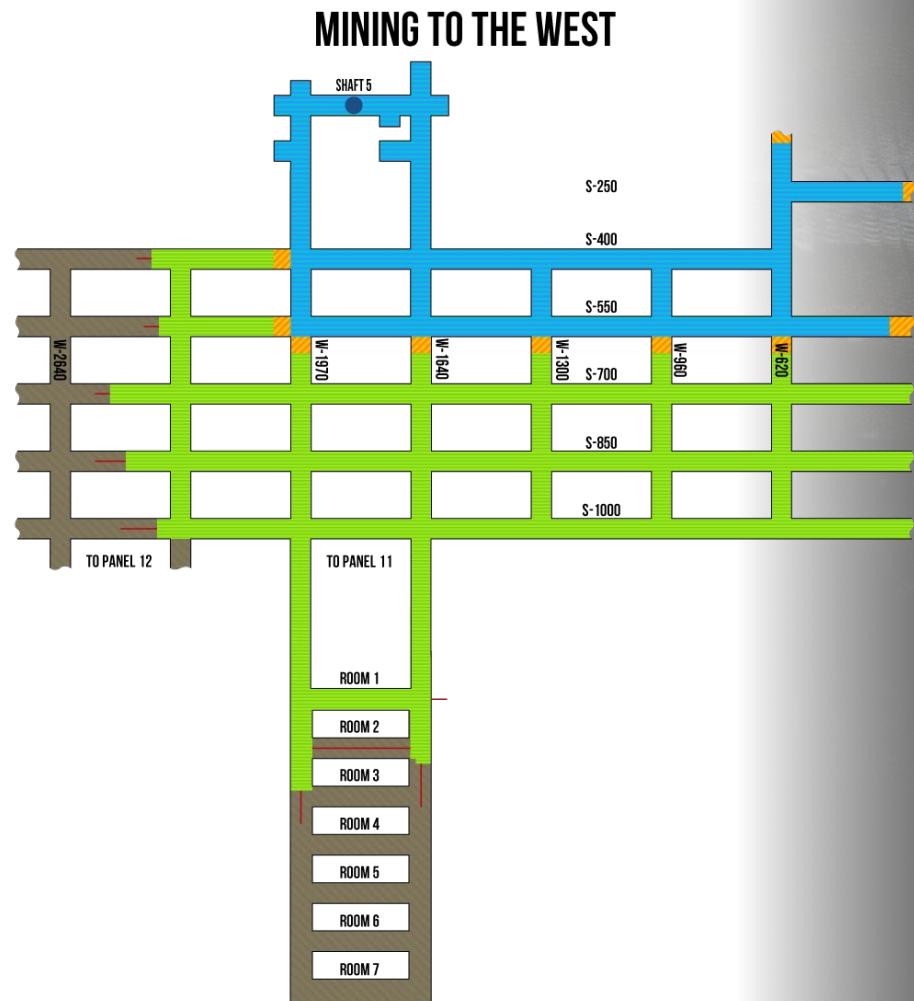
**432 waste shipments received in FY2025**

Current status:

- Emplacing waste in Panel Eight, Room 3
- 29,226 containers in Panel Eight



# Prepping the West Mains & Panel 11



# Overall Mission Accomplishments

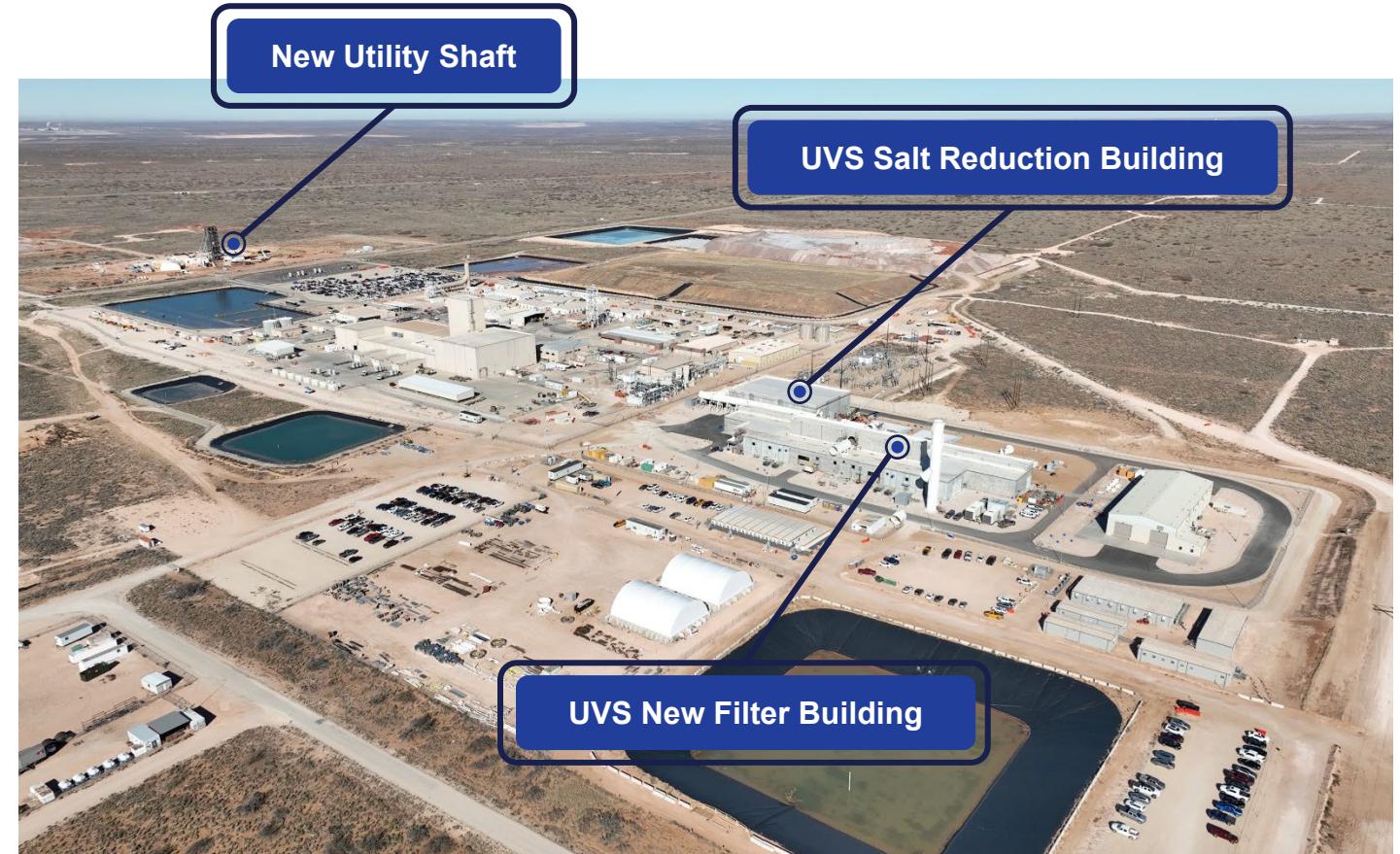
- Total shipments: **14,671**
- FY26 shipments received: **70**
- Total loaded miles: **17,601,475**
- Total miles driven: **35,202,950**



# Infrastructure Investments

## Projects will:

- Provide full ventilation flow rate to the underground repository
- Improve reliability
- Enhance worker safety
- Minor Construction Projects (MCP) support the Underground Ventilation System (UVS) & Utility Shaft (US) completion



# Underground Ventilation System (UVS) Project Overview

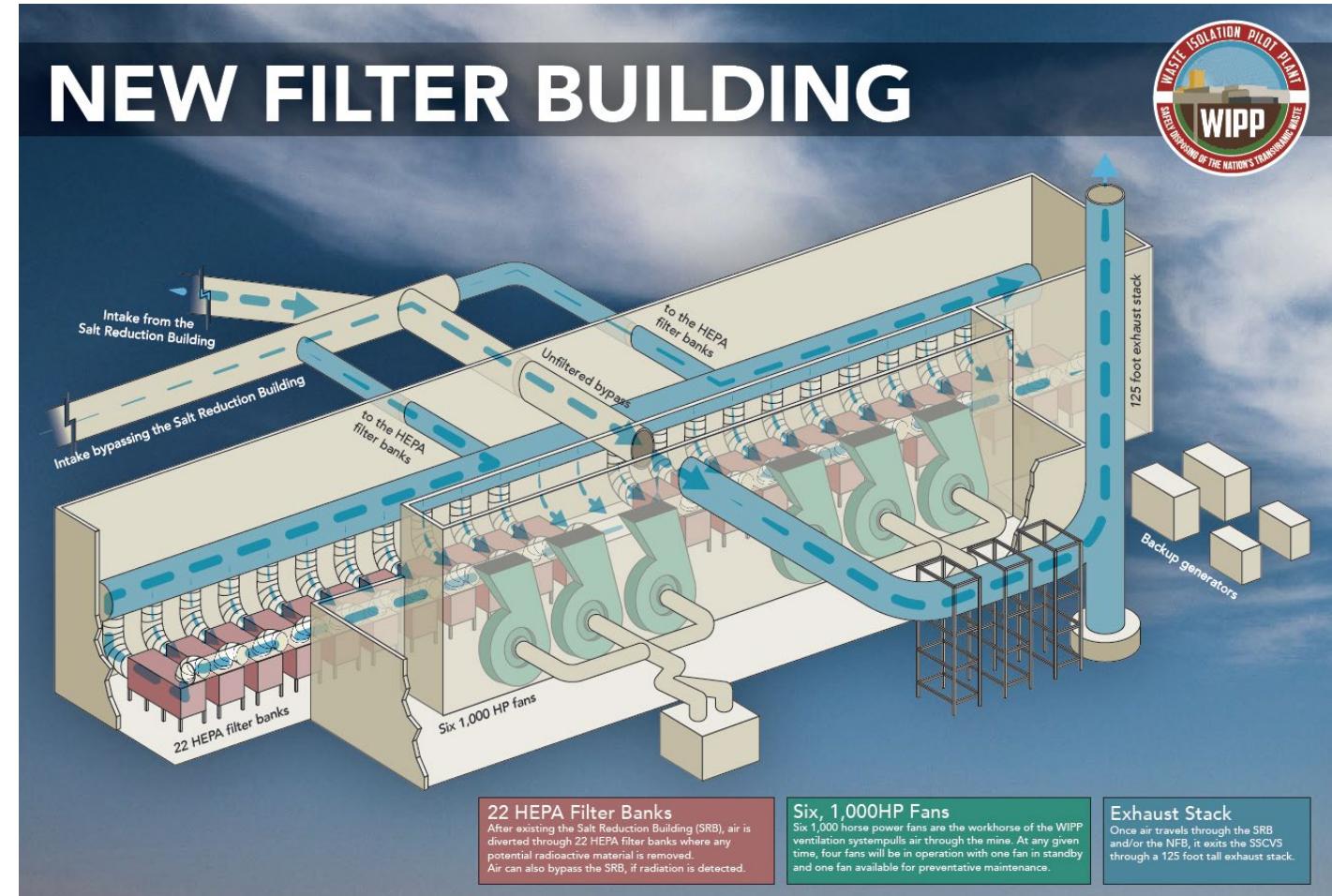
The UVS project will provide a safety significant confinement ventilation system that can be operated in a HEPA-filtered mode or an unfiltered mode of operation with two buildings, New Filter Building (NFB) and the Salt Reduction Building (SRB).

## NFB

- 22 HEPA Filters
- Six Induced Draft Fans
- Six Variable Frequency Drive
- 540,000 CFM

## SRB

- Six De-dusters and De-misters
- Two Brine Water Storage 80,000 Tanks



# Underground Ventilation System (UVS)

Increasing airflow to the underground up to 540,000 cubic feet per minute

## Progress

- ✓ Operations 90-day run – *Complete*
- ✓ Management Self Assessment Phase 1 – *Complete*
- ✓ Management Self Assessment Phase 2 – *Complete*
- ✓ Contractor Readiness Assessment – *Complete*
- ✓ Wye connection – *Complete*
- ✓ System brought online – *Complete*



Completed exhaust shaft ductwork and support structure taking air to the new UVS.

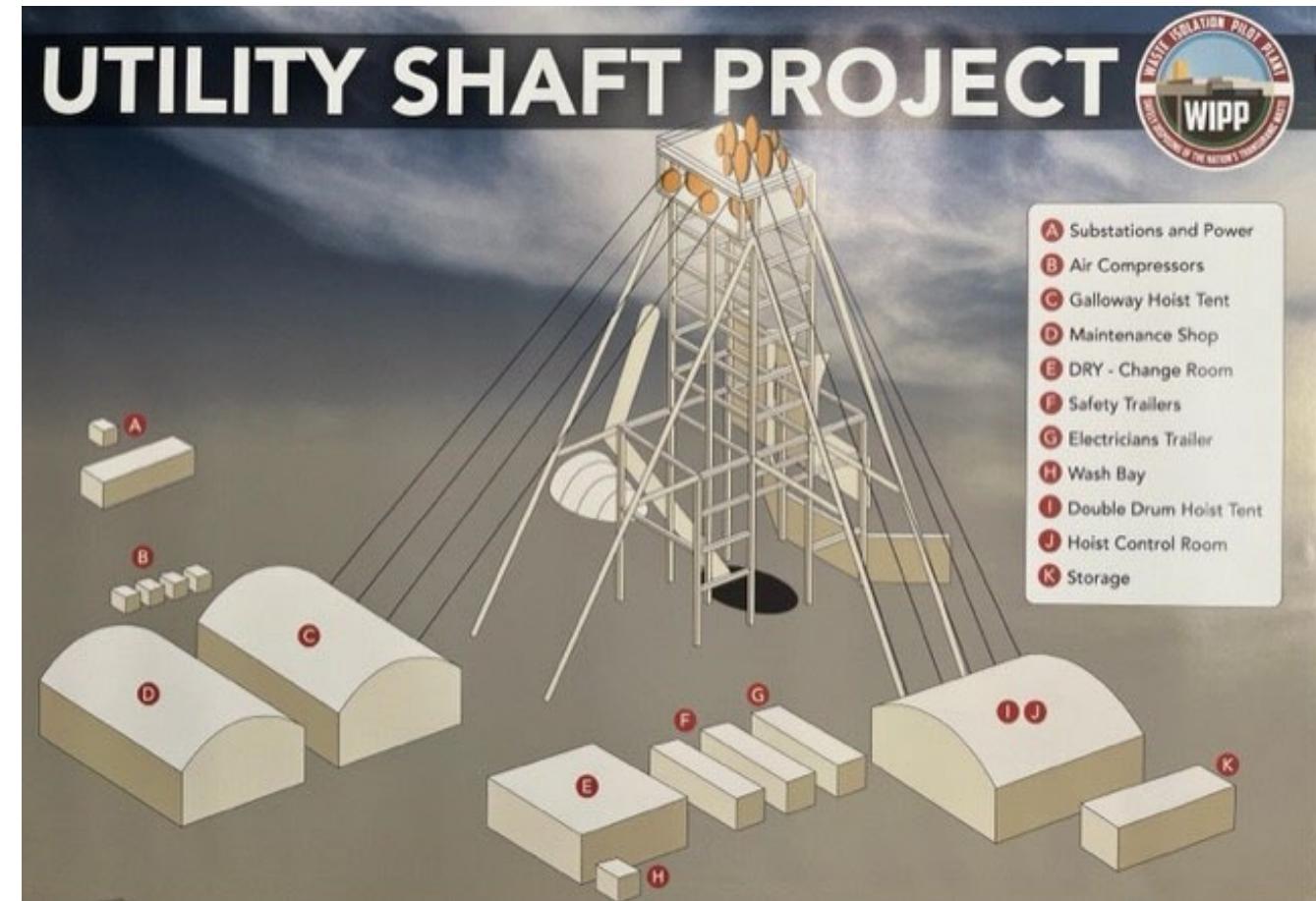
# Utility Shaft (US) Project Overview

## General Description:

The US Project provides an additional air intake source for the WIPP underground with surface fans that provide fresh air to three (3) of four (4) underground air circuits.

These three (3) air circuits include the North side, mining and construction circuit, and disposal circuit. Two (2) newly constructed West mains, underground airways (drifts) with crosscuts connecting the new shaft and future panels to the existing repository.

The existing Air Intake Shaft (AIS) will be converted by operations, to an unfiltered exhaust and all return air from the construction circuit will be upcast in the shaft.



# Questions