

U.S. DEPARTMENT *of* ENERGY

Office of Environmental Management

U.S. Department of Energy Carlsbad Field Office

WASTE ISOLATION PILOT PLANT

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Manager



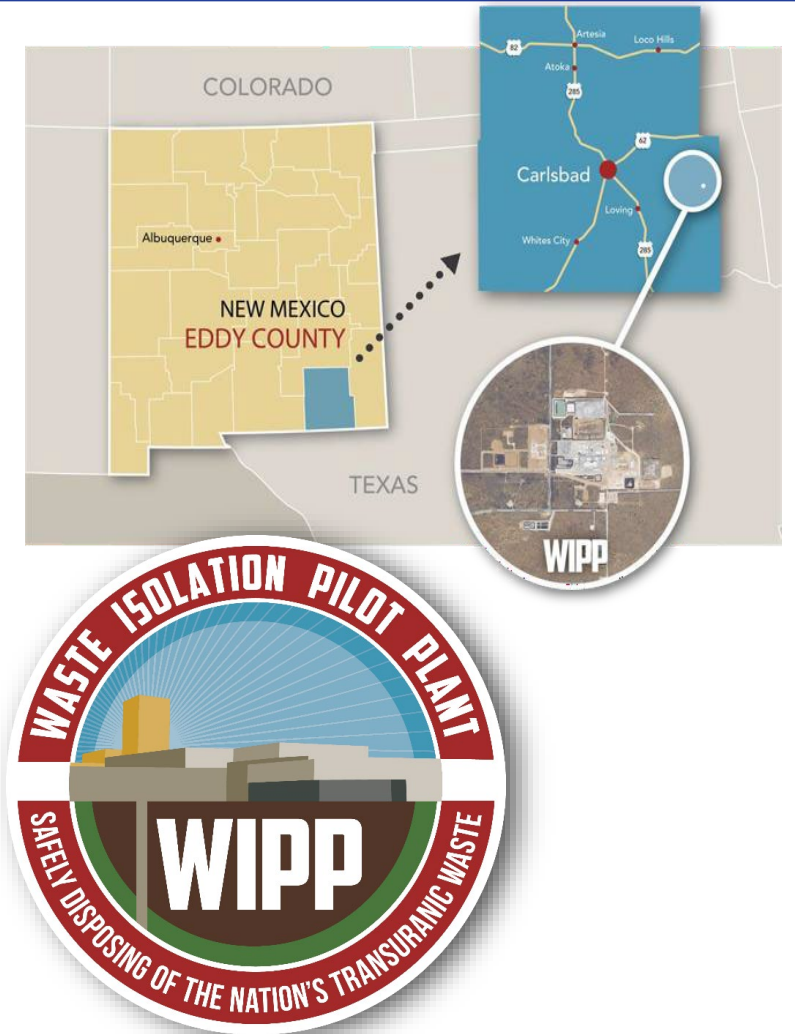
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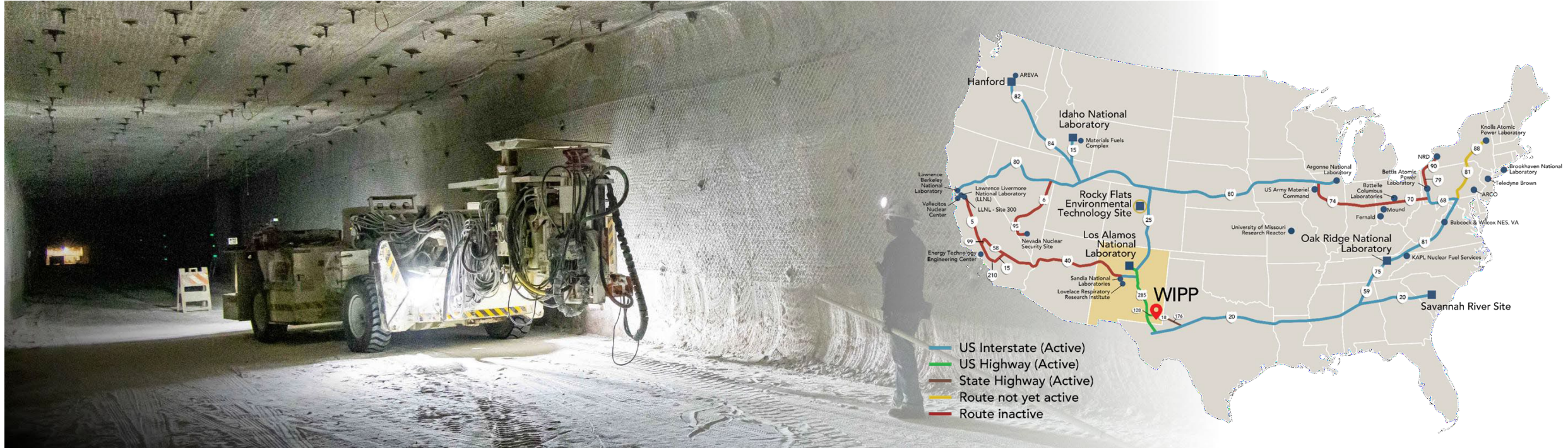
Waste Isolation Pilot Plant - WIPP

WIPP is the nation's only deep geologic repository for defense-related transuranic (TRU) waste. TRU waste is solid waste that is contaminated with radioactive and hazardous substances generated at DOE sites across the country from nuclear research and weapons production.

Video link: <https://youtu.be/DYJnvKCjxU>



WIPP Ops & National TRU Program Mission



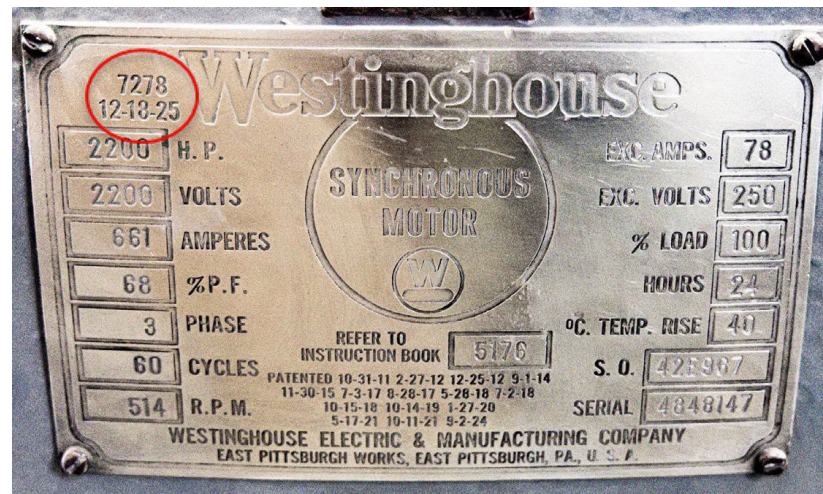
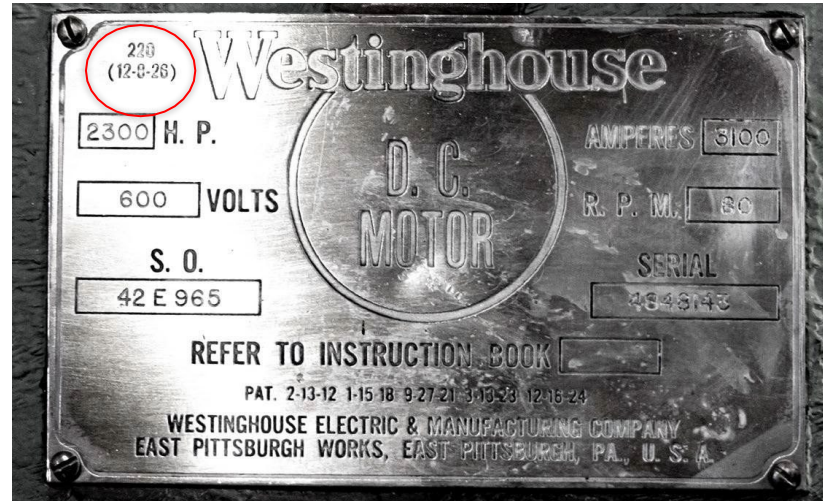
Our mission is to provide safe and compliant characterization, transportation, and disposal of the United States' defense transuranic (TRU) waste while protecting workers, the public and the environment

Mission Accomplishments

- Over **14,700** shipments received
- Over **17.6 million** safe miles transported
- Over **80,000** cubic meters of waste emplaced
- Enabled **22** sites to complete legacy TRU waste cleanup



Challenges



Future Infrastructure Upgrades



- Aging infrastructure
- Updating equipment and systems
- Hoisting capabilities

First cut in W170 South 700 West drifts



Completed Infrastructure Investments



Underground Ventilation System (UVS)



Utility Shaft 5

Completion of two major capital infrastructure projects and one critical mining infrastructure project

- The Underground Ventilation System (UVS) – the largest containment ventilation system in the DOE complex – was completed over a year ahead of schedule and over \$10M under budget.
 - Critical Decision 4 approval (CD-4) for UVS received on March 12, 2025
- The Utility Shaft – a 26-foot diameter shaft reaching over 2,200 ft underground – was also completed over a year ahead of schedule and over \$5M under budget.
 - Critical Decision 4 approval (CD-4) for Utility Shaft received on September 24, 2025
- Additionally, SIMCO completed a critical refurbishment project for the salt pocket and salt hoist, enabling safe continuation of underground mining.



Salt Pocket

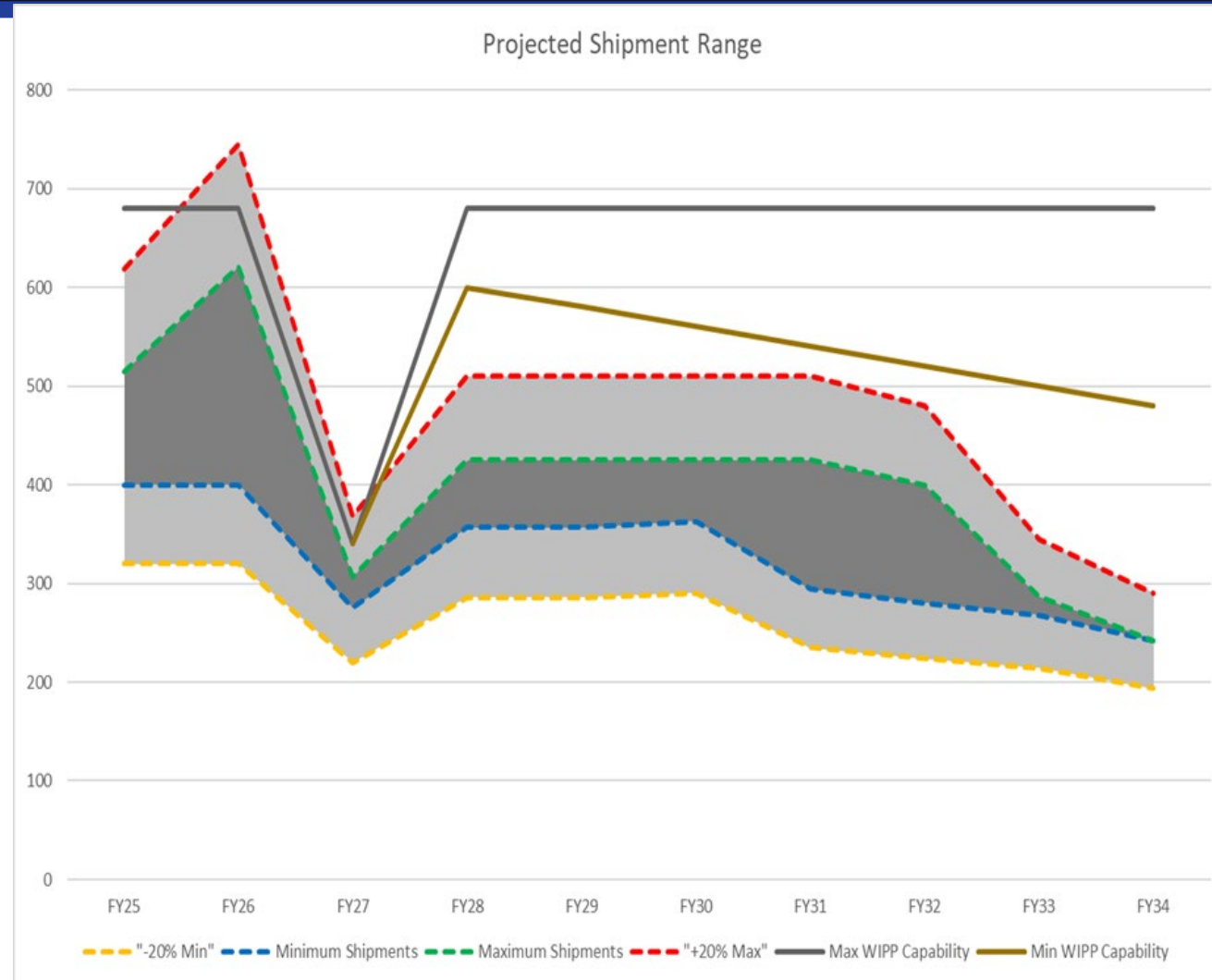


Salt Hoist

TRU Shipments

10-Year shipping strategy

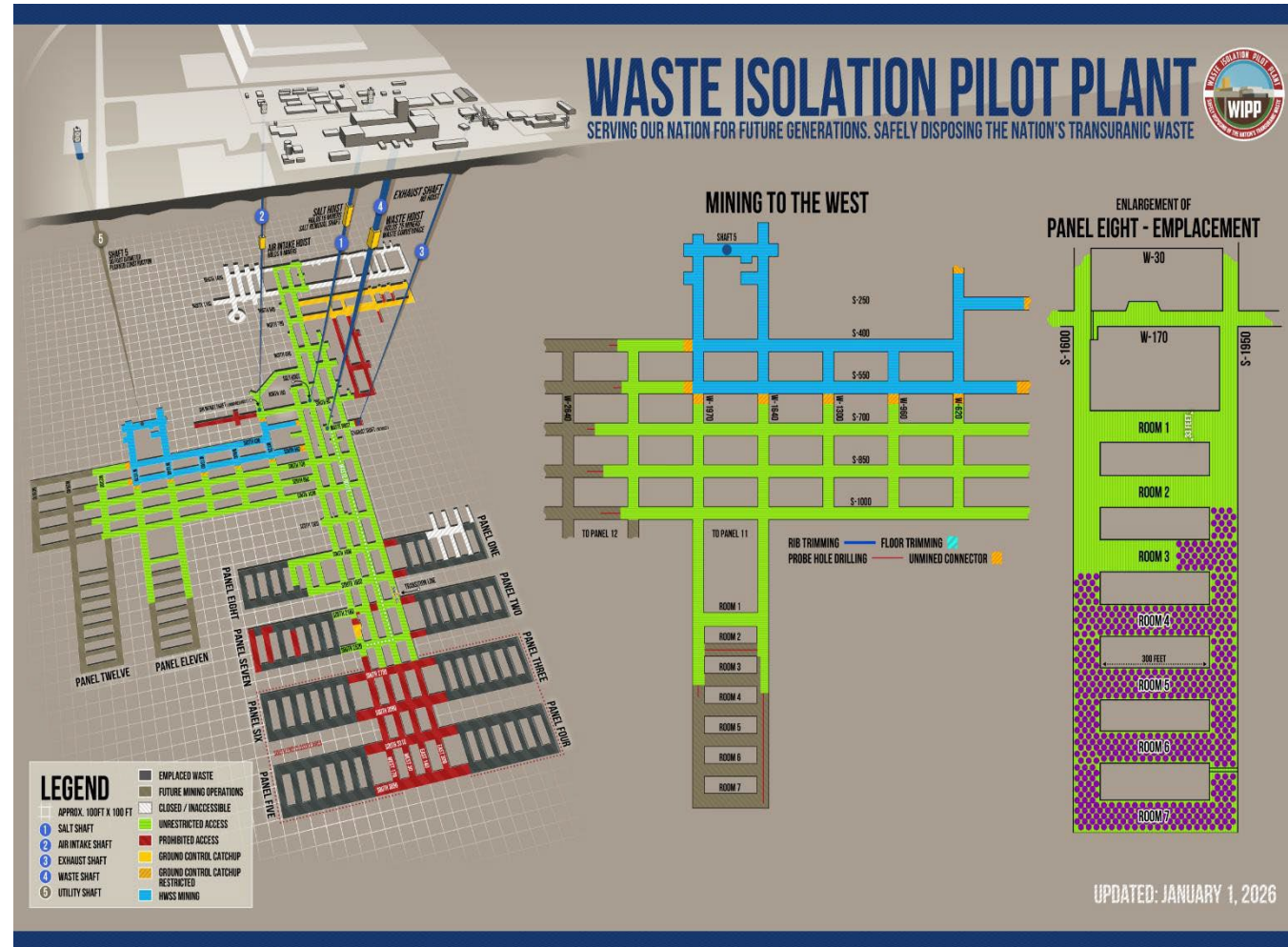
- Targets ~425 shipments/year
 - 432 shipments in FY25
- Supports generator site deliverables
- WIPP capability exceeds generator site needs
- Accounts for unanticipated interruptions and surge capacity
- Accounts for potential decline in WIPP capability



Panels 8 & 11

The status of waste emplacement in panel 8 and mining of panel 11 is crucial to WIPPs continued performance

- Waste emplacement in Panel 8 Room 3 is ongoing
- Room 3 is filled to **40% capacity**
- Panel 11 rooms and drifts are currently being mined



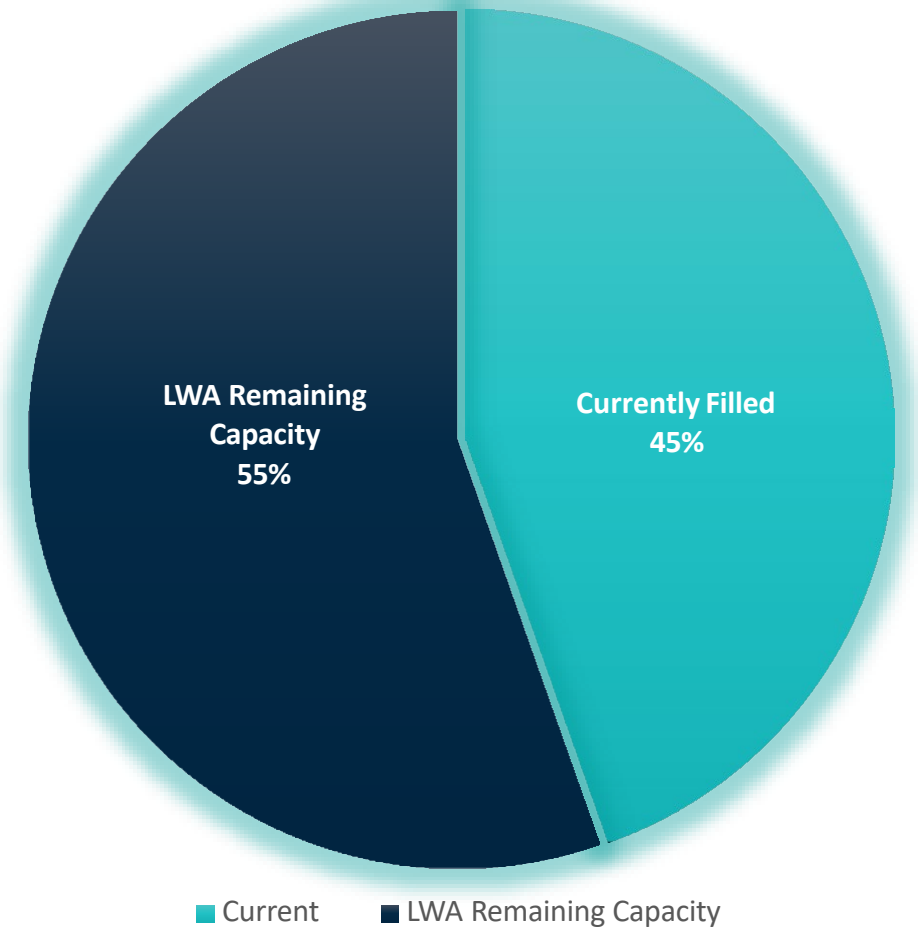
WIPP TRU Waste Disposal

WIPP has multiple regulatory drivers that create the WIPP Waste Acceptance Criteria

WIPP Land Withdrawal Act (LWA)

- WIPP transuranic waste capacity 6.2M ft³
- Current volume capacity filled = 2.7M ft³ (~45%)
- WIPP Hazardous Waste Facility Permit
- WIPP Documented Safety Analysis Nuclear
- Regulatory Commission Certificate of Compliance
- WIPP Compliance Recertification Decision by EPA

WIPP LWACapacity (Cubic Feet)



Safety Performance and Worker Involvement

- Focused on goal to achieve and sustain zero accidents and injuries
- Workers' ownership in safety program
- Instilled culture of 'Operational Excellence'



2.7 MILLION
SAFE WORK
HOURS



Sustained lowest worker-injury rate in more than a decade

Partner Companies



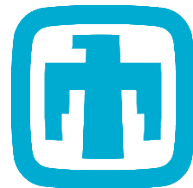
**U.S. Department of Energy
Carlsbad Field Office**

- Leads the Transuranic Waste Program
- Science Program



**Salado Isolation Mining
Contractors, LLC**

- Manages and operates the WIPP facility
- Manages transportation logistics and packages
- Manages waste retrieval, characterization and certification
- Mobile loading



**Sandia National
Laboratories**

- Scientific advisor for repository recertification



**Los Alamos National
Laboratory**

- Scientific advisor for waste characterization



**CBFO Technical Assistance
Contractor**

- Technical and Quality Assurance support for Carlsbad Field Office



**CCS-IC JV, LLC -
TRANSCOM**

- Satellite Tracking



Specialty Transportation, Inc.

**CAST Specialty
Transportation**

- Transportation carrier





Thank You





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