

WIPP Recovery Status Update



WIPP's 15-year History

11,894 Shipments received

33,000 Type B packages unloaded

91,000 Cubic meters of TRU waste disposed

14,200,000 Loaded miles





Recap of the Incidents at WIPP

February 5, 2014 Truck Fire:

- All operations at the repository ceased following salt haul truck fire in the WIPP underground
- An investigation team deployed to determine the cause of the fire

February 14, 2014 Radiological Incident:

- A continuous air monitor detected airborne radiation in the underground
- WIPP's ventilation system automatically switched to high-efficiency particulate air (HEPA) filtration mode when airborne radiation was detected
- Underground and the WIPP mine remains in filtration mode at this time
- Extensive sampling and monitoring conducted by DOE, New Mexico, and Carlsbad Environmental Monitoring Research Center Monitoring.
 - EPA and the NMED also performed sampling

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MANAGEMENT

Key Recovery Steps toward Resumption of Operations

- Documented Safety Analysis Revisions
- Safety Management Program Revitalization
- Underground Restoration
 - Re-Establish Degraded Equipment
 - Fire Protection
 - Maintenance and Ground Control
 - Radiological Roll-back
 - Soot cleaning of electrical panels
- Expedite mine stability
- Initial Closure Panel 6 and Panel 7,
 Room 7 Interim Ventilation
- Supplemental Ventilation
 Modifications



Contamination Mitigation

Fresh-water wash effective in removing/encapsulating contamination

- ~20 l/m (2 gal/ft.)
- >95% removal (first pass)Resulting contaminated brine trapped within the rock

WIPP procured new equipment to mitigate contamination

- Spray cart
 - Applies a water mist to stabilize and encapsulate the radioactive particles into the salt
- HEPA vacuum system
 - Used to capture loose contamination that has not been encapsulated into the salt





Initial Panel Closures

Initial panel closure activities completed:

- Panel 6 (May 11)
- Panel 7, Room 7 (May 29)

All suspect nitrate salt containers of concern disposed in the WIPP underground are now isolated





6

Ventilation

Current Status

- Ventilation in Filtration Mode
 - 60,000 cfm of filtered air
- Note: WIPP's standard (unfiltered) operational airflow is 425,000 cfm



Recovery Actions

- Phase I HEPA skid and fan unit
 - 114,000 cfm of airflow
- Phase II Reconfiguring mine circuits and additional fans
 - 180,000 cfm airflow
 - Phase III Design and construct a new (permanent) ventilation system
 - Capable to provide 420,000 cfm

Looking Ahead

- Complete interim ventilation
- Complete Operational Readiness Reviews
- Resume waste emplacement 2016



Idaho Impacts

- While we cannot ship transuranic waste, we continue to retrieve, characterize and certify waste at the Advanced Mixed Waste Treatment Facility. We currently have 665 equivalent shipments of certified contact-handled TRU waste containers that can be shipped once WIPP resumes operations. We have the equivalent of 57 certified shipments of remote-handled TRU ready to ship.
- In addition, we continue to ship waste that is determined to be mixed low-level waste to disposal sites in Nevada and Utah.
- It is unknown when we will be able to resume shipments to WIPP from Idaho.