

Waste Isolation Pilot Plant Recovery Update

SRS Citizen Advisory Board Meeting New Ellenton, SC

January 27, 2015

safety 🔹 performance 🔹 cleanup 🗞 closure

Recap of the Incidents at WIPP

February 5th Truck Fire:

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- All operations at the repository ceased following salt haul truck fire in the WIPP underground.
- An investigation team was deployed to determine the cause of the fire.
 - Report released March 13th.
- February 14th 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.
- Efforts by the DOE and Nuclear Waste Partnership are ensuring workers are fully protected during recovery and restart.
- Town hall meetings are utilized to keep the community informed; to stay apprised go to: <u>http://www.wipp.energy.gov</u>
 - Live streaming of the meetings can be viewed at: <u>http://new.livestream.com/rrv/</u>

Incidents at WIPP

February 5 Underground Fire



Accident Investigation Board Report

Completed

February 14 Radiological Release



Accident Investigation Board Report

- Phase I completed
- Phase II in progress

Recap of Incidents: Layout of the Underground



Room 7 Panel 7 Project REACH



Project REACH

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- REACH equipment in place in Panel 7, Room 7.
- Video/photo imaging began the first week of January
 Expected completion in the next month
- AIB team members are on site guiding data collection and reviewing in real-time



Key Recovery Steps toward Resumption of Operations

- Nuclear Safety Document Revisions (continuing)
- Safety Management Program Revitalization (continuing)
- Underground restoration (underway)
 - Radiological Roll-back
 - Re-Establish Safety Systems
 - Cleanup, Habitability
 - Fire Protection

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- Maintenance and Ground Control
- Expedite mine stability (resume bolting)
- Initial Panel 6, Panel 7, Room 7 Closure
- Interim Ventilation (procurement underway)
- Supplemental Ventilation Modifications (initiated)
- Readiness Activities
- Limited Operations
 - On-site waste
 - Off-site waste generators



Mine Stability and Underground Habitability

Resumption of bolting – one of the highest priorities

- Preventative maintenance activities on equipment completed
- Roof bolting/ground control resumed the week of November 10th

Waste hoist

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 Hoist operational for transport of equipment and personnel as of mid-January 2015



Ground Control



- Bolting activities are completed in the following areas:
 - W-30 S-700 to S-1600
 - E-140 S-700 to S-1950
 - W-170 to E-300 at the S-1600 cross drift
 - Other smaller locations
- Performing a second pass through these areas to complete any additional bolting



Ground Control



Other Underground Activities

Soot cleaning

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 Cleaning of underground electrical panels approximately 65% completed



- Radiological mitigation plans
 - Two applications have been tested to make contaminated areas useable:
 - Water wash
 - Paint
 - Both methods have proven effective in fixing contamination
 - Work packages are being developed to begin decontamination activities in Panel 7

Radiological Rollback



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Panel Closure Plans

Closure of Panel 6 and Panel 7 Room 7 is a high priority -

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 Panel 6 closure is now planned to be completed by the end of 2nd Quarter FY15

NMED approved the initial closure plans -

 Includes chain-link, brattice cloth, run-ofmine salt and bulkheads



Ventilation

Current Status

- Ventilation in Filtration Mode
 - 60,000 cfm of filtered air
- Note: WIPP's standard (unfiltered) operational airflow is 425,000 cfm
 - WIPP Permit requires 260,000 cfm



- Recovery Actions
 - Phase I HEPA skid and fan unit
 - 114,000 cfm of airflow
 - Phase II Reconfiguring airlock and bulkheads and additional fans
 - 180,000 cfm airflow
 - Phase III (not needed for limited operations in early 2016) – Design and construct of new (permanent) ventilation system
 - Capable of providing 420,000 cfm

Recovery Status

- WIPP Recovery Plan released September 30, 2014
 that puts safety first
- Approval of PMB January 2015
- WIPP is making progress on recovery
 - Extensive underground radiological rollback over 60% controlled area
 - Mine structure evaluation ongoing
 - Panel 6 and Panel 7, Room 7 closure preparations
- The current workforce is being maintained and utilized
 - Cross-training personnel
 - Changing work schedules to support time-critical recovery activities.
 - Performing readiness activities
 - Fostering a nuclear safety culture change
- WIPP continues to communicate often and transparently throughout this process with -
 - Frequent briefings for regulators and stakeholder groups
 - Regular town hall meetings
 - Weekly WIPP updates



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Additional information is available

http://www.wipp.energy.gov

1-800-336-9477

or on Twitter: @WIPPNEWS