

Waste Isolation Pilot Plant “Lessons learned over 4 years”

Nuclear Waste Technical Review Board

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WIPP Mission

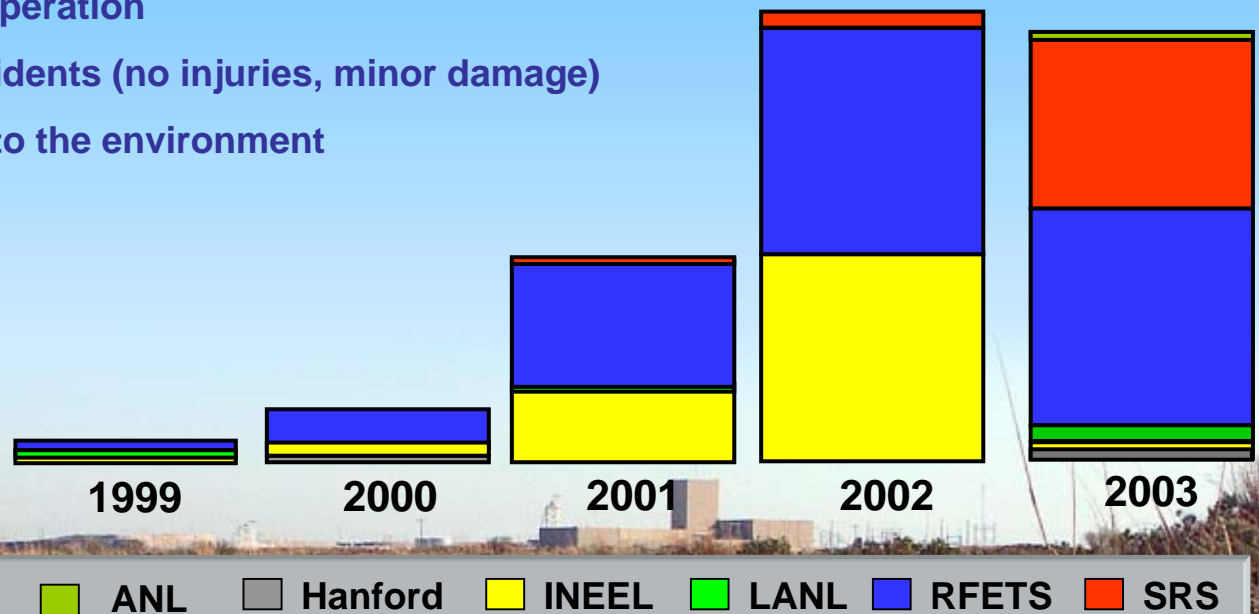
- **Cleanup Country's transuranic waste sites**
- **Permanently dispose of 6.2 million cubic feet transuranic waste from 25+ sites**
 - **Approximately 19,000 truck shipments**
 - **World's largest type "B" container fleet**



WIPP Accomplishments

To Date (1-19-04)

- 2,305,647 Loaded trucking miles traveled
- 56,534 Waste containers safely disposed in the underground
- 17,353 Cubic meters of waste safely disposed in the underground
- 2,281 Shipments received
- 4.8 Years of operation
- 2 Truck accidents (no injuries, minor damage)
- 0 Releases to the environment



Current Shipping Corridors



WIPP's Current Type-B Container Fleet



TRUPACT-II 79

HalfPACT 15

RH 72-B 12

CNS 10-160 B 1

107 - to date

111 - total



Transportation Corridors



Highway Legend

- Interstate Highway
- U. S. Highway
- Principal Highway



“What Works”

Safety and Security

- **Advance Planning and Activities**
 - Excellent long-term State and Tribal relations
 - Cooperative development of safety protocols
 - Enhance inspection criteria development
 - Emergency response training and exercises
 - Public information



“What Works” --- continued

Safety and Security

- **Transportation**
 - **Cooperative development of the transportation plan**
 - **Treating all loaded shipments alike**
 - **Continuous monitoring (TRANSCOM)**
 - **Security enhancements to tractors**
 - **Tandem shipments**
 - **Point of origin CVSA Level VI inspections**



“What Works” --- continued

Safety and Security

- **State Activities**
 - CVSA inspections – point of origin
 - State inspectors trained in CVSA
 - Driver background checks by state police
 - Coordination of emergency response training and exercise
 - Public outreach
 - Consensus development through regional groups (WGA, SSEB, CSG-MW, and CSG-NE)



“What Works” --- continued

Safety and Security

- **Carrier Contracts**
 - Multiple contracts
 - Dedicated drivers and equipment
 - Salaried drivers vs. paid per mile
 - Safety incentives
 - Two-person driving teams
 - Continuous monitoring of shipment by drivers
 - Strong working relationship with DOE and DOE’s contractors



“Challenges”

Safety and Security

- **Transportation**
 - **Management / Responsibility of shipping schedules**
 - **Inconsistencies and problems at shipping sites**
 - **Waste availability**
 - **Procedures and implementation**
 - **Quality Assurance**
 - **Regulation changes, i.e. new DOT service hours**
 - **Impact of en route CVSA Level VI inspections**
 - **Security**
 - **Schedule**
 - **Public perception**
 - **State escorts**



“Challenges” --- continued

Safety and Security

- **Shipping containers**
 - Long lead time procurements
 - On-time delivery
- **Carrier contracts**
 - Common expiration dates
 - Fixed price contracts with no escalation clause
 - Qualified drivers



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