Waste Isolation Pilot Plant
"Lessons learned over 4 years"

Nuclear Waste Technical Review Board

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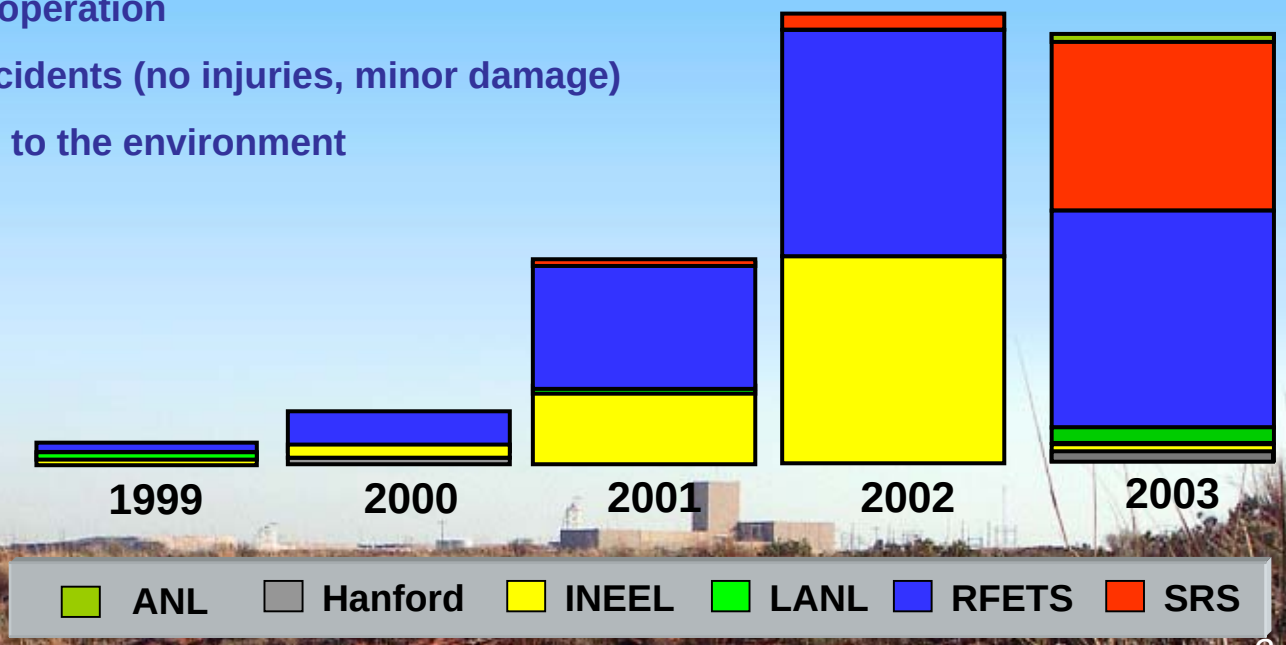
WIPP Mission

- 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

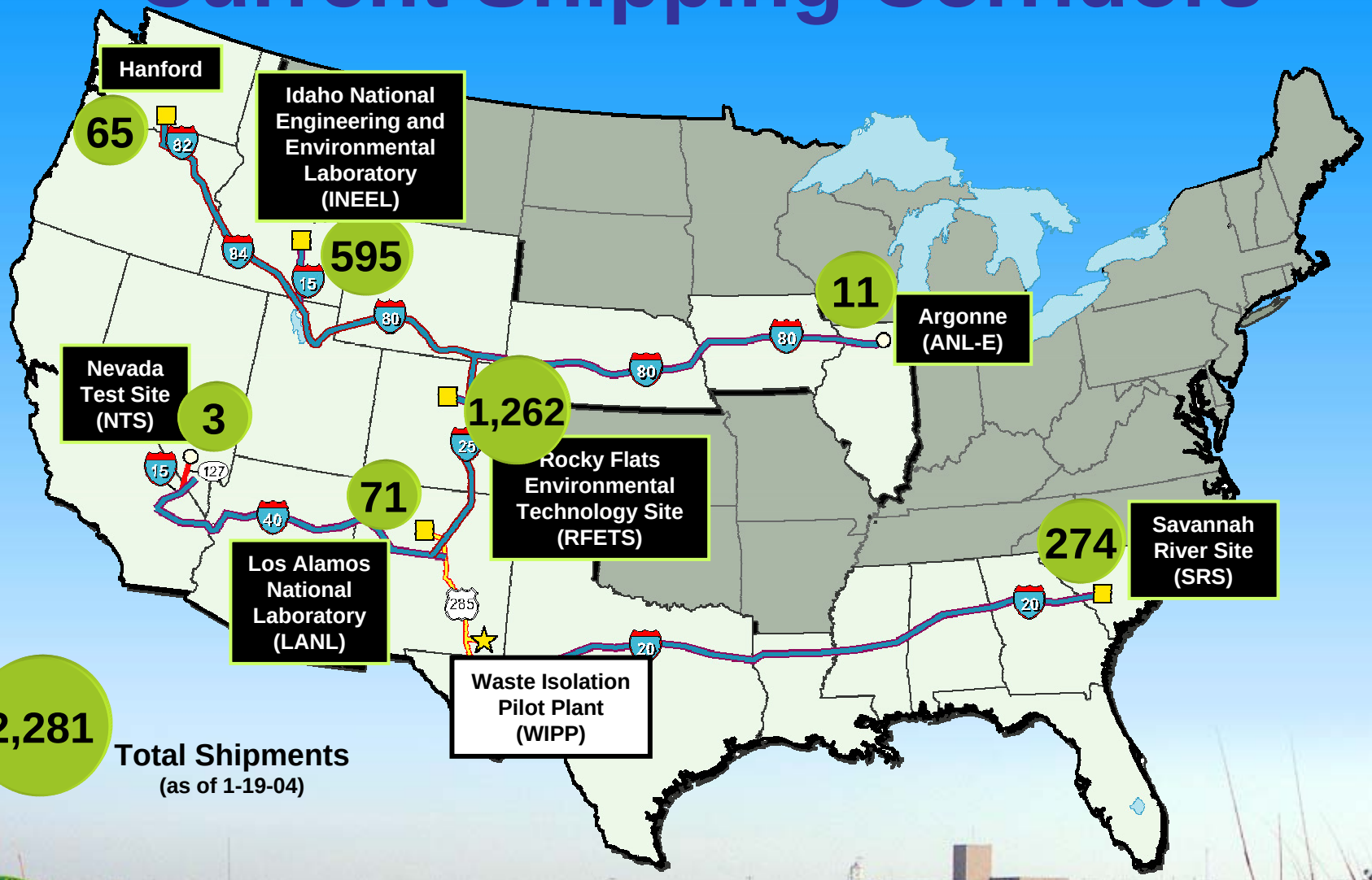
WIPP Accomplishments

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



2,281 Total Shipments
(as of 1-19-04)

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

"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**

Contact

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