

WIPP TOUR AGENDA
Radioactive and Hazardous Materials Committee
Friday, October 14, 2011



8:00 a.m.	Visitors arrive at Skeen Whitlock Building, met by Roger Nelson/CBFO and depart for WIPP site
8:45 a.m.	Arrive on site > Security - for visitor badges > TLDs – issued by Dosimetry
8:50 a.m.	Guard and Security Auditorium > WIPP safety briefing and overview – Roger Nelson
9:30 a.m.	Surface tour – Roger Nelson Waste Handling Building > CH Bay > RH Bay
10:45 a.m.	To Lamp Room for underground safety equipment and accountability tags Underground tour – Roger Nelson/Don Galbraith/Mike Antiporda/Robert Kirby > CH – TRU waste emplacement process > RH – TRU waste canister insertion equipment
12:00 p.m.	Surface Box lunches provided in the auditorium Group departs when tour has concluded



Photo ID Required

Prohibited attire: dresses, skirts, shorts, open-toe shoes, high-heeled shoes and sandals

Revised: 10/13/2011

WIPP Tour Approval

Radioactive and Hazardous Materials Committee		
Friday, October 14, 2011		
Visit coordinator Rose B. Scott 575 234-7512	Visit escort (s) Roger Nelson/CBFO Mike Antiporda/WTS Don Galbraith/DOE Robert Kirby/WTS	Visit requester Senator Vernon Asbill
Attendees: <ol style="list-style-type: none"> 1. Rep. Jim Hall 2. Rep. Brian Egolf 3. Rep. Tom Anderson 4. Rep. Don Bratton 5. Rep. Shirley Tyler 6. Jay B. Pugh 7. Rep. Cathrynn Brown 8. Senator Carroll Leavell 9. Sen. Rod Adair 10. Rep. Jim Trujillo 11. Rep Lee Alcon 12. Cassandra Jones (Intern with Legislative Council) 		
Areas to be toured: <input checked="" type="checkbox"/> Contact Handling Bay (WHB) <input checked="" type="checkbox"/> Underground <input checked="" type="checkbox"/> Remote Handling Bay <input type="checkbox"/> Emergency Operations Center <input type="checkbox"/> Central Monitoring Room <input type="checkbox"/> Fire Station <input type="checkbox"/> Surface Only	Special activities <input type="checkbox"/> Radiological Materials Area <input type="checkbox"/> UG blue area permit <input type="checkbox"/> Photographic Support <input checked="" type="checkbox"/> TLDs <input checked="" type="checkbox"/> Escort(s) will control Camera access	
Tour classification:		
<input type="checkbox"/> High priority <input checked="" type="checkbox"/> Work/Job specific <input type="checkbox"/> Standard		
Transportation plan:	Transportation provided by WTS	
Tour agenda:	See attached sheet.	
Purpose:	Enhance knowledge of facility and requirements.	

Security

Foreign nationals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Foreign national host Name: Phone:	Foreign national escort Name: Phone:
Foreign visitor assignee request submitted: <input type="checkbox"/> Yes <input type="checkbox"/> No	Foreign visitor assignee request approved: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Carlsbad Field Office Approval:

Deb Gill, DOE Public Affairs
October 5, 2011

Date

Photo ID Required

Prohibited attire: dresses, skirts, shorts, open-toe shoes, high-heeled shoes and sandals

Waste Isolation Pilot Plant

WIPP Status Update

Presented to the New Mexico
Radiation and Hazardous Materials Committee
October 13, 2011

Edward Zimmerman, Interim Manager
U.S. Department of Energy
Lanark Field Office

Frank Burt, President and
General Manager
WIPP Management LLC, Lanark



Table of Contents

Overview

Current Status

- Safety
- Transportation
- Disposal
- National Cleanup
- American Recovery and
Reinvestment Act

Looking Ahead



WIPP Team



WIPP is a project of the
 Environmental Protection Agency
 Office of Environmental Research
 and Technology Development
 Washington, DC 20460

URS

Washington TRU Solutions
 • Manages and operates the WIPP facility
 • Manages transportation logistics and packages
 • Manages waste removal, characterization and certification

Los Alamos

Los Alamos National Laboratory
 • Scientific adviser for waste characterization
 • Mobile reading

CAST

Specialty Transportation, Inc.
 CAST Specialty Transportation
 • Transportation carrier



Sandia National Laboratories
 • Scientific advisor for repository recertification

CTAC

CBFO Technical Assistance Contractor
 • Technical and Quality Assurance support for the Carlsbad Field Office



Visionary Solutions
 • Transportation carrier

WIPP Workforce

– Diverse backgrounds
 including engineering, chemistry, geology, physics, safety, mining, emergency management, environmental management, security, training, accounting and mining.

– Broad experience from the nuclear industry



Economic Impact



FY11 budget: \$220M

Total impact/economic development spending in New Mexico has exceeded \$500M

WIPP provided about 1,300 jobs

Managing and operating (M&O) contractor procurement of \$71.2M in FY11

WIPP Spending	FY08	FY09	FY10	FY11
In New Mexico	\$20.5M (27%)	\$20M (27%)	\$20M (27%)	\$20M (27%)
Outside New Mexico	\$55.5M (73%)	\$50M (73%)	\$71M (73%)	\$43.5M (73%)

A national solution



- WIPP is America's only deep geologic repository for the permanent disposal of defense-generated transuranic (TRU) radioactive waste left from research and production of nuclear

TRU Waste



Includes clothing, tools, rags, debris, residues and other items contaminated with alpha, beta, gamma and/or neutron emitting radionuclides.



Types of TRU waste

Contact-handled (CH)

- Primarily emits alpha radiation (less penetrating) and can be handled under controlled conditions without any shielding beyond the container itself.
- About 85 percent of waste to be disposed of TRUP.



CH waste is disposed of outside of the storage vault. (Photo taken in March 1998)

Types of TRU waste *(continued)*

Remote-handled (RH)

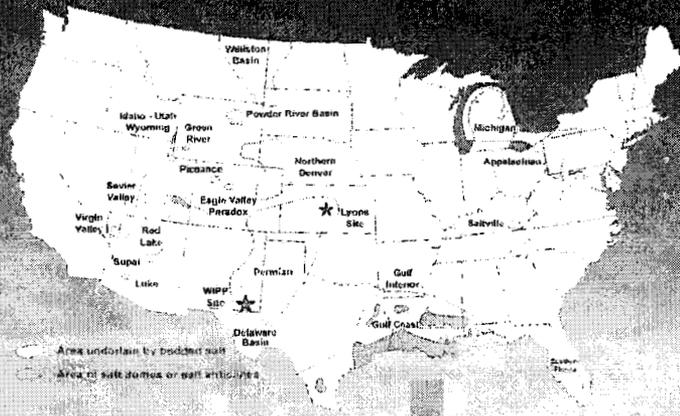
- Emits more penetrating radiation than CH-TRU
- Transported and handled in certified casks that provide additional shielding

Always wear lead apron or other shielding



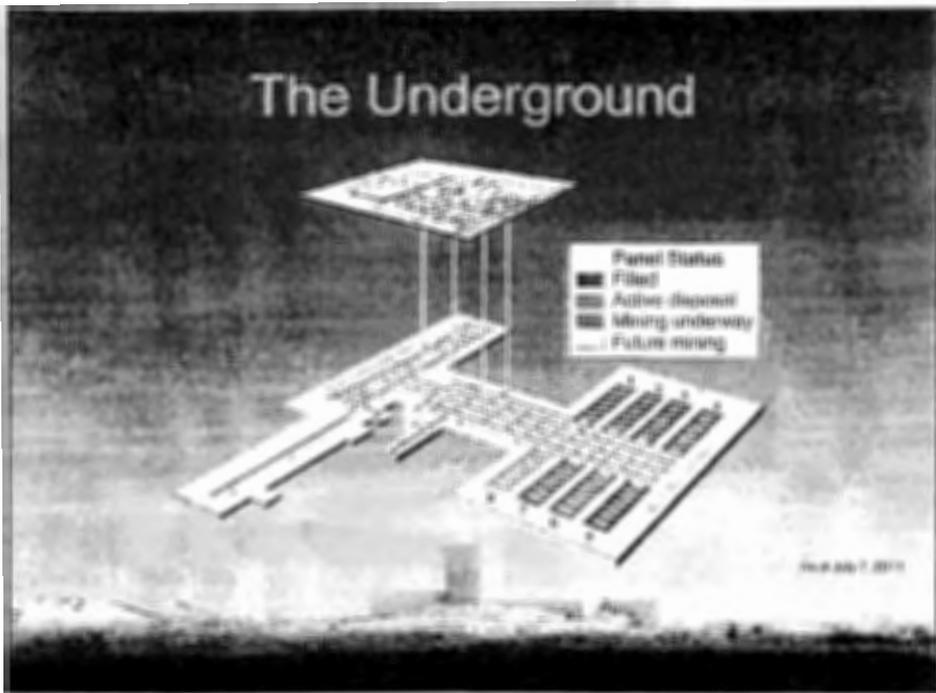
Worker is shown in lead-lined container in the walls of the shipping cask. The worker will wear lead apron and gloves before in January 2001.

Salt is the reason for WIPP's location



- Stable geology
- Lack of water
- Easy to mine
- Pure quality of salt allows it to crystallize

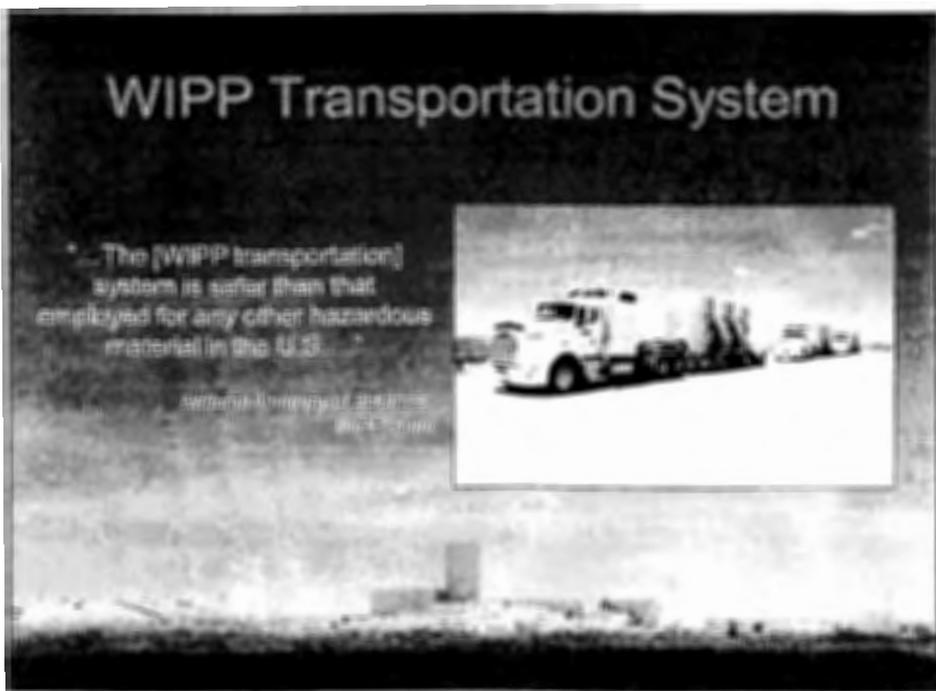
The Underground



WIPP Transportation System

The [WIPP transportation] system is safer than that employed for any other hazardous material in the U.S.

without compromise of security.



Safest shipping containers on the road



Nuclear Regulatory
Commission certified

TRUPACT-II

TRUPACT-III

TRUPACT

FN-700

GN-700

Plastic Encapsulated

Uranium Fueling

TRUPACT

TRUPACT

Shipments tracked by satellite



Fully automated, nation-wide
tracking

Five-minute updates

Ships and drivers have access
to password-protected Web info

Drivers in constant
communication with WSP's
Control Center

Control Center

Emergency responders trained along pre-approved routes



Since 1988, more than 30,700 first responders have been trained

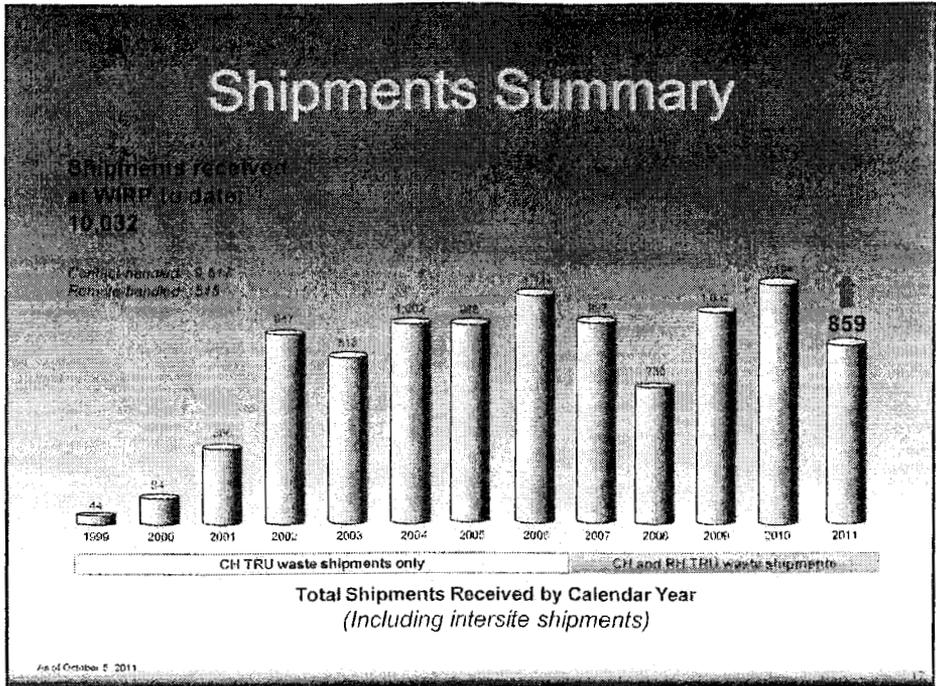
- Emergency
- State, tribal and local
- Government officials

Safety

Recertified at the Star level in DOE's Voluntary Protection Program (maintained since 1994)

More than 12 million safe loaded miles traveled to WIPP

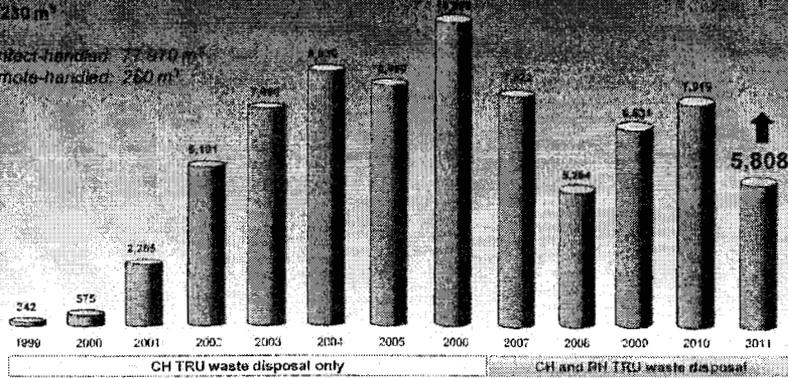




Disposal Summary

Volume of waste disposed
at WIPP to date
78,250 m³

Contact-handled: 77,870 m³
Remote-handled: 260 m³



Waste Disposed by Calendar Year
(In cubic meters)

As of October 5, 2011

Primary factors impacting volume



- Plutonium-equivalent curies per cubic meter of waste emplaced

- Higher this year to date

- Weight

- WIPP shipments near weight
- Fuel element transportation
- Weight fluctuations
- Number of fuel elements



Key Regulatory Success




Environmental Protection Agency

- Recertification every five years until closure
- Documents compliance with long-term disposal regulations

WIPP recertified for the second time since opening on November 16, 2010

Hazardous Waste Facility Permit

Required for disposal of TRU waste mixed with hazardous HFCs

Disposal permit approved by New Mexico Environment Department in October 2010



Carlsbad Field Office allotted
\$172 million

Jobs created or saved

→ WPP target: 400

→ Actual: 608

AMERICAN RECOVERY
AND REINVESTMENT ACT

ARRA-09-001-001

ARRA Accomplishments

Cleanup completed at seven sites

- Nevada Test Site
- Vallecitos Nuclear Center
- Lawrence Livermore National Laboratory - Site 300
- Lawrence Berkeley National Laboratory
- NREIS
- Idaho Atomic Power Laboratory
- Argonne National Laboratory

Increased environmental protection
through the use of the Act

ARRA-09-001-001



Looking Ahead

FY12 budget challenges

Cleanup of Sandia National Laboratories
targeted by end of year

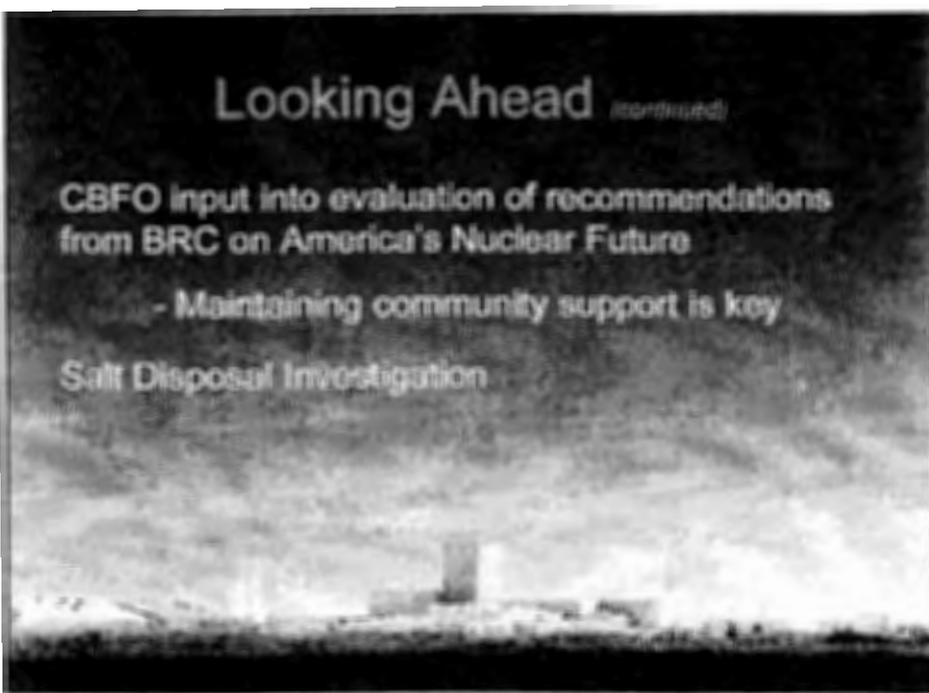


Looking Ahead *(continued)*

CBFO input into evaluation of recommendations
from BRC on America's Nuclear Future

- Maintaining community support is key

Salt Disposal Investigation



Contact Information



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