

 ENTERED



# Idaho Treatment Group

## NMIED tour of AMTWP

July 9<sup>th</sup>, 2012

Presenter  
David H Hear, Waste Programs

120710



# AMWTP

## Fulfilling DOE's Mission And The Public's Interest

- Safely and compliantly removing all legacy transuranic waste from Idaho, meeting Settlement Agreement Ahead of schedule
- Continuing to be DOE's primary shipper to WIPP
- An essential DOE asset for processing transuranic waste



Following inspection by the Idaho State Police, the DOE Complex's 10,000<sup>th</sup> shipment of transuranic waste leaves the AMWTP gates, Sept. 23, 2011.

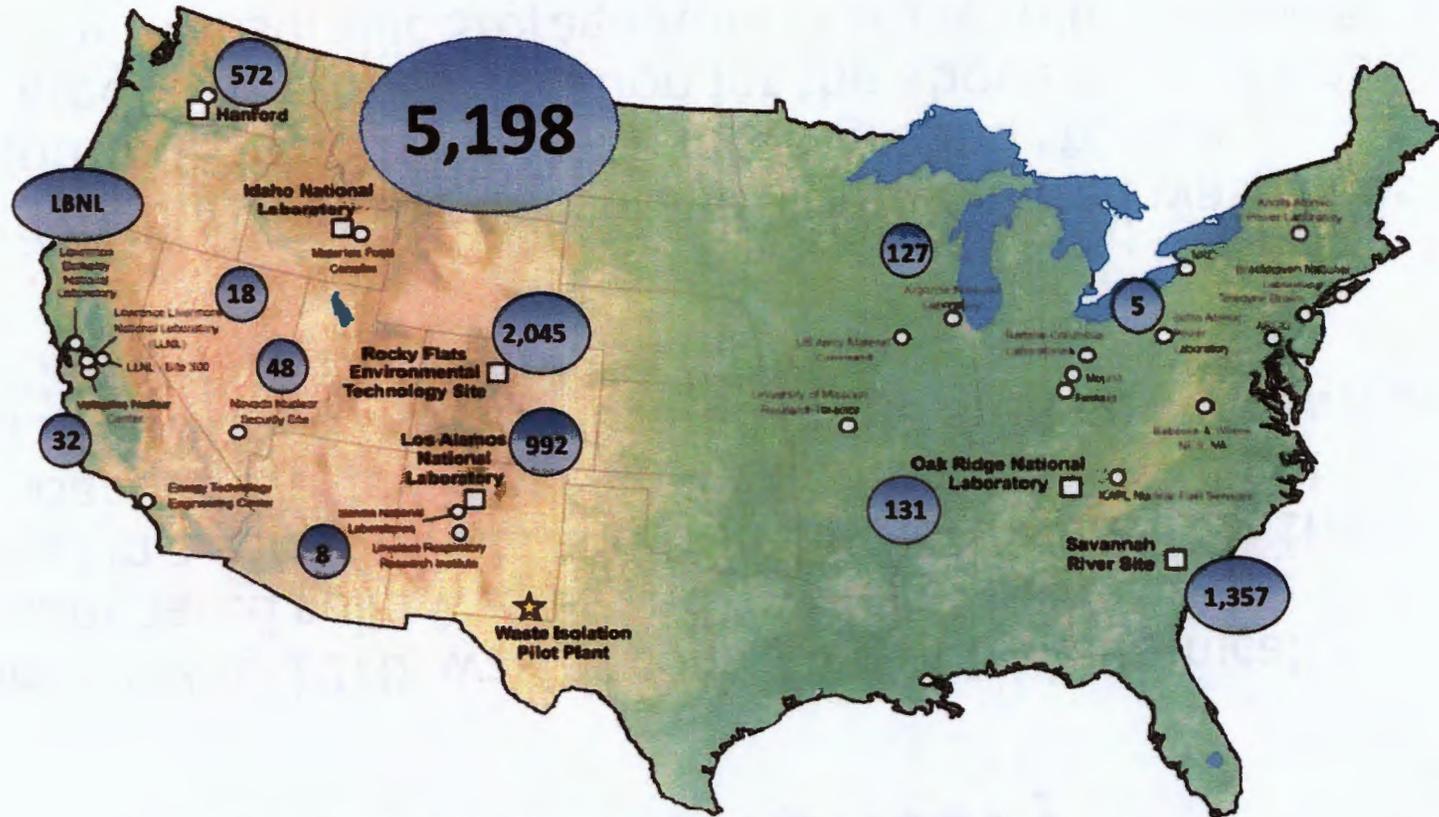


ITG's first low-level waste shipment to the Nevada National Security Site, Feb. 29, 2012



EMITTED

# #1 Shipper To WIPP



Transuranic waste shipments from DOE sites to WIPP as of May 29, 2012. AMWTP has made close to 50 percent of all shipments to WIPP.

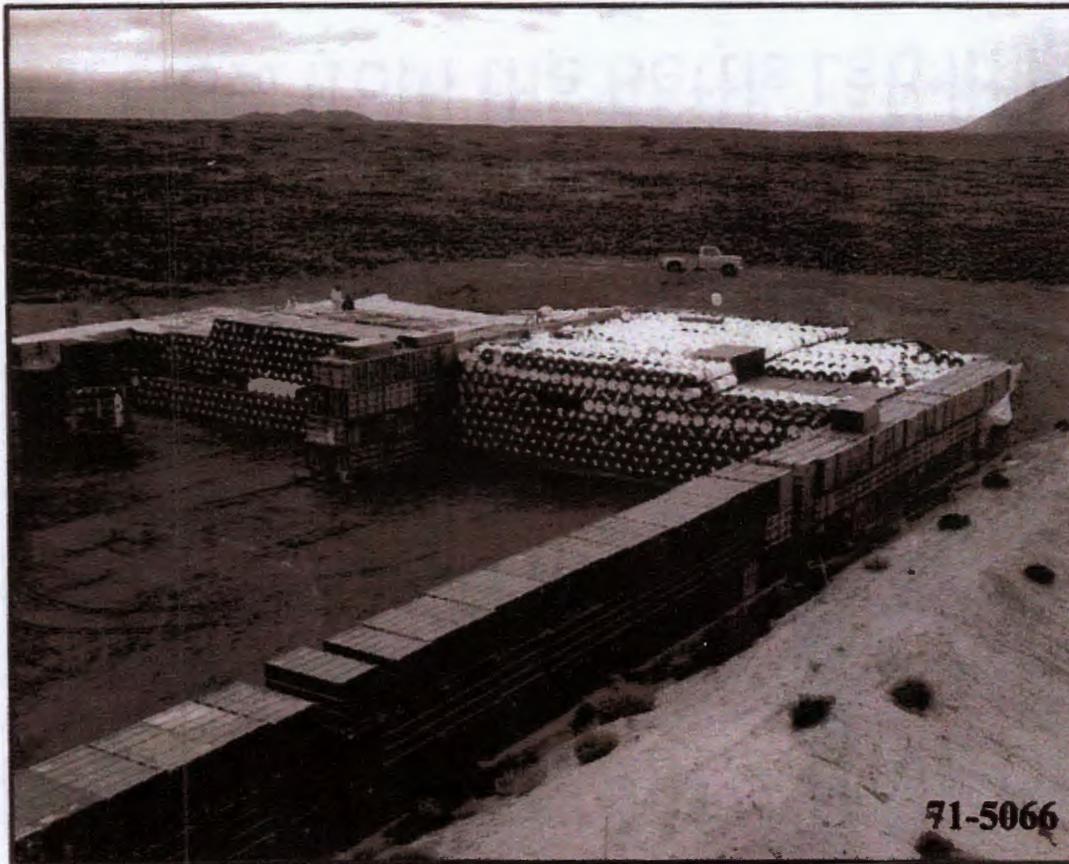


# AMWTP Inventory

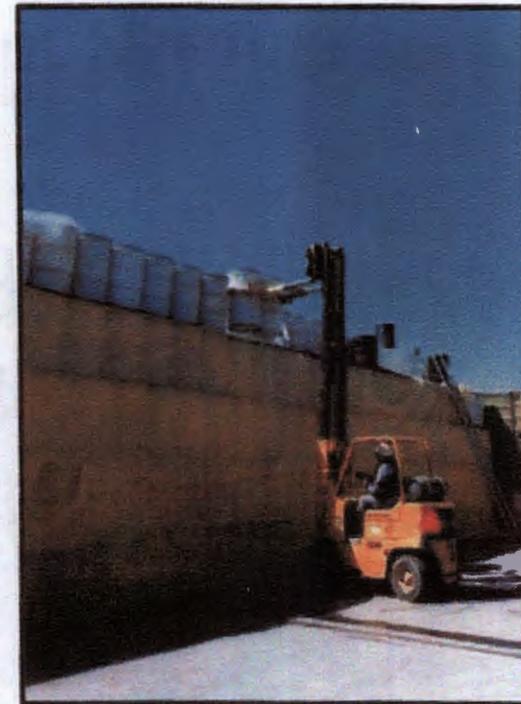
- From 1952 to 1970, wastes consisting of transuranically-contaminated solid wastes and low-level wastes were buried in a series of pits and trenches located within the Radioactive Waste Management Complex (RWMC) at the INEL. The buried waste is located in the area now known as the Subsurface Disposal Area (SDA)
- In 1970, burial of the transuranic-contaminated waste was discontinued and temporary above-ground storage initiated. The storage location for the above-ground waste is at the Transuranic Storage Area (TSA) within the RWMC.



# Original Waste Placement



Early placement of transuranic waste storage drums and boxes from Rocky Flats



Early storage at Pad R

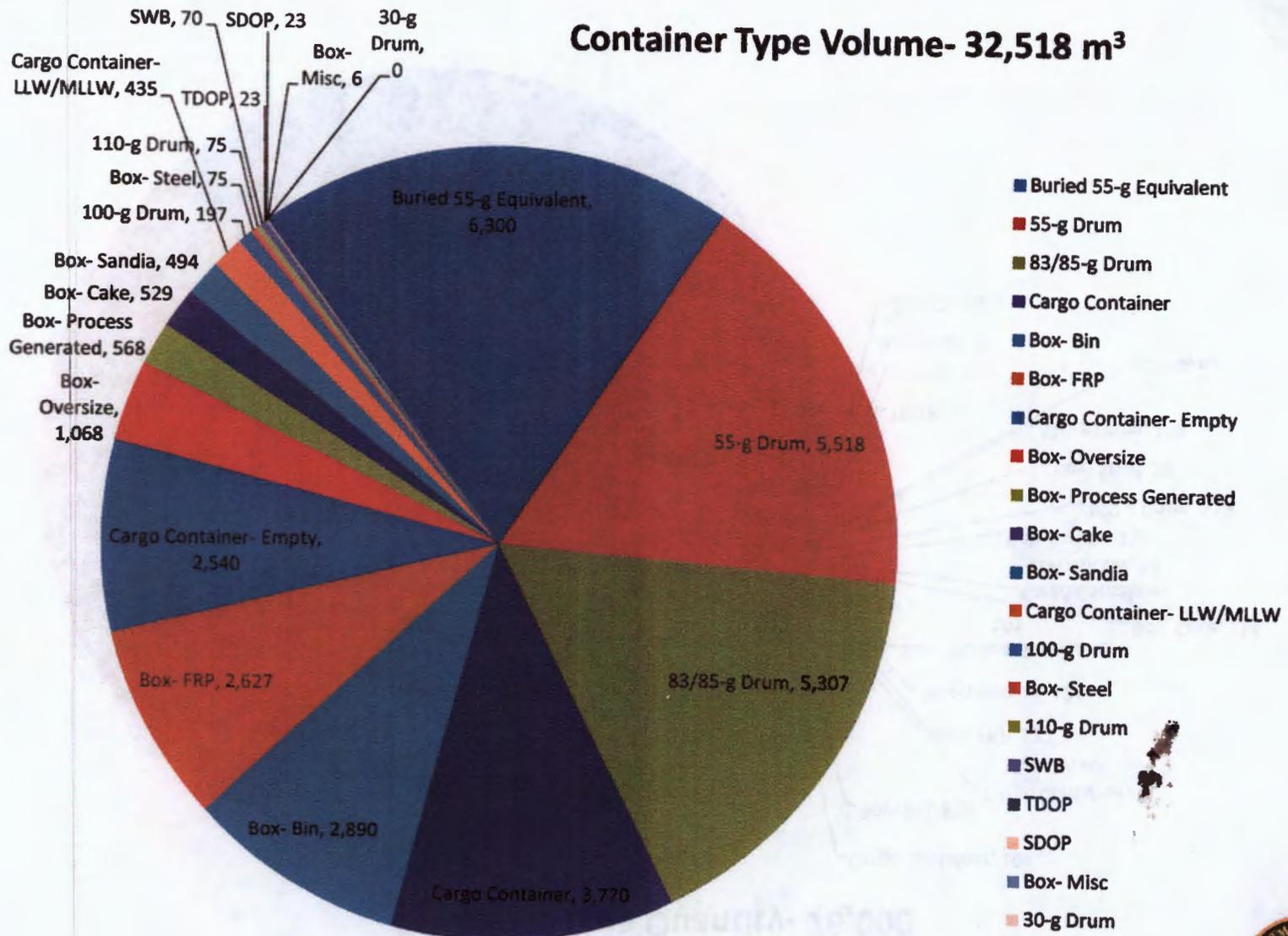


# AMWTP Waste Inventory Sources

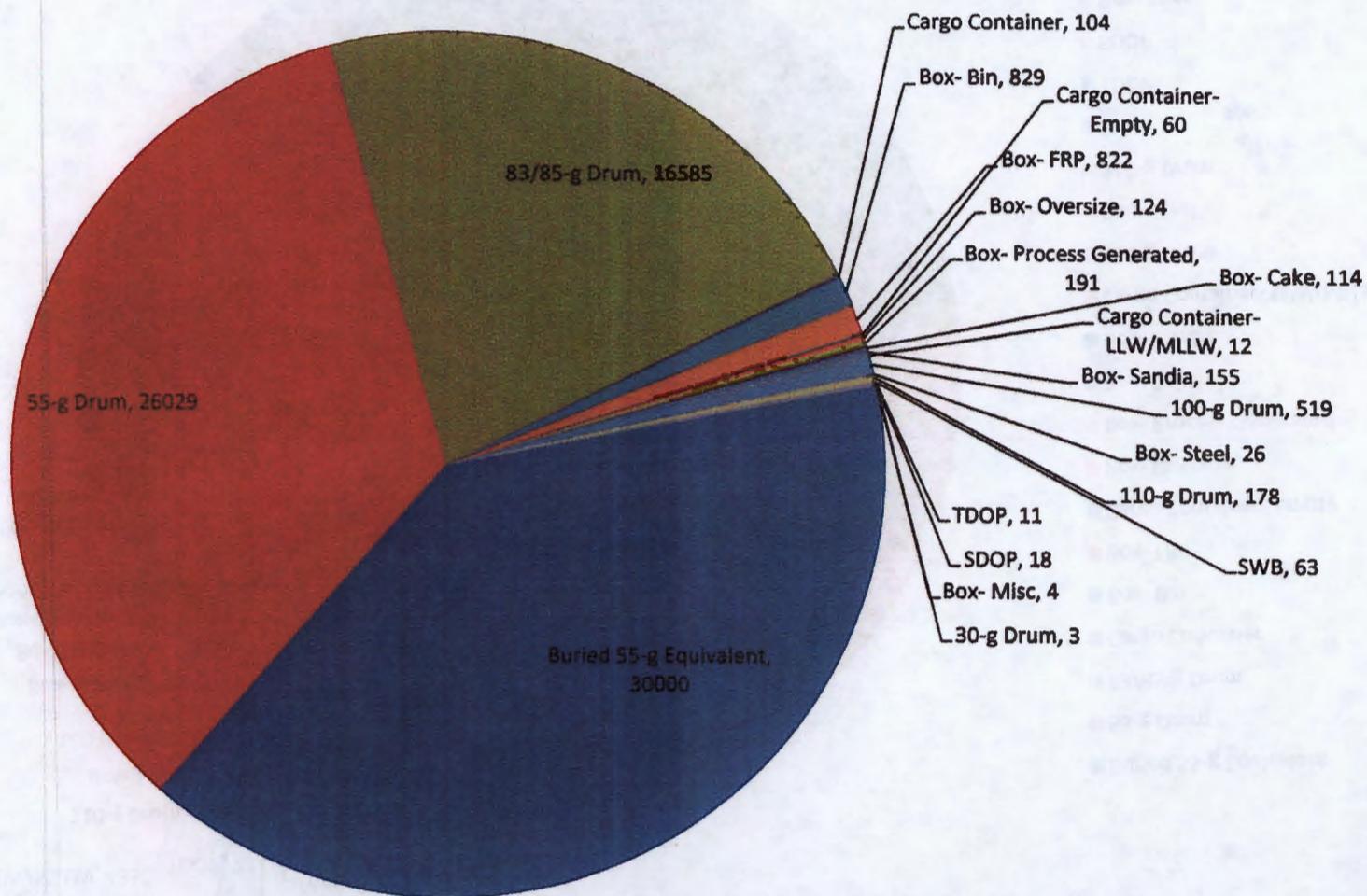
- 91.3% from the Rocky Flats site in Colorado
- 5% from the Mound site in Ohio
- 2.5% from the Argonne National Labs in Illinois
- 0.6% from the Bettis Lab in Pennsylvania



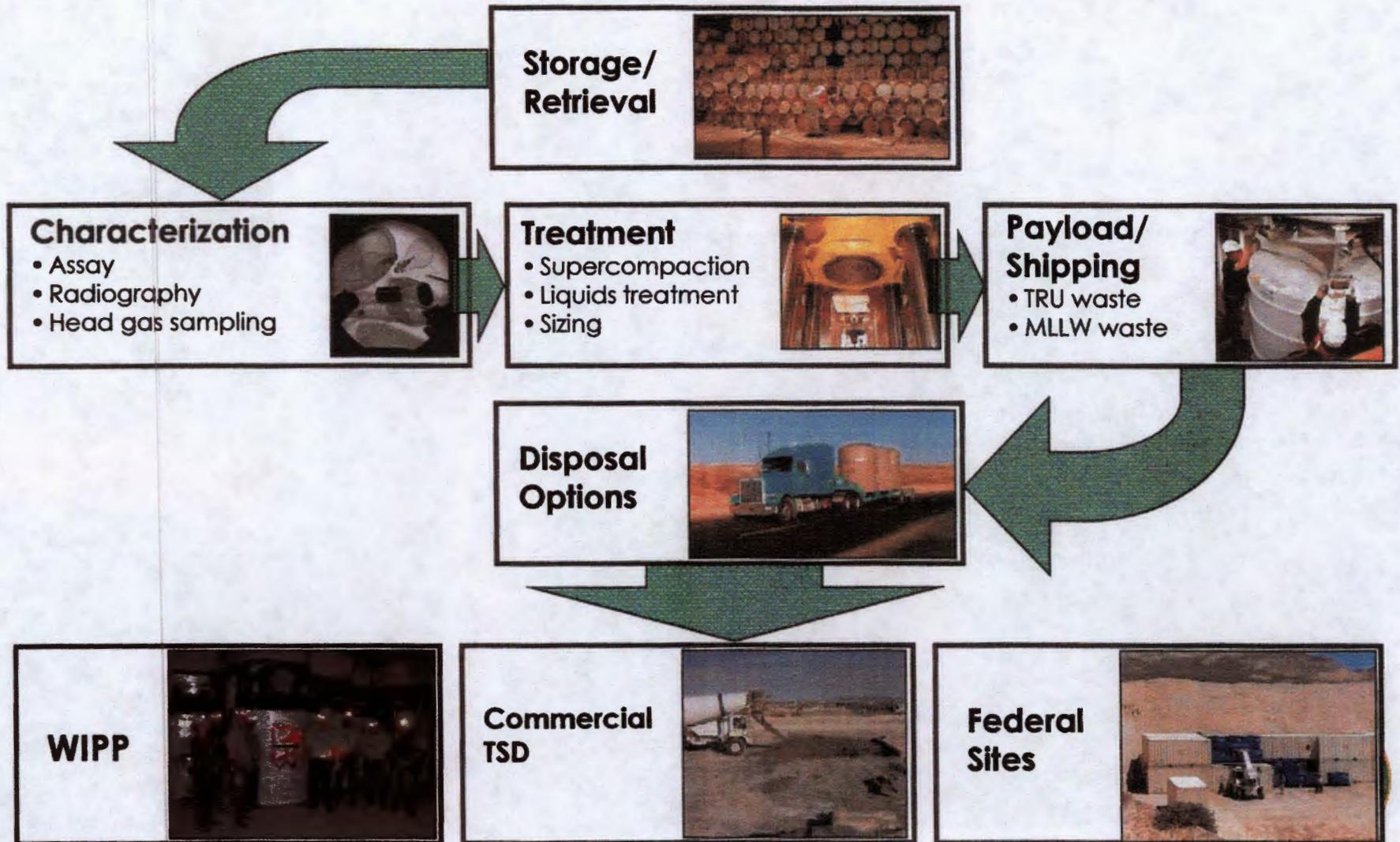
# Container Type Volume- 32,518 m<sup>3</sup>



# Container Type Quantity- 76,000



# AMWTP Waste Treatment Process

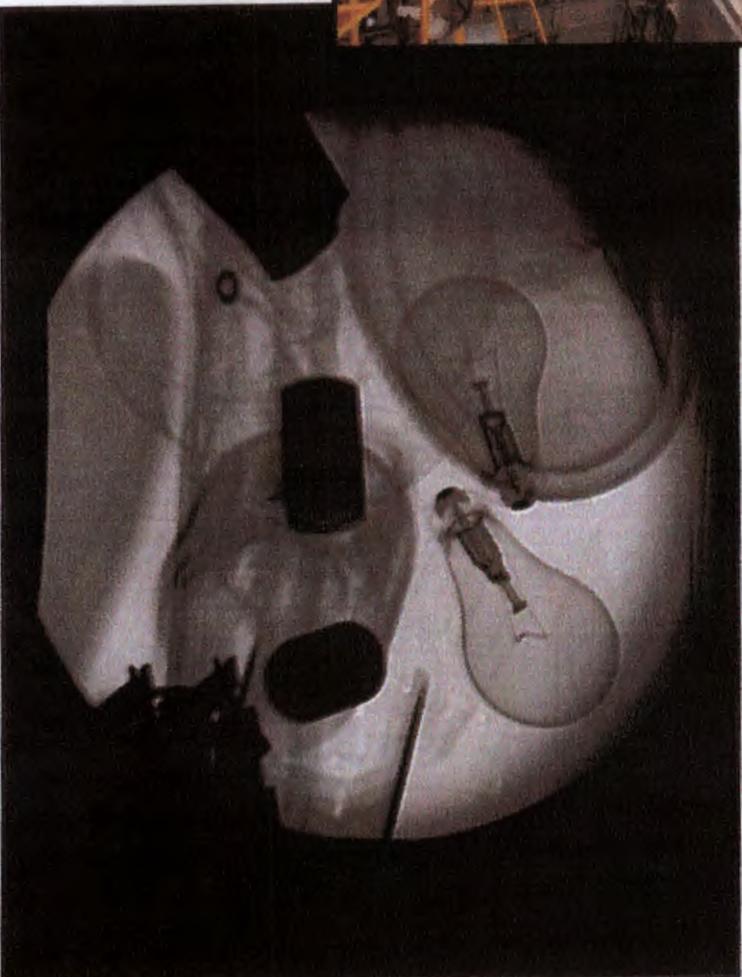




# Characterization



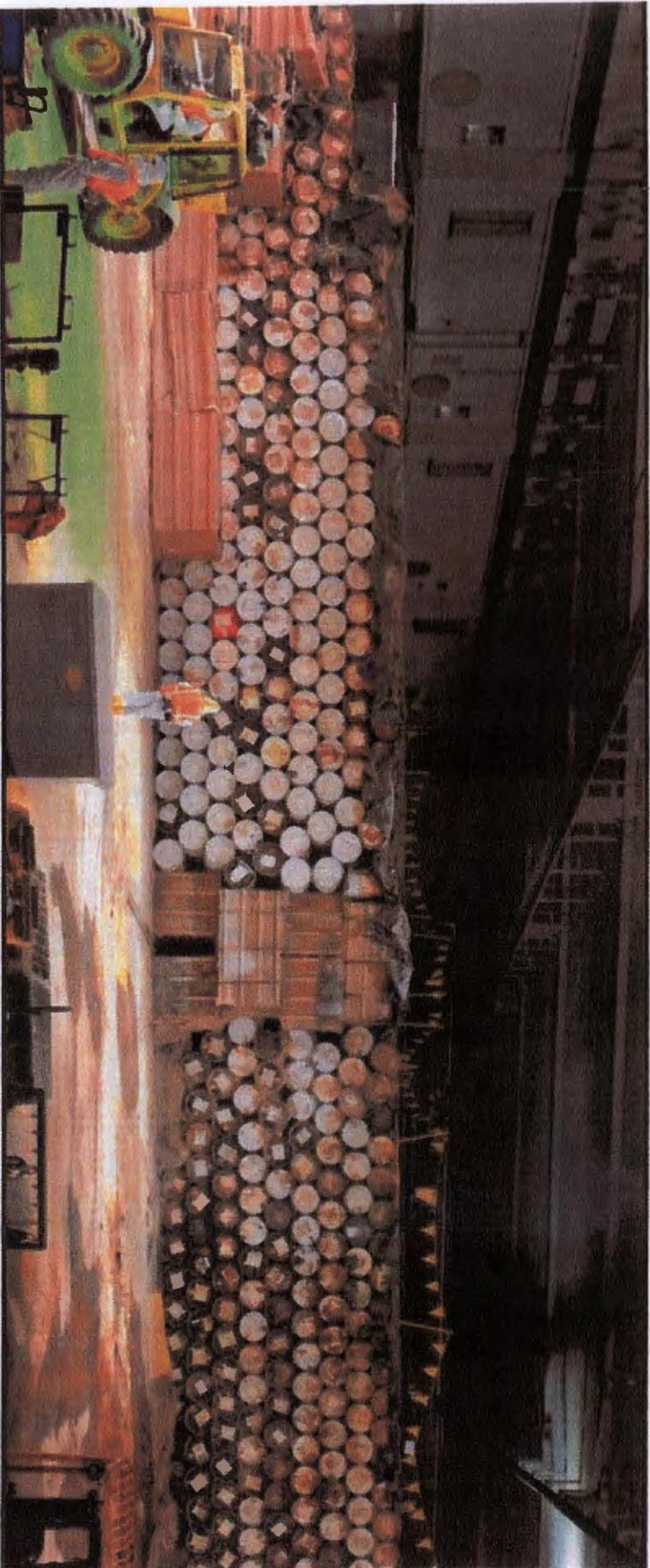
The drum coring glovebox



The real-time radiography x-ray of a drum



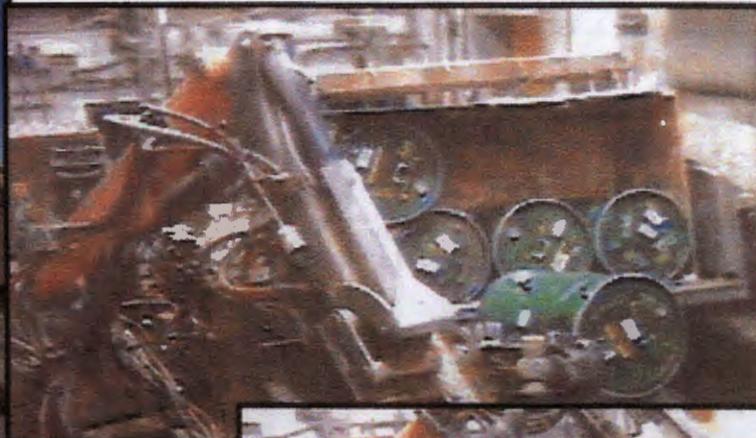
# Waste Storage & Retrieval



Waste drums and boxes stacked in the Retrieval Enclosure



# Treatment Facility



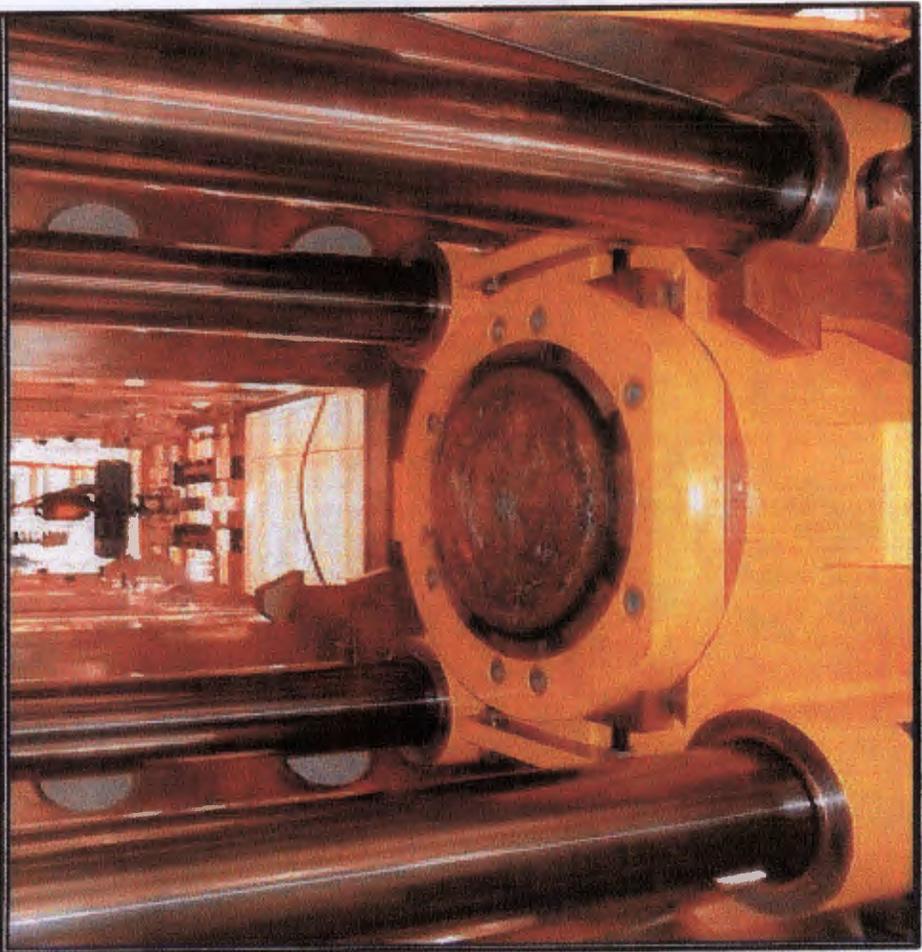
*Six Drum Overpack of Hanford waste being processed through Treatment Facility boxline*



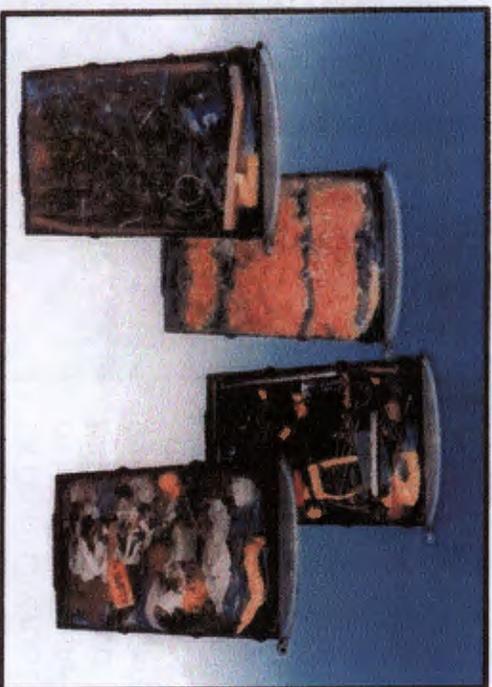
*Employee performing cleanout and repair work in a boxline.*



# Supercompactor



The interior of the AMWTP Supercompactor



Sacrificial drums with debris



Puck cross-section



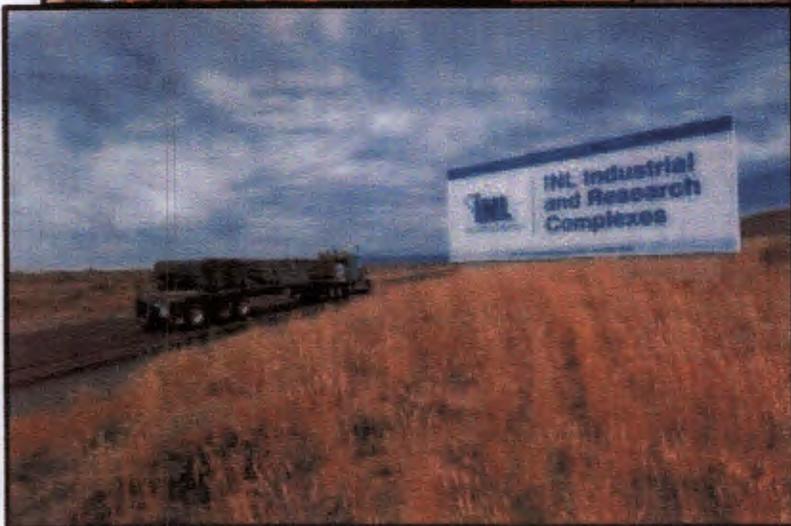
# Loading and Shipping



Workers load a TRUPACT II container



A waste shipment from AMWTP arrives at the Waste Isolation Pilot Plant in New Mexico



A shipment of mixed low-level waste leaves AMWTP



## Waste Processing challenges

### Retrieval

- Container integrity
- Container identification

### Characterization

- Solids/HSG Sampling and Analysis

### Repackaging

- Solidified materials
- Liquids
- Aerosol cans
- PCBs
- Sealed containers
- Layers of confinement

