Idaho Treatment Group
NMED tour of AMTWP
July 9th, 2012

Presenter
David H. Hear Waste Programs
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 10,000th shipment of transuranic waste leaves the AMWTP gates, Sept. 23, 2011.

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.
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
AMWTP Waste Treatment Process

Characterization
- Assay
- Radiography
- Head gas sampling

Treatment
- Supercompaction
- Liquids treatment
- Sizing

Payload/Shipping
- TRU waste
- MLLW waste

Disposal Options

Storage/Retrieval

WIPP
Commercial TSD
Federal Sites
Characterization
Waste drums and boxes stacked in the Retrieval Enclosure

Waste Storage & Retrieval
Treatment Facility

Employee performing cleanout and repair work in a boxline.

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

Puck cross-section

Sacrificial drums with debits

The interior of the AMWTP Supercompressor
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
Idaho Treatment Group

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