

AMWTP Waste Inventory and Processing

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Safe...

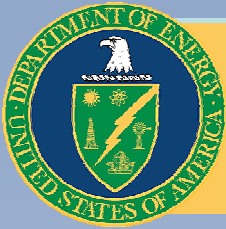
Compliant...

Efficient...

Production...

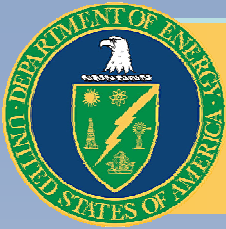
Waste Management 07
February 28, 2007



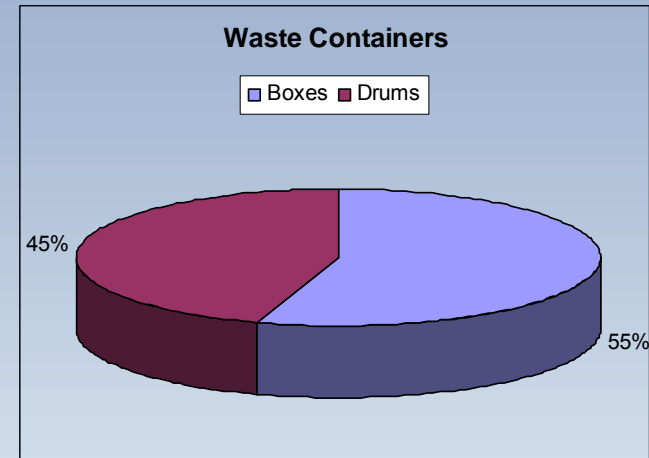
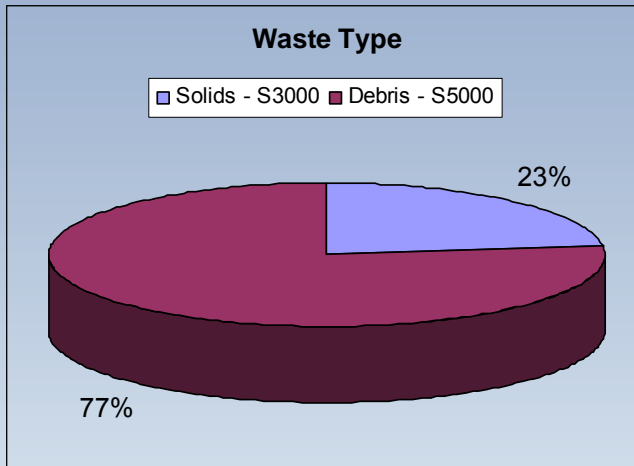


AMWTP Mission

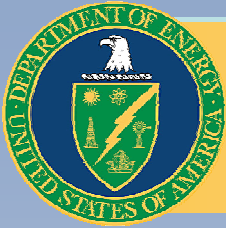
- Per Settlement Agreement, retrieve, characterize, treat, package and ship approximately 65,000 cubic meters of transuranic and mixed low-level waste out of Idaho to the Waste Isolation Pilot Plant and other approved locations.
- Project schedule is aligned with court-mandated milestones in the 1995 Governor's Settlement Agreement between the State of Idaho, the U.S. Navy and DOE to remove the waste from Idaho.
 - Ship running average of 2000m³ by December 31, 2005, starting in 2003
 - First year of average measurement was December 31, 2005
 - Ship all waste by a target date of December 31, 2015
 - However, ship all waste by end of calendar year 2018
- Site Treatment Plan Milestones – 4500m³/year from inventory



Waste Inventory

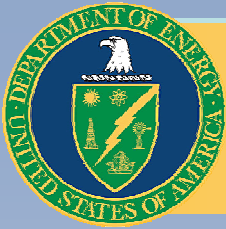


- Starting waste inventory – 61,275m³
- Majority of waste from Rocky Flats Plant
- 20% of inventory is ≤100nCi/g
- 40,000m³ of waste inventory remains in soil covered storage



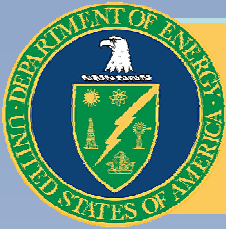
Waste Inventory

- Debris Waste
 - Wet and Dry Combustibles
 - Metals and Equipment
 - Wood and Glass
 - Filters
 - Graphite
 - Other
- Solids Waste
 - Organic and Inorganic solids
 - Cemented process sludges
 - Absorbed liquids
 - Solidified laboratory wastes
 - Other



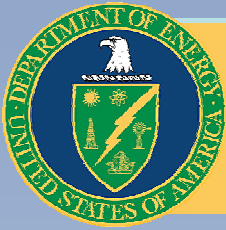
Waste Inventory Placement





AMWTP Waste Containers

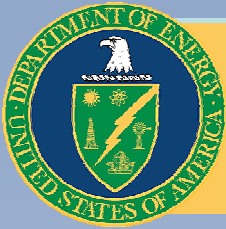




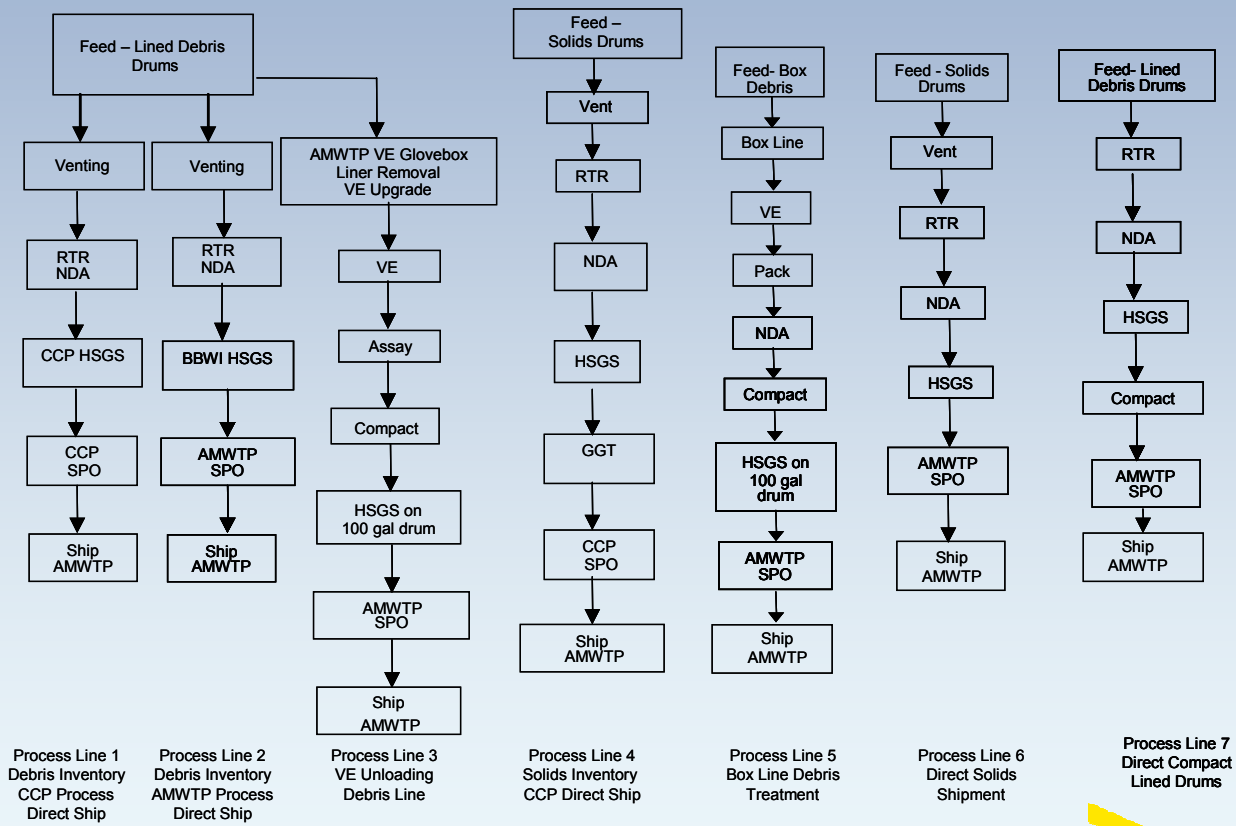
Advanced Mixed Waste Treatment Facility Complex



- Treatment - 1
- Retrieval - 2
- Storage - 3
- Characterization - 4
- Payload - 5
- Shipping - 6



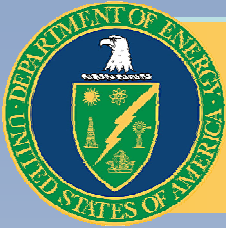
AMWTP Production Lines





Waste Inventory Processing Challenges

- Non-defense TRU waste
- Lead-lined waste containers
- High Fissile Gram Equivalent containers
- Indeterminant assay containers
- Facility rejected waste boxes
- High flammability level containers
- Concrete box containers
- Pre-retrieved roaster oxides
- High wattage containers
- Entrained liquids in PCB contaminated sludges



Possible Production Enhancements

- Box repackaging
- Large item decontamination
- Liquids separation and treatment
- Waste repackaging
- On-site and off-site MLLW treatment