

# Progress at the PADUCAH PROJECT

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Update to the Citizens Advisory Board

October 20, 2005



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**Manager**  
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# DUF<sub>6</sub> Conversion Project

- Conversion Building ground modification 50% complete
- Final design approved September 30
- Project proceeding with Conversion Plant construction

***Critical Decisions 2 & 3  
approved by DOE HQ***

Foundation work completed for  
Maintenance and Warehouse Building





# DMSAs

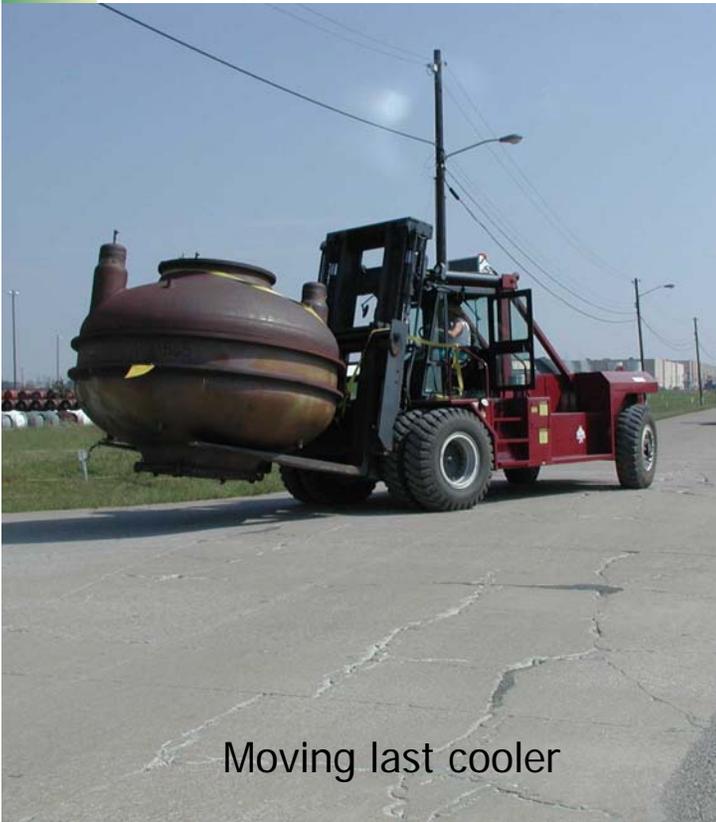
- All coolers removed from DMSA OS-15
- Agreed Order activities in DMSAs 331-04, 331-07 and 331-20 completed; areas returned to USEC





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Moving last cooler



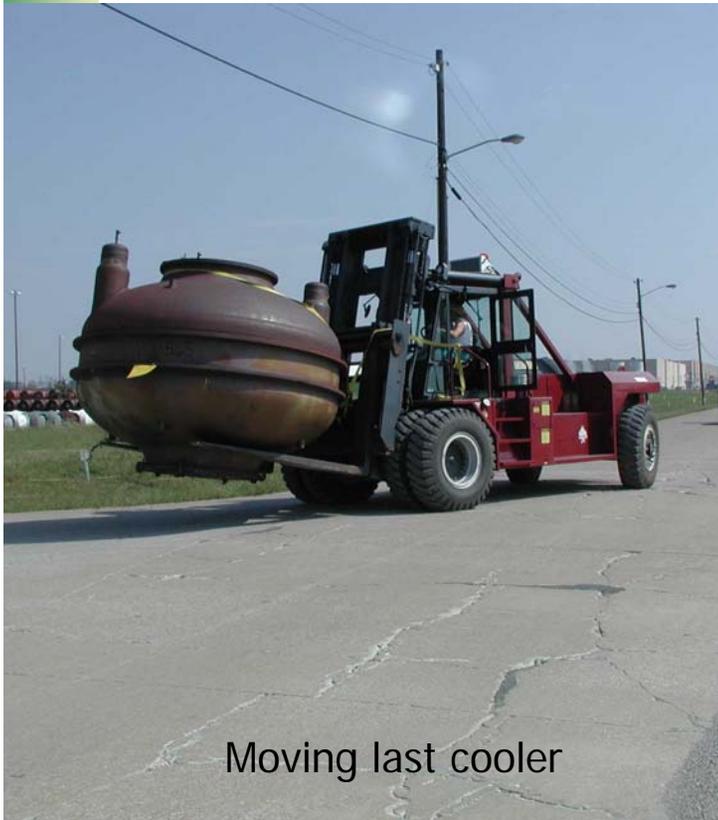
DMSA OS-15 before

2003 9 25



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Moving last cooler



DMSA OS-15 after



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*All Outside DMSAs  
now empty*

DMSA OS-15 after





# Expedited Cleanup Projects

## UF4 Drums

- Completed shipment of 3 million pounds of UF<sub>4</sub> to Duratek/Bear Creek

*UF4 gone*





# Expedited Cleanup Projects

## UF4 Drums

- Completed shipment of 3 million pounds of UF<sub>4</sub> to Duratek/Bear Creek

***DMSA 331-28  
now empty***



DMSA 331-28 after



# Inactive Facilities D&D

## Nitrogen Facility

- Demolition has begun
- Completion scheduled for this month



The "cold box" is lowered to the ground



# C-410 D&D

- Disposed of the C-410A Hydrogen Holder in the site landfill.
- Continued removal of fluorine cell stands and platforms from Sector 2
- Initiated paint removal from the remaining 13 breached fluorine cells
- Continued electrical demolition in Zone 64, C-411 in preparation for demolition
- Applying fixative to allow removal of equipment without needing to place personnel in respirators



Fixative applied to bright blue area  
in Zone 64, C-411

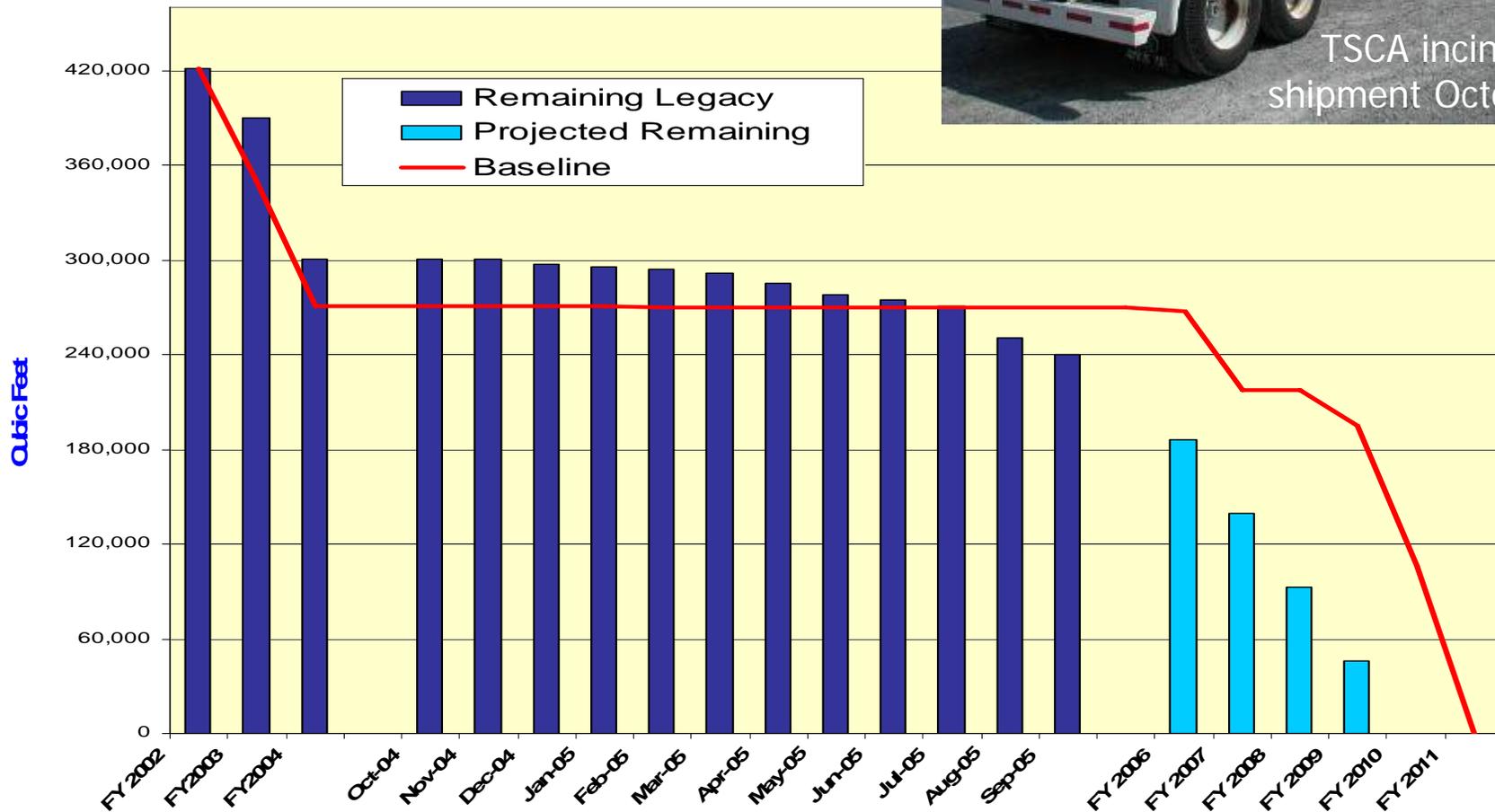


# Legacy Waste Disposition

- Shipped ~3,000 gallons of Mixed LLW to TSCA Incinerator



TSCA incinerator shipment October 5





# Legacy Waste Disposition

## Expedited Outdoor Legacy Waste Disposal

- Outdoor Legacy LLW shipments to Envirocare scheduled for November; repackaging underway

## Other projects

- Shipped first load of about ~3,000 containers of sewer sludge
- Complete disposal of Agreed Order waste by December; 4,270 containers have been disposed; ~ 500 containers remain.



Outdoor Legacy Waste  
FY 2009 to FY 2006

Waste near C-746-B  
July 2005



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# Scrap Metal Removal

- Shipped 434 tons of D-Yard scrap to NTS in September; 1,297 tons total shipped since July
- Completed disposal of 222 SeaLand containers to Envirocare September 15
- Preparing to start pallet removal/disposal in A-Yard.



Pallet pile in A-yard



# Surface Water Operable Unit



Storm water  
sampling

- Sampling of soils and sediments of NSDD Sections 3, 4 and 5, outfalls and internal ditches now complete
- Site Investigation /Baseline Risk Assessment will be submitted to the regulators by August 16, 2006.



# C-746-U Landfill

- Field portion of the Kentucky Research Consortium for Energy and Environment Holocene Displacement Study completed October 3.

KRCEE core sampling, core monitoring and core labeling





# Other Items of Interest

## Groundwater Operable Unit

### C-400 Source Removal

- Bechtel Jacobs evaluating subcontractor proposals to design, build, and operate the Electrical Resistance Heating project

### Southwest Plume

- D2 Site Investigation Report due to EPA and Kentucky by November 6, 2005

### S & T Landfill

- Issued D1 Site Investigation Report on September 30

## **Expedited D&D -- Lime House, Contaminated Item Incinerator, and West End Smelter**

- EE/CA comment period open through October 31
- Fieldwork on Lime House to begin January 2006

## Burial Grounds Operable Unit

- EPA and Kentucky comments received on D1 Remedial Investigation/Feasibility Study Work Plan
- D2 RI/FS in development

