

Progress at Paducah

Paducah Citizens Advisory Board

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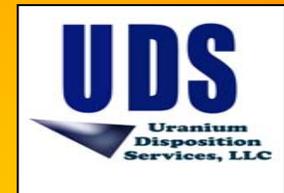
EM *Environmental Management*

safety ❖ *performance* ❖ *cleanup* ❖ *closure*



March Highlights

- Legacy Waste
- Inactive Facility D&D
- DUF6
- Nickel Ingots
- DMSAs
- Soil/Rubble Areas
- Waste Disposal Options



Legacy Waste

- Completed removal of 32,000 cubic feet of outside legacy LLW
- Completed milestone for Site Treatment Plan Table 3.2 waste
- 53% of the site's ~572,000 cubic feet of legacy waste now removed
- On schedule to complete removal of all legacy waste by October 2009



Outside LLW before



After

Inactive Facilities



Part of the C-400 complex; used for storage/neutralization of various chemicals until 1990; contaminated with TCE.



Used 1985-1992 to train plant security; horseshoe-shaped berm contaminated with lead.



Received C-410 effluent until late 1970s; contaminated with Tc-99 and uranium.

- Removal Notification approved for three inactive facilities
- All three have contaminated soils
- Engineering Evaluation/Cost Analysis in development
 - To be performed as part of Soils Operable Unit



DUF6 Conversion Project

- Power systems installation complete
- Completed Conversion Building ground floor concrete pours
- 40 percent complete with pouring Conversion Building concrete roof slabs



Left, concrete pad pour; right, welding inside the Conversion Building.



DUF6 Conversion Project



One of the first conversion units is lowered into position inside the Conversion Building.



Nickel Ingots



Potential bidders toured the nickel storage yard earlier this month.

- Expression of Interest issued for Nickel Ingot reuse
- Potential bidders visited Paducah in April
- Recycling moratorium remains, but metal can be reused in controlled settings
- Responses due May 8

DOE Material Storage Areas

Characterization



33 Priority A
100% Complete



11 Priority B
100% Complete

116 Priority C
38% Complete

Disposition

Priority A
88% Complete

Priority B
69% Complete

Priority C
26% Complete

Total characterization ~85% completed

Total disposition ~62% completed



Soil/Rubble Areas



Sampling underway near Little Bayou Creek.

- Sampling began April 13 at Soil Pile "I"
- Removal Notification for AOCs 492/541 and other soil piles in development
- Taking split samples with Kentucky and EPA

On-site Disposal Facility Study

- A large waste volume must be disposed of in the future; possible sources include:
 - Burial Grounds and other remedial actions
 - D&D
- DOE examining on-site and off-site disposal options
- Scoping process has begun leading to a Feasibility Study in early 2008



On-site Disposal Facility Study

Steps leading to Feasibility Study

1. Waste Volume Assessment - completed
 - 3.7 million cubic yards (requires 110 acre site)
 - ~30% will meet U-Landfill acceptance criteria
 - Off-site disposal costs could be up to \$1.8 billion
2. Siting Technical Memo
 - Submittal planned for late April
3. Conceptual Design Plan
4. Preliminary Waste Acceptance Criteria
5. Lifecycle Cost Analysis





DOE Portsmouth/Paducah Project Office