

Solving Cleanup Challenges Through Risk Reduction

Progress at the  
Paducah Gaseous  
Diffusion Plant

Presentation for  
Paducah CAB

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July 16, 2009



**EM** Environmental Management

safety ♦ performance ♦ cleanup ♦ closure

# Presentation Highlights

**C-400 Interim Remedial Action**



**Inactive Facilities  
ARRA Projects**



**Waste Removal Status**



## *C-400 TCE Source Reduction*



Drilling and installation of the belowground treatment system has been completed.

Construction of the aboveground portion of the system will be completed in August 2009. Testing scheduled to start in September.

System operation to follow successful system test.

One of the final borings is made.

## *C-400 TCE Source Reduction*

DOE planning  
public  
celebration  
when system  
goes on line.



A view from the roof of an adjacent building shows one of the final borings.

## *Inactive Facility Removal – ARRA Projects*

**First new hires on the job.**

**Decision document preparation underway.**

- Engineering Evaluation/ Cost Analysis (EE/CA) for Metals Plant and East End Smelter scheduled for submittal to EPA/KY in July
  - Action Memoranda will follow EE/CA approvals
- Existing C-410 Action Memorandum will be modified



**New workers hired to conduct D&D work under ARRA are shown how to use a radiation scanner before entering the C-410 Feed Plant where they will work initially.**

## *ARRA Projects – C-410 Feed Plant*

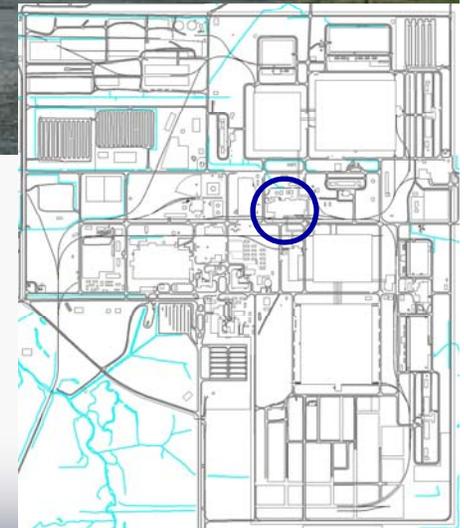
**Acceleration work has begun.**

**First 8 workers hired completed 6-week training program end of June 2009.**

- 11 additional workers hired for field and support positions
- 43 additional workers will be hired in the next month
- New workers will start at C-410 until work begins at other facilities
- Hiring for another ~90 positions continues
- Nearly 2,000 applications received



C-410 Feed Plant



## *ARRA Projects – C-340 Metals Plant*

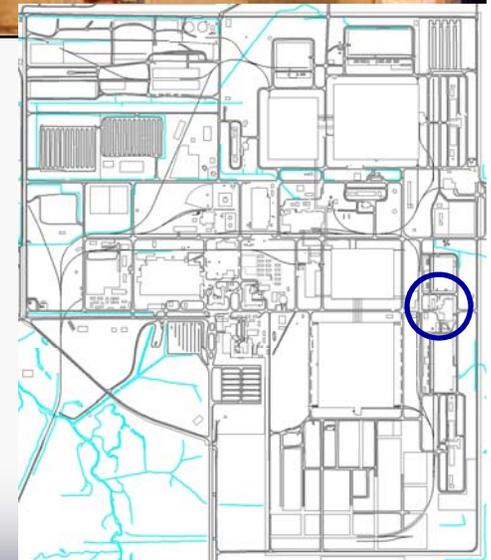
Work to prepare the building for D&D has begun using non-ARRA funds. This includes removal of loose material and debris and installation of construction lighting and power systems.

D&D work scheduled to start early FY 10 and will include the following:

- Stabilize internal systems
- Remove chemical hazards
- Remove/dispose of equipment and infrastructure
- Demolish south end annex of main production facility and two ancillary support facilities (C-340 D&E)
- Prepare complex (C-340-A, B, and C) for demolition
- Demolish facility



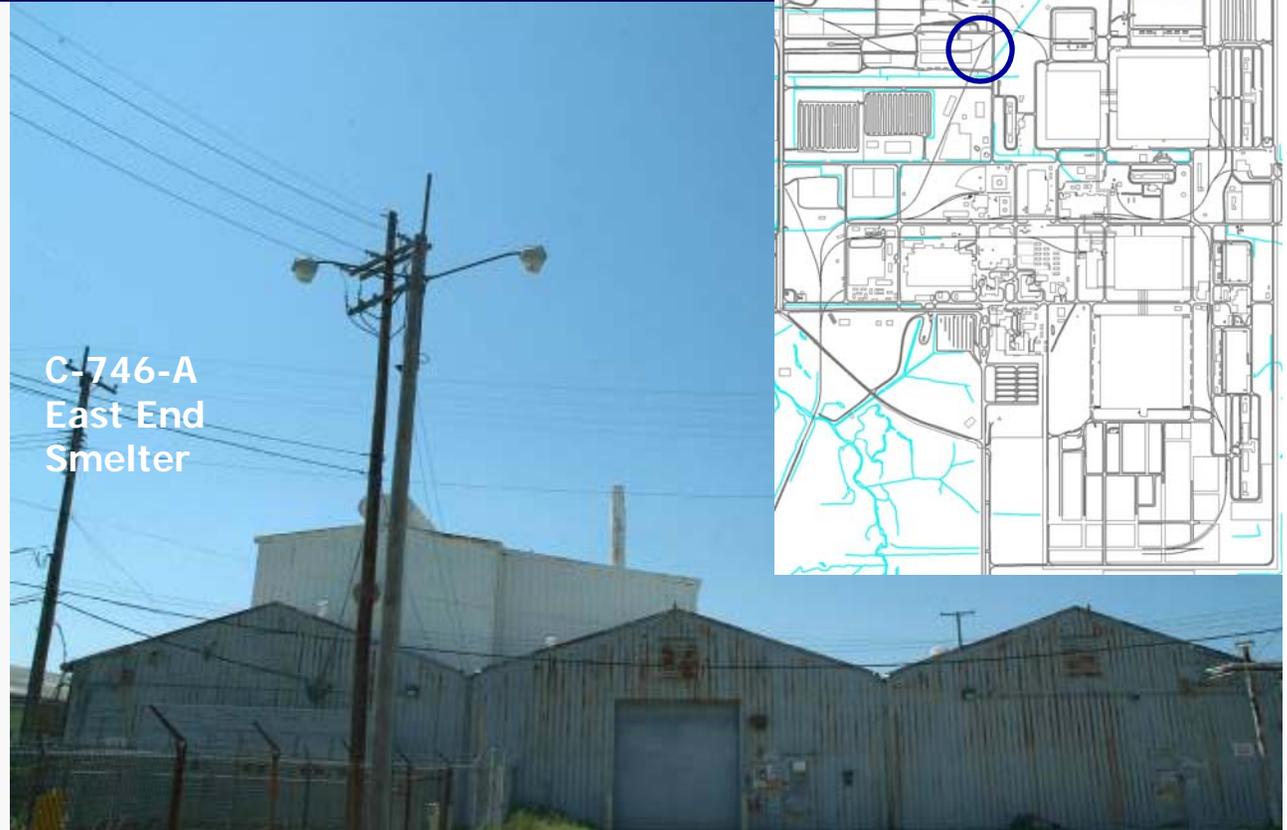
C-340 Metals Plant



## ARRA Projects – C-746-A East End Smelter

The first step is to unhook the building from the enrichment plant utilities grid (power, water, steam, etc.).

DOE crews will begin D&D work in early FY 10. This includes removal of loose material and debris and installing temporary power and lighting systems.



### D&D steps

- Remove and dispose of equipment
- Remove/dispose of infrastructure
- Demolish to slab

## Waste Removal



Between legacy wastes and items in DOE Material Storage Areas, the Paducah Site once stored more than 1,000,000 ft<sup>3</sup> of legacy waste materials. Just 30,000 ft<sup>3</sup> remains.

All wastes will be removed before September 30, 2009.





**DOE Portsmouth/Paducah Project Office**