

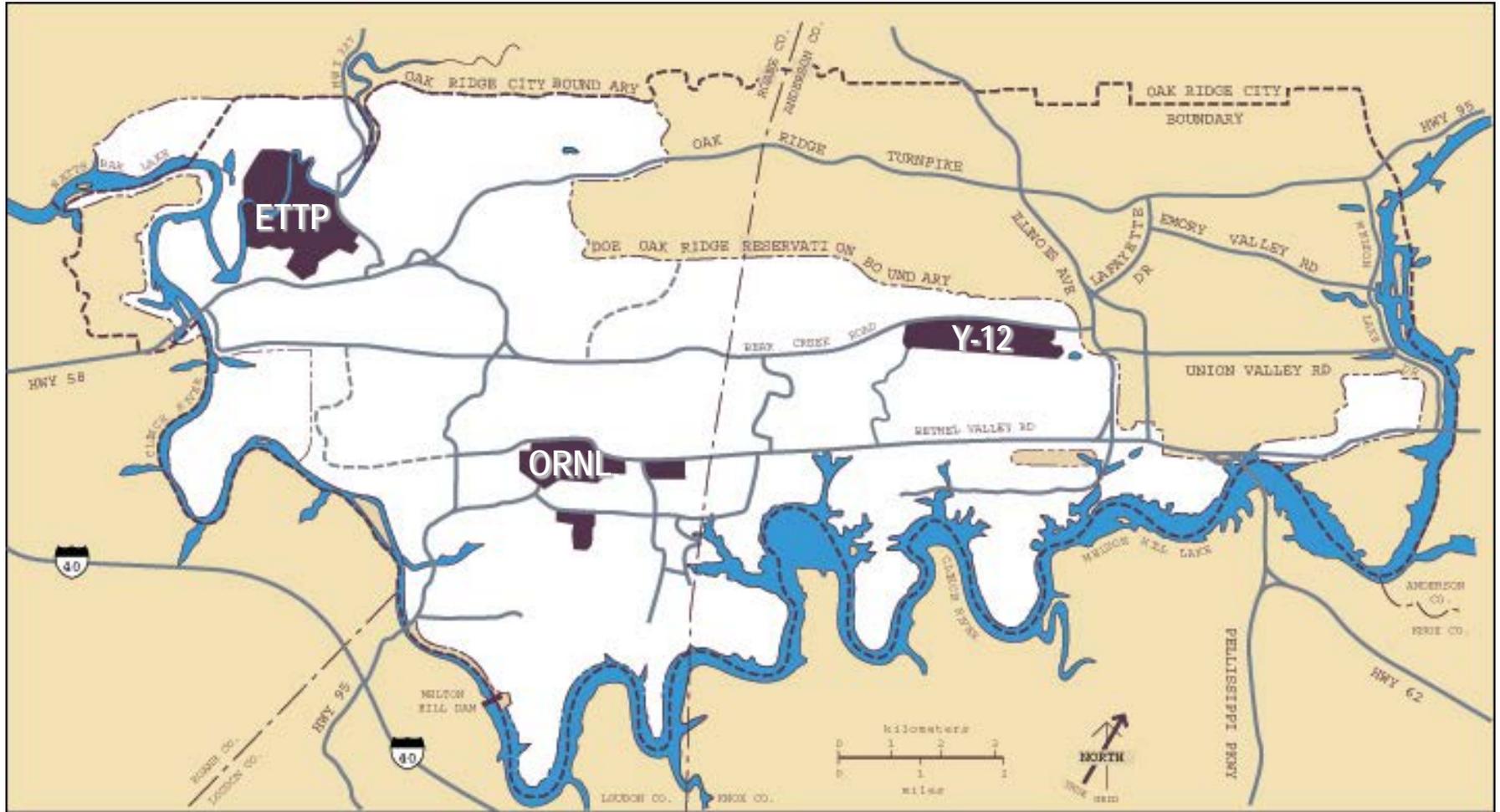


East Tennessee Technology Park Cleanup Project



Jim Kopotic
Portfolio Federal Project Director
East Tennessee Technology Park

DOE's Oak Ridge Reservation



East Tennessee Technology Park (ETPP)

Oak Ridge National Laboratory (ORNL)

Y-12 National Security Complex (Y-12)

About East Tennessee Technology Park

- Formerly known as the Oak Ridge Gaseous Diffusion Plant
- Built in the early 1940s
- Enriched uranium for the war effort and continued enrichment activities for commercial and national defense purposes until 1985; operations were permanently shut down in 1987



ETTP CERCLA Areas and RODS



Early Remedial Actions



K-1070-A Burial Ground Excavation

G-Pit Excavation



Mitchell Branch Grout Wall and GW Collection System

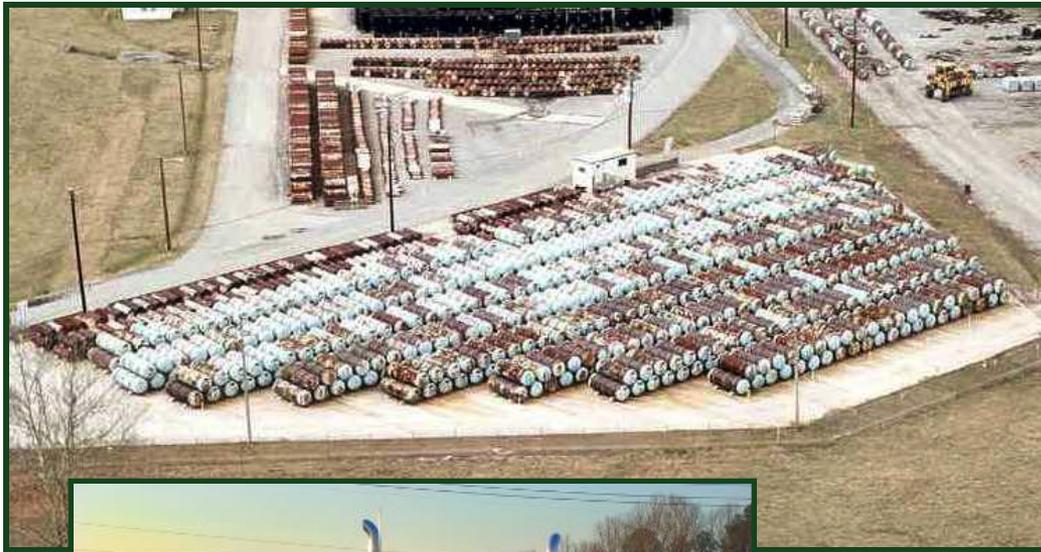
K-770 Scrap Removal Project

- The Scrap Removal Project completed shipments and disposal of 48,100 tons of scrap into the Environmental Management Waste Management Facility in April 2007



Cylinder Disposition

- Dispositioned ~7,000 cylinders (5,952 safely shipped to Portsmouth)
- All ETPP cylinder storage yards have been emptied



L Yard



Last cylinder shipment from ETPP (December 2006)



K-1070-B Remediation Completed

- Completed cleanup of 6.5-acre K-1070-B disposal area
- Used from early 1950s to mid-1970s to dispose of equipment and materials
- 100,200 cubic yards of soil and debris excavated and shipped

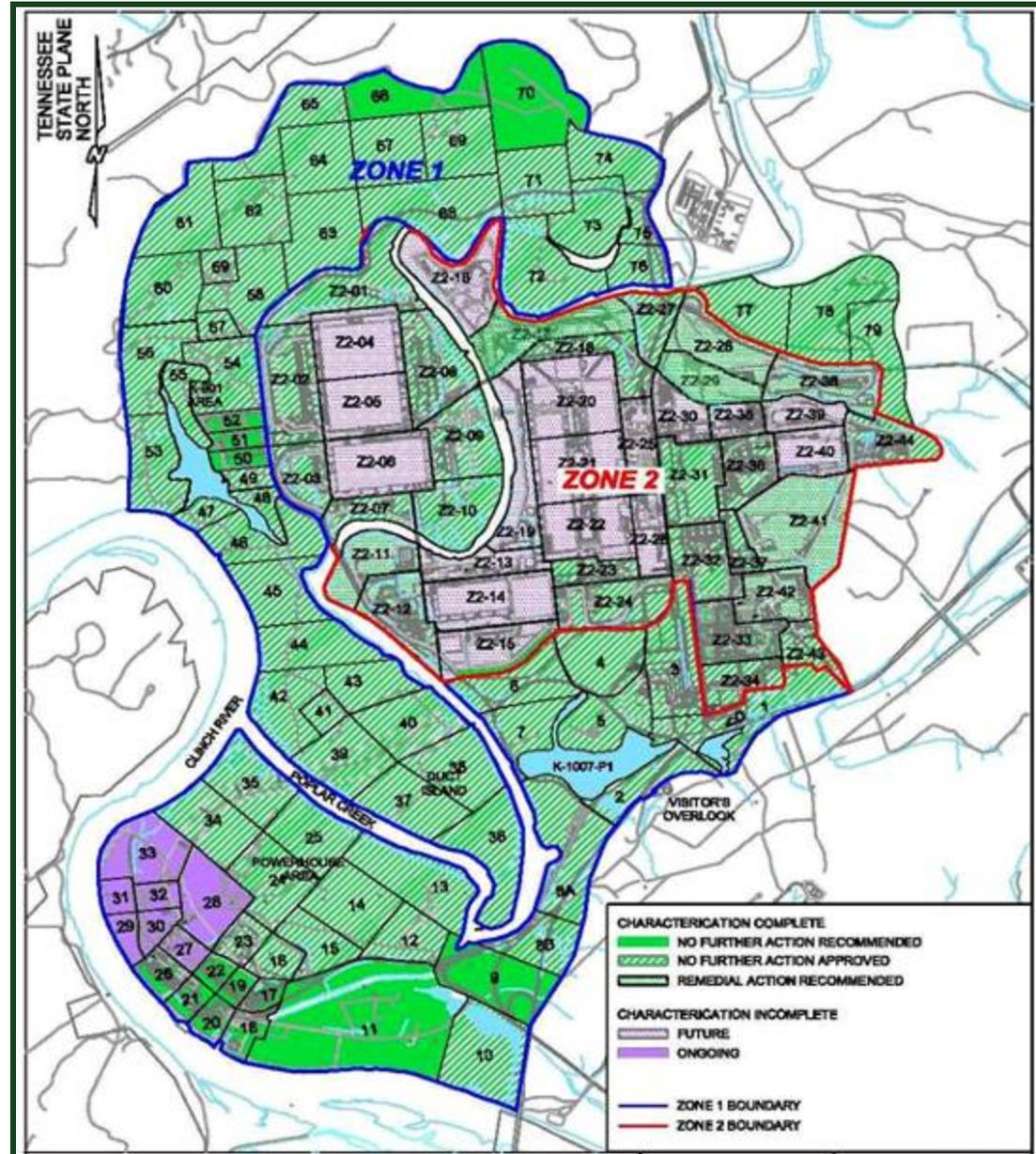


ETTP Zones 1 and 2 Status

- Zone 1 is the area on which ETTP is located; Zone 2 is the area surrounding ETTP
- Almost 1,500 of 2,200 acres approved for no further action



Blair Quarry Remediation



East Tennessee Technology Park Before Cleanup



K-25 Building

- Gaseous diffusion facility built in the early 1940s as part of the Manhattan Project
- 1.64 million square feet of floor space in a mile-long U-shaped structure
- Enriched uranium for defense and commercial purposes
- Shut down in 1964; building has been deteriorating since



K-25 Building Demolition



- West wing demolished by previous contractor
- UCOR completed east wing demolition (except for TC-99 units)
- UCOR currently demolishing the north end

Status of K-25 North End Demolition

- Demolition began Oct. 24
- Demolition will be completed this month
- Most debris is being disposed of at the Environmental Management Waste Management Facility (EMWWMF)

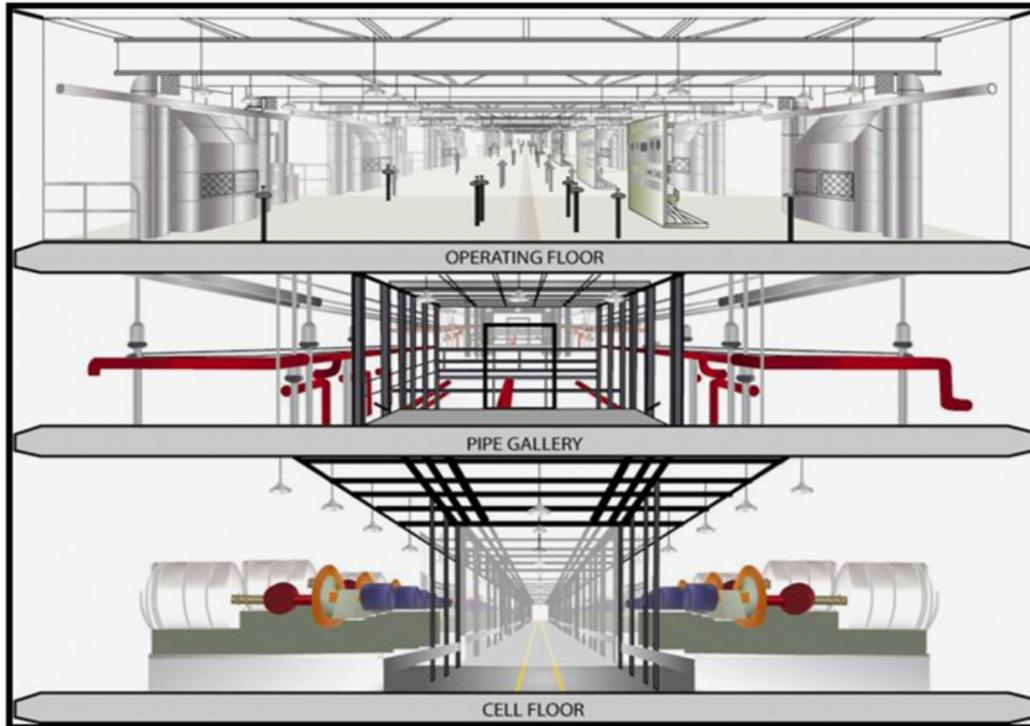


NaF Trap Removal from K-25 Building

- Five high-risk components that were located in the Tc-99 portion of the east wing
- Used to absorb uranium from the process system
- Each trap is about the size of a household water heater and weighs up to 800 pounds
- All five were removed by crane through two holes that were cut in the roof of the building for that purpose



Historic Preservation



- Memorandum of Agreement signed August 2012 that details commemorative activities at ETTP

Equipment room to be constructed simulating operations in the K-25 Building

Artist's concept of proposed observation tower to be erected near the site; History Center will be placed in nearby Fire Station



K-27 Building

- Uranium process facility, similar to the K-25 Building but smaller
- Shut down in 1964
- Pre-demolition activities are currently under way



K-27 Building Deteriorated Condition



K-27 Pre-demolition Activities

- Vent, purge, and drain
- NDA measurements and intrusive sampling



K-27 NaF Trap Removal

- Completed vent, purge, and drain of all NaF traps and associated lines
- Started process gas and non-process gas pipe interfacing removal



K-27 NaF traps

Previous D&D Projects as ETTP



K-1401



K-1420



Cooling Tower



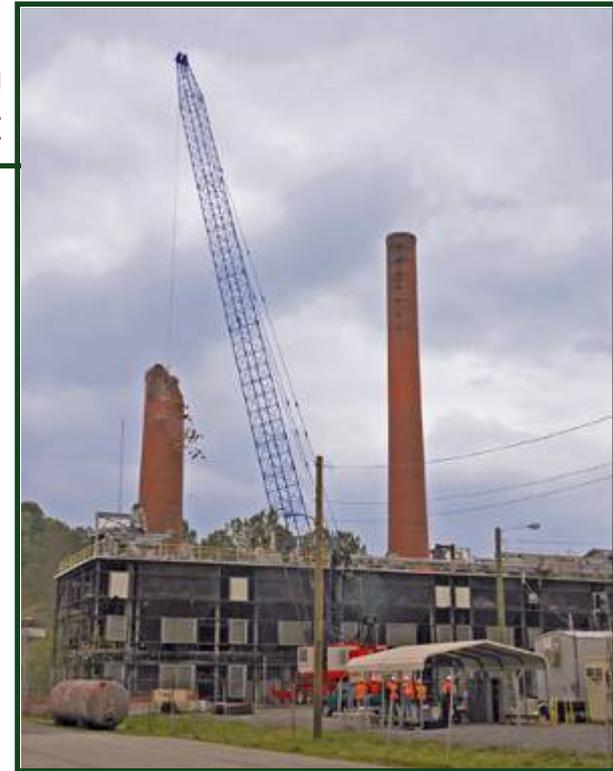
Lab Area

Previous D&D Projects at ETTP (continued)



K-1501 Steam
Plant

K-29



K-1206-E Water Tower



K-1320

ETTP Cleanup Status

Facilities demolished:
374

Waste removed:
1.77 million yd³

DUF₆ cylinders removed:
7,000

Area cleared for
unrestricted use:
1,400 acres



 = Demolished  = Buildings to remain
(Lease, transfer, DOE-owned)  = Demolition ready  = Being demolished  = Pre-demo activity

Ultimate Goal for ETTP: Transfer to Private Sector

- UCOR is supporting DOE in its plan to convert ETTP into a private sector industrial park
- Progress includes:
 - 19 properties (~700 acres) and 332,000 square feet of building space transferred
 - 300 acres of DOE-owned property and 180,000 square feet of DOE-owned building space leased
 - More than 11 miles of railroad and related equipment transferred to CROET, rehabilitated, and sold to private sector

