

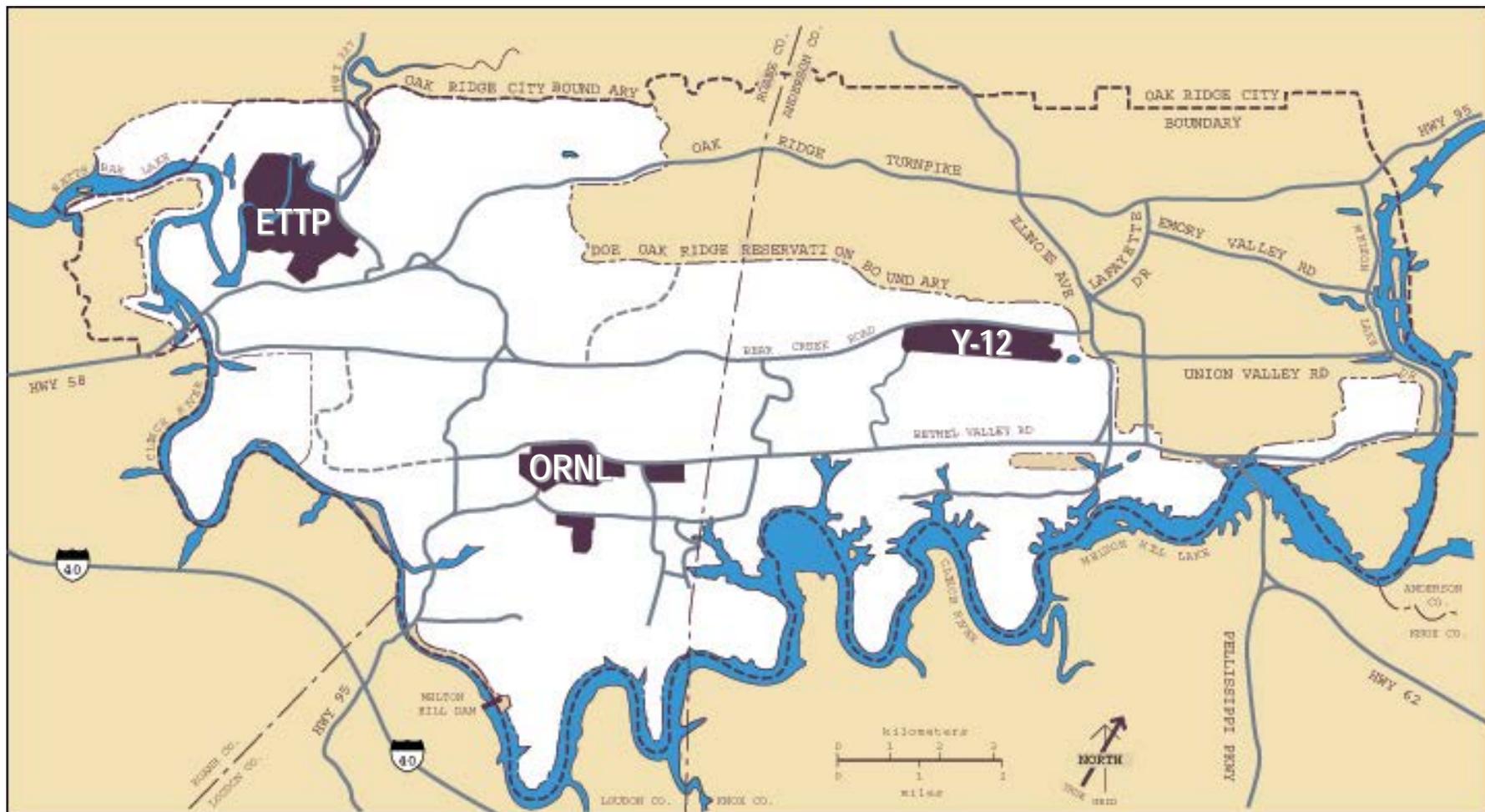


**Belvia Payne**  
**East Tennessee Technology Park**  
**Emergency Management Forum**  
**September 26, 2013**



**UCOR**  
URS | CH2M  
Oak Ridge LLC

# 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



# K-27 Building Deteriorated Condition



# 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



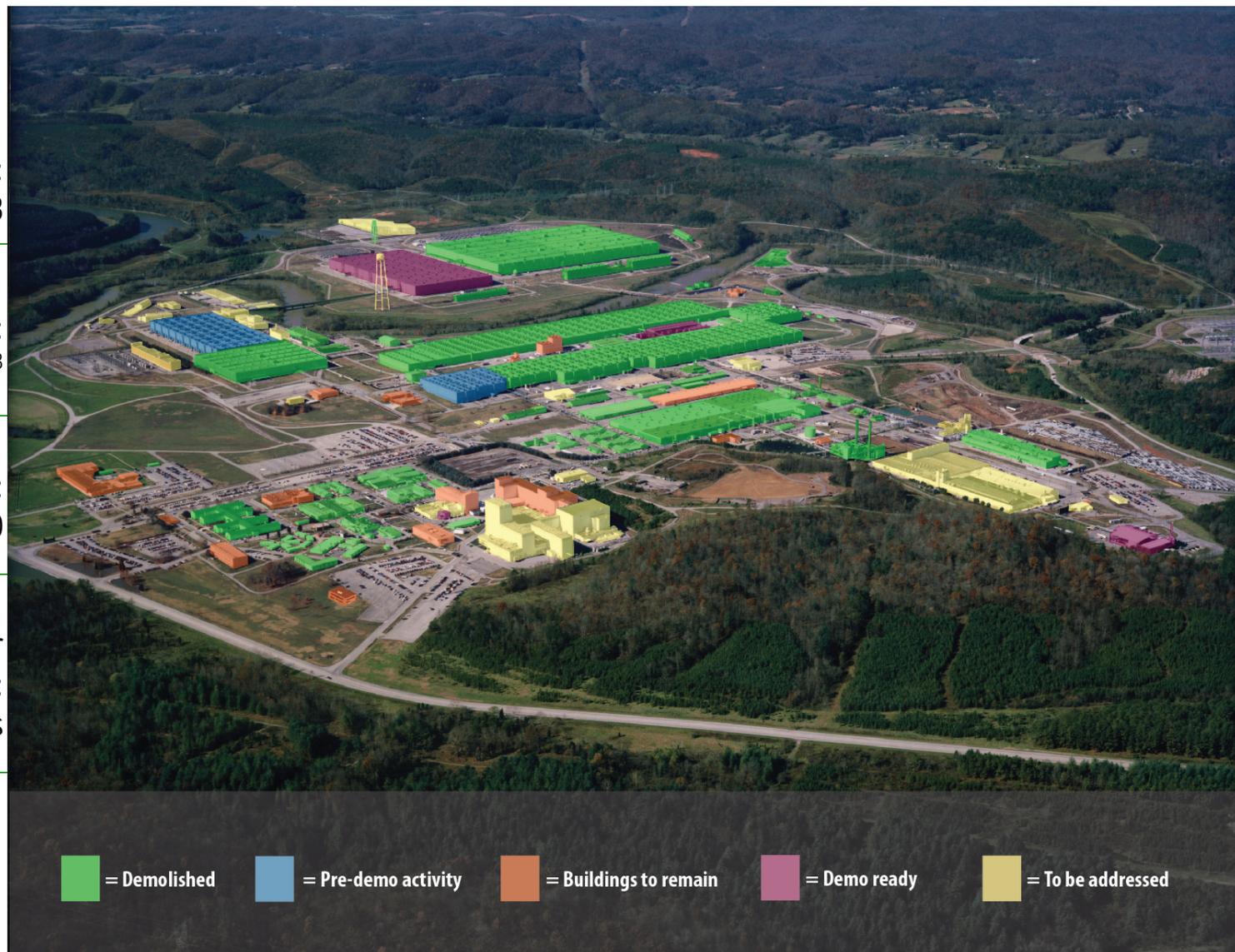
# ETTP Cleanup Status

Facilities demolished:  
378

Waste removed:  
1.87 million yd<sup>3</sup>

DUF<sub>6</sub> cylinders removed:  
7,000

Area cleared for  
unrestricted use:  
1,400 acres



# Private Businesses at ETTP - Advantage

- Extensive infrastructure, roads, and rail line accessibility
- Many buildings include ready-to-use equipment such as cranes and machine tools.
- All contain sprinklers, fire mains, sanitary and potable water, and industrial electric service.
- Reduces the capital outlay usually needed to setup a business
  - Babcock
  - USEC
  - M&EC
  - PALL Industries
  - Omega

# Changes in Site Hazards

- As site cleanup continues, hazards from DOE facilities that could be involved in a release are constantly changing:
  - Residual hazardous materials are being reduced as buildings are demolished
  - Hazardous waste is being shipped offsite
- Some private tenant operations include inventories of hazardous materials

# Major Types of Hazardous Materials On-Site

Chemical	Radioactive
Uranium Hexafluoride (UF <sub>6</sub> )	UF <sub>6</sub>
Uranium (residuals)	Uranium (residuals)
Depleted uranium (DUO)	Depleted uranium (DUO)
Mixed Waste Materials	Mixed Waste Materials
Nickel (Ni)	
Sodium (Na)	
Beryllium (Be)	
Tritium( <sup>3</sup> H)	
Hydrogen Fluoride (HF)	
Uranyl Fluoride (UO <sub>2</sub> F <sub>2</sub> )	

# Park Shift Superintendent

- Site Operations Center
- 24-hr emergency notification point
- Transitions to Emergency Control Center
  - Categorizes/classifies emergency events
  - Initiates initial protective actions
  - Dispatches emergency responders
  - Activates ERO
- Completes initial emergency notifications (DOE HQ, TEMA, local counties)
- Initiates mutual aid requests



# Fire Dept Operated by City of Oak Ridge

- Oct. 2007 - Site Fire Department transitioned to City of Oak Ridge
- Services provided via MOA between City of Oak Ridge & DOE
- It has been integrated into ETTP's emergency drill and exercise program
  - 2 Advanced life support ambulances
  - 1 Heavy Rescue truck
  - 1 Jon boat (can be used for water rescue or deploying booms)
  - 1 Hazardous Materials Truck
  - 1 Collapse trailer (cutting and shoring equipment used for a building collapse)
  - 1 Trench rescue trailer
  - 1 Mobile shower / decon trailer
- All personnel are Emergency Medical Technicians and most are Hazmat Technicians



# Response Assets

- Emergency Operations Center
- Fire Department
- Protective Force
- Emergency Medical Services
- Field Monitoring Teams
- Joint Information Center

