



UCOR
an AECOM-led partnership with Jacobs

Reducing Risk and Enabling Federal Land Reuse on the Oak Ridge Reservation

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Jay Mullis

Manager, DOE-Oak Ridge Office of Environmental Management



The Right Ingredients

Communication



- 10-Year Program Plan
- Partnering agreements

Partnerships



- Contractors
- Unions
- National Nuclear Security Administration
- Office of Science

Vision



- Goal-oriented mentality
- Projects focused on progress and transformation

Strategic Approach

Vision 2020

All remaining facilities demolished at ETTP



Vision 2016

All five GDPs demolished



Vision 2024

Excess contaminated facility cleanup and risk reduction at ORNL and Y-12

Ken Rueter

UCOR, President and Chief Executive Officer



COMPLEX ENVIRONMENTS



- First-of-a-kind cleanup/demolition
- Deteriorating structures
- Classified components
- Volumes of waste





UNIQUE HAZARDS

Hydrogen Fluoride
Fluorine
Chlorine Trifluoride
Uranium Hexafluoride
Pyrophorics
Shock Sensitive
Chemicals
Plutonium
High Acids/Bases
High-Dose Materials

Fuel Particles
Biological
Beryllium
Liquid Nitrogen
Asbestos
Lead
PCBs
Silica
Mercury
Freon

Scale and Magnitude of the Challenge

Completing
Vision
2016



4.5M square feet demolished

5,000 converters shipped offsite

137 miles piping removed

57,600 waste truckloads

Enabling
Vision
2024



~1.5M square feet to D&D

~10M cubic feet
of waste to dispose

~311M gallons of low-level
wastewater to manage/treat

Projected Amounts

Delivering
Vision
2020



1.75M square feet to demolish

6.7M cubic feet of debris to dispose

3.7M cubic feet of soil to dispose

2.9M gallons water to treat

Projected Amounts

Reducing Risk – Oak Ridge Environmental Cleanup Key Outcomes

5.5 million
square feet
demolished

4.61 tons
of mercury prevented from
entering the environment

28 million
cubic feet of waste disposed
Debris: 24M / Soils: 2.9M

782+ million
gallons of low-level
wastewater managed/treated

By Radiological Activity
99.8%/217,411 Ci offsite
0.2%/426 Ci onsite



Committed to Land Reuse

ETTP

Transferred

- 1,281 acres for reindustrialization
 - Duct Island parcel for Coqui Pharma
- 3,470 acres for conservation

Other Government Use

- K-31 site for UPF project
- K-1065 for NNSA warehouse/shipping and receiving



ORNL

Central Campus Cleanup

- Enables new missions (e.g., supercomputing, isotope production, Translational Research Capability facility)

Y-12

Biology Complex D&D

- Enables construction of new lithium facility

Keeping the End State in Mind



Historic Preservation
and National Park



~100 acres



Private Sector
Industrial Park



~1,500 acres



Conservation
Areas



~3,500 acres