

May 26, 2016
3:00 – 5:00 p.m.

- Welcome and Opening Remarks Sue Cange
- Message from Washington Rep. Chuck Fleischmann
- Cleanup Progress, Near-Term Priorities, and Budget Sue Cange
- SSAB Recommendations on FY 2018 Budget David Hemelright
- Audience Q&A
- Panel discussion: Purpose— Progress— Partnerships Ken Rueter
 - Steve Dahlgren (URS | CH2M Oak Ridge LLC)
 - Jane Nations (Consolidated Nuclear Security)
 - Lee McGetrick (UT-Battelle)
- Audience Q&A with the Panel
- Wrap-up Sue Cange



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

2016 Community Workshop

Purpose – Progress – Partnerships

Sue Cange

Manager

Oak Ridge Office of Environmental Management

May 26, 2016

Our work is accomplished through Purpose – Progress – Partnerships

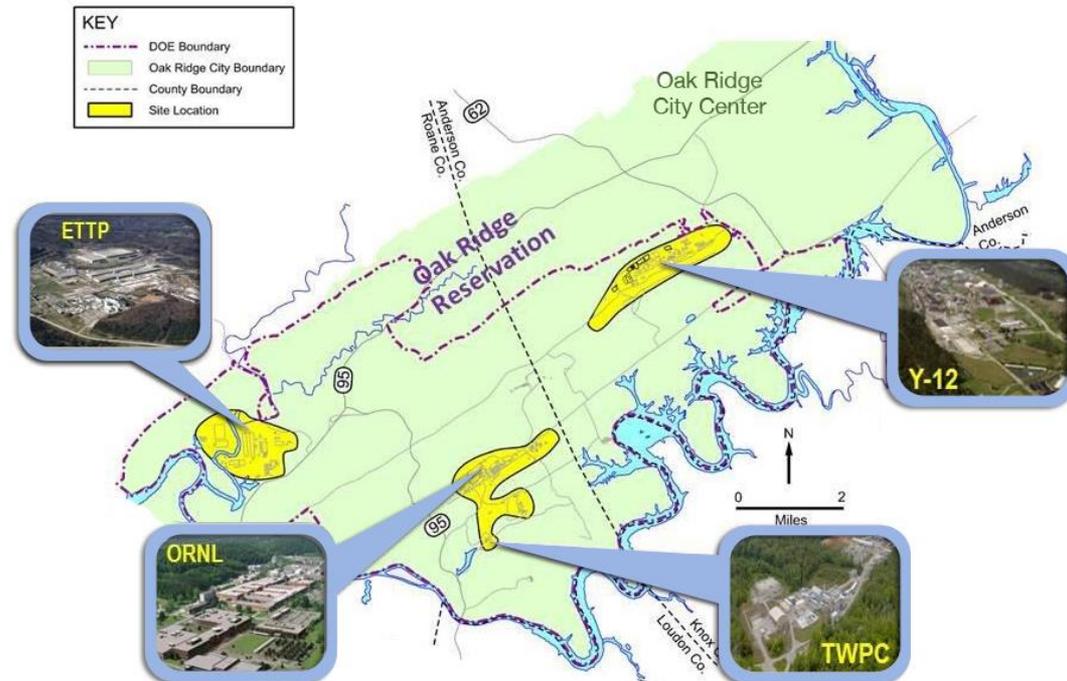
Goals for the 2016 Community Workshop:

- Raise awareness about the mission, vision, and plans for the Y-12 National Security Complex (Y-12), Oak Ridge National Laboratory (ORNL), and East Tennessee Technology Park (ETTP)
- Explore Environmental Management's role in enabling ongoing missions across the Oak Ridge Reservation (ORR)
- Inform participants how DOE and its contractors are interconnected, and how they are working together to achieve their diverse missions

Our work enables other critical missions in Oak Ridge

Our mission is to complete cleanup of the Oak Ridge Reservation to:

- Protect the region's health and environment
- Make clean land available for future use
- Ensure DOE's ongoing vital missions



*Our vision is that the Oak Ridge Reservation is
Remediated, Modernized, and Reindustrialized*

Our success is due in part to our partnering approach

- Create an environment of openness to build trust
- Share common vision, mission, and goals to ensure clarity and maintain focus
- Stress safe work practices to protect workers and the public
- Celebrate accomplishments with all parties



We have established near-term visions that support cleanup of the Reservation

Vision 2016

Completion of GDP building demolition at ETTP

Vision 2020

Remaining portion of ETTP cleaned up and reindustrialized

Vision 2024

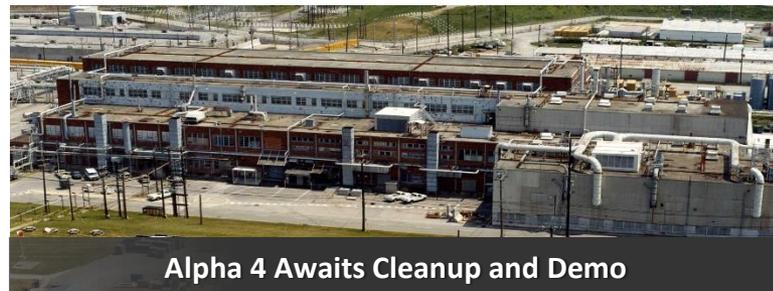
Expand cleanup work to Y-12 to address mercury contamination



K-27 Demolition Begins



K-31/K-33 Area Ready for Reuse

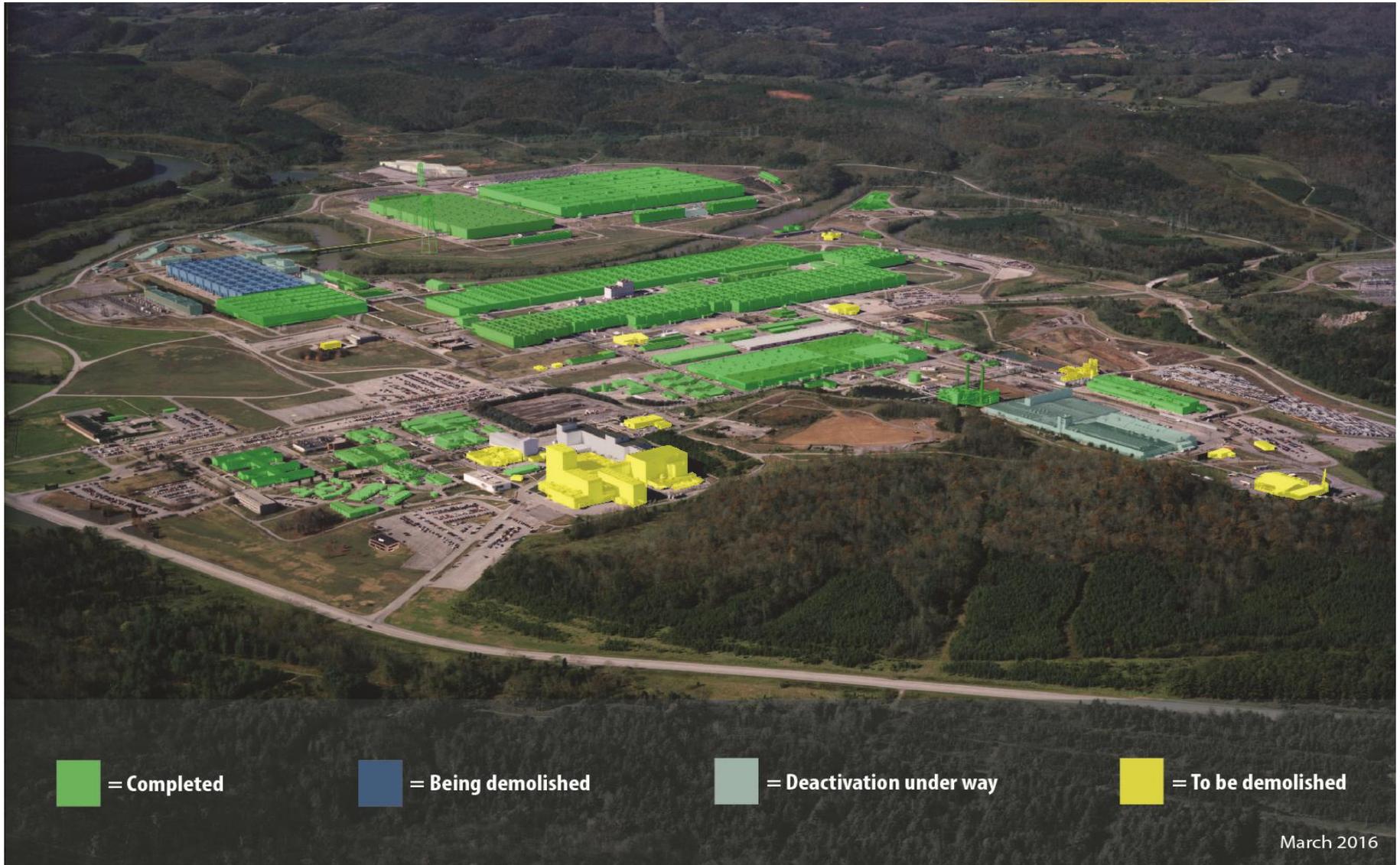


Alpha 4 Awaits Cleanup and Demo

All gaseous diffusion facilities at ETPP demolished by end of 2016



What remains to meet Vision 2020



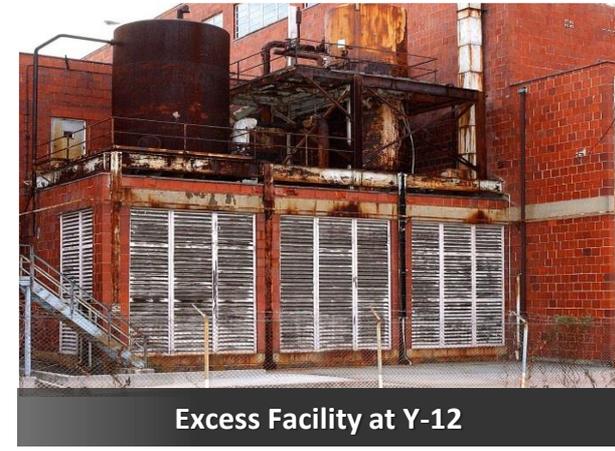
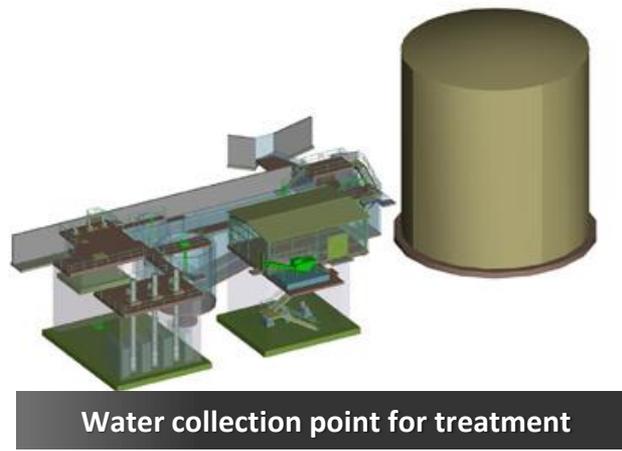
Vision 2020 includes transition of ETTP to a private sector industrial park

- Reindustrialization of ETTP is well underway
 - Over 700 acres of land transferred
 - 14 buildings transferred
 - 20 private companies operating
 - Site infrastructure, roads, and services transferred to City of Oak Ridge
- Historic preservation of the former Gaseous Diffusion Plant is also underway in accordance with the National Historic Preservation Act
 - Construction could begin next year if adequate funding is received

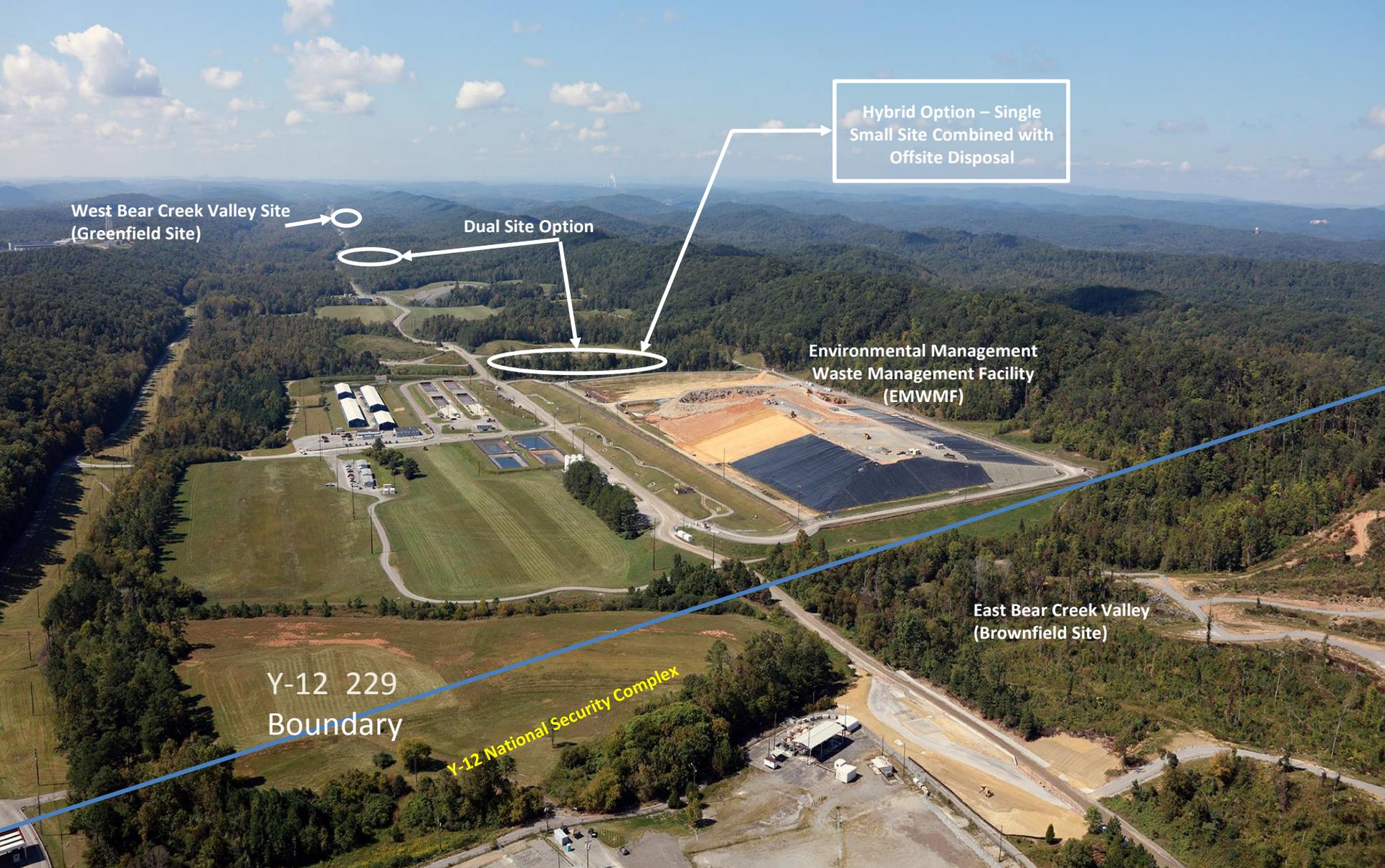


What are we doing to prepare for Vision 2024?

- Planning for waste disposition
 - Current disposal facility is ~ 70% full and is expected to be nearly full when cleanup of ETPP is complete
- Design/construction of Mercury Treatment Facility
 - Needed to reduce concentration of mercury leaving the site today and will be an important control measure in the future
- Preparing facilities for future demolition under the Excess Facilities initiative
 - Characterizing facilities; preparing Critical Decision documents, where appropriate; abating hazards/reducing risks

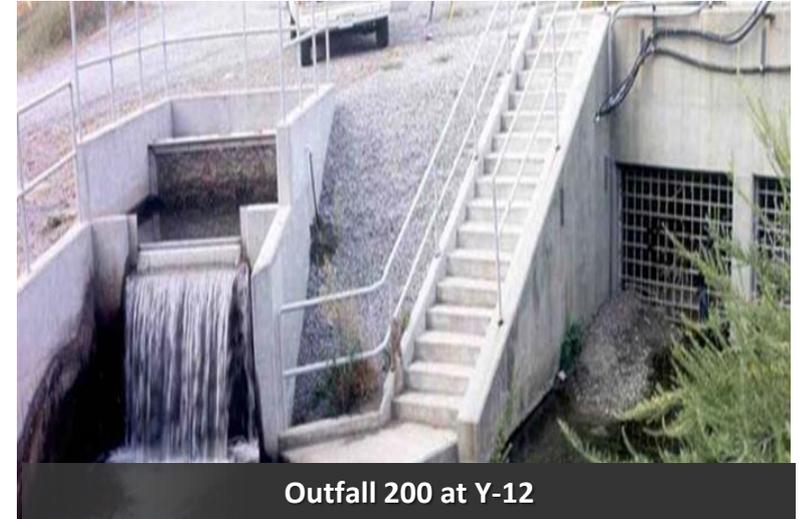


Additional disposal capacity is needed to successfully achieve Vision 2024

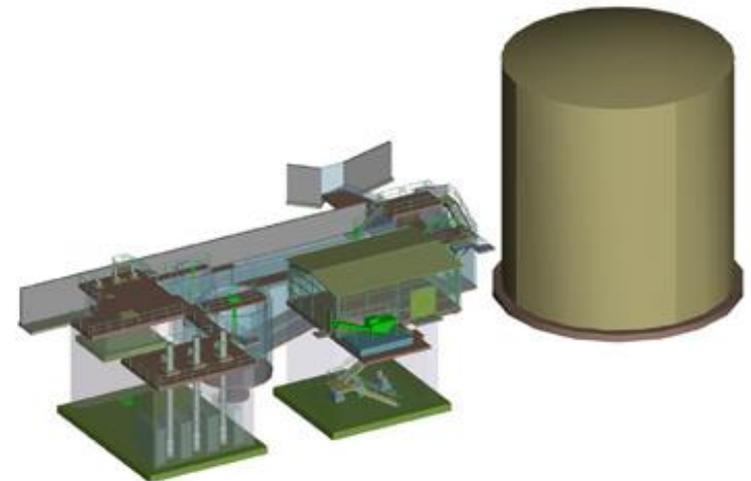


The Mercury Treatment Facility serves two purposes

- The facility will:
 - Reduce mercury releases to Upper East Fork Poplar Creek
 - Provide control of expected increases in mercury releases resulting from cleanup of the West End Mercury Area
- The facility can treat 3,000 gallons per minute with 2 million gallon storage capacity for storm water
- Preliminary design is complete and final design is scheduled to be complete in 2017



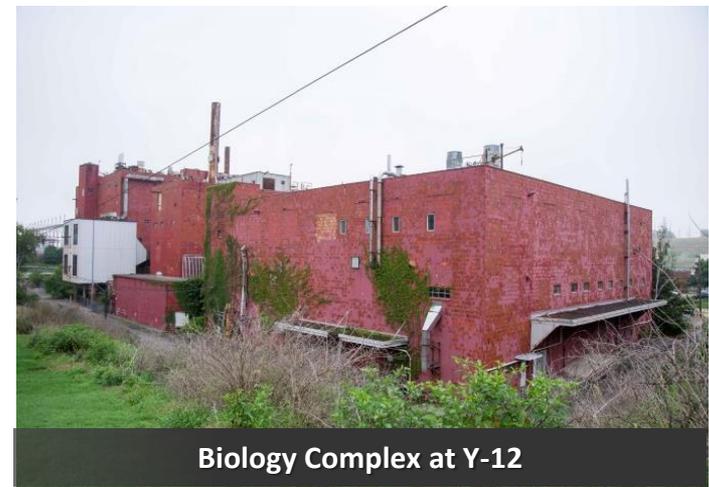
Outfall 200 at Y-12



Conceptual design of Mercury Treatment Facility

Oak Ridge has begun addressing excess contaminated facilities

- Office of Inspector General and Government Accountability Office issued three reports in FY 2015 raising concerns about DOE's management of excess facilities
 - Oak Ridge has 25% of DOE's high risk facilities
- OREM partnered with NNSA and Office of Science to build an integrated cleanup plan and has submitted it to DOE HQ
- FY 2016 appropriation provides \$28M of EM funds and \$19M of NNSA funds to begin work
 - Projects will focus on abating hazards, reducing risks, and stabilizing conditions as buildings await demolition



Other priorities include implementing a groundwater strategy

- A groundwater strategy has been developed to study and address groundwater contamination on and around the Oak Ridge Reservation
- Currently finishing a three-year Offsite Groundwater Assessment Project that included collecting data and performing modeling to learn more about the area's groundwater migration patterns
 - Results indicated no exceedances of National Drinking Water Standards
- Working with the State of Tennessee and EPA to determine what the next project will be under the strategy

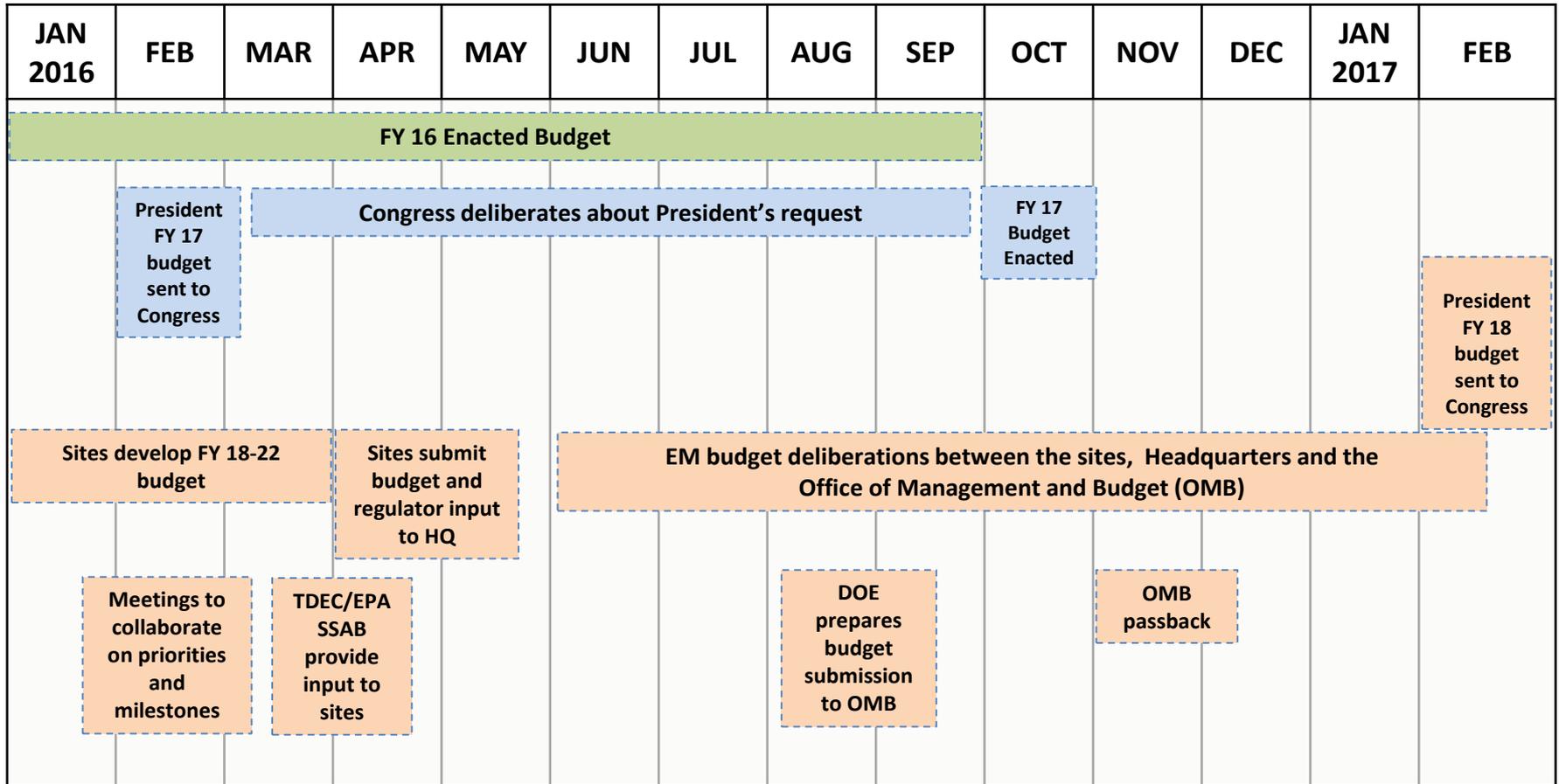


Groundwater sample collections

Remaining focused on our near-term priorities is a key to our success

- Complete cleanup of ETTP *including meeting historic preservation commitments and continuing to reindustrialize the site*
- Complete direct disposition of the U-233 material and begin the processing campaign
- Complete contact and remote-handled transuranic debris processing
- Construct and operate the Transuranic Sludge Test Facility
- Complete CERCLA planning for waste disposition and if appropriate, preliminary design of a new Environmental Management Disposal Facility
- Continue design and complete construction of the Mercury Treatment Facility
- *Continue implementation of the groundwater strategy*
- *Reduce risk and stabilize contaminated facilities and maintain critical infrastructure*

DOE is working three different budgets at any given time



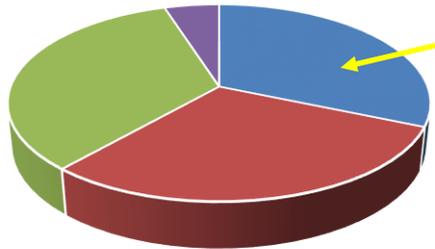
FY16 Budget Enacted

FY17 President's Budget

FY18 Budget Being Developed

Oak Ridge uses three sources of funding to execute its mission

FY 2016 Uranium Enrichment D&D¹

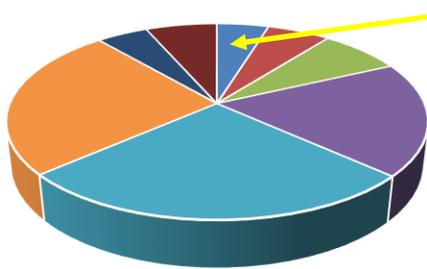


Oak Ridge
\$212 million
31%

¹ Used to cleanup ETPP

Portsmouth: 34%
Paducah: 30%
Uranium/thorium reimbursement: 5%

FY 2016 Defense²

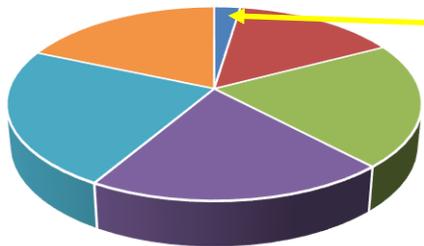


Oak Ridge
\$251 million
5%

² Used at Y-12 & ORNL

River Protection: 27%
Savannah River: 25%
Richland: 19%
Idaho: 7%
Carlsbad: 6%
NNSA Sites: 5%
All Other: 6%

FY 2016 Non-Defense³



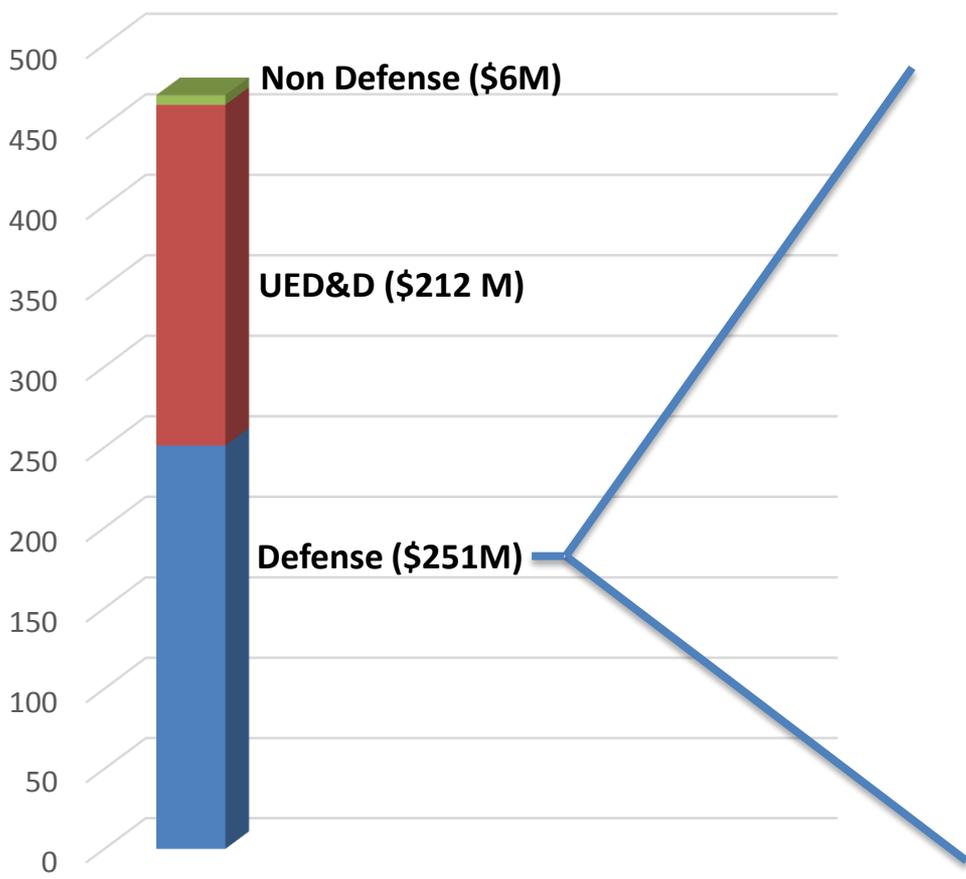
Oak Ridge
\$6 million
2%

³ Used for historic preservation

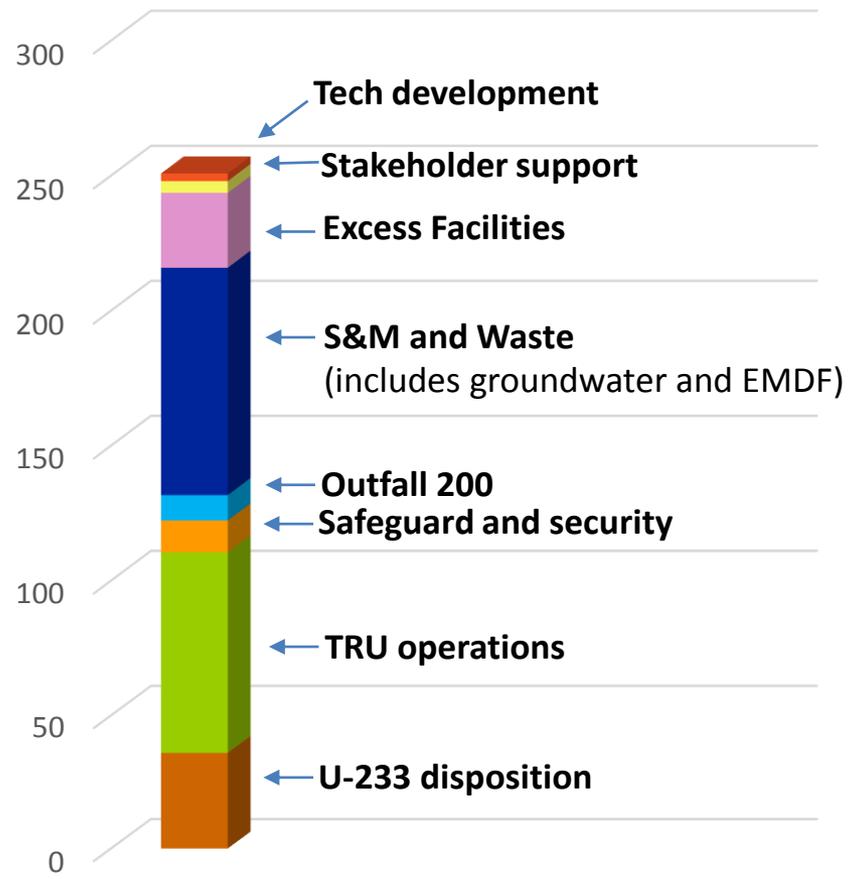
West Valley: 23%
Paducah: 21%
Portsmouth: 21%
Moab: 15%
All Other: 18%

Oak Ridge's EM Budget is strong in FY 2016

OREM Total FY 2016 Budget
\$469 million



FY 2016 Defense Funding Breakout
\$251 million



Budget development focuses on priorities (FY 2018 – FY 2022)

- Maintain safe, compliant operations
- Continue work at ETPP to meet Vision 2020
- Prepare and begin U-233 processing campaign
- Continue Transuranic waste processing and shipments to the Waste Isolation Pilot Plant
- Construct and operate Transuranic Sludge Test Facility and work on design of system
- Construct Mercury Treatment Facility and begin operations
- Complete design of a new onsite disposal facility and begin construction
- Continue implementing the groundwater strategy
- Continue addressing excess facilities and critical infrastructure needs



K-27 Demolition Begins



Current onsite disposal facility

We've made tremendous progress, but there's more work to do

- OREM still has much work to accomplish after 2022
 - Complete processing of the remaining U-233 material
 - Complete transuranic processing of sludge
 - Complete shipment of transuranic waste to WIPP
 - Complete Y-12 and ORNL cleanup
 - Implement final CERCLA actions, including groundwater
- This work will create land free of legacy materials supporting economic growth at ETPP and modernization of Y-12 and ORNL, keeping these sites at the forefront of their respective fields



New Hope Center at Y-12



Oak Ridge National Laboratory



Heritage Center Industrial Park at ETPP