



# Welcome to the Oak Ridge Office of Environmental Management's 2015 Community Budget Workshop





# Workshop Agenda

**Wednesday, April 29, 2015  
2:00 – 5:00 p.m.**

- Welcome and Opening Remarks/ Feedback From 2014 Community Budget Workshop Sue Cange
- DOE-OREM Near-Term Cleanup Priorities Jay Mullis
- Break
- Community Cleanup Priorities
  - SSAB David Hemelright
  - ORRCA TBD
  - Oak Ridge Partnership Sarah Roberts
- Break
- Federal Budget Formulation Process Alan Stokes
- Open Discussion
- Next Steps Sue Cange

# 2014 Community Budget Workshop Summary of Outcomes and Actions

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**Sue Cange**

*Manager*

Oak Ridge Office of Environmental Management

**April 29, 2015**

## Balancing Priorities, Maintaining Momentum

- *Purpose:* Develop ideas to work on together to help maintain momentum in the Oak Ridge environmental cleanup program
- Three separate groups developed outcomes areas where Oak Ridge EM and the community could partner



## 1. Alternative Contracting Strategies for New Projects

### Outcomes

- Structure contracts to provide ample opportunities for small businesses
- Use contract types that reward companies for excellent performance, and reduces profits for poor performance

### Actions

- ETEBA, as a member of the Oak Ridge Partnership, led an effort to develop ideas for productive contracting strategies and authored a white paper on how to improve federal contracting policies and practices
- DOE-EM uses draft RFPs to solicit industry input into contract types and terms
- OREM identified small business opportunities for support services, waste processing, and characterization

## 2. Balancing Competing Priorities with Available Budget

### Outcomes

- Cleanup priorities should be established based on reduction of risk and cost
- Continue to engage the community on cleanup priorities through public outreach

### Actions

- Cleanup priorities are intended to address and balance the different risks at each of the sites in Oak Ridge -- Environmental, Radiological, and Life-cycle cost
- Cleanup priorities is the Focus area for OREM 2015 Community Budget Workshop
  - Additionally, OREM has been working to improve interactions with SSAB, ORRCA, and other community stakeholders and discuss priorities

- **Planning for Beyond DOE – including Reindustrialization, Historic Preservation, etc.**

## Outcomes

- Eliminate risks first, and give consideration to sequencing subsequent cleanup activities at ETTP to support end-states
- Strengthen partnerships needed to sustain end-states

## Actions

- OREM filled the gap between K-25 and K-27 demolition that supports property transfers that can be used for potential anchor tenants
- OREM continues to strengthen partnerships with local organizations to build consensus
- DOE has progressed on historic preservation commitments

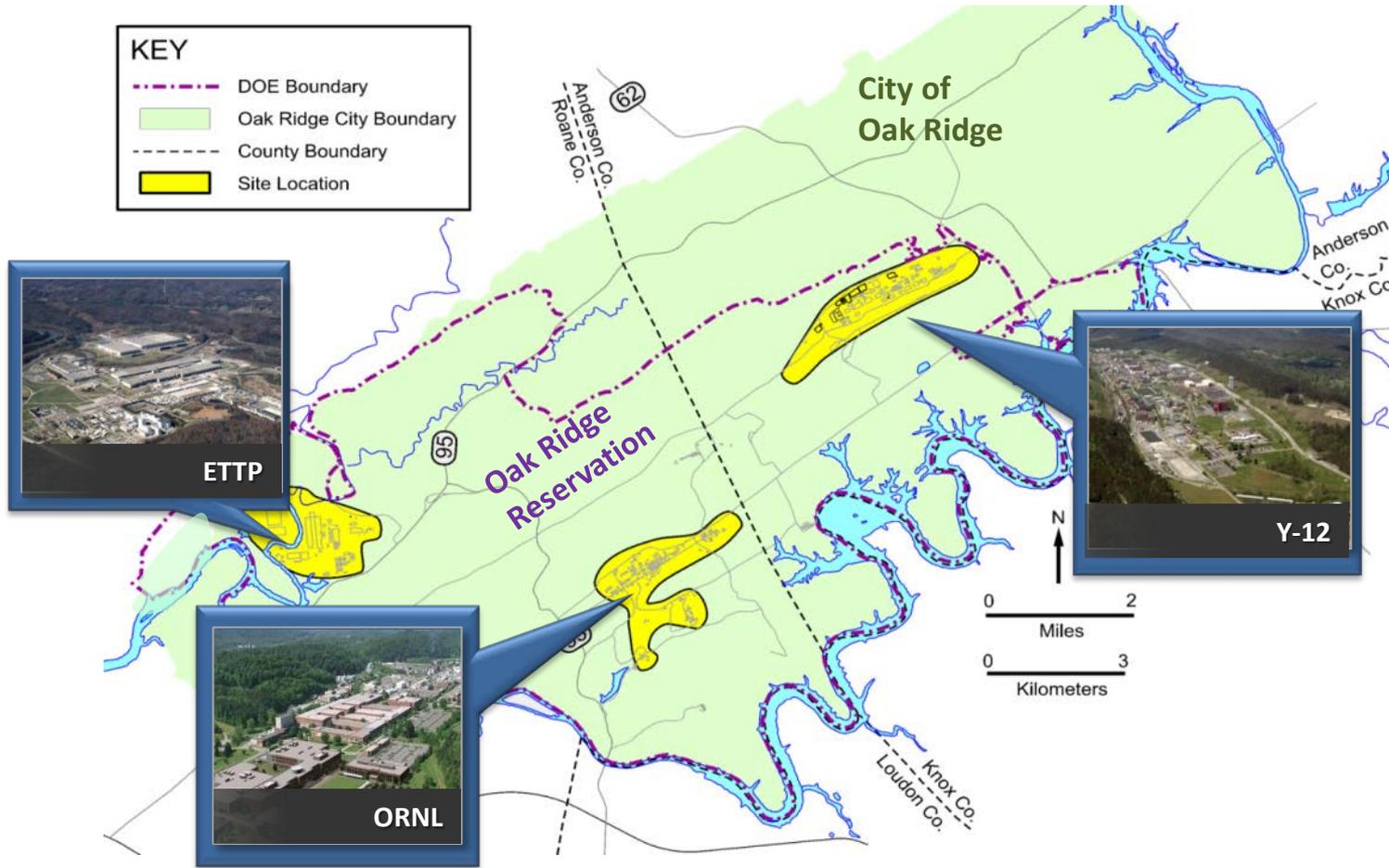


# Near-Term OREM Priorities (FY15-FY19)

*April 29, 2015*

Jay Mullis  
Deputy Manager  
Oak Ridge Office of Environmental Management

## The Oak Ridge Reservation is a Diverse and Complex Site





# Our Mission/Vision

## Complete the cleanup of the Oak Ridge Reservation to:

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



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



# Program Considerations

- **East Tennessee Technology Park**
  - *Lifecycle Cost Risk* – Nearly \$60M is spent on base operations at ETTP, and as facilities continue to degrade, the cost for cleanup continues to increase
- **Y-12 National Security Complex**
  - *Environmental Risk* – Nearly 20 million lbs of mercury was used at Y-12 and ~ 10% is unaccounted for; roughly 700,000 lbs may have been released into the environment
- **Oak Ridge National Laboratory**
  - *Nuclear/Radiological Risk* – Over 26 million curies are currently stored at ORNL alongside billions of dollars of investment



Mercury removed from storm sewers at Y-12



TRU Waste Processing



Inside of Building K-27 at ETTP



# Near-Term Priorities

- 1. Complete demolition of Gaseous Diffusion Plants and support facilities at the East Tennessee Technology Park**
- 2. Complete direct disposition of the U-233 material and plan processing campaign**
- 3. Complete contact and remote handled transuranic debris processing**
- 4. Construct and operate the TRU sludge mock test facility**
- 5. Begin construction of the Outfall 200 Mercury Treatment Facility at Y-12**
- 6. Complete design of the new Environmental Management Disposal Facility**



# Near-Term Priorities

## 1. Complete demolition of Gaseous Diffusion Plants and support facilities at the East Tennessee Technology Park

### • Status/Accomplishments

- Demolished K-29 Building (2006), K-33 Building (2011), and K-25 Building (2014)
- K-31 Building demolition 80% complete
- K-27 Building deactivation 70% complete, preparing for demolition
- Nearly 400 of more than 500 support facilities demolished



### • Challenges

- Safely deactivating deteriorating facilities in preparation for demolition
- Balancing uncertainties with maintaining an efficient utilization of the trained and qualified workforce



# Near-Term Priorities

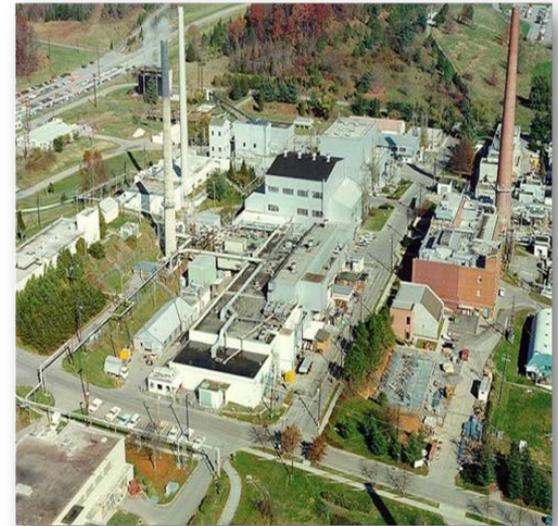
## 2. Complete direct disposition of the U-233 material and plan processing campaign

### • Status/Accomplishments

- Project remains prepared for shipment of Consolidated Edison Uranium Solidification Project (CEUSP) material for disposal
- Project is developing the conceptual planning documents for processing non-CEUSP material
- Project is supporting maintenance activities in Building 2026, to enable its use for the processing campaign

### • Challenges

- Safe transportation and disposal of CEUSP material
- Maintain momentum for preparation of direct disposition, while planning the processing campaign





## 3. Complete contact- and remote-handled transuranic debris processing

### • Status/Accomplishments

- Contact-handled waste processing and disposal status
  - 98% processed
  - 69% shipped to permanent disposal
- Remote-handled (RH) waste processing and disposal status
  - 84% processed
  - 29% shipped to permanent disposal
- Continuing to process and certify waste
- Completed overpack design to enable RH storage
- Follow-on contract award estimated within the next few months

### • Challenges

- Waste Isolation Pilot Plant suspension
- Difficult to process remaining waste





# Near-Term Priorities

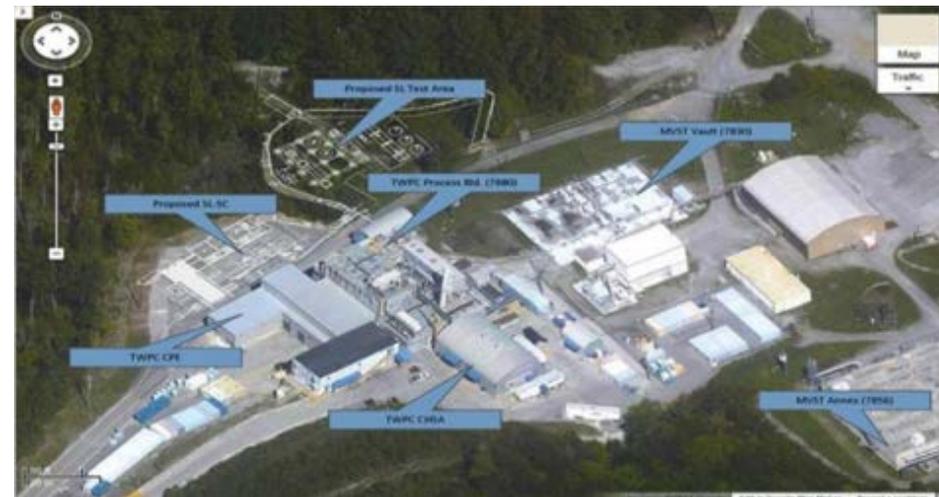
## 4. Construct and operate the TRU sludge mock test facility

### • Status/Accomplishments

- Awarded Architect and Engineering Services Contract to CH2M Hill Constructors, Inc.
- Plan to complete mock design by December 2015
- Start mock construction in 2016

### • Challenges

- Successful completion of mock-up testing phase to support the Sludge Processing Facility design

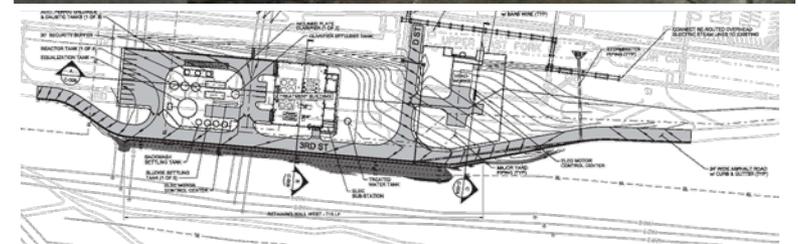




# Near-Term Priorities

## 5. Begin construction of the Outfall 200 Mercury Treatment Facility at Y-12

- **Status/Accomplishments**
  - Nearing resolution of dispute with the Environmental Protection Agency and state
  - Awaiting approval to begin Preliminary Design Phase
  - Construction start planned for FY18
- **Challenges**
  - Successful project delivery





## 6. Complete design of the new Environmental Management Disposal Facility

### • Status/Accomplishments

- CERCLA Alternatives Analyses submitted to the regulators on April 2
  - Preferred site is immediately east of current facility in existing waste management area
- Phase I Characterization of preferred site completed
- UCOR under contract to complete design

### • Challenges

- Obtaining regulatory and community agreement on remedy
- Ensure first two cells are constructed 18-24 months in advance of EMWMF closure





# In Summary

- **Keep momentum moving forward on OREM cleanup mission**
  - **Planning today for tomorrow's projects**
  - **Importance of three Capital Asset Projects for OREM**
- **GDP cleanup on track for successful completion in the next 5-7 years**
- **OREM's near-term priorities reflect our commitments to the state and the community to continue our cleanup mission as the focus shifts from ETTP to Y-12 and ORNL**



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# Questions/Comments?





# Oak Ridge Site Specific Advisory Board

ORSSAB is a federally chartered citizens' panel that provides recommendations to the DOE Oak Ridge Environmental Management Program, which is responsible for the cleanup of the Oak Ridge Reservation.



# Oak Ridge Site Specific Advisory Board

ORSSAB is composed of up to 22 members who are appointed by DOE and reflect a diversity of occupations, interests, gender, and race of persons living near the Oak Ridge Reservation.

Technical expertise is not a requirement for membership; DOE strives to have a good mix of technical and non-technical representatives on the board to reflect the surrounding community.



# Oak Ridge Site Specific Advisory Board

FY 2015 ORSSAB



Representatives from Anderson, Knox, Loudon, Blount, and Roane Counties.

Two non-voting student representatives from Oak Ridge High School and Hardin Valley Academy.





# Oak Ridge Site Specific Advisory Board

ORSSAB is a consulting party on the Memorandum of Agreement for Historic Preservation of K-25

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Has a seat on the Center for Oak Ridge Oral History, in which it had a role in establishing.



# Oak Ridge Site Specific Advisory Board

DOE asked ORSSAB to rank six projects:

- Complete demolition of the Gaseous Diffusion Buildings and support facilities at the East Tennessee Technology Park.
- Complete direct disposition of the Uranium-233 material and initiate processing campaign.
- Complete contact and remote handled transuranic (TRU) debris processing.
- Construct and operate the TRU sludge mock test facility.
- Begin construction of the Outfall 200 Mercury Treatment Facility at Y-12.
- Complete design of the new Environmental Management Disposal Facility.



# Oak Ridge Site Specific Advisory Board

## ORSSAB's Ranking for the Six Projects

Projects	Priority ranking
Complete demolition of the Gaseous Diffusion Buildings and Support Facilities at East Tennessee Technology Park	1
Complete the direct disposition of the Uranium-233 material and initiate processing campaign	2
Complete design of the new Environmental Management Disposal Facility	3
Begin construction of the Outfall 200 Mercury Treatment Facility at Y-12	4
Complete contact and remote handled transuranic (TRU) debris processing	5
Construct and operate the TRU sludge mock test facility	6



# Oak Ridge Site Specific Advisory Board

## Other Suggestions

Long-term groundwater and off-site contaminant migration.

Ensure groundwater modeling work continues and continued funding for groundwater strategy.

Other EM facilities (especially Alpha 5) that are viewed as deteriorating and a continuing source contamination.

Focus on completing some projects prior to starting any new ones.



- Facilitate the redevelopment of the former K-25 site through the on-going reindustrialization effort by
  - ✓ Demolishing tall structures such as the centrifuge building so that other projects such as the general aviation airport at ETPP can be built, and
  - ✓ Stabilizing and transitioning utility and roadway infrastructure to appropriate public entities
- Ensure the cleanup of Poplar Creek where contaminated and dilapidated facilities remain
- Work towards the clean up of DOE excess facilities not currently in the EM scope
- Strengthen the local subcontracting supply chain
  - ✓ To ensure the continued availability of qualified companies to perform OREM work
  - ✓ To expand the number of opportunities for small businesses to perform meaningful scopes of work in the OREM program
  - ✓ To utilize contract vehicles that support the ability of small businesses to build their experience and grow.

# The Federal Budget Process

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**Alan Stokes**

*Planning & Baseline Management Division Director  
DOE Oak Ridge Office of Environmental Management*

**April 29, 2015**

# The Federal Budget Process

YEAR ONE

YEAR TWO

Department Prepares Budget



OMB Consolidates and President Submits Budget

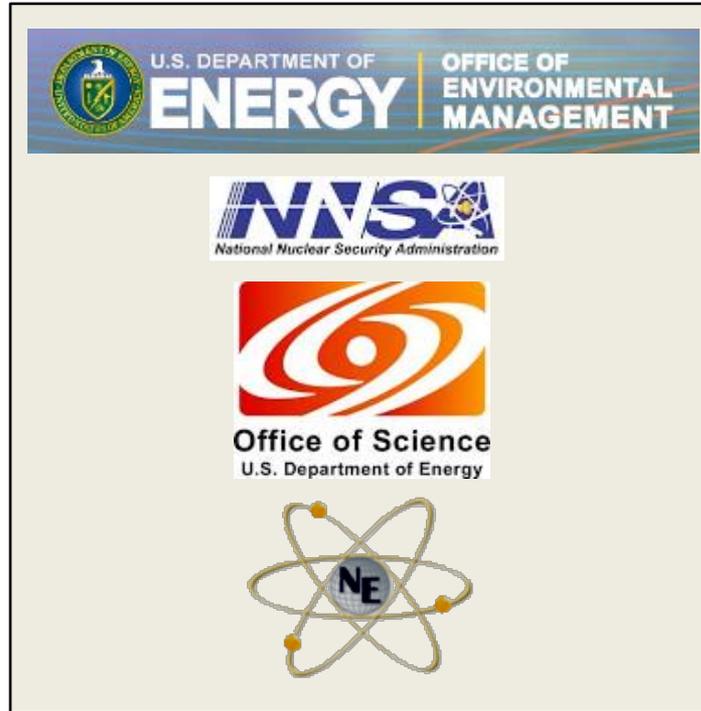


Congress Approves Budget





- Oak Ridge
- Hanford
- Savannah River
- Paducah / Portsmouth
- Others



# Office of Management and Budget

Each Agency Submits Their Budget to OMB

Office of Management and Budget Consolidates All Department Budgets

President Approves the Budget



U.S. DEPARTMENT OF ENERGY



Submit



Pass-back



Appeal



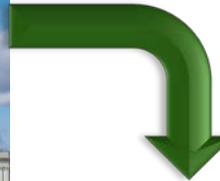
Submits to Congress

# Congressional Approval

Sub-Committees Develop Bills

Appropriation Committee Approves Bills and Sends for Vote

President Signs Budget into Law



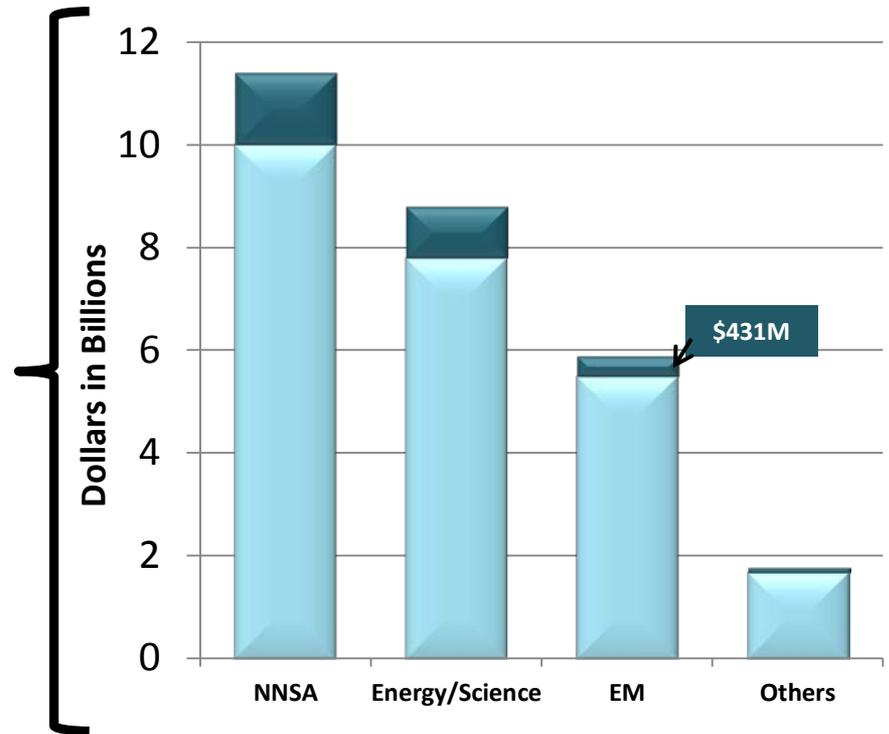
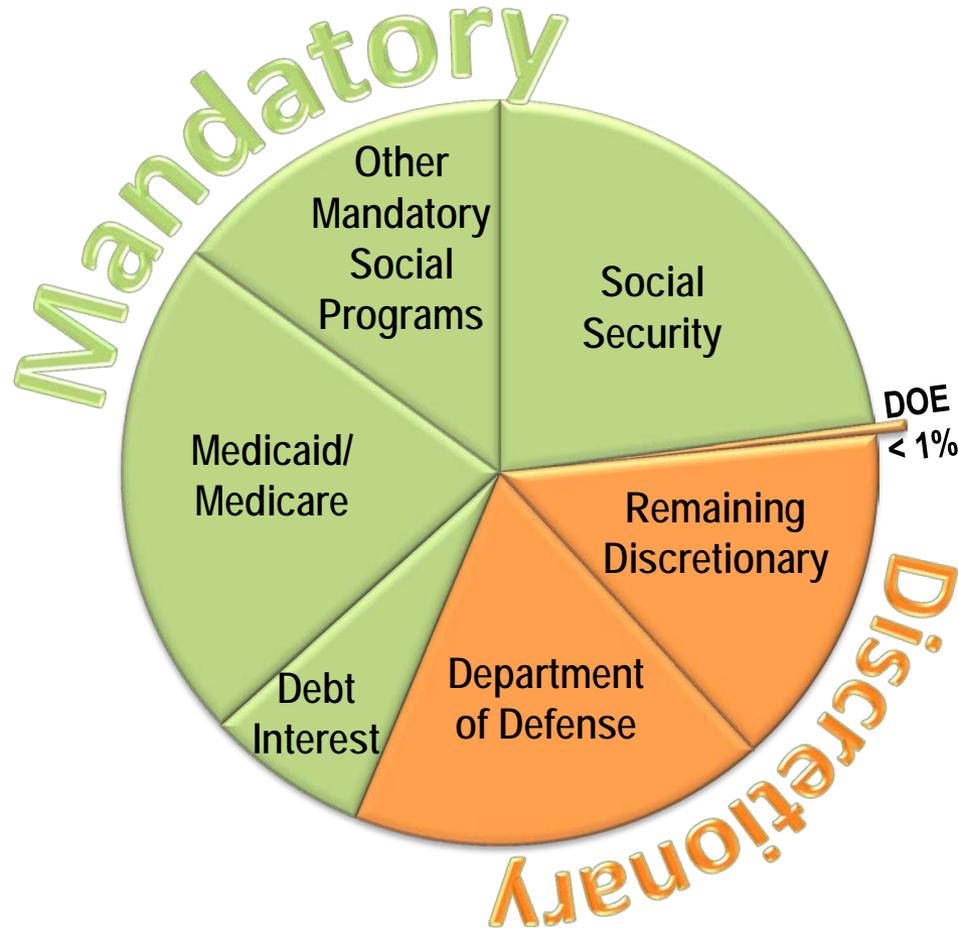
Conference

- Resolves Differences
- Sends Back for Final Vote



## Federal Budget (\$ 3.9 Trillion)

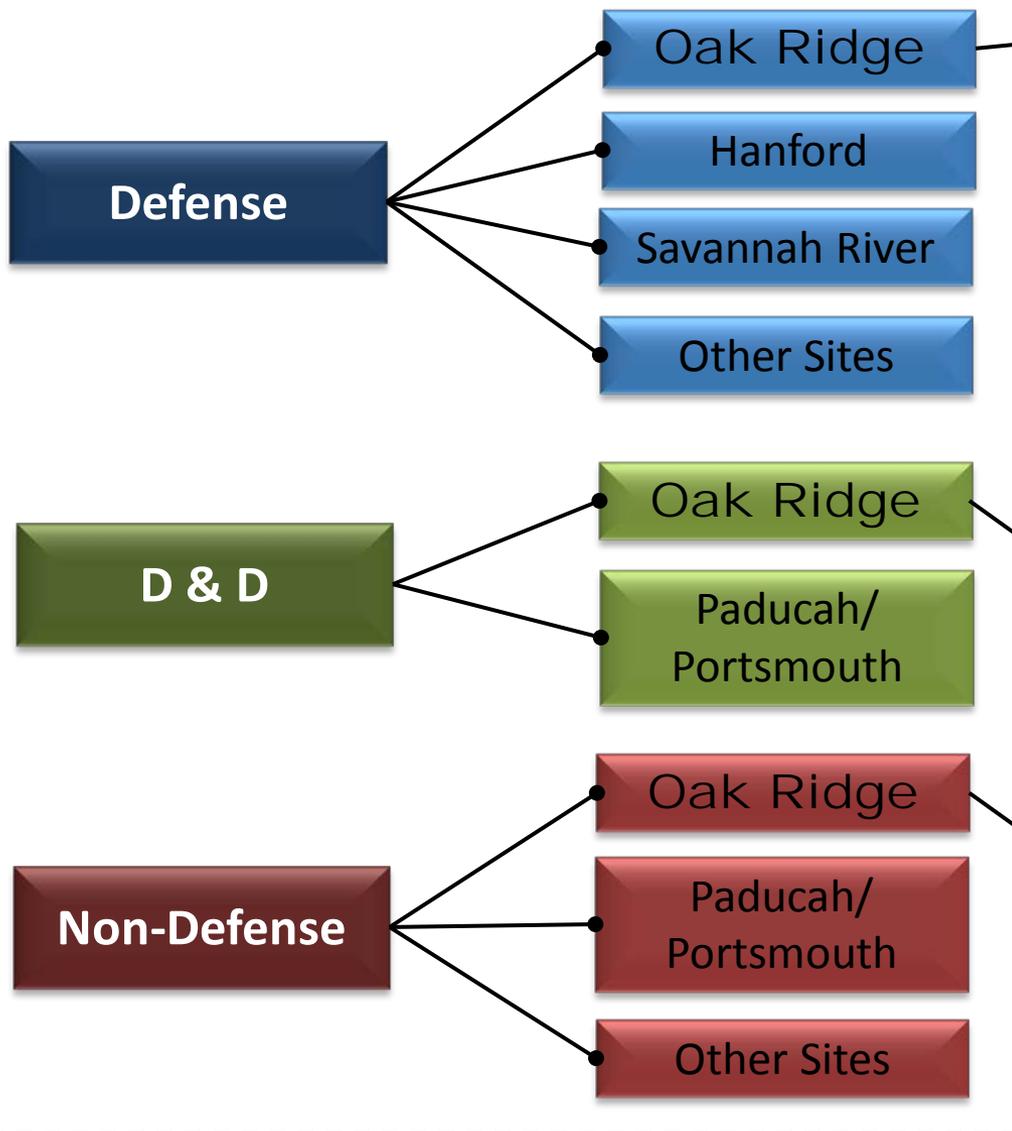
## Department of Energy (\$28 Billion)



 = DOE Oak Ridge (\$3 Billion)

---Transfers Require Congressional Approval---

---Transfers up to \$5M Allowed---



PBS	Project	\$M
11D	U-233 Disposition	26.9
13B	TRU Waste Operations	60.5
20	Safeguards & Security	17.2
41	Y-12 Cleanup	41.8
42	ORNL Cleanup	40.9
43	Centrifuge S&M	0.1
100	Community and Regulatory Support	4.4
TD	Tech Development	2.8
<b>Defense Subtotal</b>		<b>194.6</b>

PBS	Project	\$M
40	ETTP Cleanup	154.2
102	Post Retirement Life and Medical	16.9
<b>D&amp;D Subtotal</b>		<b>171.1</b>

PBS	Project	\$M
104	Historic Preservation	0
<b>Non-Defense Subtotal</b>		<b>0</b>

**Oak Ridge Total = \$366M**

During any one year, we are working three budgets:

**FY 2015**  
Executing  
Enacted  
Budget

OREM Budget  
\$431M

**FY 2016**  
Congress  
Reviewing  
President's  
Request

OREM Budget  
\$366M

**FY 2017**  
Sites  
Developing  
Budget

OREM Budget  
Under Development



OREM uses stakeholder input obtained during the Community Budget Workshop to develop our site budget request