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# Status Update of Recovery Act Projects at Y-12

Presented to  
The Oak Ridge Site Specific Advisory Board

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Y-12 Projects  
October, 2009

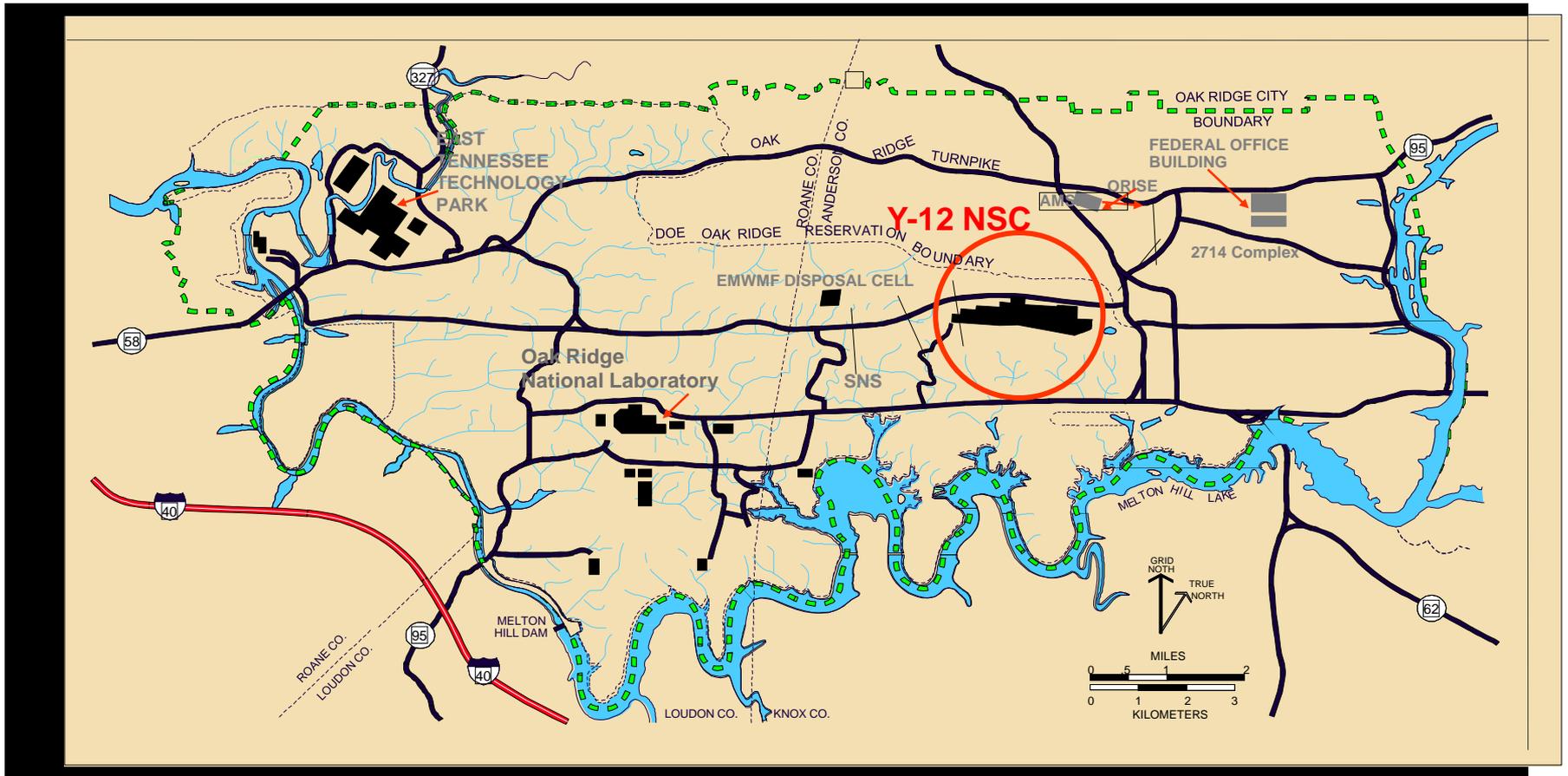


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# Oak Ridge Reservation



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# Y-12's Recovery Act Projects

- 9 projects at Y-12
- B&W

- Building 9769 Demolition
- Building 9211 Demolition
- Building 9224 Demolition
- Building 9220 Demolition
- Building 9735 Demolition
- Building 9206 Filter House demo
- Alpha-5 Excess Material Removal
- Beta-4 Excess Material Removal
- Salvage Yard Cleanup
- WEMA Strom Sewer Cleanup

← Biology Complex demolitions

- BJC

- On Site CERCLA Cell (EMWMF) Expansion
- Sanitary Landfill Expansion



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# RECOVERY ACT PROJECTS AT THE Y-12 NATIONAL SECURITY COMPLEX

At Y-12, \$267 million in funding from the American Recovery and Reinvestment Act will be used to accomplish a large scope of environmental and infrastructure work over the next 2½ years.

This work will create and save jobs throughout East Tennessee, stimulate the economy, reduce risks from Cold War legacies, and further Y-12's physical transformation.

## Beta 4 Legacy Material Removal

- Remove legacy material, including items, tooling, and uninstalled equipment
- Affected area: 82,000 ft<sup>2</sup>



## West End Mercury Area

- Assess storm sewer system and plan mitigation of mercury intrusion
- Affected area: estimated 11,500 LF of storm sewer cleaned and 2,650 LF relined



## Building 9206

- D&D filter house



## Building 9735

- Demolish to slab and remove waste
- Affected area: 15,043 ft<sup>2</sup>



## Old Salvage Yard

- Remove ~31,000 yd<sup>3</sup> of scrap metal
- Affected area: 7 acres



## Alpha 5 Legacy Material Removal

- Remove legacy material, including items, tooling, and uninstalled equipment
- Affected area: 613,642 ft<sup>2</sup>



## Biology Complex

- Demolish four buildings to slab and remove waste
- Affected area: 135,812 ft<sup>2</sup> (total)



NNSA

Y-12 NATIONAL SECURITY COMPLEX

B:WY12

# Y-12 ARRA Projects

- Old Salvage Yard Cleanup
- West End Mercury Area Storm Sewers
- Beta 4 Legacy Material Removal
- Alpha 5 Legacy Material Removal
- Bldg. 9206 Filter House Demolition
- Bldg. 9735 Demolition
- Biology Complex Demolitions
- Bldg. 9769 Demolition



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SCALE IN FEET



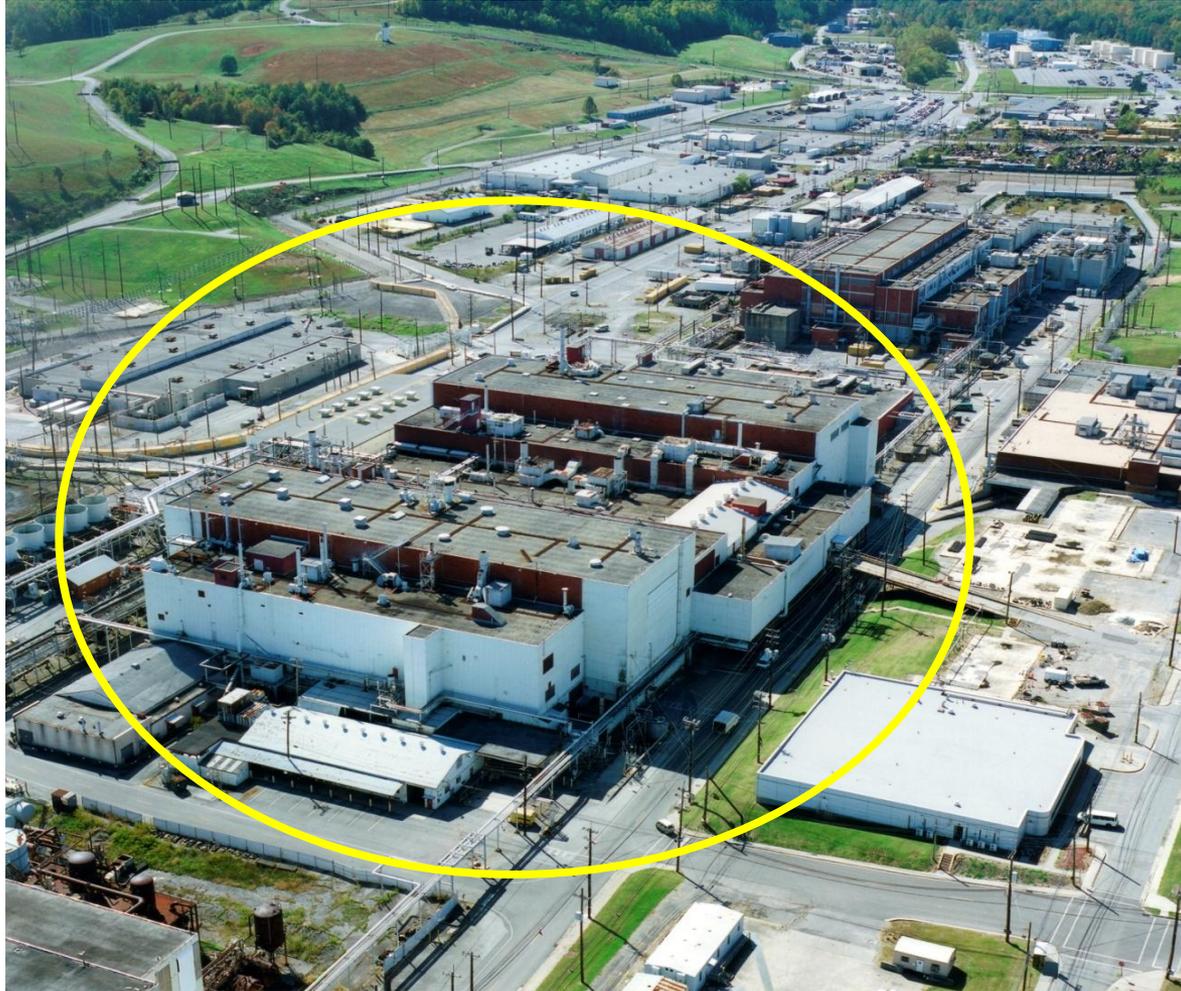
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# Building 9201- 5 (Alpha-5)



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# Alpha-5- Interior



- Operated 1944-2007
- 613,00 square feet
- 700K cu ft of legacy material
- Hub for various utilities
  - Steam and brine leaks are common
- PCOCs: dU, Be, Hg, Li, others



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# Building 9204-4 (Beta-4)

- Complete disposition of all legacy material from the second floor, high bay, and mezzanine
  - Eliminates legacy material from 82,000 ft<sup>2</sup> out of a total of 313,000 ft<sup>2</sup>



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# Beta - 4 Interior



Second Floor Office Area

High Bay on Second Floor



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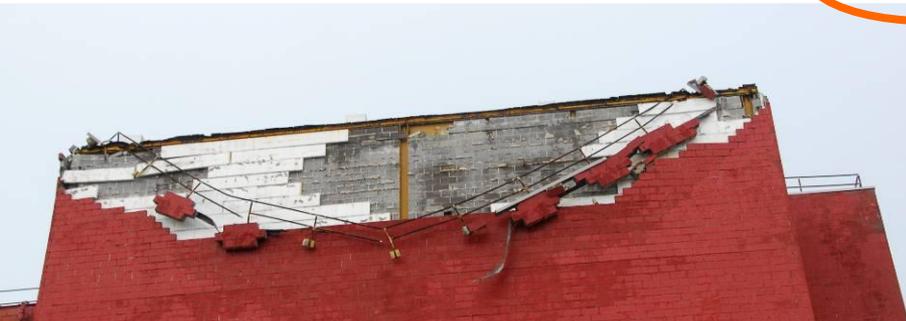
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# Demolition of Bio Complex Buildings

- Begin demolition of the Biology Complex
  - Demolish Buildings 9211, 9769, 9224, and 9220
  - Total square footage reduction of 136,000 sq ft

Buildings 9211,  
9224, and 9220



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# Building 9735



Building 9735 Demolition  
(15,000 ft<sup>2</sup>)



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# Building 9206



## 9206 Filter House Demolition and Recovery Furnace Deactivation



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# Y-12 Old Salvage Yard – Before



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# Upper East Fork Poplar Creek



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# Storm sewer pipe with debris and separation

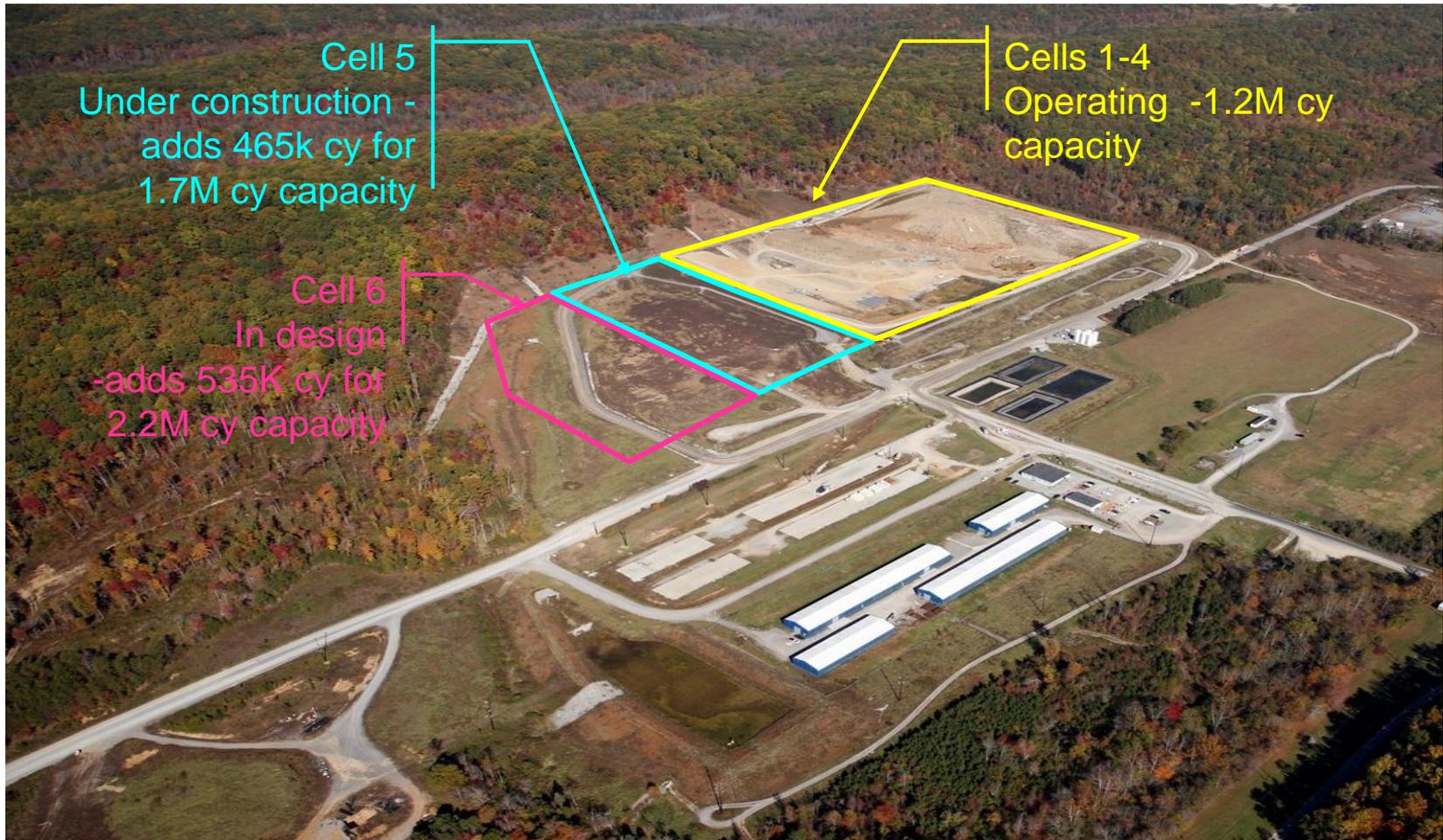


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# EMWMF Expansion Plan



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# ORR Active Landfills



Y-12 National Security Complex



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# ORR Landfill Expansion

- Landfill V Expansion- Part of Recovery Act (RA) Scope
- Disposal of sanitary, industrial, construction, and demolition waste
- Expansion and upgrades needed for increased disposal rates from RA work
- Landfill V expansion will increase capacity by 385,000 yd<sup>3</sup>



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# Questions



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