



**U.S. DEPARTMENT *of* ENERGY**

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**Office of Environmental Management**

**EXCESS FACILITIES RISK REDUCTION ACTIVITIES AT Y-12**

# Excess Facilities Risk Reduction Activities at Y-12

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Morgan Carden

*Federal Project Director*

Oak Ridge Office of Environmental Management

June 11, 2025



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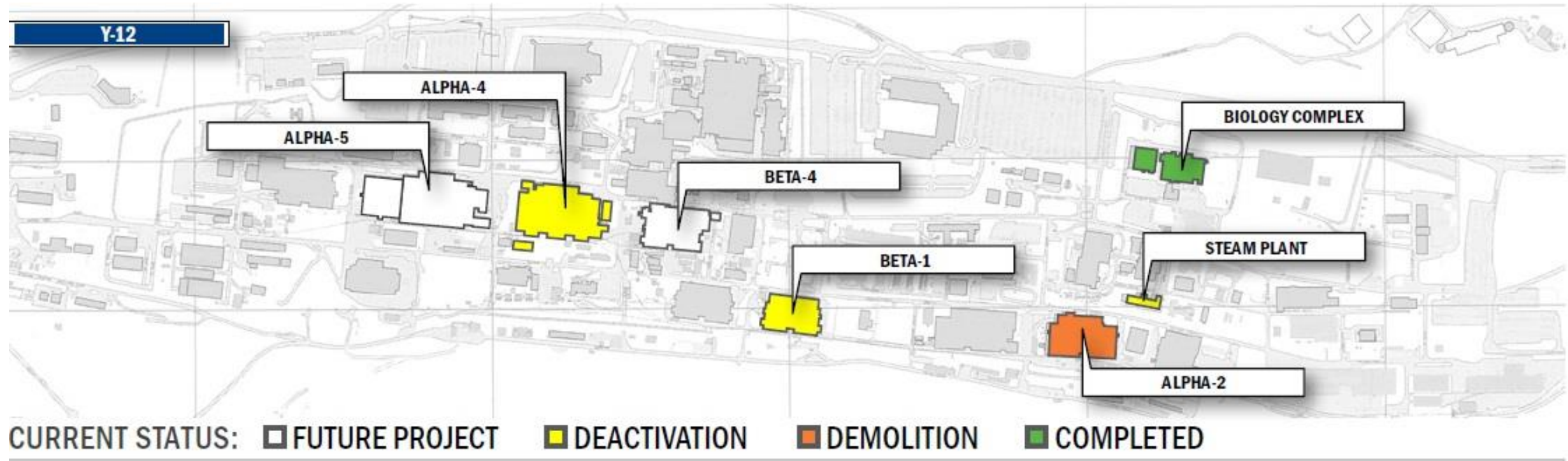
# Significant cleanup is required at Y-12

- 60% of NNSA buildings are more than 40 years old
- Many are high-risk facilities that pose risks and challenges to ongoing national security missions
- Our projects are eliminating risks and opening land to support ongoing missions





# Major cleanup is now underway at Y-12



# Crews have completed multiple demolition projects



Biology Complex:  
Demolished February 2022



Building 9213 – Criticality Experimental Laboratory:  
Demolished December 2022



# Demolition is underway on Alpha-2, which is our largest project yet at Y-12





# Crews have completed demolition on the south side, and they are tearing down the high bay





# Workers are also preparing Beta-1 for demolition, which is the next big teardown at Y-12





# Future projects will focus on some of the largest and most challenging cleanup projects at Y-12

OREM is continuing to reduce risks across the complex



Alpha-4



Alpha-5



Beta-4



9401-1

QUESTIONS?





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**ORNL'S TRANSFORMATION ENABLED THROUGH CLEANUP**

# ORNL'S TRANSFORMATION ENABLED THROUGH CLEANUP

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Michael Vestal

*Federal Project Director*

Oak Ridge Office of Environmental Management

June 11, 2025



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# Our cleanup at ORNL is meaningful and impactful for the site's future





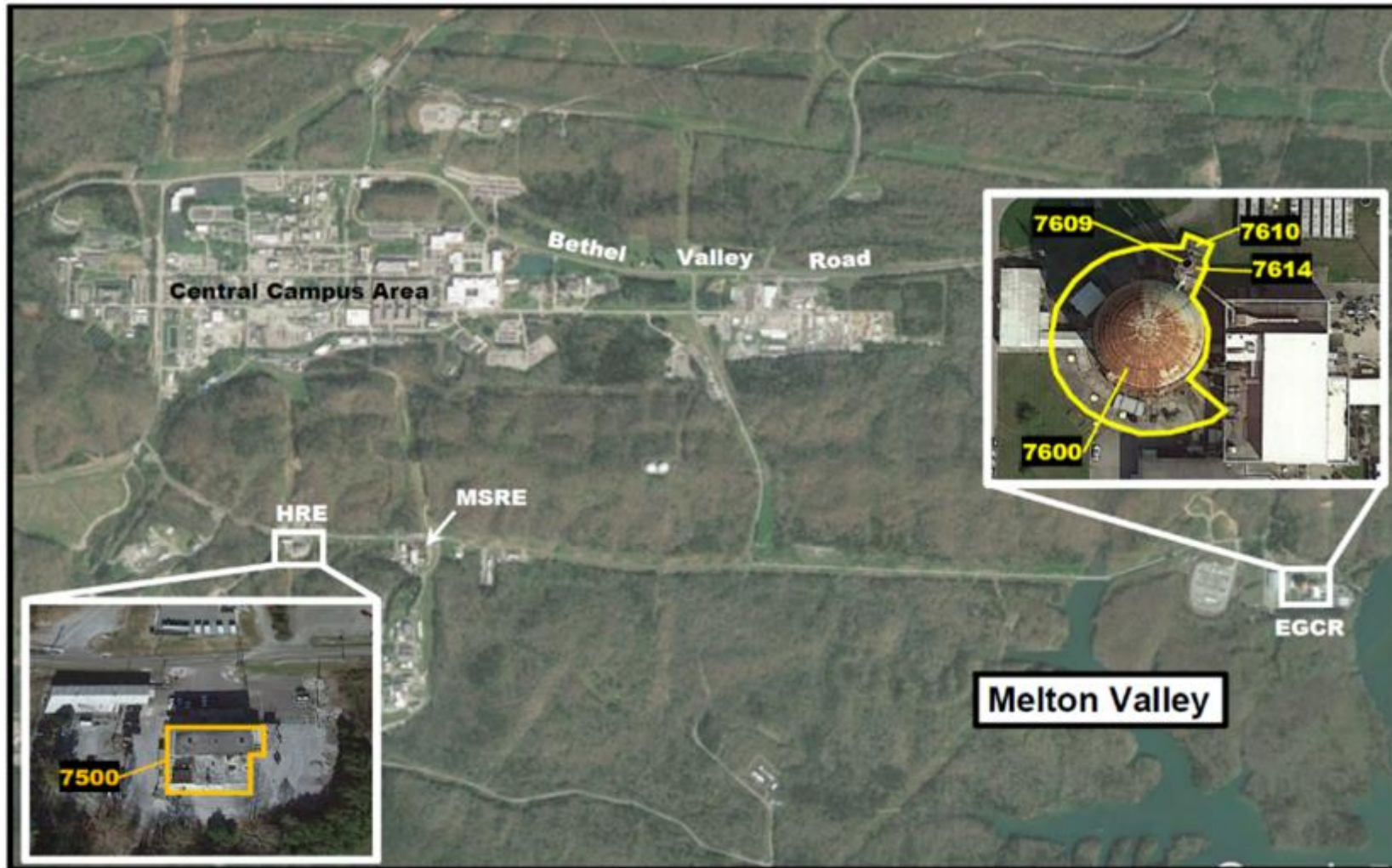
# Our projects will transform ORNL's central campus

- We are enhancing safety by eliminating high-risk and excess contaminated facilities
- Our progress is providing space for ORNL to support its ongoing research missions





# We are also responsible for addressing former reactor facilities in the Melton Valley area at ORNL



# There are challenges when planning and conducting projects at ORNL



- Conducting cleanup at an active DOE Site
- Weather conditions and PPE requirements may limit daily working hours
- Ensuring worker safety in radiological areas (various radionuclides)
- Higher technical difficulty and planning
- Outdated drawings and lack of information creates unknowns



# Despite those challenges, we've already made significant progress

- **Completed demolitions:**

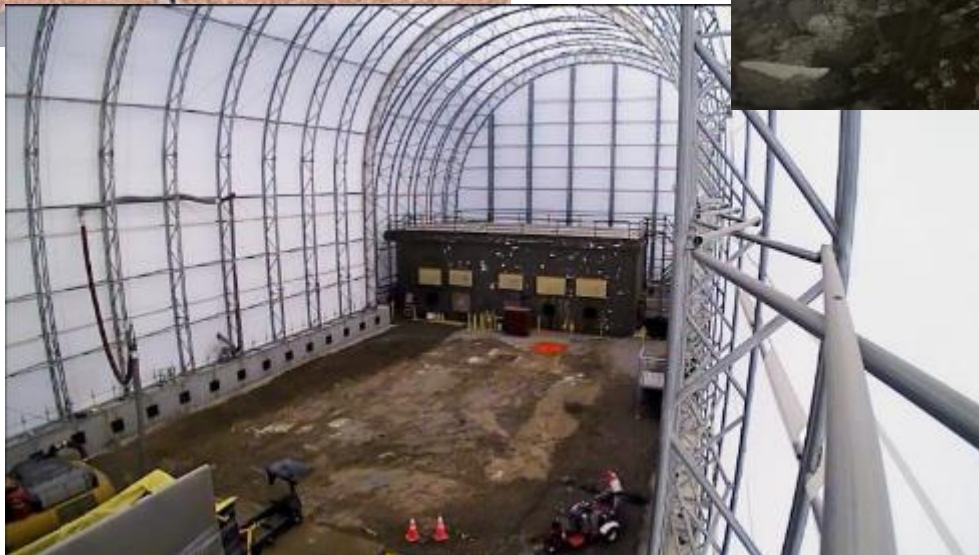
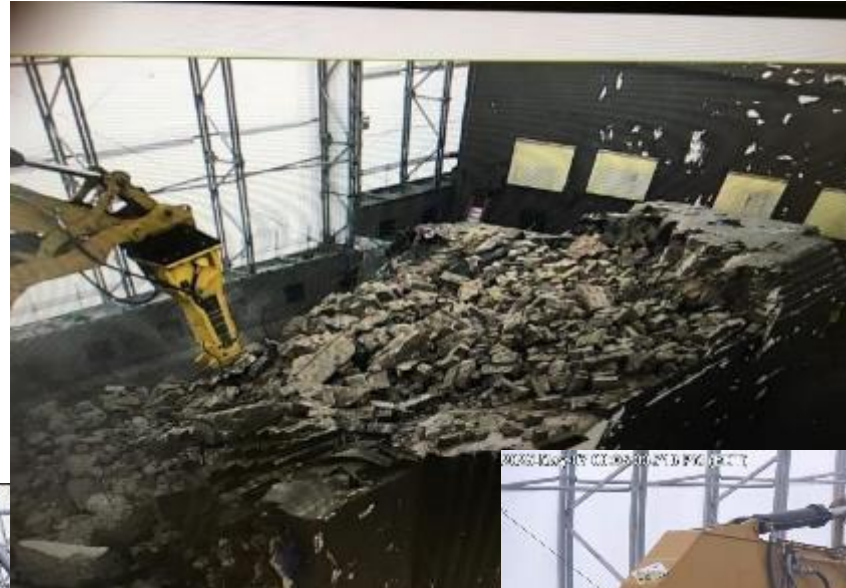
- Tritium Target Facility (2021)
- Building 3026 West Cell Bank (2021)
- Bulk Shielding Reactor (2022)
- Low Intensity Test Reactor (2023)

- **Major prep for demolition underway:**

- Graphite Reactor Support Facilities
- Isotope Row Facilities
- Oak Ridge Research Reactor
- Hot Cells



# We are in the final phase of demolition to remove one of the most contaminated structures at ORNL





# Progress in the heart of ORNL – two reactors removed; demo preparations underway in 13 buildings

**2022**



**Today**





# OREM demolished the Bulk Shielding Reactor in 2022





# Crews finished demolition of the Low Intensity Test Reactor in 2023



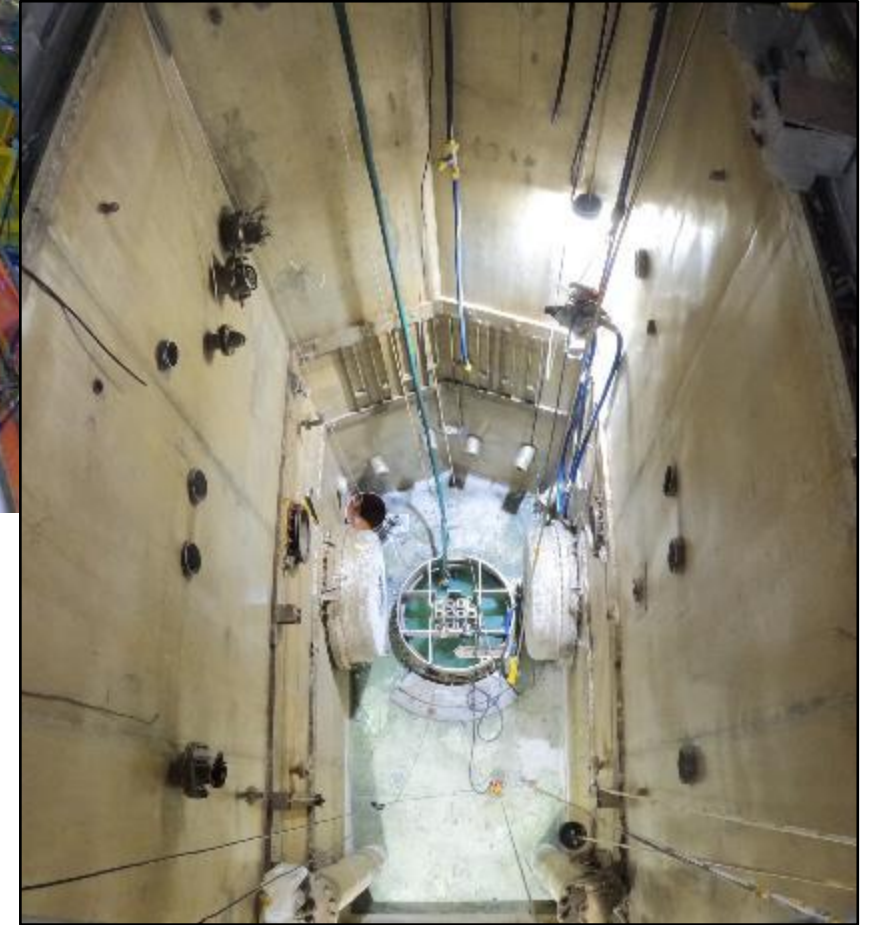


# Our next major demolition is the Graphite Reactor Support Facilities – scheduled to begin this month





# Crews are busy preparing the adjacent Oak Ridge Research Reactor for demolition

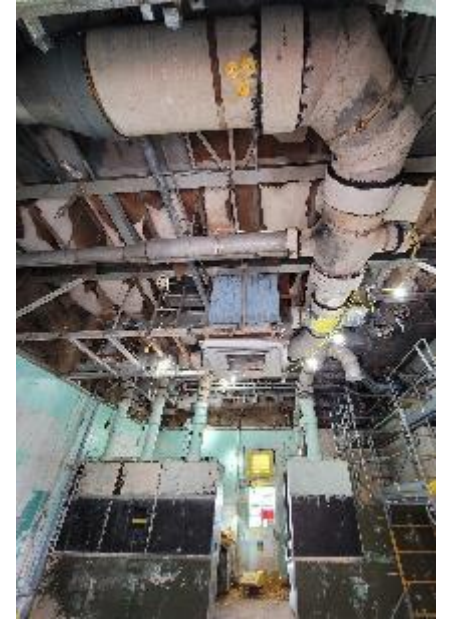




# Crews are also preparing Isotope Row and 3038 Facilities for demolition



3029 Hot Cells





QUESTIONS?