

# Excess Facilities Risk Reduction Activities at Y-12

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MANAGEMENT**

# Significant cleanup is required at Y-12

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# OREM's projects will transform Y-12 and open land for national security missions

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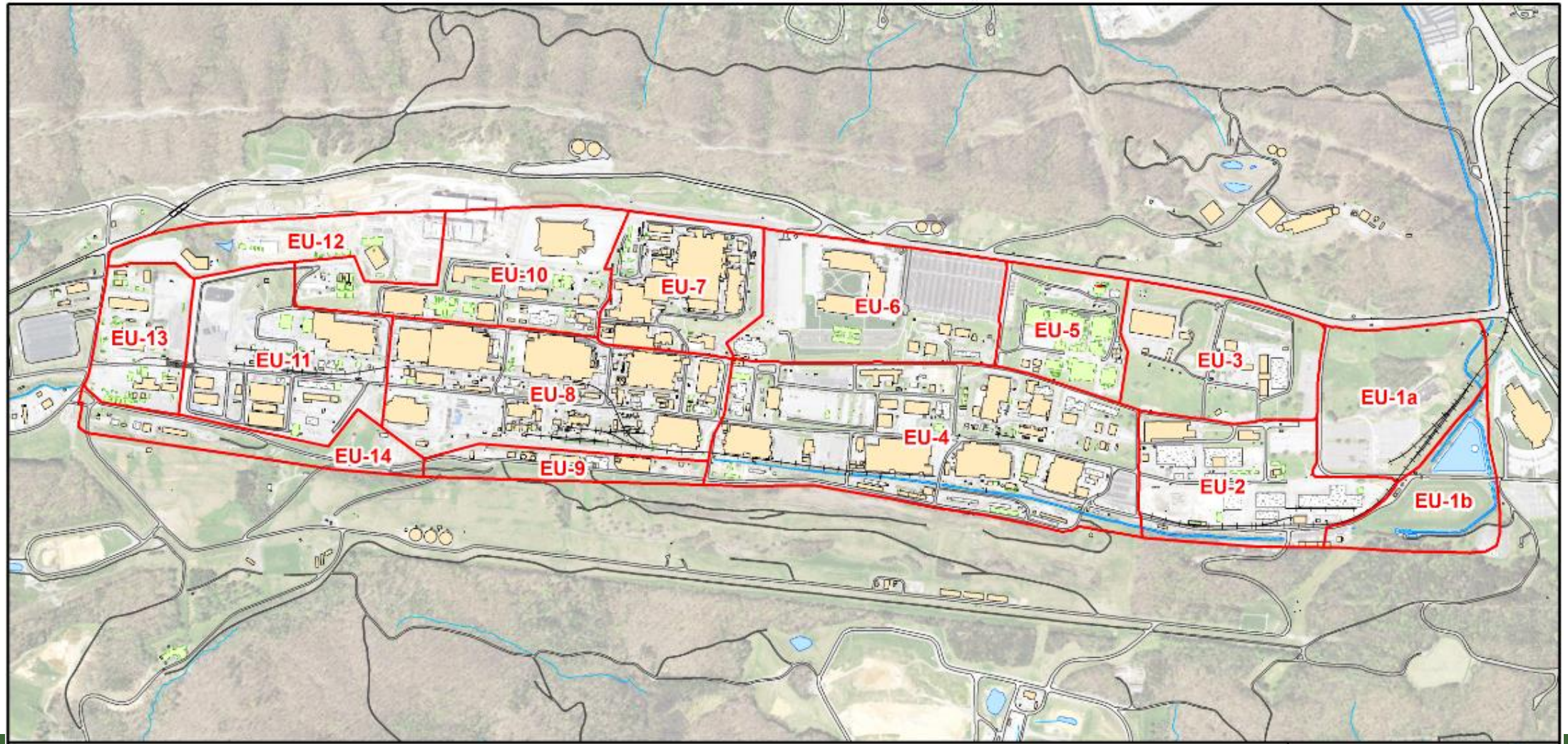
# OREM is laying the foundation for cleanup at Y-12

- Transitioned our workforce to ORNL and Y-12 in 2020
- Oak Ridge has many high-risk facilities that pose risks and challenges to ongoing research and national security missions

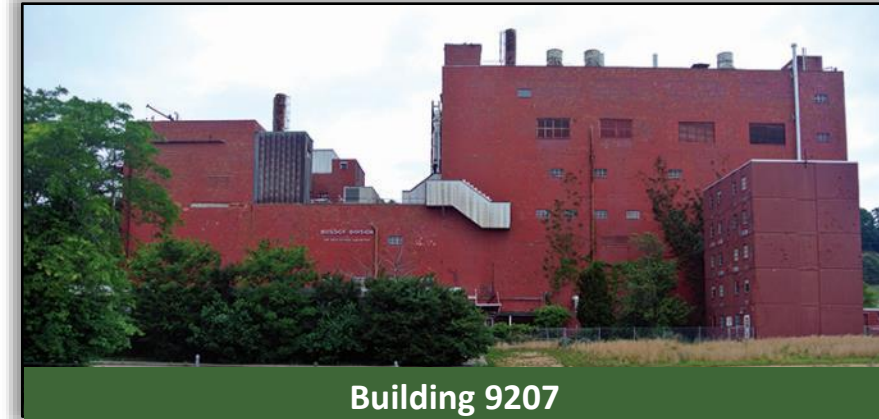


Facilities to Address at Y-12

# Y-12 Footprint



# Biology Complex Demolition



Building 9207



EU-5 footprint post demolition

# Building 9213 Demolition

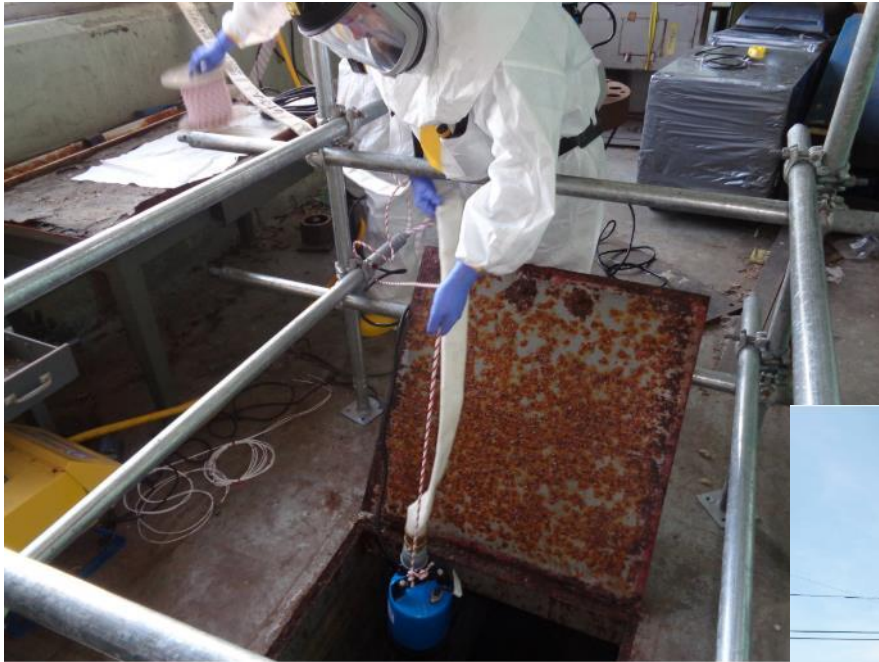


# Alpha-2 Facility Preparation for Demolition





# Beta-1 Facility Preparation for Demolition



# OREM is reducing risks across the complex





**QUESTIONS?**

# ORNL's Transformation Enabled Through Cleanup

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Michael Vestal

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November 8, 2023



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



- We are enhancing safety by eliminating high-risk and excess contaminated facilities
- Our progress is providing space where ORNL can support research missions

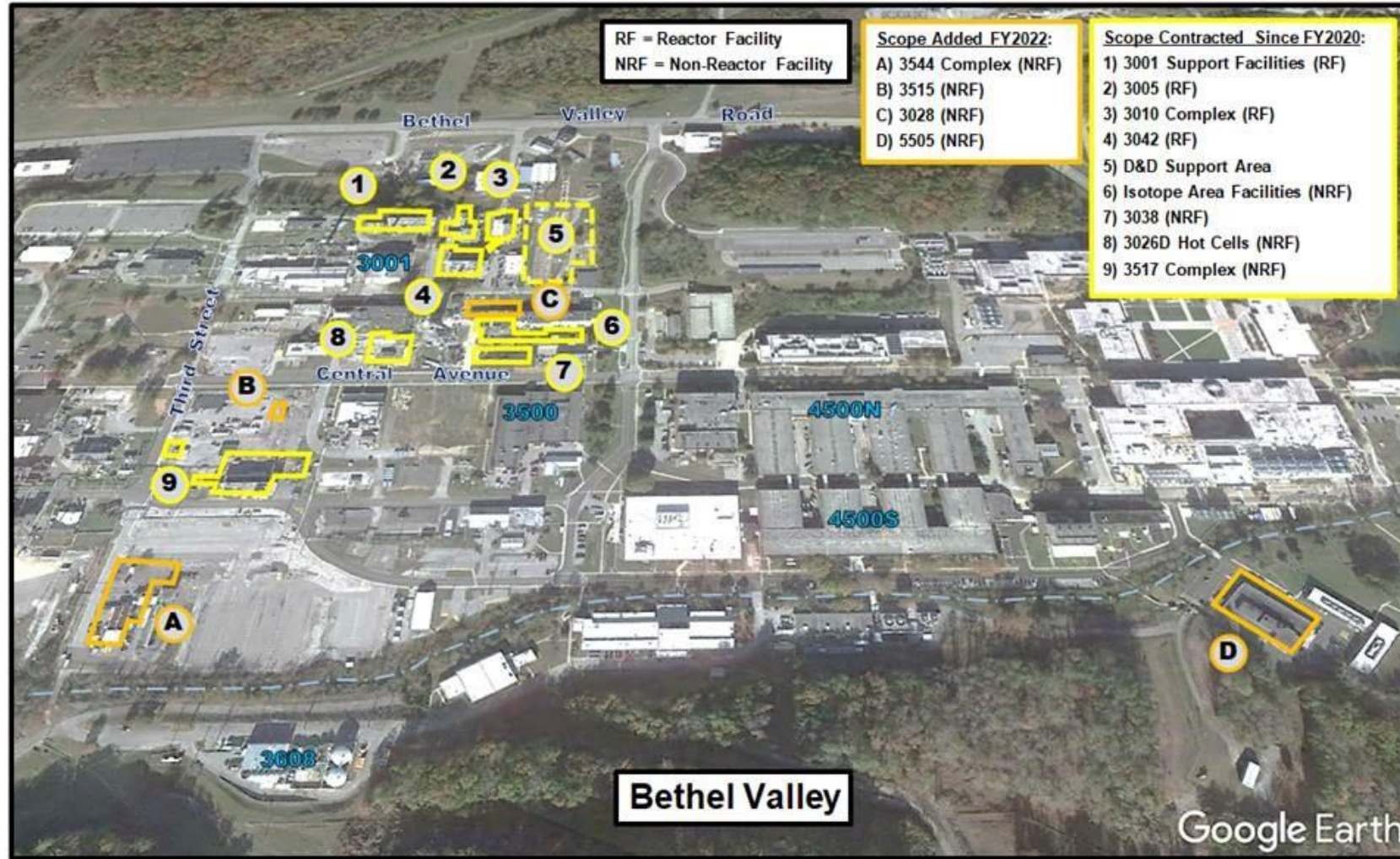
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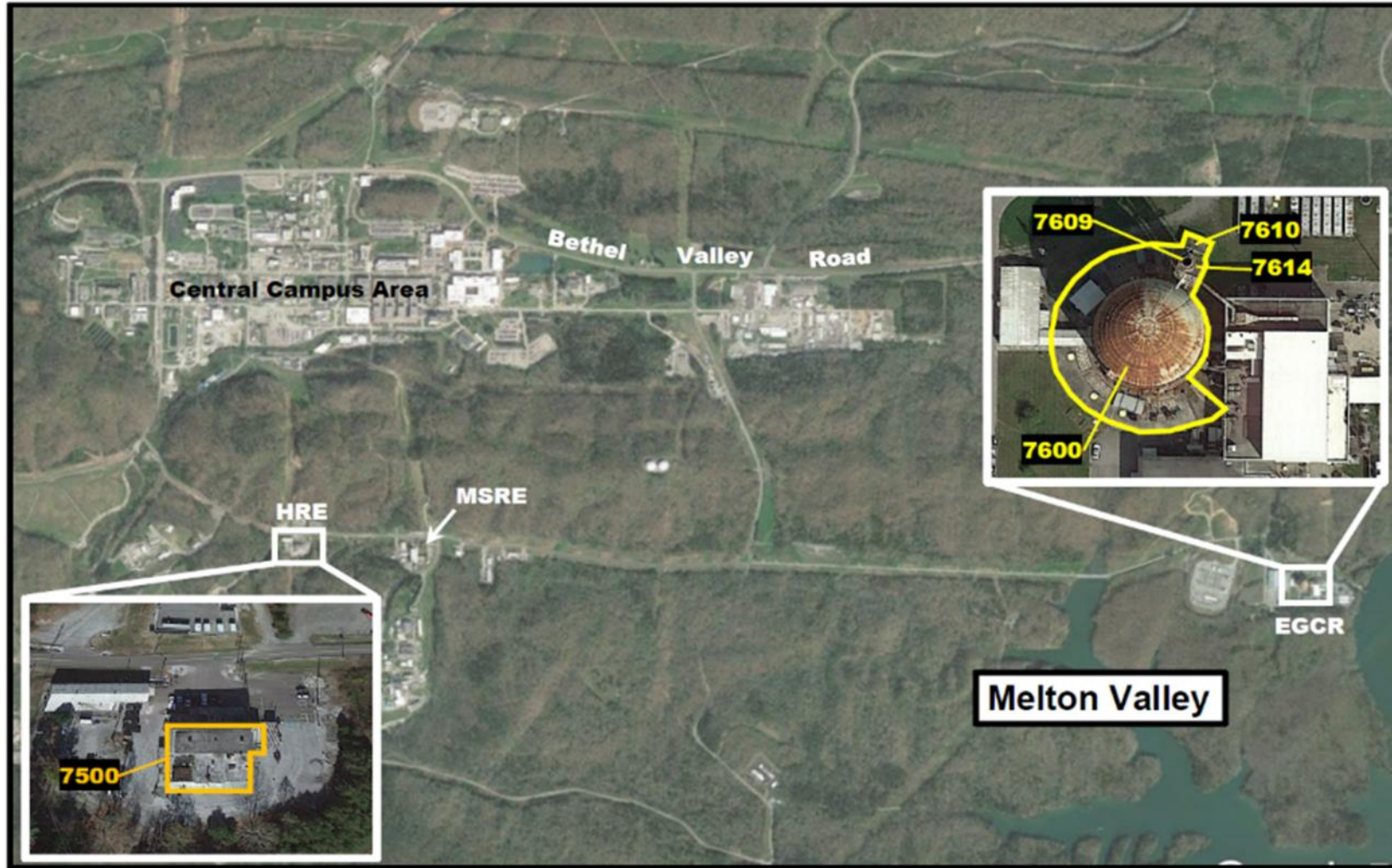
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# OREM has many projects on the horizon that will significantly transform ORNL's central campus



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





# Achieving our mission at ORNL is challenging



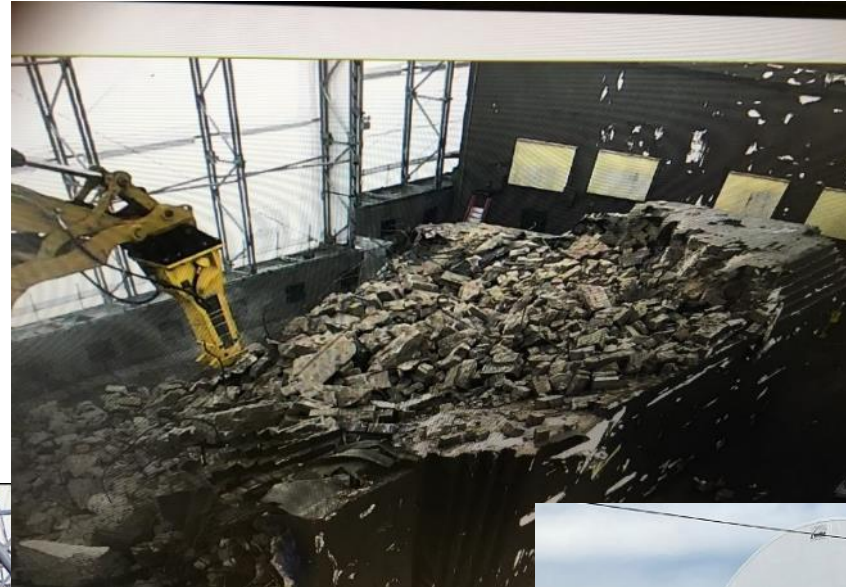
- Conducting cleanup at an active DOE Site
- Weather conditions and PPE requirements may limit daily working hours
- Ensuring worker safety in radiological areas (Various Radionuclides)- Higher technical difficulty and planning
- Outdated drawings and lack of information creates unknowns

# Despite these challenges, we've already achieved significant progress

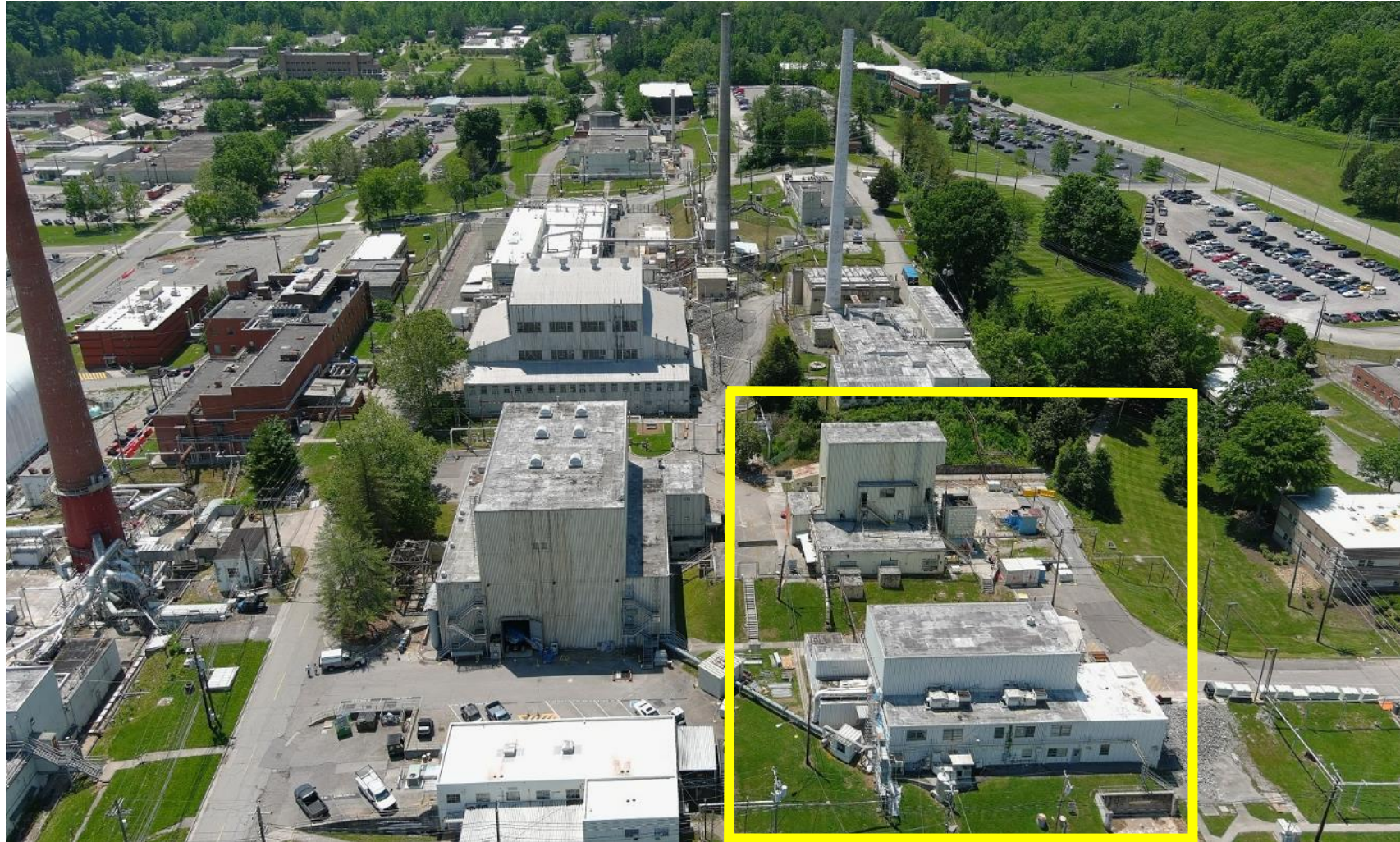
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- Completed demolitions:
  - Tritium Target Facility (2021)
  - Building 3026 West Cell Bank (2021)
  - Bulk Shielding Reactor (2022)
  - Low Intensity Test Reactor (2023)
- Major deactivation underway:
  - Graphite Reactor Support Facilities
  - Isotope Row Facilities
  - Oak Ridge Research Reactor
  - Hot Cells

# Demolition on Building 3026 Hot Cells



# Crews have taken down two reactors in ORNL's Central Campus over the past year



# OREM demolished the Bulk Shielding Reactor in 2022



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



# Now, crews are busy preparing the adjacent Oak Ridge Research Reactor for demolition



# Our next major demolition is the Graphite Reactor Support Facilities – scheduled to begin in 2024







**QUESTIONS?**