

## **Infrastructure Challenges and Excess Facilities Disposition**

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# Y-12 Site in Oak Ridge, TN

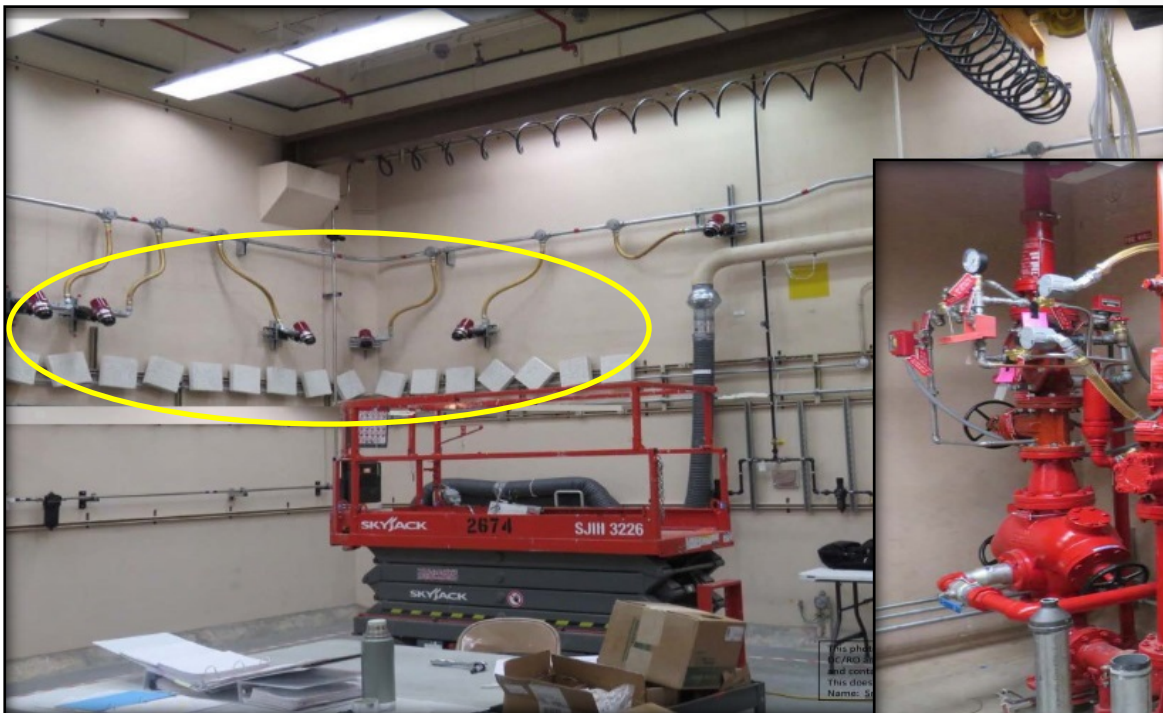


# Pantex Site in Amarillo, TX



# Key Infrastructure Projects Completed in FY16

- Assembly Bays/Cells being modernized at Pantex
  - Fire system upgrades



New infrared fire detectors in production bay

Updated control panel/riser



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# Key Infrastructure Projects in FY16 (cont.)

- Concrete ceiling repair, as well as 50-year sprinkler head replacement



Oven room ceiling “Before/After”



# Infrastructure Work Planned for FY17/18



- 343,000 ft<sup>2</sup> Administrative Support Complex at Pantex
- Construction on schedule for occupancy in spring 2018

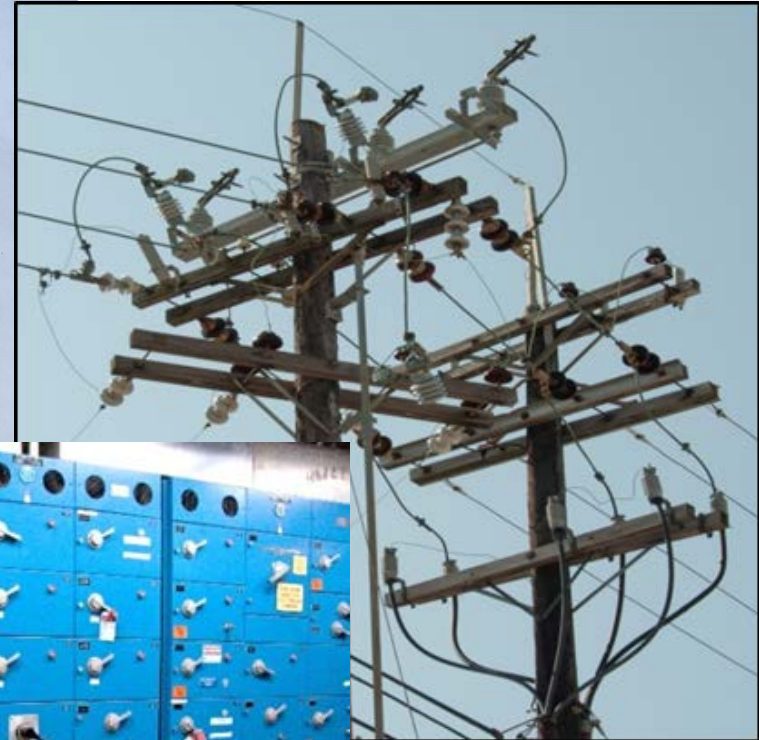


# Infrastructure Work Planned for FY17

- Numerous electrical upgrade projects



Replace distribution interconnects and motor control centers



New transmission lines

# Infrastructure Work Planned for FY17 (con't)



Replace criticality alarms



New HEPF facility



Freight elevator repairs/upgrades



# Key Disposition Projects Completed in FY16

- **Disposition Program provided ongoing funding**
  - Electrical upgrade in Beta-4. FY16 start, with FY17 finish
  - Eliminate need for steam to maintain freeze protection
- **Congressional plus-up for deferred maintenance of high risk excess facilities**
  - >80% of funding directed to Y-12 for roof repairs – 300,000 ft<sup>2</sup>
  - Completed in mid-October.
- **Continued deinventory of Building 9206**
  - 6.8 kilograms removed in FY16

# Building 9206 Roof – Before and After



# Building 9201-5 (Alpha-5) Roof – Before and After



# Disposition Work Planned for FY17

- **Multiple RFPs - awards dependent on budget approval**
  - RFPs to be released for bid in FY17
    - Legacy material/equipment removal
    - Oil/tank draining
    - Removal/disposition of mercury contaminated vacuum system
    - Building 9111/9112 demolition
  - Alpha-5 basement dewatering
  - Alpha-5 annex D&D
  - Continued deinventory of 9206

# Key Lessons Learned

- **For facilities/processes that are 50-75 years old**
  - High fidelity planning is critical
    - Older facilities present challenges with unanticipated conditions
    - Extensive walk-downs are necessary
    - Risk of the unknown is high
  - Like-for-like replacements are often not available
    - Include time for technology maturation on complex safety systems
  - Utilities often fail without warning
    - Flexibility and contingency planning is necessary