

Balance of Facilities Buildings D&D

Scope: The Balance of Facilities Buildings Deactivation and Decommissioning (D&D) project will demolish 67 facilities at the Y-12 National Security Complex (Y-12) that are or will become excess to the site mission needs. The objective of the project is to remove hazardous materials, deactivate the buildings, remove equipment, demolish the facilities, and disposition waste. The facilities slated for D&D consist of various contaminated production, laboratory, research, waste management, utility, and ancillary/support facilities in the following building complexes:

- **9206 Complex** [the Production facility (Building 9206); ancillary Buildings 9720-17, 9744, 9768 and Oil Separator Facility tank farm]
- **9212 Complex** [the Production facility (Building 9212); ancillary Buildings 9409-22, 9409-22E, 9409-23, 9409-24, 9416-12, 9416-20, 9416-28, 9416-32, 9416-46, 9423, 9721, 9723-25, 9767-10, 9811-9, 9812, 9815, 9818, 9820, 9828-1, 9828-2, 9828-3, 9959-1, 9980, 9981, 9996, and 9999]
- **Building 9769** (former laboratory building) and **Balance of Facilities Complex** (Buildings 9424-1, 9424-2, 9703-14, 9840-4, 9983-FX, and 9999-2)
- **Biology Complex** [the Biology facility (Building 9207); ancillary Buildings 9207A, 9210, 9211, 9220, 9224, 9401-1, 9743-2, 9767-6, 9767-7, 9770-2, and 9770-3]
- **Transition Facility D&D** (Building 9213, Building 9401-2, and Building 9735) and **Y12 Environmental Management (EM) Facilities D&D** [Buildings 9720-44, 9720-45, 9809-1, 9825-01, 9825-02, Oil Dike-7 (OD-7), and OD-9]
- **Steam Plant Complex** [the Steam Plant (Building 9401-3); ancillary Buildings 9616-9, 9616-10, 9811-6, 9811-7, and 9990]

Many of the facilities were constructed in the early 1940s during the start-up of Y-12 operations. The Balance of Facilities Buildings D&D complexes total over 1.3M ft² and are planned for D&D by the Integrated Facility Disposition Program (IFDP) at an estimated cost of approximately \$1.4B.

Environmental Risk and Principal Threat Source Material Rating: **Medium**

- Balance of Facilities contain areas with radiological, chemical, and biological (e.g., mold) hazards that, in the absence of institutional controls, would pose unacceptable risk to an industrial worker and are a potential future source of contamination to the environment. Building 9206 houses degrading piping and ductwork, tanks, and equipment that contain holdup material of enriched and depleted uranium in various forms, including in acidic and organic solutions. These conditions, as well as degradation of the Building 9206 structure, complicate surveillance and maintenance (S&M).

Other Prioritization Factors:

- Delay of Balance of Facilities Buildings D&D and facility deterioration could increase the complexity and cost of facility D&D. S&M costs will continue until the facilities undergo D&D as part of the planned modernization of Y-12, including a planned reduction in the size of the protected area.
- D&D of the 9212 Complex (currently used for uranium processing) is tied to the planned future construction and operational start-up of the new Uranium Processing Facility (UPF) at Y-12.

Overall Prioritization: **Medium**

Due to the extent of facility hazards, Building 9206 is the first Balance of Facilities building slated for D&D at Y-12. The overall prioritization for the Balance of Facilities D&D project is **Medium**.

The information presented in this fact sheet is preliminary and will be refined during Critical Decision-2/3 development.

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For more information, please contact the DOE public affairs office at (865) 576-0885.

