

CLEANUP PRIORITIES FOR THE Y-12 NATIONAL SECURITY COMPLEX



FACT: Y-12 National Security Complex (Y-12) plays a key role in strengthening our country's national security by retrieving and storing nuclear materials, fueling the country's naval reactors, and reducing global threats. Formerly, Y-12 operated uranium enrichment and lithium separation facilities during the Manhattan Project and Cold War—era that protected our country but resulted in contamination of its facilities and the environment.

CHALLENGE: Contaminated and deteriorating facilities on the Y-12 site pose potential risks to employees and the environment, and they are costly to maintain. The Oak Ridge Office of Environmental Management (OREM) must conduct large-scale cleanup and remediation activities while minimizing impacts to ongoing national security missions at Y-12.

SOLUTION: OREM will coordinate the safe and efficient cleanup of the Y-12 site — including building demolition and soil and water remediation. This enables Y-12 to continue its national defense missions, achieve a smaller, modernized footprint, and create a safer environment for employees and the community.

CLEANUP GOALS

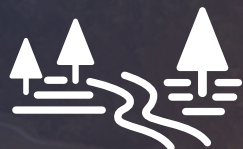
Completing cleanup efforts at Y-12 will protect human health and the environment, reduce facility and maintenance costs, and support future missions.



Remove and dispose of legacy materials and waste



Demolish more than 90 excess facilities (25+ are high risk)



Remediate contaminated soil and water



Modernize Y-12's footprint



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CLEANUP PROJECTS



FACILITY DECOMMISSIONING AND DEMOLITION (D&D)

D&D projects at Y-12 encompass 90 total buildings, including more than 25 that are categorized as high risk. Three buildings will be decontaminated/deactivated and kept for historical preservation, while the remaining buildings will be demolished to remove risks, enable modernization, and open land for important missions.



SURVEILLANCE AND MAINTENANCE OPERATIONS PROJECTS

OREM conducts surveillance and maintenance activities such as inspections, routine maintenance, and repairs to help ensure facilities are maintained in a safe condition until they can be taken down.



WATER TREATMENT

At the Upper East Fork Poplar Creek, construction of a water treatment facility will help reduce mercury releases by 84% and help meet Clean Water Act standards for fish consumption. The creek already meets drinking water standards. The facility, which is now under construction, is a crucial piece of infrastructure that will enable OREM to demolish the large, mercury-contaminated buildings at Y-12.



UPCOMING DEMOLITION

Deactivation is well underway inside the Biology Complex. Crews are scheduled to begin demolition in 2020 and complete the project in 2021. The removal of the remaining facilities in the complex will eliminate five high risk structures from OREM's list of excess contaminated facilities, and it will clear land for Y-12's new Lithium Processing Facility.



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