

# UPF OVERVIEW



The Uranium Processing Facility (UPF) supports the Uranium Mission Strategy, which ensures the long-term viability, safety, and security of enriched uranium capabilities in the United States. UPF will replace casting, special oxide production, and salvage and accountability capabilities from a World War II era building with a modern, more efficient, and safer facility for conducting highly-enriched uranium processing operations at Y-12 National Security Complex.

Consolidated Nuclear Security, LLC, is building UPF for the National Nuclear Security Administration (NNSA) through a subcontract with Bechtel National, Inc.

UPF is a multiple-building complex. This approach allows each facility to be constructed to the safety and security requirements appropriate to each building's function, promoting cost-saving opportunities in construction and equipment installation.

Using a "build to budget" strategy, NNSA has committed to Congress to deliver UPF by the end of 2025 for no more than \$6.5B through a series of seven subprojects:

- Site Readiness – completed on time and under budget in February 2015 for a total cost of \$43M
- Site Infrastructure and Services – completed on time and under budget in February 2018 for a total cost of \$61M
- Substation – completed ahead of schedule and under budget in December 2019 for a total cost of \$47M
- Mechanical/Electrical Building –2022 completion and \$284M total project cost
- Process Support Facilities –2025 completion and \$140M total project cost
- Salvage and Accountability Building –2025 completion and \$1,180M total project cost
- Main Process Building –2025 completion and \$4,732M total project cost

The Y-12 National Security Complex has three primary national security missions that protect the U.S. and its allies around the world: maintaining the U.S. nuclear deterrent, reducing global nuclear threats, and fueling the U.S. nuclear Navy. Currently, key operations that support these missions are conducted in buildings that originated in the 1940's and are costly to operate and maintain. UPF is one of the Department of Energy's largest investments in Tennessee since the Manhattan Project and one of the National Nuclear Security Administration's largest construction projects. UPF will support Y-12's key missions and will ensure the long-term viability, safety, and security of enriched uranium capabilities in the United States.





Two tower cranes, which are 300 and 360 feet tall, were installed in early 2018 as part of the construction of UPF. Having high-capacity, stationary cranes within the footprint of the buildings gives UPF the ability to reach every spot in the construction zone, making materials handling safe and efficient.

### Employment Opportunities

As one of the largest construction projects in Tennessee history, UPF will have a significant impact on local and state economies, employing 2,000 workers at the height of construction. Employment opportunities are available through the Knoxville Building and Construction Trades Council. For current openings, visit [www.Bechtel.com](http://www.Bechtel.com) and [www.y12.doe.gov](http://www.y12.doe.gov).

## UPF Fast Facts

Concrete	227,000 cubic yards	Enough to cover a football field 132 feet deep, or as tall as an 11-story building
HVAC ductwork	1.7 million pounds	Equals the weight of almost 70 school buses
Pipe	230,000 feet	Equals nearly 44 miles, or about 26 lengths of the Golden Gate Bridge
Rebar	11,000 tons	Weighs as much as 275 loaded semi-trucks
Structural Steel	15,000 tons	Weighs as much as 7,500 average-sized cars
Wire and cable	3.5 million feet	More than 600 miles, or enough to stretch from Washington, D.C. to Atlanta

