



UPF | URANIUM PROCESSING FACILITY



The Uranium Processing Facility (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.

UPF is a multiple building complex in which each building will be constructed to the safety and security requirements appropriate to the building's functions. This provides cost-saving opportunities in both building construction and equipment installation.

Using a "build to budget" strategy, the National Nuclear Security Administration (NNSA) has committed to Congress to provide these facilities in order to phase out mission dependency on Building 9212. UPF will be built by 2025 for no more than \$6.5B through a series of seven subprojects:

- Site Readiness – completed on time and under budget – February 2015
- Site Infrastructure and Services – completed on time and under budget – February 2018
- Substation – Underway – 2020 Completion
- Mechanical/Electrical Building – Underway – 2020 Completion
- Process Support Facilities
- Salvage and Accountability Building
- Main Process Building

The Main Process Building, Salvage and Accountability Building and Process Support Facilities subprojects will begin construction in the spring of 2018.



Background

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 reside in buildings built during the Manhattan Project that are inefficient and costly to operation 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.



As one of the largest construction projects in Tennessee history, UPF will have a significant impact on local and state economies. At the peak of construction, more than 2,000 people will work on the UPF Project.

Employment Opportunities

Employment opportunities are available through the Knoxville Building & Construction Trades Council or at Bechtel.com.

Procurement

For the latest procurement opportunities, visit

<http://www.y12.doe.gov/suppliers/procurement/subcontracting/subcontracting-forecasts>.

To register to become a supplier, visit <https://supplier.bechtel.com/>.

To enroll in the vendor directory and to receive more information about the project, send your company's information to UPFprocurement@y12.doe.gov.

Here are some of the materials it will take to construct UPF's facilities.

UPF Fast Facts		
Structural Steel	15,000 tons	Weighs as much as 7,500 average-sized cars
Pipe	200,000 feet	Equals nearly 38 miles, about the distance from Oak Ridge to West Knoxville and back
Concrete	210,000 cubic yards	Enough to build a 10-story building the size of a football field
Rebar	11,000 tons	Weighs as much as 275 loaded semi trucks
HVAC Ductwork	1.7 million pounds	Weighs as much as 68 school buses or more than the world's largest passenger jet at maximum take-off weight
Wire and cable	3.2 million feet	Enough to stretch from Oak Ridge, TN to New Orleans, LA