

Salvage and Accountability Building Subproject



The Salvage and Accountability Building (SAB) is the sixth of seven Uranium Processing Facility (UPF) subprojects.

The SAB Subproject includes construction and equipment installation of four facilities:

- SAB
- Personnel and Support Building (PSB)
- Fire Tank Pump (FTP) Building
- Standby Diesel Generator Pad

The SAB will be a 127,000-square-foot building for waste preparation, decontamination, non-destructive assay, and chemical recovery. The first level contains chemical recovery, calciner, leaching and decontamination gloveboxes, maintenance shops, and non-destructive analysis process areas. The second level is used for personnel services and access to the process areas. The third level includes HVAC components, electrical equipment, and a chemical recovery processing room.

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.



The PSB will be built west of the SAB and provides personnel and equipment access to and from UPF's process facilities. The two-story building provides centralized loading, unloading, and staging areas for supplies and materials entering and leaving the UPF.

The FTP Building contains fire sprinkler riser valves and a diesel fire pump. A fire water tank is located outside of the building. It also houses a safety-significant water supply. The fire water distribution system connects to the SAB by underground piping.

The standby diesel generators will be installed on a slab just east of the Mechanical Electrical Building. Each generator connects to distribution feeders by an automatic transfer switch.

Salvage and Accountability Building Fast Facts

SAB Building Footprint	45,000 square feet	Approximately the size of a football field
Cable	962,000 feet	About 180 miles, the distance from Oak Ridge to Nashville
Concrete	22,300 cubic yards	Enough to cover a football field 12 feet deep, or as tall as a 1-story building
Pipe	68,000 feet	Almost 13 miles
Rebar	2,700 tons	Weighs as much as 67 loaded semi-trucks

