WASTE NOT WANT NOT

Y-12's Comprehensive Recycling Program diverts materials from the on-site landfill and hazardous waste disposal and conserves natural resources, ensuring cost-effective operations and protection of the environment. In FY 2010, Y-12 recycled or reused more than 109M pounds of materials.

REDUCE

- FY 2010 waste avoidance = 49,765 metric tons
- FY 2010 cost avoidance = $4.73M

REUSE

- In FY 2010, Y-12 transferred more than 164,000 pounds of materials to sites like Oak Ridge National Laboratory, the Department of Homeland Security, and the Office of Secure Transportation, saving those customers more than $900,000

RECYCLE

- Diverted more than 89% of sanitary waste stream in FY10
- Implemented 84 reuse/recycle initiatives
- Added new recycling streams in FY10, including LED lights and sodium hydroxide bottles

REPEAT

- The Y-12's multi-organizational Reduce/Reuse/Recycle Team charter and the Y-12 Recycling Procedure has been shared with other facilities to support the establishment of other reduce/reuse/recycle programs
- Y-12's Recycle Center continues to serve as a model recycle facility
- Y-12's philosophy of reuse and recycling has been ingrained into the overall culture at Y-12 which helps to ensure that only items that can not be reused or recycled are sent as waste materials.
- Maintain the "7S" process (Sort, Set in order, Shine, Standardize, Safety, Security, and Sustain) at the Recycle Center to ensure that all materials are appropriately dispositioned upon generation to ensure the facility maintains a clean space/area and conducts recycling activities in an efficient and effective manner.

Y-12's 7S-influenced Recycle Center is considered a model recycling facility by the Tennessee Department of Environment and Conservation, as well as by other external customers.

Recycling materials awaiting shipment.

AMERICAN RECYCLE

CLEAN STEAM TEAM

Y-12 replaced a 1950s coal-fired boiler steam plant with a new steam plant that uses natural gas-fired, packaged boiler systems

Air Emissions Reductions

11% CO_2

72% NO_x

99.5% SO_2

72% Particulate Matter

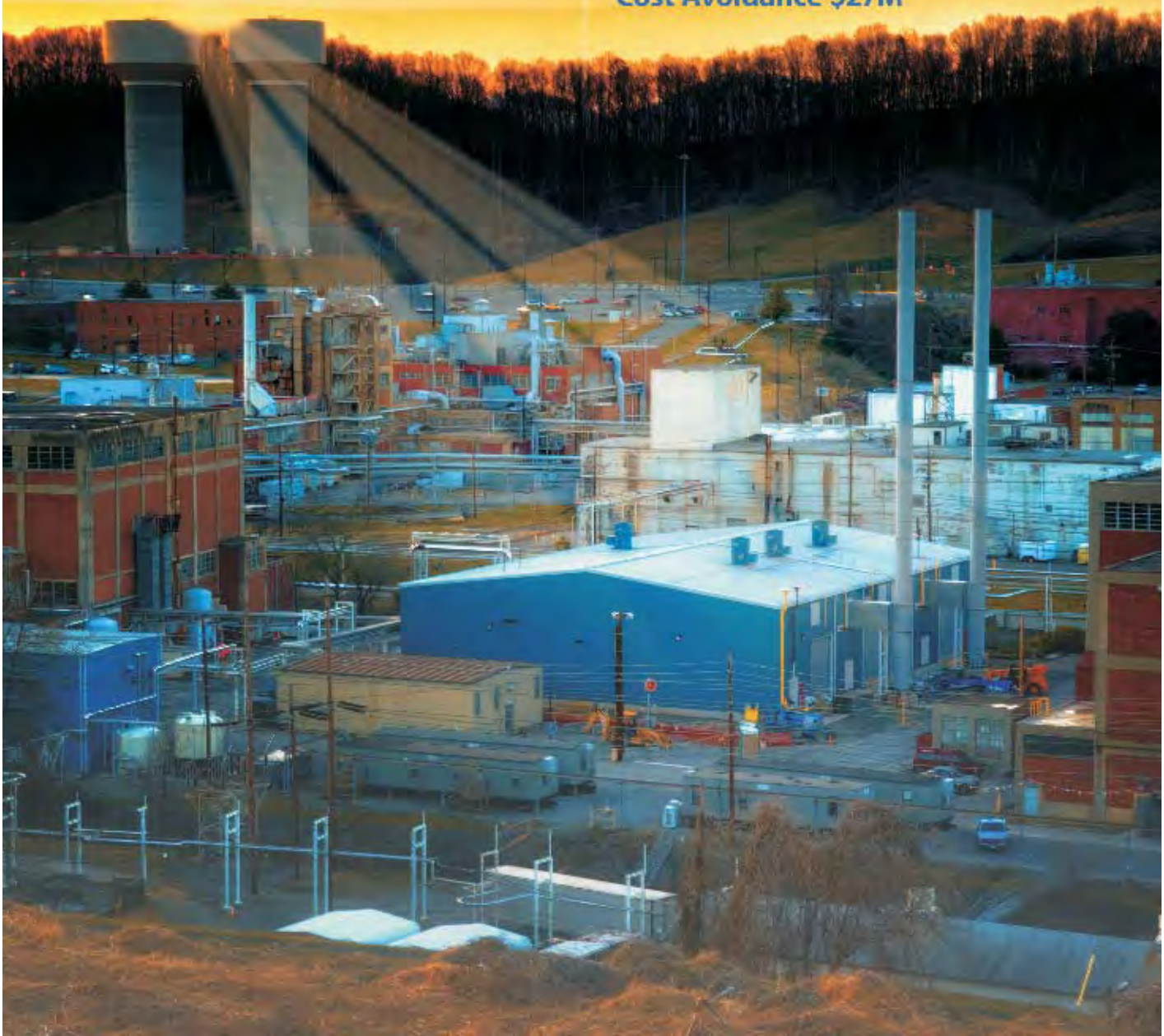
Steam Distribution by the Numbers

7 miles of piping

100 facilities served

1200 billion pounds of steam each year

New Boilers

- Four 80,000 lb/hr boilers
- 10-to-1 turndown ratio
- Supplies only the steam needed at any given time, with no loss in efficiency

Cost Avoidance $27M