



U.S. Department of Energy

Environmental Management Recovery Act

Keeping You in the Know

NEWS FLASH

June 30, 2010

Recovery Act Funds Clean Up 20-Acre Cooling Tower Complex at Portsmouth Site

Physical demolition of a 20-acre X-633 Cooling Tower Complex at the Portsmouth Site was completed in just 54 days by 44 workers, achieving the June 30, 2010 completion milestone. The project (\$11 million) is one of five at the southern Ohio site being funded by a \$118 million allocation from the American Recovery and Reinvestment Act. The re-circulating cooling water tower complex included four separate towers (two built in 1954 and two constructed in the late 1970s) and a pump house. The complex removed heat generated during the uranium enrichment operations that took place between 1954 and 2001.

"The ARRA funding at Portsmouth has provided more than 600 jobs in southern Ohio in a rural area impacted by 17% unemployment. We are creating new jobs while changing the federal footprint of the site."

*Joel Bradburne
Portsmouth Site Lead
Department of Energy*

X-633 Cooling Tower Complex Facts

X-633 Cooling Towers

- During operations, 689 million gallons of water re-circulated through the four cooling towers daily
- Each tower was designed to cool 86,500 gallons per minute of 131°F water to 90°F
- More than 20 million gallons of water evaporated into the air daily from the cooling tower complex
- Each tower was 360 feet long, 72 feet wide and 45 feet high
- There were a total of 58 separate cells in the towers with diameters ranging from 20 to 24 feet each
- The cooling towers were constructed of reinforced concrete, transite, fiberglass and redwood frames and louvers

Demolition of X-633 Cooling Towers

- Dismantled 4 towers totaling 150,000 square feet (May 2010)
- Demolished 11,000-square foot pump house (June 2010)
- Dispositioned more than 738,000 cubic feet of waste
- 525 tons of materials are being evaluated for potential reuse/recycling

