

Case Study #2

Memphis, Tennessee, USA
May 2007 – September 2007

Dismantlement and Disposal of U.S. Navy Barge

By sea and by land EnergySolutions transported 550 tons of a decommissioned U.S. Navy barge to be dismantled and disposed. This project was the first of its kind for EnergySolutions and offered unique transportation challenges requiring a wet-tow and heavy lift from the river at the EnergySolutions Memphis, Tennessee, processing facility. After the barge was positioned at the facility immediate work began to dismantle, package, transport, and dispose of the barge at the EnergySolutions Clive disposal facility in Utah.

“The barge team maintained an impeccable safety record working in excess of 16,000 man hours without injury or a lost time accident. The project was completed in September 2007 on time and within budget.” U.S. Department of Defense project manager



Barge arrives at EnergySolutions' dock in Memphis



Dismantlement begins



Segmentation continues



Segmentation halfway complete; work platform visible in foreground

Project Challenges

- Barge weighed 550 tons and measured 150 feet long, 35 feet wide, and 55 feet high
- Towing and positioning of such a large component had not been done previously at the Memphis facility
- Project required asbestos abatement
- Unique dismantlement challenges required extensive torch cutting and shearing
- Short time-frame to complete the project

Project Results

- Size reduction accomplished using torch cutting, mechanical techniques, and shearing operations
- Debris transported using EnergySolutions' super-gondola railcars
- Additional volume reduction through use of shredder at EnergySolutions' Clive disposal facility
- 85,000 cubic feet of material disposed of at Clive disposal facility

