

Radwaste Solutions

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During decommissioning work at Trojan, utility workers had to remove several large contaminated tanks, and they developed a unique method to allow the project to be completed safely, economically, and within ALARA goals. See the article beginning on page 22 for details.

Features

Cover Story

- Wrapping Up the Leftovers: Management of Expended Materials Relating to the West Valley Demonstration Project High-Level Waste Vitrification Facility** 12
A look at the West Valley Demonstration Project's program to size-reduce, segregate, characterize, and package expended material from the vitrification process.

Other Features

- From the Bottom Up: Tank Removal at Trojan** 22
Decontamination, dismantlement, and removal of radiologically contaminated tanks has proven to be one of the challenges of Trojan's decommissioning process.
- And the Train Pulls Out from . . . : Fernald's Waste Pits Cleanup** 32
Beginning in 1999, trains containing thousands of tons of low-level radioactive waste from the site's waste pits left Fernald for the 1900-mile trip to Envirocare.
- Waste Management by a One-Man Band: Managing a University and Medical LLRW Program** 38
Radioactive waste management at academic and medical institutions involves dealing with shorter lived isotopes, lower volumes of generated waste, generally lower energy gamma emissions, and a variety of waste forms that include other hazards.
- Safe from Start to Finish: The 1100-Mile Journey of the Yankee Rower Reactor Pressure Vessel (Photo Essay)** 44
The result of more than a year of meticulous planning and attention to detail, the 1997 shipment of the Yankee Rowe reactor vessel to Barnwell demonstrated the ability of industry to handle radioactive shipments.

Special Section: Waste Management '99 Best Oral Papers

- Radiation Exposure: Overcoming Vested Interests That Block Good Science** 50
The article voted "Best Oral Paper" at Waste Management '99, calling for supporters of the threshold concept to prevail over those who uphold the linear no-threshold hypothesis.
- Cutting the Gordian Knot That Binds WIPP: Sampling and Analysis To Validate Acceptable Knowledge on LANL Transuranic, Heterogeneous, Debris Waste** 55
The article voted "Honorable Mention Oral Paper" at Waste Management '99.

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On the cover:

(Left) Westinghouse/West Valley Nuclear technician Joanne Daniel remotely positions a piece of vitrification expended material on the maintenance station using the in-cell crane and video camera, while technician Jim Kuhn Jr. observes. (Right) Technician Mike Heinen checks the position of the material. The article beginning on page 12 covers West Valley's expended materials project. (Photos by Jim Johnston, Westinghouse/West Valley Nuclear Services.)

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Low-Level Waste