

# Radwaste Solutions

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Horizontal boreholes in the walls of the WIPP disposal rooms will soon be used for the disposal of remote-handled transuranic waste. The article beginning on page 56 discusses how WIPP is preparing for that operation.

## Features

### Cover Stories—Environmental Remediation

#### Battling Groundwater Contamination at Hanford

*Hanford Site Records show that 440 billion gallons of contaminated liquids were intentionally released to the soil, and there have also been unintentional releases. Now a race is on to remove contaminants from the groundwater before they can reach the Columbia River.*

#### Reducing the Risk of Hanford's Legacy

*In the last decade, workers have removed 5.6 million tons of contaminated materials from 65 liquid waste sites in Hanford's Columbia River corridor.*

### Perspective

#### The Paradox of Nuclear Waste

*Understanding Nuclear Waste and Its Role in the Coming Nuclear Expansion.*

### Other Features

#### Segmenting and Disposing of the Rancho Seco Reactor Vessel Internals 37

*The Rancho Seco reactor vessel and internals were too large to ship to Barnwell intact. So the utility decided to segment the internals, store the B, C, and GTCC wastes, and ship the Class A waste to Utah.*

#### Complex Problem, Simple Solution: Complex Waste Sorting Issue Solved with Simple Detector 51

*A new approach with new technology resulted from team discussions and brainstorming sessions.*

#### Awaiting a New Permit at WIPP 56

*With a hazardous waste facility permit decision in the offing, WIPP is gearing up for remote-handled TRU operations—and the most significant project change since the facility opened in 1999.*

### Conference Report

#### Advanced Fuel Cycles, Cleanup Progress, and Other Issues 62

*A report from the American Nuclear Society's 2006 Annual Meeting in Reno, Nev.*

## Departments

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## On the Cover:

Drilling new wells is part of the project to pump out and treat groundwater contaminated with carbon tetrachloride at the Hanford site. The article beginning on page 17 looks at well drilling and many other remediation techniques being used at Hanford to clean up a toxic legacy from the World War II and Cold War eras.

## Next Issue:

*2nd Annual  
Buyers Guide*