

# Radwaste Solutions

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Another falling stack? Must be D&D work somewhere. Check out the photo essay beginning on page 38 to learn more.

## Features

### High-Level Waste/Spent Fuel

#### Yucca Mountain: Dumped and Wasted?

After more than a quarter century, all there is to show for the U.S. high-level waste/spent fuel disposal program is a large hole in a mountain on the Nevada Test Site, into which the nation's nuclear power ratepayers have stuffed some \$10 billion–\$12 billion.

#### A Nuclear Renaissance Without Disposal?

All countries that use nuclear energy now, or that wish to do so in the future, must have a credible waste disposal strategy that will lead to safe disposal when this becomes necessary. In addition, this strategy must be accepted by a sufficiently large fraction of the population.

#### An Environmental Policy Imperative: Addressing Security Concerns at the Back End of the Nuclear Fuel Cycle

Current discussions on reducing security concerns with the nuclear fuel cycle tend to focus on the front end (enrichment) or on reprocessing, but there are also important security issues associated with storage and disposal of spent fuel and radioactive wastes.

### ANS Position Statement

Licensing of Yucca Mountain as a Geological Repository for Radioactive Wastes 34

### Other Features

#### Public Confidence Needed for Successful Low-Level Waste Management

Adapted from a speech by the Honorable Gregory B. Jaczko, chairman of the U.S. Nuclear Regulatory Commission.

#### Beginning the Cocooning Process at Hanford's N Reactor—A Photo Essay

Unlike the other Hanford production reactors, N Reactor served a dual purpose: it produced plutonium for nuclear weapons and steam for electricity.

### Technology Note

#### Particle Detection—A New Mindset: Mactec's Detector Research and Testing Facility

An in-house detector research and testing facility can simulate the multiple variables of large-land-area particle surveys.

### Meeting Report

Farewell Yucca, Hello Stimulus Money, and Other Waste Management Issues 51

A report from *Waste Management 2009*, held March 1–5, 2009, in Phoenix, Ariz.

## Departments

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## On the Cover:

The Obama Administration has declared that Yucca Mountain is “no longer an option” as the location for the United States' high-level waste and spent nuclear fuel repository. The article beginning on page 12 looks at the history of the project, its current situation, and its uncertain future.

## Next Issue:

*Environmental  
Remediation*