

# Radwaste Solutions

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A giant squid in a waste tank? Something from outer space? The photo essay beginning on page 31 gives some clues.

## Features

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### Cover Stories—Utility Waste Operations

#### ASCA Cleanup with Membrane Technology 9

*Bench-scale testing proved the efficacy of using reverse osmosis technology to clean up 160 000 gallons of liquid waste from a chemical cleaning of steam generator components at the Seabrook nuclear station.*

#### End-of-Life-Cycle Issues for Reactors Yet to Be Built 16

*Incorporating end-of-life-cycle factors, including decommissioning considerations, into the design of new reactors can ensure that eventual end-of-life-cycle activities like decommissioning can be completed in shortened time frames, with reduced generation of radioactive waste and improved radiological safety.*

### Other Features

#### Spent Fuel Disposal—Success vs. Failure: A Comparison of the Swedish and U.S. Repository Programs 22

*The spent fuel disposal programs of Sweden and the United States have distinctly different statuses and expected futures. The author examines some perceived root causes for these.*

#### Robotic Arm to Speed Hanford Tank Waste Removal 31

*A telescoping robotic arm with a pump on a central mast and a system of high-pressure water nozzles at the end of an arm can hydraulically “rake” the waste to the pump.*

#### Boon or Bane? A Repository’s Effects on the Local Community 34

*Does nuclear waste stigmatize a municipality selected for final disposal? This article discusses experiences and results six years after site selection in Finland.*

#### K East Reactor Basin Gone for Good 38

*Now that excavation of Hanford’s K East basin is complete, workers have begun soil remediation at the basin site.*

## Departments

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Editor’s Note	4
<i>Comments on this issue</i>	
Headlines	6
<i>Industry news</i>	
It’s Business	42
<i>Contracts, business news, etc.</i>	
<i>Radwaste Solutions</i>	
Subscription Information	43
Index to Advertisers	45
Moving Up	46
<i>People in the news</i>	
Calendar	48
<i>Meetings of interest</i>	
Index to Articles, 1994–2009	51

## On the Cover:

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Two articles in this issue, beginning on pages 9 and 16, look at topics of interest in utility radioactive waste operations.

## Next Issue:

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### Groundwater Contamination