Features

Cover Stories—Utility Waste Operations

ASCA Cleanup with Membrane Technology
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
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
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
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
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
Now that excavation of Hanford’s K East basin is complete, workers have begun soil remediation at the basin site.

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

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Groundwater Contamination