

Radwaste Solutions

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INEEL Software Engineer Myles Walton demonstrates the use of touch-screen and voice-activated controls for an automated waste sorting system developed at the lab. The article beginning on page 47 profiles the system.

Features

Cover Stories—Utility Waste Operations

How More Means Less: The Use of a New Ion Exchange Resin at the South Texas Project

How the South Texas Project tackled the problem of undesirable levels of sulfate in the spent fuel pools.

Laser Cleaning Process Demonstrated for Power Plant Component Refurbishment

Laser cleaning can be an attractive alternative to currently used cleaning methods, especially where safety and economics limit the use of conventional cleaning methods.

Technology Note: Selecting and Applying an Automated Welding System

One utility's experience with an automated welding system to seal dry storage spent fuel canisters.

Other Features

Decommissioning Planning at Whiteshell Laboratories

A large project like decommissioning a major R&D laboratory is easier to plan when it is broken down into simple project components.

Managing the UKAEA Graphite Liabilities

The UKAEA has undertaken extensive studies to consider how best to dispose of its graphite liabilities safely while minimizing the associated costs and technical risks.

Reversibility and Retrievability in Radioactive Waste Disposal—Part I

Reversibility and retrievability have been brought to prominence because the ability to reverse decisions and retrieve waste has a direct bearing on the decision-making process for repository implementation.

A Serendipitous Discovery at Sandia: New Compound May Immobilize Certain Radionuclides

Preliminary work with Savannah River Site indicates that the new compounds do indeed selectively remove certain radionuclides from their waste solutions.

Helping HANDSS for Sorting Waste

The HANDSS system is a modular technology that automates opening waste containers, sorting their contents, reducing waste volume, and repackaging waste materials for disposal.

Focusing on Science and Technology at the Spectrum Conference

More than 500 registrants signed up to hear the latest in waste management and decommissioning progress being made around the world.

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On the Cover:

The South Texas Project nuclear power plant. The article beginning on page 10 looks at use of a new ion exchange resin at the plant. (Photo courtesy South Texas Project.)

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Solid Materials Release