

High-Level Waste Management



Field Test to Evaluate Deep Borehole Disposal . . . 30

Sandia National Laboratories has begun research on the potential use of deep boreholes for the disposal of radioactive waste.



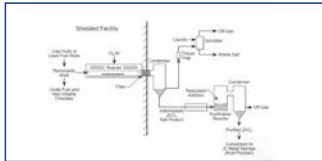
Seismic Anchorage of Dry Storage Casks. 41

Research on the benefits of used fuel storage cask anchors to reduce damage during an earthquake.



Nuclear Fuel Cycles in the U.K. 48

Moving from a closed to open fuel cycle within the United Kingdom while keeping future fuel cycle options open.



R&D Progress on Recovery/Recycle of Zirconium from Used Fuel Cladding 52

A dry chlorination process for the recovery and purification of zirconium from used fuel cladding is being developed at ORNL.

Low-Level Waste Management



Borehole Disposal of LLW 56

IAEA nuclear engineers test a method of disposing of low-level radioactive sealed sources in boreholes.

Environmental Remediation



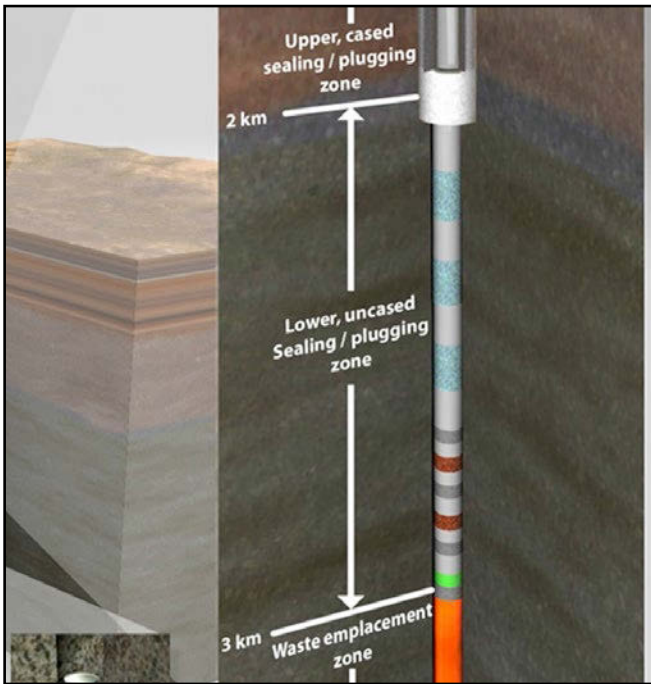
Removing Hanford's Environmental Contaminants 60

In 2015, contractors removed 2 million tons of chromium-contaminated soil and treated 2.4 billion gallons of groundwater at the Hanford Site.



Bioremediation at Pinellas. 64

Horizontal wells have been employed at the Pinellas Site in Florida in an effort to clean up plumes of contaminated groundwater.



Research into the disposal of nuclear waste in deep boreholes is being conducted by Sandia National Laboratories. For more, turn to page 30.

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The National Nuclear Laboratory in the U.K. is conducting research on plutonium and actinides as the country deliberates moving from a closed to an open fuel cycle. For more, turn to page 48.

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- *Decontamination and Decommissioning*
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Radwaste Solutions (ISSN 1529-4900), Volume 23, Number 1. Published two times a year (Spring and Fall) by the American Nuclear Society, Inc., with business, executive, and editorial offices at 555 N. Kensington Ave., La-Grange Park, IL 60526. Copyright © 2016 by the American Nuclear Society.

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