

Radwaste Solutions

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Is this the ruins of an ancient temple? Or something totally nuclear? Check out the photo essay beginning on page 40 to learn more.

Features

Cover Story—Spent Nuclear Fuel

**Spent Fuel Removal Concludes at Hanford's K Basins—
Helping to Restore the Columbia River's Hanford Reach** 10
*Removing the nearly 105 000 irradiated, solid metal uranium fuel
assemblies—stored for decades underwater in the aging K Basins—marks
a cornerstone in Hanford's long farewell to arms.*

Other Features

Who's Who at the Nuclear Waste Technical Review Board 23
*The 11-member Nuclear Waste Technical Review Board is charged with
evaluating the technical and scientific validity of activities undertaken in
the DOE's repository program.*

**Remote Sight to Monitor Mound Site:
Applying Machine Vision for Long-Term Stewardship** 29
*Automated monitoring systems, regardless of the type of sensor used, can
and should be considered as an important component of the transition to
long-term stewardship for DOE sites.*

Environmental Remediation at the Maxey Flats Disposal Site 34
*In a seven-year time period, workers at the Maxey Flats remediation
project solidified 1.58 million gallons of leachate and process water, which
contained more than 13 800 curies.*

Taking Down the Maine Yankee Containment Building 40
*The first nuclear power plant containment building to be safely
demolished with explosives.*

The D&D Challenge: Reducing Risks While Producing Results 44
A report from the TLG Services Inc. 2004 Decommissioning Conference.

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On the Cover:

The last MultiCanister Overpack of K Basin fuel leaves the Hanford packaging facility. Inset: A worker signs the congratulations poster at a celebration of the completion of fuel removal from the K Basins. This fuel removal has eliminated one of the greatest risks to the Hanford Reach section of the Columbia River. See article beginning on page 10 for details.

Next Issue:

Transportation