

Radwaste Solutions

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The concrete once hidden inside the distinctive Big Rock sphere was almost down to grade in mid-December at the Big Rock Point Restoration Project. A photo essay beginning on page 46 looks at a controlled demolition project at the site.

Features

Cover Stories—Waste Management in New Reactors

Bringing Industry Best Operating Practices to New Nuclear Plant Designs: An EPRI Radwaste Review

A philosophy of "maximum flexibility with a minimum of permanent equipment" guides the development of radwaste equipment designs for the next generation of nuclear power plants.

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Decommissioning the Next Generation of Nuclear Plants

Architects and engineers of the new generation of commercial power reactors can find a wealth of ideas for design improvements in the lessons being learned by those currently decommissioning power reactors.

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Other Features

Delivering Cleanup at Sellafield: The U.K. Nuclear Industry Faces Its Most Challenging and Hazardous Cleanup Task

Progress in the cleanup of the Magnox Swarf Storage Silos.

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Management of Contaminated Land at Dounreay

Ensuring safe stewardship of land quality issues by implementation of a safety case.

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Bidding Farewell to Saxton

On November 8, 2005, a ceremony was held recognizing the historic and pioneering role played by the Saxton plant in the development of the commercial nuclear power industry.

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Softening Things up at Big Rock Point: Controlled Blasts Assist Demolition

In December, Consumers Energy's Big Rock Point Restoration Project successfully completed three individual and precisely controlled blasts.

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Monitored Natural Attenuation for an Aerobic TCE Plume

A group at INL rigorously tested monitored natural attenuation until they collected sufficient evidence to convince both the technical and regulatory members of the project team that intrinsic aerobic cometabolism of TCE was occurring.

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A New Life for Recycling—And Other Decommissioning and Waste Management Updates

A report from the 2005 American Nuclear Society Winter Meeting.

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Southeast Compact Commission Policy Statement: Management of Low-Level Radioactive Waste

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Artist's conception of the AP1000 nuclear power plant being offered by Westinghouse. Articles beginning on page 18 and 26 discuss ways of incorporating the latest experiences in radwaste management in new plant designs.

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Yucca Mountain