

nuclear technology®

CONTENTS / AUGUST 2001—VOL. 135, NO. 2

TECHNICAL PAPERS

FISSION REACTORS

- 85 Seismic Design and Analysis of the Support System of the HTR-10 Primary Loop Boundary Components / *Zheng-Ming Zhang, Min-Zhi Wang, Shu-Yan He*

FUEL CYCLE AND MANAGEMENT

- 92 Characterization of the Mobilities of Selected Actinides and Fission/Activation Products in Laboratory Columns Containing Subsurface Material from the Snake River Plain / *Robert A. Fjeld, Timothy A. DeVol, Russell W. Goff, Matthew D. Blevins, David D. Brown, Steven M. Ince, Alan W. Elzerman, Meredith E. Newman*

THERMAL HYDRAULICS

- 109 Using an IIST 1% Cold-Leg SBLOCA Experiment with Passive Safety Injection to Assess the RELAP5/MOD3.2 Code / *Chien-Hsiung Lee, I-Ming Huang, Chin-Jang Chang*

NUCLEAR PLANT OPERATIONS AND CONTROL

- 123 The EOP Visualization Module Integrated into the Plasma On-Line Nuclear Power Plant Safety Monitoring and Assessment System / *Arne Hornaas, John Einar Hulsund, János Végh, Csaba Major, Csaba Horváth, Sándor Lipcsei, György Kapocs*

ENRICHMENT

- 131 A Tomographic Method for Verification of the Integrity of Spent Nuclear Fuel Assemblies—I: Simulation Studies / *Staffan Jacobsson, Camilla Andersson, Ane Håkansson, Anders Bäcklin*
- 146 A Tomographic Method for Verification of the Integrity of Spent Nuclear Fuel Assemblies—II: Experimental Investigation / *Staffan Jacobsson, Ane Håkansson, Peter Jansson, Anders Bäcklin*

RADIOACTIVE WASTE MANAGEMENT AND DISPOSAL

- 154 Effect of Water Radiolysis Caused by Dispersed Radionuclides on Oxidative Dissolution of Spent Fuel in a Final Repository / *Jinsong Liu, Ivars Neretnieks*

ACCELERATORS

- 162 Blanket Design Studies of a Lead-Bismuth Eutectic-Cooled Accelerator Transmutation of Waste System / *Won Sik Yang, Hussein S. Khalil*