

### TECHNICAL PAPERS

#### REACTOR SAFETY

- 81 The Impact of Severe Accident Management Guidance on the Frequency of Containment Failure Modes of a Boiling Water Reactor / *Kuan-Fu Chen, Ching-Hui Wu, Min Lee*
- 98 Effect of the Surveillance Test Frequency of SDS1 on the Core Damage Probability / *Sungwhan Cho, Jin Jiang*

#### THERMAL HYDRAULICS

- 108 Core-Wide (In-Phase) Stability of Supercritical Water-Cooled Reactors—I: Sensitivity to Design and Operating Conditions / *Jiyun Zhao, Pradip Saha, Mujid S. Kazimi*
- 124 Core-Wide (In-Phase) Stability of Supercritical Water-Cooled Reactors—II: Comparison with Boiling Water Reactors / *Jiyun Zhao, Pradip Saha, Mujid S. Kazimi*

#### RADIOACTIVE WASTE MANAGEMENT AND DISPOSAL

- 140 Impact of Spatial Heterogeneity of Source Term in Near-Surface Repository on Releases to Groundwater Pathway / *Povilas Poskas, Raimondas Kilda, Valdas Ragaisis, Terry M. Sullivan*
- 156 Long-Term Safety Assessment of a (Near-Surface) Short-Lived Radioactive Waste Repository in Lithuania / *J. Mazeika, R. Petrosius, V. Jakimaviciute-Maseliene, D. Baltrunas, K. Mazeika, V. Remeikis, T. Sullivan*

#### MATERIALS FOR NUCLEAR SYSTEMS

- 169 Corrosion Resistance of Amorphous  $\text{Fe}_{49.7}\text{Cr}_{17.7}\text{Mn}_{1.9}\text{Mo}_{7.4}\text{W}_{1.6}\text{B}_{15.2}\text{C}_{3.8}\text{Si}_{2.4}$  Coating: A New Criticality Control Material / *J. C. Farmer, J.-S. Choi, C.-K. Saw, R. H. Rebak, S. D. Day, T. Lian, P. D. Hailey, J. H. Payer, D. J. Branagan, L. F. Aprigliano*

### TECHNICAL NOTE

#### MISCELLANEOUS

- 190 Plutonium Release Fractions from Accidental Fires / *Vladimir Kogan, Philip M. Schumacher*