

nuclear technology®

CONTENTS / JULY 2000—VOL. 131, NO. 1

TECHNICAL PAPERS

REACTOR SAFETY

- 1 Stability Monitoring Tests Using a Nuclear-Coupled Boiling Channel Model / *Miguel Ceceñas-Falcón, Robert M. Edwards*
- 12 Theoretical Derivation of Simplified Evaluation Models for the First Peak of a Criticality Accident in Nuclear Fuel Solution / *Yasushi Nomura*
- 22 Fission-Product Release During Transient Heating of Irradiated CANDU Fuel / *Zhendong Liu, Raymond S. Dickson, Lawrence W. Dickson, Zoran Bilanovic, David S. Cox*

FUEL CYCLE AND MANAGEMENT

- 36 Fission Product Release Behavior of Individual Coated Fuel Particles for High-Temperature Gas-Cooled Reactors / *Kazuo Minato, Kazuhiro Sawa, Toshio Koya, Takeshi Tomita, Akiyoshi Ishikawa, Charles A. Baldwin, William Alexander Gabbard, Charlie M. Malone*
- 48 FORMOSA-B: A Boiling Water Reactor In-Core Fuel Management Optimization Package II / *Atul A. Karve, Paul J. Turinsky*

THERMAL HYDRAULICS

- 69 Application of the Two-Dimensional Navier-Stokes Equations to Steam Cooling in Asymmetrically Heated Channels / *L. W. Ward*
- 82 Analysis of PANDA Passive Containment Cooling Steady-State Tests with the Spectra Code / *Marek M. Stempniewicz*

RADIOACTIVE WASTE MANAGEMENT AND DISPOSAL

- 102 Current State of Knowledge of Water Radiolysis Effects on Spent Nuclear Fuel Corrosion / *H. Christensen, S. Sunder*
- 124 Thermal Modeling and Performance Analysis of Interim Dry Storage and Geologic Disposal Facilities for Spent Nuclear Fuel / *Si Y. Lee, Robert L. Sindelar, David C. Losey*