

nuclear technology®

CONTENTS / JUNE 2003—VOL. 142, NO. 3

TECHNICAL PAPERS

FISSION REACTORS

- 205 Simulation of Boiling Water Reactor One-Pump Trip Transient by TRAC/BF1-ENTRÉE / *Akitoshi Hotta, Takafumi Anegawa, Takashi Hara, Hisashi Ninokata*
- 230 The Neutronics Design and Analysis of a 200-MW(electric) Simplified Boiling Water Reactor Core / *Daniel R. Tinkler, Thomas J. Downar*

REACTOR SAFETY

- 243 Basic Considerations on Defining Safety Goals / *Tadakuni Hakata*

FUEL CYCLE AND MANAGEMENT

- 250 Investigation of Irradiation Behavior of SiC-Coated Fuel Particle at Extended Burnup / *Kazuhiro Sawa, Tsutomu Tobita*
- 260 Out-of-Pile Properties of Hyperstoichiometric ($U_{0.45}Pu_{0.55}$)C Fuel for the Fast Breeder Test Reactor / *A. K. Sengupta, J. Banerjee, T. Jarvis, T. R. G. Kutty, K. Ravi, S. Majumdar*

THERMAL HYDRAULICS

- 270 Experimental and Numerical Investigations on Debris Bed Coolability in a Multidimensional and Homogeneous Configuration with Volumetric Heat Source / *Kresna Atkhen, Georges Berthoud*

NUCLEAR PLANT OPERATIONS AND CONTROL

- 283 Taming the Crud Problem: A Utility Perspective / *Yovan D. Lukic, Jeffrey S. Schmidt*

RADIOISOTOPES

- 294 Study of the Consequences of Secondary Water Radiolysis Surrounding a Defective Canister / *Jinsong Liu, Ivars Neretnieks, Bo H. E. Strömberg*

ACCELERATORS

- 306 Heterogeneous Target to Reduce the Toxicity of Spallation Products in an Accelerator-Driven System / *Alexey Yu. Stankovsky, Vladimir V. Artisyuk, Masaki Saito*

DEPARTMENT

- 318 Corrigendum
- 319 Volume 142 Indexes
- v Volume 142 Contents