

MIXED-OXIDE FUEL

- 1 Editors' Notes

TECHNICAL PAPERS

- 3 Development of Mixed-Oxide Fuel Manufacture in the United Kingdom and the Influence of Fuel Characteristics on Irradiation Performance / *Hugh M. MacLeod, Geoffrey Yates*
- 18 Plutonium Processing at the Siemens Hanau Fuel Fabrication Plant / *Jürgen Krellmann*
- 29 Irradiation Behavior of UO_2/PuO_2 Fuel in Light Water Reactors / *Wolfgang Goll, Hans-Peter Fuchs, Reiner Manzel, Fritz U. Schlemmer*
- 47 In-Pile Performance of Mixed-Oxide Fuel with Particular Emphasis on MIMAS Fuel / *P. Deramaix, D. Haas, J. Van de Velde*
- 54 Experience in PWR and BWR Mixed-Oxide Fuel Management / *Gerhard J. Schlosser, Wolf-Dieter Krebs, Peter Urban*
- 68 Investigation of the Nuclear Inventories of High-Exposure PWR Mixed-Oxide Fuels with Multiple Recycling of Self-Generated Plutonium / *Hans-Werner Wiese*
-

FISSION REACTORS

- 81 Validation of Fuel Bundle Mechanical Performance Code ÉTOILE with Bundle/Duct Interaction Experimental Data / *Masatoshi Nakagawa*
- 90 Development of a Connectivity Verification System for Sequence Diagrams of Power Plants / *Mitsuko Fukuda, Naoyuki Yamada, Ken'ichi Kan, Mitsugu Utsunomiya*

NUCLEAR REACTOR SAFETY

- 100 Global Analysis of Bundle Behavior in Pressurized Water Reactor Specific CORA Experiments / *Wolfgang Hering, Kazuo Minato, Fumihisa Nagase*
- 116 RELAP5/MOD2 Split Reactor Vessel Model and Steamline Break Analysis / *Stojan Petelin, Borut Mavko, Oton Gortnar*

(Continued)

ON THIS COVER

This month's cover is based on Fig. 1 of the paper by Schlosser et al., which shows a MOX fuel assembly surrounded by uranium fuel assemblies.

CONTENTS / APRIL 1993–VOL. 102, NO. 1

(Continued)

REACTOR OPERATIONS

- 125** Ex-Core Detector Response Caused by Control Rod Misalignment Observed During Operation of the Reactor on the Nuclear Ship *Mutsu / Masafumi Itagaki, Yoshinori Miyoshi, Kazuhiko Gakuhari, Noboru Okada, Tomohiro Sakai*

TECHNICAL NOTE

NUCLEAR REACTOR SAFETY

- 137** Formalisms for Handling Phenomenological Uncertainties: The Concepts of Probability, Frequency, Variability, and Probability of Frequency / *Stan Kaplan*

DEPARTMENT

- 143** Letters to the Editor