

# NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 148, NUMBER 2, OCTOBER 2004

## CONTENTS

### TECHNICAL PAPERS

- |            |                                                                                                                                    |                                                                                                            |
|------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>195</b> | OECD/NRC BWR Turbine Trip Transient Benchmark as a Basis for Comprehensive Qualification and Studying Best-Estimate Coupled Codes  | <i>Kostadin Ivanov, Andy Olson,<br/>Enrico Sartori</i>                                                     |
| <b>208</b> | Application of TRAC/BF1-ENTRÉE-NASCA to OECD NEA/NSC BWR Turbine Trip Benchmark                                                    | <i>Akitoshi Hotta, Minyan Zhang,<br/>Hiroshi Shirai</i>                                                    |
| <b>226</b> | Analysis of the Boiling Water Reactor Turbine Trip Benchmark with the Codes DYN3D and ATHLET/DYN3D                                 | <i>Ulrich Grundmann, Sören Kliem,<br/>Ulrich Rohde</i>                                                     |
| <b>235</b> | Computation of a BWR Turbine Trip with CATHARE-CRONOS2-FLICA4 Coupled Codes                                                        | <i>G. Mignot, E. Royer, B. Rameau,<br/>N. Todorova</i>                                                     |
| <b>247</b> | OECD/NRC BWR Turbine Trip Benchmark: Simulation by POLCA-T Code                                                                    | <i>Dobromir Panayotov</i>                                                                                  |
| <b>256</b> | Peach Bottom Transients Analysis with TRAC/BF1-VALKIN                                                                              | <i>G. Verdú, R. Miró, A. M. Sánchez,<br/>O. Roselló, D. Ginestar, V. Vidal</i>                             |
| <b>270</b> | Analysis of the OECD/NRC BWR Turbine Trip Benchmark by the Coupled-Code System ATHLET-QUABOX/CUBBOX                                | <i>S. Langenbuch, K.-D. Schmidt,<br/>K. Velkov</i>                                                         |
| <b>281</b> | Peach Bottom 2 Turbine Trip Simulation Using TRAC-BF1/COS3D, a Best-Estimate Coupled 3-D Core and Thermal-Hydraulic Code System    | <i>Atsushi Ui, Takamasa Miyaji</i>                                                                         |
| <b>291</b> | Analysis of the OECD/NRC BWR Turbine Trip Transient Benchmark with the Coupled Thermal-Hydraulics and Neutronics Code TRAC-M/PARCS | <i>Deokjung Lee, Thomas J. Downar,<br/>Anthony Ulises, Bedirhan Akdeniz,<br/>Kostadin N. Ivanov</i>        |
| <b>306</b> | Peach Bottom BWR Turbine Trip Benchmark Analyses with RETRAN-3D and CORETRAN                                                       | <i>W. Barten, H. Ferroukhi,<br/>P. Coddington</i>                                                          |
| <b>325</b> | SIMULATE-3K Peach Bottom 2 Turbine Trip 2 Benchmark Calculations                                                                   | <i>Lotfi A. Belblidia,<br/>Gerardo M. Grandi,<br/>Christian Jönsson</i>                                    |
| <b>337</b> | Analysis of the Peach Bottom Turbine Trip 2 Experiment by Coupled RELAP5-PARCS Three-Dimensional Codes                             | <i>Anis Bousbia-Salah,<br/>Juswald Vedovi,<br/>Francesco D'Auria,<br/>Kostadin Ivanov, Giorgio Galassi</i> |