

Contents

№ 2 (120)-2026

Articles

- Samokhvalov R. V., Akimov A. V., Latyshev E. N., Malkov A. P., Fraaz E. S., Shakurova A. I.**
Specific Aspects of Nuclear Safety Analysis when Handling Experimental Fuel Rods
and Fuel Assemblies 5
- Povarov V. P., Safronova N. N., Rosnovsky S. V., Baryshnikov A. V., Rosnovsky V. S.**
Software and Hardware Complex for Decommissioning of Nuclear Power Facilities 16
- Bredinin A. S., Bundin A. A., Guralev S. S., Kononov P. V., Mendelbaum M. A.,
Tereshenko V. N., Tikhonovskii V. L., Tynyanskii I. A., Chuiko D. V., Yushitsin K. V.**
Modeling the Radiation Environment in Rooms Contaminated with Radioactive Isotopes
Using Three-Dimensional Geometry in the Domestic Digital Decommissioning Platform
for Decommissioning Support of Nuclear Facilities: Part 1 – “Forward Problem” Solution 28
- Noskov D. E., Ivochkin M. Yu., Gorunov O. V., Samokhin G. I.** Comparative Analysis
of Regulatory Requirements and Areas of Their Improvement. Nuclear Power Plant States,
Considered in the Project 41

Legal Documents

- Strategic Plan for Updating the System of Safety Guides in the Field of Atomic Energy Use
for 2026-2036 53
- Nuclear Safety Rules for Ships and Other Floating Craft with Nuclear Reactors. **NP-029-17**
(as amended by the order of Rostekhnadzor dated 07.08.2025 No. 262) 74
- Requirements to Planning of Measures for Actions and Protection of Personnel at Nuclear
and Radiological Accidents on Vessels and Other Watercraft with Nuclear Reactors.
NP-079-18 (as amended by the order of Rostekhnadzor dated 07.08.2025 No. 262) 98
- Order on the Repeal of Certain Orders of the Federal Environmental, Industrial
and Nuclear Supervision Service on Issues Related to the Implementation of Federal
State Supervision in the Field of Atomic Energy Use 110

International Information

- List of international organizations' documents approved in 2026 112
- Personalia 117

NUCLEAR AND RADIATION SAFETY JOURNAL

Research & Practice Quarterly Journal

Official Journal

Published since 1998

№ 2 (120)-2026

EDITORIAL BOARD

A. V. Ferapontov, Ph. D. in Engineering, Rostechnadzor, Moscow
D. Y. Belkin, Ph. D. in Engineering, Rostechnadzor, Moscow
D. A. Bokov, Rostechnadzor, Moscow
E. G. Kudryavtsev, Ph. D. in Chemistry, Moscow
B. A. Krasnykh, Ph. D. in Engineering, Rostechnadzor, Moscow
V. A. Manakov, Rostechnadzor, Moscow
M. I. Miroshnichenko, SEC NRS, Moscow

EDITORIAL TEAM

Editor-in-Chief

A. A. Khamaza, Ph. D. in Engineering, SEC NRS, Moscow

Deputy Editor-in-Chief

V. V. Bochkarev, Ph. D. in Engineering, SEC NRS, Moscow

Members of the Editorial Team

E. G. Bugaev, Doctor of Engineering, SEC NRS, Moscow
S. E. Vinokurov, Doctor of Chemistry, V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry of the Russian Academy of Sciences, Moscow
E. A. Ivanov, Ph. D. in Engineering, SEC NRS, Moscow
A. V. Kryanev, Doctor of Physics & Mathematics, Professor, Institute of Laser and Plasma Technologies of the National Research Nuclear University MEPhI, Moscow
A. V. Kuzmin, Ph. D. in Physics & Mathematics, State Scientific Institution "JIPNR – Sosny", Belarus National Academy of Sciences, Minsk, Republic of Belarus
A. V. Kuryndin, Ph. D. in Engineering, SEC NRS, Moscow
I. I. Linge, Doctor of Engineering, Nuclear Safety Institute of the Russian Academy of Sciences, Moscow
A. V. Ponizov, Ph. D. in Engineering, SEC NRS, Moscow
Y. M. Semchenkov, RRC "Kurchatov Institute", Moscow
T. V. Sinitsyna, SEC NRS, Moscow – **Executive Secretary**
I. P. Sokolov, Doctor of Chemistry, Professor, SEC NRS, Moscow
S. L. Soloviev, Doctor of Engineering, VNIIAES JSC, Moscow
G. V. Tikhomirov, Doctor of Physics & Mathematics, Professor, Institute of Nuclear Physics and Engineering of the National Research Nuclear University MEPhI, Moscow
A. P. Khomyakov, Doctor of Engineering, Ural Federal University named after the first President of Russia B. N. Yeltsin, Ekaterinburg
S. A. Shevchenko, Ph. D. in Engineering, SEC NRS, Moscow
U. Stoll, Technical Chief Advisor for Nuclear Facilities, Framatome GmbH, Erlangen, Federal Republic of Germany

Founder

Scientific and Engineering Centre
for Nuclear and Radiation Safety
(SEC NRS)

Publishing Editor

N. R. Bolshakova,
SEC NRS, Moscow

Editors

T. A. Krasotina, **D. R. Lukyanova**,
SEC NRS, Moscow

Desktop Publishing

A. N. Lukyanov,
SEC NRS, Moscow

ISSN 2218-8665 (print)

ISSN 2218-869X (online)

nrs-journal.ru

© "Nuclear and Radiation Safety Journal"

SEC NRS, 2026

No materials published in
"Nuclear and Radiation Safety Journal"
may be reproduced without prior
permission of the publisher