

## Current state and directions for the development of regulatory framework for nuclear facilities decommissioning in the Russian Federation

The paper deals with a detailed review of the legislative and regulatory framework for safety ensuring during the planning, preparation and decommissioning of nuclear facilities adopted in the Russian Federation. Special focus is on the current system of the federal rules and regulations in the field of atomic energy use, approved by Rostekhnadzor and establishing requirements for ensuring safety during the decommissioning of various categories of nuclear facilities. One of the most important requirements of the federal rules and regulations is “end-to-end” planning for the decommissioning of nuclear facilities throughout all of their life-cycle, considering their unique design features, experience of their operation, as well as the invention of new technologies.

The paper presents a comparative analysis of the approaches to the decommissioning planning in the Russian Federation and in the IAEA, which concluded that they are almost in full agreement (Figure 1). It is especially noted that all Russian federal rules and regulations have been developed in compliance with international experience and the IAEA recommendations.

At the conclusion of the paper, perspective directions for the development of regulatory framework for nuclear facilities decommissioning in the Russian Federation were considered, including the establishment of detailed requirements and the development of recommendations for:

- ensuring safety during the operation of nuclear facilities during the “transitional period”;
- handling of materials with high content of radionuclides, but not related to RAW;
- risk management in the implementation of decommissioning projects.

Figure 1. Approaches to the decommissioning planning in the Russian Federation and in the IAEA (<https://portal.secnrs.ru/~OYoSf>)

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