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Features and Principles of Regulatory Regulation for the Project of Land-Based SNPP with RITM200N Reactor Plant

Currently, State Corporation Rosatom is developing a wide range of SNPP based on RITM-200-type reactor plants.

The flagship project in the segment of land-based SNPP is a nuclear power plant with 55 MW (el) RITM-200N reactor plant designed on the basis of RITM-200 RP. Afrikantov OKBM JSC - an enterprise of nuclear engineering with many years of experience in the development and operation of marine reactors.

In order to bring the technical solutions of the land-based SNPP into compliance with the RITM-200N RP and the regulatory legal acts in force in the Russian Federation, as well as taking into account the requirements and recommendations of international regulatory documents, it was decided to create an intersectoral working group on regulatory documentation used in the project of the land-based SNPP with the RITM200N RP.

One of the key areas of work is the alignment of the accepted design solutions of the RITM-200N RP with the current legislation, the development of compensating measures for identified deviations from regulatory documents, the adjustment of federal standards and rules, development of standardization documents.

Within the framework of these activities, the developers of the project of land-based SNPP with the RITM-200N RP are interacting with the Federal Service for Environmental, Technological and Nuclear Supervision (Rostekhnadzor) regarding the application of the requirements of the current legislation of the Russian Federation in the field of atomic energy use for nuclear power plants to the RITM-200 project for SNPP.

In the world community and international organizations, such as IAEA, WENRA, EUR, there are also active discussions on the possibility and features of applying existing regulatory requirements to the regulation and safety of small modular reactors. The project of land-based SNPP with RITM-200N RP is developed taking into account the requirements of international rules and regulations.

Country OR International Organization

Russian Federation

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