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Rooppur NPP Unit 1: Reactor Containment successfully tested before the upcoming fuel loading

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Recent tests on the integrity and strength of the containment of the reactor compartment at the first unit of the Rooppur NPP were successful. The tests confirmed full compliance with the containment design requirements and the highest safety standards.

During the tests, a compressor was used to increase the pressure inside the containment to the design value and a series of tests were conducted to confirm the structure's tightness and ability to withstand internal loads that occur in abnormal conditions. This is especially important at the stage of preparation for nuclear fuel loading, since the containment acts as the last protective barrier in the event of a hypothetical accident.

The containment is a physical barrier made of pre-stressed reinforced

concrete with an internal sealing steel lining. It is designed to prevent the release of radioactive substances into the environment in the event of an emergency and to localize them inside the containment, as well as to protect against possible external impacts.

The NPP unit will soon proceed to a series of hot media tests, namely, the primary coolant circuit heated to rated values and the generated steam. Various safety modes of the NPP unit operation will also be tested, including the operation mode of the devices providing steam discharge into the atmosphere.

The tests are accompanied at the NPP by noise, which is planned and safe for the public.

Rosatom's most important priority is safety; therefore, the project focuses on meeting all mandatory standards and requirements.

The Rooppur NPP is equipped with two VVER-1200 reactors of a total 2400 MW capacity. The project is being implemented with technical and financial assistance. The Engineering Division of Rosatom State Corporation, Russia, is the general contractor of the Rooppur NPP.