

International Conference on the Safety of Radioactive Waste Management, Decommissioning, Environmental Protection and Remediation: Ensuring Safety and Enabling Sustainability



Contribution ID: 53

Type: POSTER

«Decommissioning of the nuclear icebreaker «Siberia»

For the first time in the world in 1957, the «Lenin» nuclear icebreaker was launched in the USSR, this was the beginning of a new chapter in nuclear shipbuilding.

Currently, 8 nuclear vessels with nuclear reactors of various projects are operated in Russia.

In 1978, the nuclear icebreaker «Siberia» of Project 1052 was launched. In 1993, for technical reasons, a decision was made to preserve the icebreaker and the unloading of the spent nuclear fuel from the reactors. A concept, a program and fundamental schemes for the decommissioning of the «Siberia» icebreaker was developed. In the period 2016 - 2018, there was work on decontamination, dismantling and unloading of equipment from the reactor premises at the «Nerpa» shipyard. In 2018-2020, after the ship returned to the territory of the «Atomflot», work continued. In 2021, a final Comprehensive Engineering and Radiation Survey was carried out.

The nuclear icebreaker «Siberia» is the first nuclear ship in the world, which completely passed all the stages of the life cycle and, as part of the implementation of the events of the federal target program, was finally shut down at the end of 2021.

It is necessary to continue to work in terms of ensuring safe operation and decommissioning of nuclear power plants, using the experience gained, as well as the latest technologies and advanced development in this area.

Primary author: Mrs KOLCHEVA, Ekaterina (North European Department of Rostekhnadzor)

Presenter: Mrs KOLCHEVA, Ekaterina (North European Department of Rostekhnadzor)

Track Classification: Track 6 - Building capacity for ensuring safety and enabling sustainability