Regulation and Legislation on the Back End of Nuclear fuel cycle in Russia

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26-29 May 2015
Structure of the Russian legislative and regulatory documents on safety of spent fuel and radwaste management

INTERNATIONAL AGREEMENTS
Joint Convention on the safety of spent fuel management and the safety of radioactive waste management

FEDERAL LAWS

DECREES OF THE PRESIDENT AND THE GOVERNMENT

FEDERAL NORMS AND RULES

SPENT FUEL

RADWASTE

REGULATIONS AND GUIDES OF REGULATORY AUTHORITIES AND ROSATOM
List of principal federal laws form the legislative framework for safety regulation in the field of atomic energy use in the Russian Federation:

- **JOINT CONVENTION ON THE SAFETY OF SPENT FUEL MANAGEMENT AND ON THE SAFETY OF RADIOACTIVE WASTE MANAGEMENT**
  № 139-FZ of 04 November 2005

- **ON USE OF ATOMIC ENERGY**
  №170-FZ of November 21, 1995

- **ON MANAGEMENT OF RADIOACTIVE WASTES**
  No 190-FZ of July 11, 2011

- **ON ENVIRONMENTAL PROTECTION**
  No 7-FZ of January 10, 2002

- **On the Radiation Safety of Population**
  № 3-FZ of January 9, 1996
List of Decrees of President and Government regulating import-export spent fuel and radioactive waste

On the approval of the Provision on financing of special ecological programs for remediation of radioactively contaminated parts of territories № 588, of September 22, 2003

On the procedure of import of irradiated fuel assemblies of nuclear reactors to Russian Federation No 418, of July 11, 2003

On the complementary measures to enhance the control over the fulfillment of the requirements of ecological safety by the spent nuclear fuel reprocessing № 389, of April 20, 1995

On special commission on the issues of import of foreign manufacturers’ irradiated fuel assemblies to the territory of Russian Federation № 828, of July 10, 2001
Main regulatory provisions in re-export of SNF and reprocessing products (1/3)

- Export and import of nuclear materials, including nuclear fuel, radioactive substances, as well as radiation sources, should be carried out in accordance with the international obligations of the Russian Federation on the nonproliferation of nuclear weapons and the international agreements of the Russian Federation in the sphere of the use of atomic energy.

- Import of SNF from foreign states to the Russian Federation for temporary technological storage and reprocessing is carried out in accordance with the procedure established by the Russian Federation and international agreements of the Russian Federation.

- Import of foreign-made irradiated fuel assemblies to the Russian Federation is carried out basing of the positive decision of the special commission called for by the President of the Russian Federation.

- Import of SNFA to the Russian Federation is performed on the basis of positive findings made by state ecologic expertise approved by State Corporation Rosatom and Rostechnadzor provided the authorized institutions possess corresponding licenses of Rostechnadzor.

- The annual volume of SNF to be imported to the Russian Federation is determined by the Government of the Russian Federation.
Main regulatory provisions in re-export of SNF and reprocessing products (2/3)

- Import of radwaste in the purposes of its storage and reprocessing to the territory of the Russian Federation is prohibited except the cases stipulated by laws.

- Re-export of SNF reprocessing products is performed under conditions as follows:
  - In compliance with international obligations of the Russian Federation on nuclear non-proliferation.
  - The international agreement of the Russian Federation shall contain the provisions envisage the obligations and guarantees of the country-supplier on acceptance of the reprocessing products as well as provisions on possibility to confirm the availability of the necessary conditions for RW acceptance and its safe management.
  - The foreign trade contract shall specify the list, composition, amount, type of package of the reprocessing products to be re-exported.

- The amounts of the reprocessing products to be re-exported to the supplier country are identified by the methodologies approved by the parties based on conditions of equivalency in activity of previously imported in the purposes of reprocessing assemblies and activity of the re-exported reprocessing products taken into account the radioactive decay of radionuclides during operations of temporal SNFA process storage and SNFA reprocessing.
Main regulatory provisions in re-export of SNF and reprocessing products (3/3)


- SNF is not a waste

- **RW export to and import from the Russian Federation** for the purposes of their storage, processing and disposal are prohibited except for cases

- spent sealed ionizing radiation sources produced in the Russian Federation are allowed to be returned to Russia including for the purposes of their processing and disposal.

11 July 2003  N 418 Government Regulation

- The SNF import contract for Russian origin fuel can provide conditions of the subsequent RW (after reprocessing SNF) management in the Russian Federation
Main regulatory provisions in safety of SNF transportation and management of reprocessing products

- State regulation of nuclear, radiation, environmental and fire safety at all the stages of SNF and reprocessing products management is performed by Rostechnadzor, medical regulatory authorities, Ministry for Affairs of Civil Defense, Emergencies and Elimination of Natural Disasters Consequences and Federal Service for Regulation in Use of Nature

- In SNF transportation
  - certified casks are used, which safety is justified both by computation and experimentally at the mock-ups and its elements
  - special railway carriages are used for transportation of SNF casks
  - transportation is performed by special trains
  - continuous control of shipments is performed

- All shipments are performed in full compliance with the international and national legal norms and provided the transportation permits granted by the relevant competent authorities of the states are available.
Thank you for attention!

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