



FEDERAL ENVIRONMENTAL, INDUSTRIAL AND NUCLEAR  
SUPERVISION SERVICE OF RUSSIA  
(ROSTECHNADZOR)

Major Events in Nuclear and Radiation Safety  
Regulation in Russia in 2012 and 2013.

Alexey Ferapontov, Acting Chairman

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# State Safety Regulation System

*(legislative and regulatory legal acts)*

- ✓ Legislative framework
- ✓ Regulatory framework



- ✓ Ensuring safety in atomic energy uses

*System corresponds to requirements of international standards and agreements*



# Changes in Legal Framework



Changes in legal framework

Safety requirements in atomic energy uses

*Safety requirements VVER NPPs*



# Implementing Amendments to State Regulation (Federal Law 170, Federal Law 190, Federal Law 159)





# Implementation of Amendments to FL 170

- ✓ Licensing of activities in atomic energy uses
- ✓ Federal state supervision in the field of atomic energy uses
- ✓ Procedure of permanent state supervision at nuclear facilities
- ✓ List of nuclear facilities covered with permanent state supervision regime
- ✓ Specific features of technical regulation in atomic energy uses
- ✓ Provisions on specific standardization in atomic energy uses
- ✓ Development and approval of federal codes and standards in atomic energy uses



## Implementation of Provisions of FL 190

- ✓ Within the implementation of the Federal Law “On Management of Radioactive Waste” No. 190-FZ enacted on July 11, 2011, acts of the Government of the Russian Federation were endorsed regulating the aspects of the radwaste disposal fund, state regulation of radwaste disposal tariffs, initial registration of radwaste, state accounting and control of radwaste, etc.



# Implementation of Provision of FL 159

- ✓ safety review shall be conducted at the expense of the applicant or licensee
- ✓ state safety regulatory authorities shall arrange safety reviews by setting tasks for the conducting of review as well as consideration and approval or disapproval of conclusions of the review
- ✓ safety review of the nuclear facilities covered with the permanent state supervision regime shall be conducted by the technical support organizations of the authorized state regulatory body



# Development and Approval of Regulatory Legal Acts by Rostekhnadzor







# Developed and Approved (1)

- ✓ Administrative Regulations on performing state supervising activities in the field of atomic energy uses
- ✓ Rostekhnadzor Order regulating the procedure of submission of documents containing results of the operating organization's periodical safety assessment of nuclear installations or storage facilities
- ✓ Rostekhnadzor Order on the methodology of preparation and establishment of standards on maximum permissible emissions of radioactive substances into the atmosphere
- ✓ Rostekhnadzor Administrative Regulations for the rates of permissible emissions of radioactive substances into the atmosphere and the rates of permissible discharges of radioactive substances into water objects; authorization for radioactive substances emissions and discharges into the environment
- ✓ Rostekhnadzor Order, which establishes with recommendations to the content of the documents substantiating the rates of permissible emissions of radioactive substances into the atmosphere and the rates of permissible discharges of radioactive substances into water objects



## Developed and Approved (2)

- ✓ The Rostekhnadzor policy statement on application of PSA and risk-informed methods for the NPPs has been signed
- ✓ The federal codes and standards in the field of atomic energy uses titled “General regulations on ensuring safety of NPPs” and “General requirements to NPP probabilistic safety analysis” are currently under preparation
- ✓ The draft safety guides with recommendations on application of risk-informed methods in regulatory decision-making with respects NPP units and on application of PSA for evaluation of NPP operational occurrences, and also a draft safety guide “Assessment of current safety level of nuclear facilities” have been prepared.



# Results of IRRS Follow-up Mission to the Russian Federation





# IRRS Follow-up Mission (1)

- ✓ In November earlier this year, the Integrated Regulatory Review Service (IRRS) Follow-up Mission to the Russian Federation was completed in Moscow. This follow-up mission involved the effort of 10 senior-level experts from the regulatory authorities of Bulgaria, Canada, the Czech Republic, Cuba, Finland, the UK, Ukraine and the U.S., and also 5 officers from the IAEA. The team of international experts examined the fulfillment of the recommendations and suggestions of the 2009 IRRS mission and assessed the activities of Rostekhnadzor in the area of emergency preparedness and response and the regulatory lessons learnt after the Fukushima-Daiichi accident.
- ✓ The IAEA follow-up mission highly appreciated all the actions performed by Rostekhnadzor on improvement of the state safety regulation in the sphere of atomic energy uses.





## IRRS Follow-up Mission (2)

- ✓ several recommendations and suggestions formulated for further improvement of regulatory activities of Rostekhnadzor
- ✓ good practices which can be proposed to the safety authorities of the other IAEA Member-States, namely:
- ✓ leading role of the Russian Federation in international collaboration on strengthening global nuclear safety regime
- ✓ open dialogue between Rostekhnadzor and regulators of other countries discussing best practices and feedback on state regulatory functions
- ✓ availability of effective regulatory basis used for assessment of the operator's emergency response plans prepared







**Thank you for your attention**