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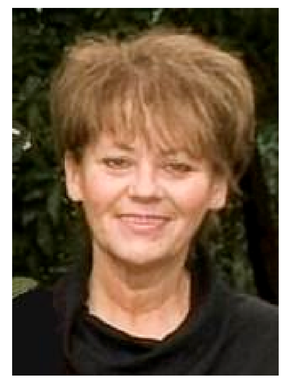
Development and implementation of the new radiological protection system in Russia



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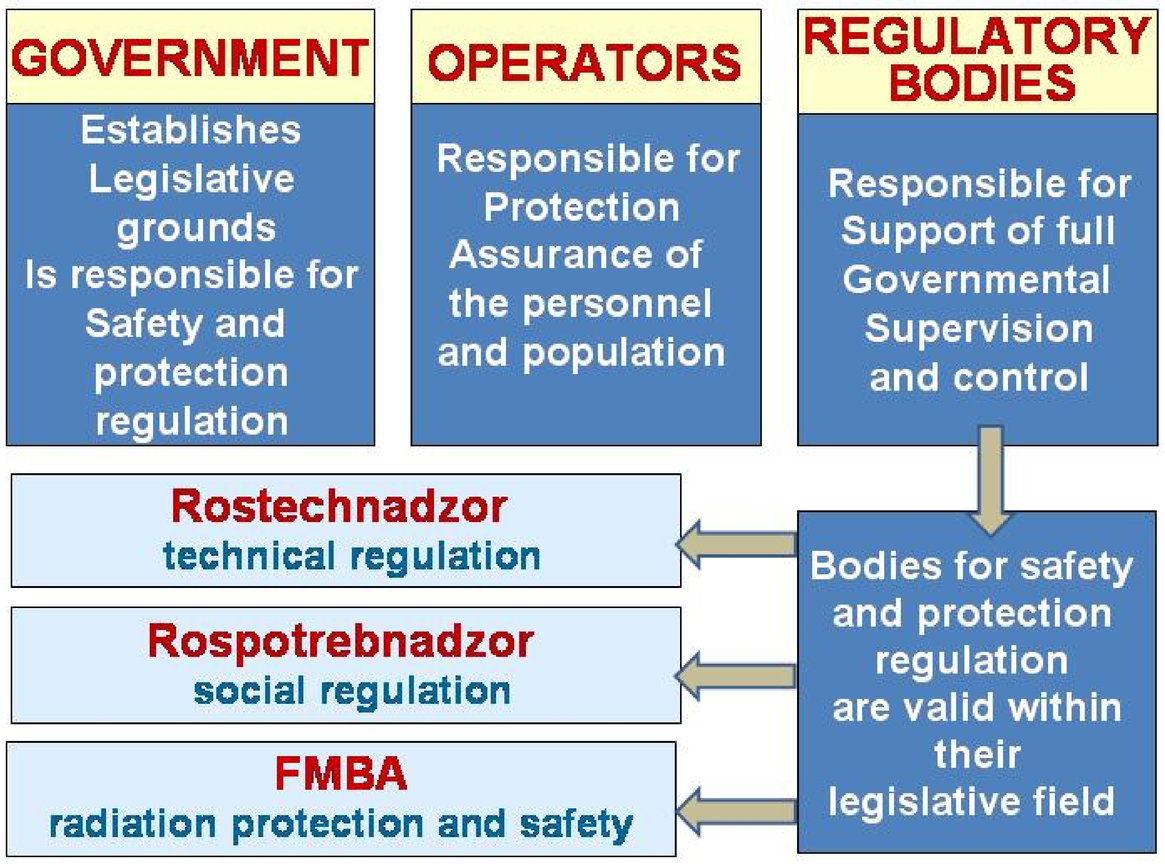
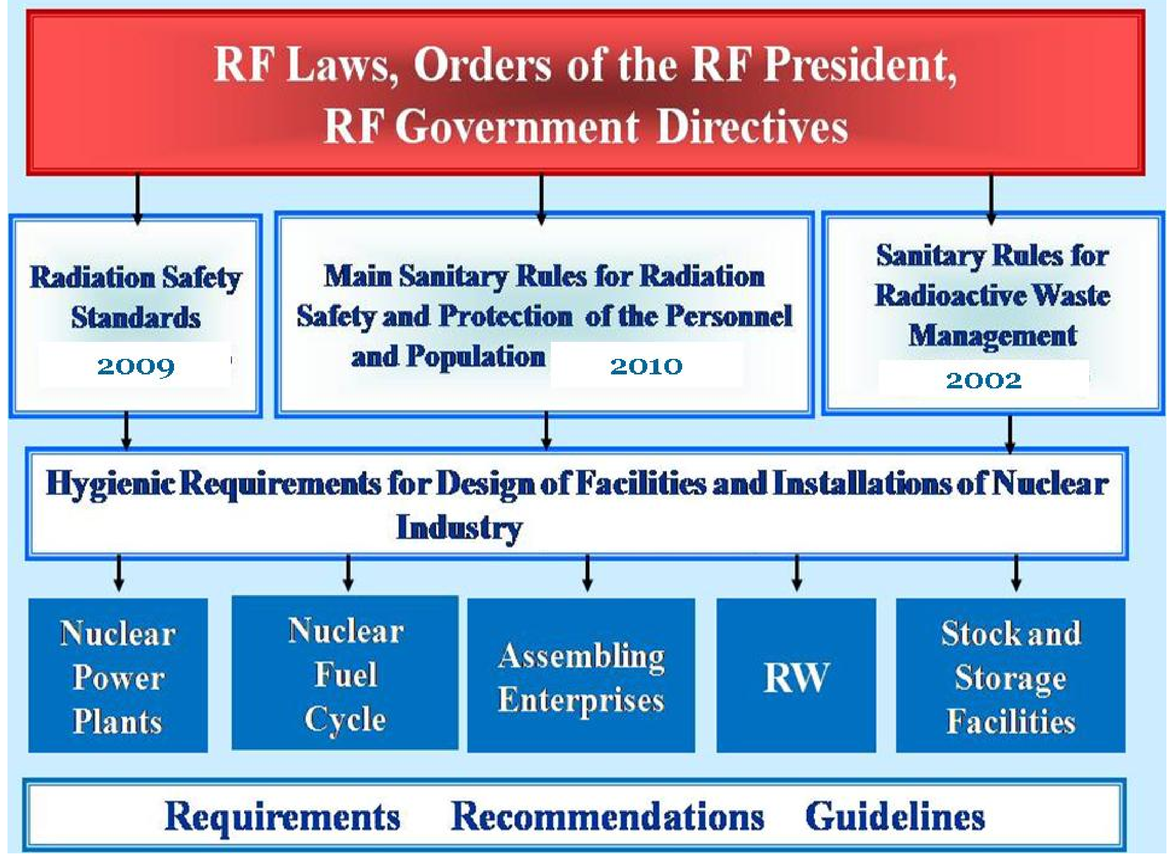
Today, work on adaptation of the principal provisions of the ICRP Publication 103 to the national system of radiological protection began. When improving the national regulatory documents, the accumulated experience and up-to-date social and economic circumstances of Russia are collated



State regulation of radiological protection



Normative Basis of Regulation

Main actual task in Russia

To investigate how new ICRP conception of Publication 103 can be effectively and successfully applied in regulation practice:

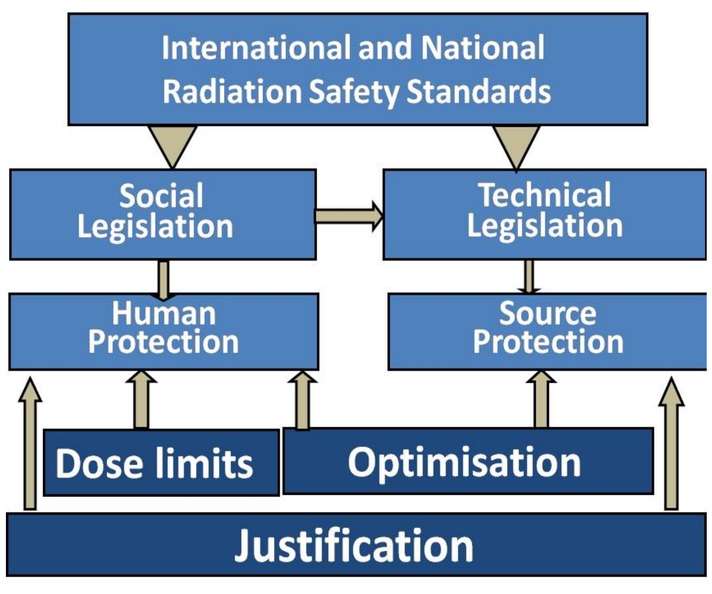
- Three types of exposure situation
- Dose constraint and reference levels for each situation
- Representative individual
- Non-human species
- Weighting factors
- Selective use of collective dose

In Russian

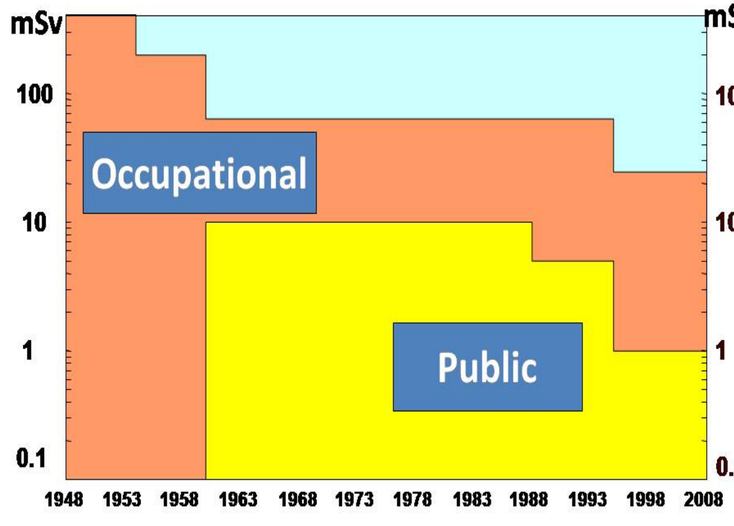
Some new provisions have already found their reflection in the Russian regulatory documents including:

- Up-to-date radiation risk coefficients of the stochastic effect arising are given
- Limitation of the building raw materials, chemical fertilizers and agrochemicals is enhanced
- When regulating medical exposure, the criterion for discharge from the hospital after treatment of ionizing radiation sources

Radical review of current Russian system is not assumed



Despite the mentioned changes and new provisions of the radiological protection system, no radical revision of the current national Radiation Safety Standards is assumed. These standards will mainly undergo some evolutionary changes relating to the “reconstruction” of the conceptual basis



Conclusions

The further work will aimed at putting the basic norms and rules of the sanitary regulation on radiation safety and protection of workers and public and environmental protection (NRB-99/2009, OSPORB-99/2010, SPORO-2002, SP AES-2003, SP PUAP-2009 and other national regulatory and methodical documents) in compliance with recommendations and standards provided by the international organizations (ICRP, IAEA etc)