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National practices in physical protection of nuclear materials. Regulatory basis

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ABSTRACT

The Federal law "On The Use Of Atomic Energy" containing the section on physical protection of nuclear materials and nuclear facilities was issued in 1995 in Russian Federation. This document became the first federal level document regulating the general requirements to physical protection (PP).

The Federal PP Rules developed on the base of this law by Minatom of Russia and other federal bodies of the Russian Federation were put in force by the Government of Russia in 1997.

The requirements of the Convention on Physical Protection of Nuclear Materials (INFCIRC 274) and the modern IAEA recommendations (INFCIRC/225/Rev.4) are taken into account in the PP rules. Besides, while developing the PP rules the other countries' experience in this sphere has been studied and taken into account.

The PP rules are action-obligatory for all juridical persons dealing with nuclear activity and also for those who are coordinating and monitoring this activity. Nuclear activity without physical protection ensured in accordance with PP Rules requirements is prohibited. The requirements of PP Rules are stronger than the IAEA recommendations.

The PP Rules are establishing:

- physical protection objectives;
- federal executive bodies and organizations functions on implementation of physical protection;
- categorization of nuclear materials;
- requirements for nuclear materials physical protection as during use and storage as during transportation;
- main goals of state supervision and ministry level control for physical protection;
- notification order about the facts of unauthorized actions regarding nuclear materials and facilities.

Besides the above mentioned documents, there were put in force President decrees, Federal laws and regulations in the field of:

- counteraction to nuclear terrorism;
- interactions in physical protection systems;
- military and ministerial on-site guard activities;
- information protection.

By the initiative of Minatom of Russia the corrections were put into the Criminal Code of Russian Federation regarding improper execution of duties on and theft of nuclear materials and equipment that could be used for weapons of mass destruction construction.



EU-High Level Scientific International Conference on Physical Protection
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Minatom of Russia is actively elaborating ministerial documents on physical protection. Since 1995 till 2001 there were developed and put in force 21 this topic related documents including the following:

- ✓ physical protection terminology;
- ✓ general approaches to physical protection ensuring;
- ✓ vulnerability analysis of nuclear-hazardous facilities;
- ✓ physical protection systems designing;
- ✓ organizing of safeguards and security services at nuclear-hazardous facilities;
- ✓ operation of automated physical protection systems;
- ✓ communication and data exchange in physical protection systems;
- ✓ certification of technical means of physical protection;
- ✓ physical protection system information protection;
- ✓ ministerial on-site guarding of nuclear-hazardous facilities;
- ✓ provision of ministerial control of physical protection condition;
- ✓ interaction of different entities participating physical protection at ministerial level.