

SUMMARY

Yermenchuk O.P. Regulatory framework for the protection of nuclear materials, nuclear installations, radioactive waste that can be classified as critical infrastructure. Challenges to national security require the establishment of a critical infrastructure protection system in Ukraine, an integral part of which is the development of a quality regulatory framework. The proper state of protection of nuclear materials, nuclear installations, radioactive waste and objects intended for their management, other sources of ionizing radiation depends heavily on the legal regulation of the participants' activities in this field and requires qualitative and detailed scientific research. The basic acts defining the legal basis for the activities of the organization of the protection of nuclear materials, nuclear installations, radioactive waste and objects intended for their handling, and other sources of ionizing radiation that can be classified as objects of critical infrastructure have been analyzed. On the basis of this, it is concluded that the protection of vital objects in the sphere is ensured by the functioning of the state system of physical protection. The experience of identifying risks and threats is rather interesting for the implementation of the critical infrastructure protection system.

Particular attention deserves an algorithm for actions on the assessment of vulnerability, which can be partially used during the construction of such a mechanism in the system of protection of critical infrastructure. It includes studying the characteristics of the object, its location, studying the object's design threat, compiling a list of offender's goals and possible scenarios of their actions, determining the ability of a successful confrontation of the physical protection system with each scenario of offender actions, and assessing the risks in different scenarios, developing recommendations for bringing the system of physical protection in line with the established requirements.

A detailed analysis of the conceptual-categorical apparatus of the sphere related to the subject of research has been given.

Keywords: *critical infrastructure, protection of critical infrastructure, national security, regulatory regulation, protection of nuclear materials, nuclear installations, radioactive waste and objects intended to handle them, other sources of ionizing radiation.*