



- The basic legal act in the field of ensuring radiation safety is the Law on the Use of Atomic Energy. On its basis, Orders of the Minister of Health of the Republic of Kazakhstan are formed, which regulate sanitary and epidemiological requirements for handling sources of ionizing radiation.
- An organization intending, within the framework of the law, to use ionizing radiation in the prescribed manner applies to the Committee for Atomic Energy Supervision and Control to certify its activities.
- To do this, the organization, under the supervision or with the help of the Sanitary and Epidemiological Control Committee, conducts an examination of its organization for compliance with the requirements of legislation in the field of radiation safety.
- After successful certification, the organization must undergo radiation safety re-certification every five years.

Individual protection means

- To protect personnel from photonic radiation, personal protective equipment in the form of special aprons, vests, collars, and skirts is actively used. The lead materials used in them provide a significant reduction in the intensity of hard X-ray radiation. However, the protective properties of the suits may deteriorate or become unusable; therefore, the protective properties of personal radiation protection equipment are monitored every two years.

It is planned to modernize personal protective equipment by introducing into practice suits with a fastening system and an increased equivalent of the lead layer.

Radiation monitoring of workplaces

- Another legal requirement is the annual procedure for radiation monitoring of workplaces. The essence of the procedure is to measure the equivalent dose rate on the surface of walls and ceilings in the workplace during operation of the device. This is followed by similar measurements at the level of the employee's head, chest, gonads, and legs at his workplace. After the measurement, the dose received by the employee is calculated taking into account the workload, type of device and radio sensitivity of the organs.

- All procedures to confirm the practices used in the institution in compliance with the requirements of legislation in the field of radiation safety are carried out by accredited organizations. Metrological support for the accuracy of their equipment is also mandatory. This applies to both the organization providing these services and supervisory authorities.