

INSPECTION COMPLEXES IN CUSTOMS

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Abstract

Shows the property of mobile inspection complexes, which are mounted on vehicles and move with them, where stationary inspection complexes are located in buildings, and have stationary radiation protection that ensures the radiation safety of personnel and the public during the work of inspection and inspection complex.

Keywords: - Mobile inspection complex, stationary, radiation protection, personnel safety.

Introduction:-

The Inspection Complex (IC) is a technical means of customs control that uses penetrating ionizing radiation to obtain an image and analyze the contents of bulky goods and vehicles. The use of IC allows to stop the commission of administrative and criminal offenses (movement of

weapons, drugs and goods not declared for customs control) (1).



(1),



(2),



(3)



(4)

Mobile IC mounted on vehicles and move with them (2). They are equipped with protective screens that provide the necessary protection for people and reduce the size of the radiation hazardous zone. Radiation protection of the population is ensured by the presence of access restricted zones and the absence of the population in this zone during the operation of the facility. Stationary IC (3) are located in buildings (structures), have stationary radiation protection, which ensures radiation safety of personnel and the public during the operation of IC. The complexes have passed sanitary and epidemiological examination and have sanitary and epidemiological conclusions issued by the Federal Service for Supervision of Consumer Rights Protection and Human Welfare on compliance with sanitary rules SP 2.6.1.2619-10 "Basic sanitary rules for ensuring radiation safety" (OSPORB-99 / 2010) and SanPiN 2.6.1.2369-08 "Hygienic requirements for ensuring radiation safety when handling radiation screening devices". When conducting a customs inspection using all types of IC, passengers and drivers are taken to a safe area (4) for the duration of the vehicle scanning. IC do not contain radioactive substances and do not create them during operation. They generate bremsstrahlung only after switching on the supply voltages of the accelerators. With such energy, the danger of the appearance of induced (residual) radioactivity in controlled cargo and vehicles, the environment and the structures of the

complex is excluded. After the scan, there is no need for "temporary settling" of vehicles, including buses without passengers.

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