RADON ON TECHNOGENIC URANIUM PROVINCES OF KADJISAI

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In Kyrgyzstan radon is poorly investigated and last years the research works are conducted. The concentration of radionuclides in the soil varies a little in area of sedimentations of settlement of Kadji-Sai: on sedimentation № 2 U-238 - in the top horizon of a bulk ground (0-55 cm) 103-139

Bq/kg, on on sedimentation № 3 U-238 0-27 cm 179-534 Bq/kg for Ra-226 up to 101 Bq/kg.

Isotopes of Rn (radon) active radionuclides. It defines their harm, as components of air, at breath of animals and man. In the given work the results of distribution 222Rn in territory former industrial platform of Kadji-Sai and in the same occupied item are spent.

We spent radiating inspection and district of territory with the purpose of revealing the areas and sites on a degree of danger of an irradiation of the population from radon.

The selection of test (dust) was made of atmospheric air in the large volumes up to 220-380 m^3 in June, 2006 on two sites of tail deposit. The air-filtering installations were established at height 0,5 m from a surface of ground. The aerosols were selected on a Petrianovsky filter of the large diameter, the selection was made on the average within 3 hours. After mineralization filters were measured on semi-conductor gamma-spectrometer. Concentration of the radionuclide ^{210}Pb 49,6-104* 10-5 Bq/m^3.

Definitions of volumetric concentration of radon through an exposition film trectory detectors and radiometer of the radon PPA-01M-03. Activity of the Rn -222 and toron-220 are defined accordingly by quantity of the registered alpha-particles at disintegration RaA and ThA to alpha-spectrometer methods.

Was established trectory detectors with an exposition about 2 months. The detectors of the Hungarian manufacture were established in houses of the local inhabitants, and also above sedimentation lower tail deposite. For the period of supervision the concentration of radon changed from 44 up to 242 [Bqm-3].