



Mining business license application to Nuclear Regulatory Body

Nuclear Regulatory Body issues a guidance document
This document regarding about Pre-Commissioning Environmental Radiological Monitoring Program

Preliminary survey work and dose rate measurements
Preliminary survey work and dose rate measurements were carried out at 1 meter above the ground in the mining area and surrounding settlements.

The Environmental radiological monitoring program prepared by the service provider institution is submitted to the Nuclear Regulatory Authority by the mining enterprise.

Following to approval of the monitoring program by the Nuclear Regulatory Authority, the sampling process begins.

Passive radon measurements were made in a house determined in each settlements around the mine site. In addition, at the points where soil samples were taken, dose measurements were also made with the environmental TLD at 1 m above the ground. Continuous dose rate measurements were made at two points around the mine site and at the mine site for one year.

Environmental Radiological report

Environmental impact assessment report
The report prepared to meet the environmental impact assessment requirements is submitted to the Ministry of Environment and permission to start mining activities

Identification of a competent institution or organization
The owner of the Mining Enterprise makes a protocol with an institution that will implement the environmental radiological monitoring program.

Preparation of Environmental Radiological monitoring program document
Within the scope of the monitoring program in accordance with the directive given by the NRA, the sample matrices, the places where the samples will be collected and the frequency of sample collection are determined and the monitoring program document is prepared.

Uranium and thorium series radionuclides (U-238, U-234, Ra-226, Th-230, Pb-210, Ra-228, Th-232, Th-228) were measured in air filter, precipitation, soil, water, drinking water, plant, food and animal fees samples by using alpha, gamma spectrometers, gross alpha/beta proportional counter and other detected gamma emitter radionuclides determined by gamma spectrometric measurements.