



Determination of Radiation Level of Minerals and their Technological Residues in Artana Mine

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Received February 14, 2015; Accepted April 24, 2015

Abstract: In this paper there are determined the levels of radiation doses to non enhanced materials (minerals) and the doses of radiation level after the technological enhances of the materials, respectively NORM & TENORM. The directly field measurements are conducted by the detectors: Gamma spectrometer Gr-130; Inspector–EXP–Radiation Alert, TA-PUG-7A and Gama monitor- SGM-29-246. These values indicate that the level of radiation dose of minerals and their technological residues ranges from the values 75 nSv/h to 202 nSv/h. Based on the measurement results, it can be seen that the level of radiation dose of minerals and their technological residues in the industrial complex Trepça are lower than the average of natural background (2.4 mSv/ year). Thus, these minerals and their residues after the technological process does not pose radio-ecological concerns.

Keywords: *Radioactivity, Radiation, Specific activity, Detector, Norm, Tenorm*

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