

The Study of Environmental Pollution by the Waste of Drinking Water after the Treatment

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Abstract: In this study are presented the results of the radiation dose level of some radionuclide of waste during and after the treatment of drinking water, in the Water Treatment Plant - Shajkoc, Podujevo, Regional Water Company J.S.C.-K.U.R."Pristina"- Kosovo. Samples were taken from the above mentioned locations and are treated in terms of physic-chemical in the Centre for Nuclear Applied Physics in Tirana. The Field measurements were carried out by the detector: Gama-spectrometer Gr-130; Inspector-EXP-Radiation Alert. The Field measurements indicate that the levels of radiation dose are in the interval of 60 nSv/h to 160 values nSv/h. With gamma spectrometric analysis conducted at the Centre for Nuclear Applied Physics in Tirana, we have determined some radionuclide and their specific concentration. Based on the results of measurements, it can be concluded that the level of radiation doses are lower than the worldwide average of natural background (2.4 mSv/year). After the studies and environmental assessments, we can conclude for these waste, what kind of risk they present in terms of environmental radioactive pollution and whether they can be used in practice for different needs in the Republic of Kosovo. Unfortunately we do not have any Administrative Instruction or Regulation on the management of this waste so due to the lack of these documents we use the European Directives of Euratom.

Key Words: *Radioactivity, Radiation, Concentration, Waste, Tenorm, Treatment.*

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