

Perspective Model of Portative Field In-Situ Spectrometer-Identifier of Gamma Isotopes

In Ukraine for on-field monitoring of the radionuclides uses the Radiometric and spectrometric instrument PRS-01 which is created according to IAEA recommendations stated in the IAEA TECDOC-1312, (2002) "Detection of Radioactive Material at Borders", and UNECE document "Recommendations on Monitoring and Response Procedures for Radioactive Scrap Metal". Modern rules of ecological and radiation safety is requiring the equipment with highest functionality and comfortable usage. Old PRS-01 not fully qualify to modernity and as future improvement proposed new spectrometer based on PRS-01 with increased functionality. The scope of use of modified spectrometer-identifier of gamma radionuclides: monitoring of the natural radionuclides in deposits; monitoring of the medical isotopes in medical radiological centres; monitoring of radionuclides in industrial production; monitoring of accident and anthropogenic radionuclides in emergency case.

Primary author: KACHALIN, Igor (, RPE "ATOM KOMPLEX PRYLD")

Presenter: KACHALIN, Igor (, RPE "ATOM KOMPLEX PRYLD")

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