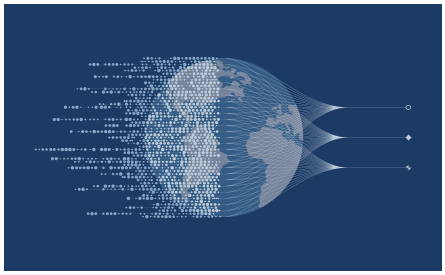

ID: **P3.2-636** Type: **E-poster**

system for operational radiometry monitoring at IMS Radionuclide Station

This abstract demonstrates an operational radiometric monitoring system for IMS Radionuclide Stations. The main idea of the system is that after sampling the sample is not placed directly into the decay storage, but on a beta spectrometer for measurement and monitoring. Such a measurement immediately after sampling allows for a rapid assessment of the radiation situation in the area of the radionuclide station and provides the opportunity for an early assessment in the event of an event of interest. After this assessment (24 hours), the sample is routinely placed on the gamma detector in accordance with the "Station Specific Operational Manual". The possible use of a scintillation beta-spectrometer was investigated using the example of BETA-1C manufactured by the ASPECT Research and Production Center (Dubna) and methodological recommendations were presented for testing the system at the MSM radionuclide station. The manufacturer has developed recommendations for the equipment and transfer data when used in the International Monitoring System and compatibility with the other equipment used in the station.

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Session Classification: P3.2 Radionuclide Technologies and Applications

Track Classification: Theme 3. Monitoring and On-Site Inspection Technologies and Techniques: T3.2 Radionuclide Technologies and Applications