ID: Type: **Poster**

T4.1-P13. Monitoring of radionuclides in aerosols. Different approaches and optimisation

Different approaches and philosophy can be applied for measurements of concentrations of radionuclides in the environment and evaluation of results. Usually the frequency and requirements for precision is the subject of following usage of results and decisions that are done with reference to these results. As example, the different approach for reliability and verification of data of radionuclides in aerosols, also accessibility of measured results for wide society, applied by different international institutions, such as CTBTO and EC, can be presented. Other important issues are: who takes responsibility of data reliability; who makes some actions in the case; if results are used for tracking of banned activities, other possible events (accidental or planned releases from nuclear objects or medical facilities, etc.) or just knowing of general situation. The last, but not the least issue is availability of resources - technical, human and financial. Usually high reliability of results costs much, so all the factors should be always carefully evaluated and the most optimal variant, however without losing of reliability and efficiency, chosen.

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Track Classification: 4. Performance Optimization