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of a Regional Radionuclide Measurement Network in Eastern Europe

The development of a radionuclide measurement network can present many challenges including decisions regarding sensor location, sensor types, deployment, data flow, analysis and interpretation. Pacific Northwest National Laboratory (PNNL) with support of the Ukraine Task Force (UTF) of the National Nuclear Security Administration (NNSA) and many partners is working to create a radionuclide detection network in eastern Europe. The purpose of the network is to detect and characterize nuclear incidents in the region in support of consequence management, dose assessment and emergency response. Although there are existing sensors in the region, the focus of this effort is to provide collected samples (both gas and particulate) and isotopic information that will be needed to enhance the understanding of nuclear events such as small nuclear reactor leaks. This presentation will discuss the development of the network to include site selection, equipment and early measurements.

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