

International Conference on the Management of Naturally Occurring Radioactive Materials (NORM) in Industry



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Representative sampling of NORM-contaminated construction waste

Tailoring of a NORM-contaminated construction waste sampling plan to obtain representative samples for radionuclide concentration analysis that will produce reliable results for the compliance assessment against regulatory release criteria. Random stratified sampling design is used for compliance-testing of a large amount of construction waste generated during the demolition of a NORM-facility. The paper covers the statistical basis of the sampling plan and pseudorandom sub-sampling pattern generation per permissible averaging masses. In addition, the paper also reflects the practical side of field sampling, such as the selection of sampling tools, machinery for handling large quantities of waste, and homogenization of the composite samples.

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