International Conference on Radioactive Waste Management: Solutions for a Sustainable Future
1–5 November 2021, Vienna, Austria

Contribution ID: **277**   Type: **POSTER**

Development of a Catalogue of Characterization Methodologies for Demonstrating Compliance with Waste Acceptance Criteria

The safe management and disposal of low and intermediate level radioactive waste requires accurate and quality assured characterization by non-destructive and destructive methods, and determination of the radionuclide inventory, chemical, physical properties in the different steps of waste management. Relevant procedures, standards and practices have been developed and continue to be refined in waste characterisation facilities in Member States. Sharing of information between facilities and practitioners underpin the ongoing development of such procedures, standards and practices. The International Network of Laboratories for Nuclear Waste Characterization (LABONET) is focusing its attention on proven practices and successful implementation. During the 2019 LABONET Technical Meeting held in parallel with the LABONET Steering Committee Consultancy Meeting, attended by more than 60 participants from 25 Member States, it was decided to start with the implementation of the project "Catalogue of methodologies for demonstrating compliance with Waste Acceptance Criteria (WAC)".

This paper will discuss the following issues: 1) Aim of the Catologue; 2) The general and typical requirements of WAC; 2) Category of requirement items; 3) Items for considering WAC; 4) Executors of verifications; 5) The work plan and potential working groups to establish the Catologue; 6) Example of appropriate waste characterization method; 7) A concept of a questionnaire of the "List of aspects relevant to radioactive waste package acceptance criteria" to be send to WMO's in order to collect the information for establishing the Catalogue of methodologies.

KEYWORDS: Waste Acceptance criteria, methodologies, IAEA-LABONET

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Session Classification: Solutions for Specific Wastes

Track Classification: 3. Solutions for Specific Wastes

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