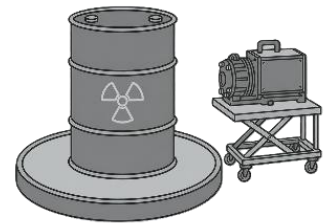


In-situ Non-Destructive Assay (NDA) and Radiometric Characterisation Services

Radiometric characterisation techniques enable the identification and quantification of radionuclides in a wide range of operational and environmental settings.



Radiometric solutions

At Amentum, we have developed the GammaHive Suite, an innovative suite of radiometric detectors and deployment configurations that provide flexible, tailored solutions.

The GammaHive Suite includes modular frame systems supporting multiple configurations of Low-Resolution Gamma Spectrometry (LRGS) detectors and a large volume sodium iodide detector for our Digger-Bucket Monitor (DBM).

Amentum also has High Resolution Gamma Spectrometry (HRGS) capability, a turntable system for bulk waste analysis, and a radiometrics-dedicated ISO for site deployment.

Our Services

Amentum's specialist radiometric NDA services within the Radiation Protection & Characterisation (RP&C) team form part of our broader decommissioning, decontamination and waste management capabilities.

Our approach ensures that radiometric measurements are technically robust, proportionate to the task and aligned with regulatory, and stakeholder

NDA involves analysing materials without altering their physical or chemical form. Amentum uses gamma spectrometry systems to characterise radioactive materials and wastes, alongside the site-specific radiological fingerprint to assess non-gamma-emitting radionuclides.

By deploying instrumentation directly on-site, we provide rapid and reliable characterisation in situations where conventional sampling and laboratory analysis impractical. This reduces programme costs and schedules while supporting the safe and effective management of radioactive materials and wastes across a wide range of operational and environmental settings.

requirements. Our radiometric services include:

- Design and manufacture of bespoke radiation monitoring and assay systems
- In-situ measurements with a range of gamma spectrometry systems
- Deployment of our mobile laboratory facilities to facilitate measurements in the field
- Detector response modelling and efficiency calibration using industry

standard codes such as MCNP and ISOCs

- Advanced data processing, spectral analysis and interpretation
- Provision of experienced health-physics personnel and radiation monitoring equipment to support site operations

We are committed to delivering high-quality services and can tailor our solutions to suit the specific technical and operational requirements of each of our clients.

Our Experience

The RP&C team at Amentum has extensive experience in applied health physics, radiometric characterisation, radiation protection, and the management of radioactive materials and wastes.

We have delivered projects of varying scale and complexity across the nuclear and non-nuclear sectors. Our proven capability in developing bespoke systems includes:

- Conveyor belt system of LRGS detectors for radium analysis in large volumes of material
- DBM for screening of Cs-137 contaminated soil
- Bulk waste analysis using GammaHive and the turntable for land contaminated with depleted uranium and radium

Contact

To discuss your requirements in confidence or for more information on the services we can provide, please contact:

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