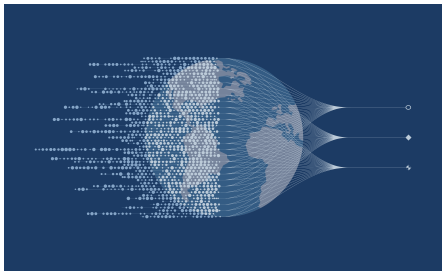

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Radionuclide and Noble Gas techniques development plan past IFE

This paper presents a draft development plan for Radionuclide Techniques in On-Site Inspections (OSI) for the years 2025-2027. It outlines key areas of focus, including improvements in subsoil gas sampling methods, the integration of meteorological data into analysis, and advancements in software for data processing. The plan emphasizes the need for enhanced usability of sampling equipment, proposing alternatives to traditional Geoprobe systems, such as lightweight manual direct push equipment and compact Geoprobe-like systems for various soil conditions. Additionally, the paper discusses the importance of tamper-proofing field sampling equipment to ensure the Continuity of Knowledge (CoK) on collected samples. It highlights the necessity of assessing large volume detectors and integrating new technologies into existing OSI frameworks. The development steps outlined include training for OSI staff, feasibility assessments for new sampling techniques, and the establishment of maintenance and obsolescence management plans for existing equipment. Overall, this plan aims to streamline OSI processes, reduce health and safety risks, and enhance the effectiveness of radionuclide detection and analysis in the context of OSI.

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