₩ISO/TC 85/SC 2

Secretariat: AFNOR

Date: 2025-05-03xx

Tritium and carbon-_14 activity in gaseous effluents and gas discharges of nuclear installations-____

Part 2:

Determination of tritium and carbon-14 activities sampled by bubbling technique

Activité du tritium et du carbone 14 dans les effluents gazeux et les rejets gazeux des installations nucléaires —

Partie 2: Détermination des activités du tritium et du carbone 14 prélevés par la technique du barbotage

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This document was prepared by Technical Committee ISO/TC 85, *Nuclear energy, nuclear technologies, and radiological protection*, Subcommittee SC 2, *Radiological protection*.

A list of all parts in the ISO 20041 series can be found on the ISO website.

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Introduction

Discharges from nuclear installations are subject to regulatory requirements established by various regulatory bodies. Rigorous control of the discharges is implemented within the framework of water and air discharge permits. In particular, this involves making measurements of the physical, chemical and radioactivity characteristics in the gaseous and liquid effluents. The decommissioning of these nuclear installations also generates liquid and gaseous effluents that should be characterized and quantified before their discharge.

Therefore, the ISO 20041 series go further by addressing, in detail, the provisions specific to sampling methods, and sample preparation and calculations for determining the tritium and carbon—14 emissions. ISO 20041-100 covers the sampling methods or techniques for tritium and carbon—14. This document covers activity analysis of tritium and carbon-14 sampled emissions by the bubbling technique.

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