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Measurement of radioactivity in the environment — Soil —

Part 1: General guidelines and definitions

Mesurage de la radioactivité dans l'environnement — Sol —

Partie 1: Lignes directrices générales et définitions



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 18589-1 was prepared by Technical Committee ISO/TC 85, *Nuclear energy*, Subcommittee SC 2, *Radiation protection*.

ISO 18589 consists of the following parts, under the general title *Measurement of radioactivity in the environment — Soil*:

— *Part 1: General guidelines and definitions*

The following parts are under preparation:

— *Part 2: Sampling strategy, sampling, and pre-treatment of samples*

— *Part 3: Measurements of gamma emitting radionuclides*

— *Part 4: Measurement of plutonium by alpha spectroscopy*

— *Part 5: Measurements of strontium 90*

— *Part 6: Measurements of gross alpha and gross beta activities*

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Introduction

This document was prepared following discussions during meetings of WG 17 in Tokyo 2000-05-8/10, Recife 2001-09-17/19, Paris 2002-01-15/16, Paris 2002-03-26/27, Rinhals 2002-05-27/29, Paris 2002-10-14/15, Paris 2003-03-03/04, Paris 2003-06-16/17 and Paris 2003-12-08/09.

This part of ISO 18589 has been prepared simultaneously with five other parts concerning the measurements of radioactivity in the soil environment, and is complementary to the latter documents.

ISO 18589 Parts 1 to 6 are addressed to those responsible for determining the radioactivity present in soils. This International Standard is published in several parts to be used jointly or separately according to needs. Parts 1 and 2 are general in nature. Parts 3 to 5 deal with nuclide-specific measurements, Part 6 with non-specific measurements of gross alpha or gross beta activities.

Further parts may be added to this International Standard in the future if the standardization of measurements of other radionuclides becomes necessary.