National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60761-2:2004

ICS 13.280

EQUIPMENT FOR CONTINUOUS MONITORING RADIOACTIVITY IN GASEOUS EFFLUENTS PART 2: SPECIFIC REQUIREMENTS FOR AEROSOLS MONITORS INCLUDING TRANSURANIC AEROSOLS (IEC 60761-2:2002, MODIFIED)

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
http://www.nsai.ie

Sales
http://www.standards.ie

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:

January 19, 2005

Price Code Q

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD **EN 60761-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM December 2004

ICS 13.280

English version

Equipment for continuous monitoring radioactivity in gaseous effluents Part 2: Specific requirements for aerosols monitors including transuranic aerosols

(IEC 60761-2:2002, modified)

Equipements de surveillance en continu de la radioactivité dans les effluents gazeux Partie 2: Exigences particulières aux moniteurs d'aérosols radioactifs, y compris les aérosols transuraniens (CEI 60761-2:2002, modifiée)

Einrichtungen zur kontinuierlichen Überwachung von Radioaktivität in gasförmigen Ableitungen Teil 2: Besondere Anforderungen an Monitore für radioaktive Aerosole einschließlich Transuranaerosole (IEC 60761-2:2002, modifiziert)

This European Standard was approved by CENELEC on 2004-11-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Ref. No. EN 60761-2:2004 E

Foreword

The text of the International Standard IEC 60761-2:2002, prepared by SC 45B, Radiation protection instrumentation, of IEC TC 45, Nuclear instrumentation, together with the common modifications prepared by the CENELEC BTTF 111-3 Instrumentation for ionizing radiation measurement and protection, was submitted to the formal vote and was approved by CENELEC as EN 60761-2 on 2004-11-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2005-11-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2007-11-01

Annex ZA has been added by CENELEC.

_____

Endorsement notice

The text of the International Standard IEC 60761-2:2002 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

5 Sampling and detection assembly

5.1 **Replace** the title by:

5.1 Air delivery system including the pump

5.3 Particle collection efficiency

Add the following note:

NOTE Accuracy and sensitivity of the measurement depends on the collection efficiency of the filter material as well as on the free passing of the components not to be retained. If the gas flow rate is 10 % lower than its nominal value, the collecting media is to be replaced by a new one.

13 Radiation performance tests

Delete the second paragraph.

13.1 Dynamic tests

Add the following as a first paragraph:

These tests shall be undertaken under standard test conditions and shall be carried out with air (or gas) flow rate.

13.7 Variation of the detection efficiency as a function of alpha radiation energy (alpha monitors)

Replace by:

13.7 Variation of the detection efficiency as a function of alpha radiation energy (alpha monitors)

Tests of detection efficiency variation with alpha energy are not required.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
-	-	Limits and methods of measurement of radio disturbance characteristics of information technology equipment	EN 55022	1994 [1)]
IEC 60068-2-27	1987	Basic environmental testing procedures Part 2: Tests - Test Ea and guidance: Shock	EN 60068-2-27	1993
IEC 60761-1 (mod)	2002	Equipment for continuous monitoring radioactivity in gaseous effluents Part 1: General requirements	EN 60761-1	2004
IEC 61000	Series	Electromagnetic compatibility (EMC)	EN 61000	Series
IEC 61578	1997	Radiation protection instrumentation - Calibration and verification of the effectiveness of radon compensation for alpha and or/beta aerosol measuring instruments - Test methods	-	-
EN 481	1993	Workplace atmospheres - Size fraction definitions for measurement of airborne particles	-	-

1) EN 55022:1994 is superseded by EN 55022:1998.