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Standard Recommendation
S.R. CEN/TR 16478:2012

Surveillance from first commissioning on measuring devices used in natural gas supply to the installations of the activities under the Directive 2003/87/EC establishing a scheme of CO₂ emissions trading

S.R. CEN/TR 16478:2012

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

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English Version

**Surveillance from first commissioning on measuring devices
used in natural gas supply to the installations of the activities
under the Directive 2003/87/EC establishing a scheme of CO₂
emissions trading**

Surveillance de la mise en service des appareils de mesure
utilisés pour la fourniture de gaz naturel aux installations
pour les activités sous la Directive 2003/87/CE établissant
un schéma d'échange d'émissions de CO₂

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (CEN/TR 16478:2012) has been prepared by “CEN Sector Forum Gas Infrastructure”.

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

The document C(2007) 3416 — COMMISSION DECISION of 18 July 2007 (2007/589/EC) establishing guidelines for the monitoring and reporting of greenhouse gas emissions pursuant to Directive 2003/87/EC of the European Parliament and of the Council [15] — will be used as common guidelines in the determination of the greenhouse gas emissions for all categories of activities listed in the Annex I of the Directive itself.

In the fifth paragraph of Clause 3, these guidelines establish that “It shall be ensured that the emission determination is systematically neither over nor under true emissions. Sources of uncertainties shall be identified and reduced as far as practicable. (...) All metering or other testing equipment used to report monitoring data shall be appropriately applied, maintained and calibrated, and checked.”

This Technical Report is intended to be used as a guideline in conjunction with the document C(2007) 3416 and to be applied to measuring instruments of natural gas measuring stations based on EN 1776, and possibly stand alone measuring instruments measuring the natural gas used in the categories of activities listed in the Annex I of the Directive 2003/87/EC.

Within the European Union, at the time of writing, there was no common guideline dealing with how to ensure an established difference of indication of a natural gas metering equipment in the use throughout their technical life. The associated risk: to manage the greenhouse gas emissions data declared by different Member States that are not completely comparable because of their determination by calculations based on consumption of natural gas data not homogeneous with regard to the reliability of the accuracy of their measurements.

The intent of this Technical Report is to give minimum provisions for surveillance in the use of natural gas measuring equipment in order to ensure compliance with an established difference of indication, leading to comparable greenhouse gas emissions data.

Furthermore, it is a proposal addressed to the Commission and the Member States to reflect on a consistent procedure that would enable an equivalent determination of the CO₂ amounts of emissions across the EU countries.

1 Scope

This Technical Report establishes minimum provisions for the surveillance, based on available standards from first commissioning, of devices and systems with measuring function throughout their technical life when used in the activities of the categories listed in the Annex I of the European Directive 2003/87/EC. It does so in order to ensure the compliance with the expected maximum allowable difference of indication.

This Technical Report applies to devices/systems with the function to measure:

- volumetric or mass amount of natural gas consumption (any type of gas meters),
- volumetric amount of natural gas consumption at specified base conditions (conversion devices),
- composition of natural gas (gas chromatographs),

for calculating, in accordance with the applicable provisions of the guidelines C(2007) 3416, the amount of the CO₂ emissions from the source stream of natural gas.

Users of this document should be aware that more detailed national recommendations/standards and/or codes of practice as well as national measures possibly approved by National Regulator may exist inside the EU Member States.

When national regulations have to be applied, this document should not be considered.

Except in the aforementioned case, this Technical Report is intended to be applied in association with applicable national recommendations/standards and/or codes of practice setting out the above mentioned surveillance provisions.

In the event of conflict in terms of different requirements in national regulations/standards and in the provisions of this document, the national regulations/standards will take precedence.

Referring to the aforesaid Commission's guidelines C(2007) 3416, SFG_I opts for the calculation based method to determine the amount of the CO₂ emissions.

Regarding commercially traded of natural gas, competent authorities may permit the determination of the annual gas consumption leading to evaluation of CO₂ emissions based solely on the invoiced amount of gas without further individual proof of associated uncertainties, provided that national legislation or the documented application of standards ensures that respective uncertainty requirements for activity data are met for commercial transactions (guidelines C(2007) 3416 -annex 1 §7).

Referring to 5.2 and to Chapter 16, annex 1 of guidelines C(2007) 3416, for installations with “de minimis” source streams and with low emissions respectively, the provisions of this document can be waived.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE The pilot terms are listed in alphabetic order. The derived terms from a pilot term, if any, are listed in the appropriate order just after the relevant pilot term.

2.1

competent person

person who is trained, experienced and approved to perform measuring surveillance activities

[SOURCE: EN 12186:2000, modified]

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