

Irish Standard I.S. EN 15399:2018

Gas infrastructure - Safety Management System for Gas Networks with maximum operting pressure up to and including 16 bar

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I.S. EN 15399:2018

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NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
 W NSAI.ie
 W standards.ie

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National Foreword

I.S. EN 15399:2018 is the adopted Irish version of the European Document EN 15399:2018, Gas infrastructure - Safety Management System for Gas Networks with maximum operting pressure up to and including 16 bar

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EUROPEAN STANDARD

EN 15399

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Supersedes CEN/TS 15399:2007

English Version

Gas infrastructure - Safety Management System for Gas Networks with maximum operting pressure up to and including 16 bar

Infrastructures gazières - Systémes de management de sécurité pour des reseaux de gaz pour pression maximale de service inférieure ou égale à 16 bar Gasinfrastruktur - Sicherheits-Management System für Gasnetze mit maximalem Betriebsdruck bis einschließlich 16 bar

This European Standard was approved by CEN on 26 October 2018.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 15399:2018 (E)

Con	tents	Page
Europ	oean foreword	4
Intro	duction	5
1	Scope	<i>6</i>
2	Normative references	
2	Terms and definitions	
3		
4 4.1	Context of the organization	9
4.1 4.2	Understanding the organization and its context	
4.3	Safety Management System (SMS)	
4.3.1	General	
4.3.2	Determining the scope of the SMS	
5	Leadership	10
5.1	Leadership and commitment	
5.2	Policy	
5.3	Organizational roles, responsibilities and authorities	11
6	Planning of the SMS	11
6.1	Actions to address risks and opportunities	
6.1.1	Safety risk management	
6.1.2	Legal and other requirements	
6.2	SMS objectives and planning to achieve them	12
7	Support of the SMS	13
7.1	Resources	
7.2	Competence	
7.3	Awareness	
7.4	Communication	
7.5 7.5.1	Documented information of the SMSGeneral	
7.5.1 7.5.2	Creating and updating	
7.5.3	Control of documented information	
8	Operation of the SMS	14
8.1	Operational planning and control of the SMS	
8.1.1	General	
8.1.2	Design of the gas distribution infrastructure	
8.1.3	Construction, commissioning and decommissioning of the gas distribution	
	infrastructure	
8.1.4	Operation of the gas distribution infrastructure	
8.1.5	Maintenance of the gas distribution infrastructure	
8.1.6 8.1.7	Gas infrastructure permanently out of service Emergency plans	
8.1.7 8.1.8	Outsourcing and purchasing	
8.1.9	Innovation and improvement	
8.2	Performance evaluation Monitoring, measurement, analysis and evaluation	
8.2.1	Performance evaluation framework	

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EN 15399:2018 (E)

8.2.2	Evaluation of compliance	23
8.3	Internal Audit	23
8.3.1	Purpose of internal audits	23
8.3.2	Program and implementation of internal audits	
8.4	Management Review	24
8.5	Documentation	24
9	Improvement of the SMS	24
9.1	Non-conformity and corrective action	24
9.2	Gas network operatorContinual improvement	25
Anne	x A (informative) Plan-Do-Check-Act (PDCA) methodology	26
Biblio	ography	27

EN 15399:2018 (E)

European foreword

This document (EN 15399:2018) has been prepared by Technical Committee CEN/TC 234 "Gas infrastructure", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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

This document supersedes CEN/TS 15399:2007.

There is a complete suite of functional standards prepared by CEN/TC 234 "Gas infrastructure" to cover all parts of the gas infrastructure system from the input of gas to the distribution infrastructure starting at the boundary of the delivery station on the premises of the gas gas network operator, up to the point of delivery of the customers, whether domestic, commercial or industrial.

In preparing this document, a basic understanding of Management Systems and gas infrastructure by the user has been assumed.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document provides guidance on the establishment, implementation and maintenance of a safety management system, all in order to provide an efficient gas distribution infrastructure for the safe and secure distribution of gas; specifically, infrastructure operating at pressures up to and including 16 bar.

The provisions refer to a general organisational scheme in which:

- safety and
- efficiency

of gas distribution activity are addressed.

This European Standard supports a gas network operator in the implementation of a management system following the Plan-Do-Check-Act (PDCA) methodology (see Annex A). It can be used in conjunction with ISO Management Systems and also in case of assessment or certification by a third party.

The main objectives of this document are to provide the necessary requirements:

- to be included in a management system related to safety and efficiency of technical activities (design, construction, testing and commissioning/decommissioning, operation and maintenance, abandonment) for all of the gas network operator's gas distribution assets. In practice, this is expressed on methodologies and organisational features as well as technical aspects:
- in demonstrating the competencies required in the activities mentioned above.

It is at the gas network operator's discretion to include other objects and structures in their own management system.

This European Standard also deals with the required competences for employees and any contractors involved in gas distribution activities.

The structure of this document is based on the ISO High Level Structure of standard on Management Systems (ISO/IEC Directives, Part 1, Consolidated ISO Supplement, 2015, Annex SL (normative) Proposals for management system standards).

The technical contents are in line with EN 12007 (all parts).

EN 15399:2018 (E)

1 Scope

This document specifies requirements on the development and implementation of a safety management system for operators of a gas network with a maximum operating pressure up to and including 16 bar according to EN 12007 (all parts).

This document refers to all activities and processes related to safety aspects and performed by gas operators of a gas network with a maximum operating pressure up to and including 16 bar, including those activities entrusted to contractors. It includes safety-related provisions on operation of the gas network.

The described safety management system is applicable to infrastructure for the distribution of processed, non-toxic and non-corrosive gas of the 2nd gas family as classified in EN 437, including injected gases from non-conventional sources.

NOTE 1 Gases from non-conventional resources can be bio methane, hydrogen, shale gas, synthetic gases and others.

This document can also apply for gas infrastructure conveying only gases from non-conventional sources, such as bio methane grids or gases of the 3rd family as classified in EN 437.

For safety management and pipeline integrity management systems of gas networks with a maximum operating pressure above 16 bar generally EN 16348 applies.

NOTE 2 If minor sections of the gas network are operated with a maximum operating pressure above 16 bar, these can also be managed by an SMS according to this document. For the pipeline integrity management EN 16348 applies.

NOTE 3 If minor sections of a gas transmission network are operated with a maximum operating pressure up to and including 16 bar, this document or EN 16348 can be applied. In any case, for the pipeline integrity management system EN 16348 applies.

Specific requirements for occupational health and safety are excluded from this document. National legislation and other European and/or international standards, e.g. OHSAS 18001, apply.

This document specifies common basic principles for gas infrastructure. It is important that users of this standard are aware that more detailed national standards and/or code of practice may exist in the CEN member countries. This document is intended to be applied in association with these national standards and/or codes of practice setting out the above-mentioned basic principles.

In the event of conflicts in terms of more restrictive requirements in national legislation/regulation with the requirements of this standard, the national legislation/regulation takes precedence as illustrated in CEN/TR 13737 (all parts).

NOTE 4 CEN/TR 13737 (all parts) contains:

- clarification of relevant legislation/regulations applicable in a country;
- if appropriate, more restrictive national requirements;
- national contact point for the latest information.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.



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