



SLOVENSKI STANDARD SIST EN ISO 13702:2024

01-junij-2024

Naftna in plinska industrija - Nadzor in zaježitev požarov in eksplozij na plavajočih proizvodnih objektih - Zahteve in smernice (ISO 13702:2024)

Oil and gas industries - Control and mitigation of fires and explosions on offshore production installations - Requirements and guidelines (ISO 13702:2024)

Erdöl- und Erdgasindustrie - Überwachung und Eindämmung von Feuer und Explosionen auf Offshore-Produktionsplattformen - Anforderungen und Leitlinien (ISO 13702:2024)

Industries du pétrole et du gaz - Contrôle et atténuation des feux et des explosions dans les installations en mer - Exigences et lignes directrices (ISO 13702:2024)

Ta slovenski standard je istoveten z: EN ISO 13702:2024

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ICS:

13.220.01	Varstvo pred požarom na splošno	Protection against fire in general
75.180.10	Oprema za raziskovanje, vrtanje in odkopavanje	Exploratory, drilling and extraction equipment

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en,fr,de

EUROPEAN STANDARD

EN ISO 13702

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 13.220.01; 75.180.10

Supersedes EN ISO 13702:2015

English Version

Oil and gas industries - Control and mitigation of fires and explosions on offshore production installations - Requirements and guidelines (ISO 13702:2024)

Industries du pétrole et du gaz - Contrôle et atténuation des feux et des explosions dans les installations en mer - Exigences et lignes directrices(ISO 13702:2024)

Erdöl- und Erdgasindustrie - Überwachung und Eindämmung von Feuer und Explosionen auf Offshore-Produktionsplattformen - Anforderungen und Leitlinien (ISO 13702:2024)

This European Standard was approved by CEN on 6 March 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 13702:2024) has been prepared by Technical Committee ISO/TC 67 "Oil and gas industries including lower carbon energy" in collaboration with Technical Committee CEN/TC 12 "Oil and gas industries including lower carbon energy" the secretariat of which is held by NEN.

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 September 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

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.

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**International
Standard**

ISO 13702

**Oil and gas industries — Control
and mitigation of fires and
explosions on offshore production
installations — Requirements and
guidelines**

*Industries du pétrole et du gaz — Contrôle et atténuation des
feux et des explosions dans les installations en mer — Exigences
et lignes directrices*

**Third edition
2024-03**

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*, Subcommittee SC 6, *Process equipment, piping, systems, and related safety*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 12, *Oil and gas industries including lower carbon energy*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 13702:2015), which has been technically revised.

The main changes are as follows:

- visualized the risk treatment process in a flow diagram in [5.8](#);
- improved description of the explosion blast description in [Clause A.3](#);
- improved guidance with respect to risk mitigation in [Clause B.1](#);
- introduction of ESD hierarchy and guidance related to principles to protect pressurised equipment against fire in [Clause B.2](#);
- improved guidance on ignition source control in [Clause B.3](#);
- included guidance for control of spills related to floating LNG in [Clause B.4](#);
- expanded guidance related to gas detection in [Clause B.6](#);
- included guidance related to ignition source control for firewater pump drivers and external power supplies in [B.8.2](#);
- addressing personnel safety related to CO₂ or other asphyxiating gases in [B.8.11](#);
- introduced guidance related to passive fire-retarding surface for helidecks in [B.8.13](#);
- introduced guidance related to tests in [B.13](#);

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— introduced the terms A-class and H-class for fire barriers in [C.4.3](#).

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Introduction

The successful development of the arrangements required to promote safety and environmental protection during the recovery of hydrocarbon resources requires a structured approach to the identification and management of health, safety, and environmental hazards applied during the design, construction, commissioning, operation, inspection, maintenance, and decommissioning of a facility.

This document has been prepared primarily to assist in the development of new installations through their lifecycle.

The content of this document is arranged as follows.

- Objectives: lists the goals to be achieved by the control and mitigation measures being described.
- Functional requirements: represent criteria to meet the stated objectives. The functional requirements are performance-orientated measures and, as such, are applicable to the variety of offshore installations utilized for the development of hydrocarbon resources throughout the world.
- [Annex A](#): describes typical fire and explosion hazardous events.
- [Annex B](#): describes recognized practices that can be considered in conjunction with statutory requirements, industry standards, and individual operator philosophy to determine that the measures necessary are implemented for the control and mitigation of fires and explosions. The guidance is limited to principal elements and are intended to provide specific guidance which, due to the wide variety of offshore operating environments, cannot be applicable in some circumstances.
- [Annex C](#): describes typical examples of design requirements for large integrated offshore installations.

This document is based on an approach where the selection of control and mitigation measures for fires and explosions primarily caused from loss of containment is determined by an evaluation of hazards on the offshore installation. The methodologies employed in this assessment and the resultant recommendations differ depending on the complexity of the production process and facilities, type of facility (i.e. open or enclosed), staffing levels, and environmental conditions associated with the area of operation.

NOTE Requirements, rules, and regulations can, in addition, be applicable for the individual offshore installation concerned.

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