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Space systems — Oxygen safety —

Part 6: Facility planning and implementation

Systèmes spatiaux — Sécurité des systèmes d'oxygène —

Partie 6: Planification et mise en oeuvre des équipements

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 22538-6 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 14, *Space systems and operations*.

ISO 22538 consists of the following parts, under the general title *Space systems — Oxygen safety*:

— *Part 1: Design of oxygen systems and components*

— *Part 2: Selection of metallic materials for oxygen systems and components*

— *Part 3: Selection of non-metallic materials for oxygen systems and components*

— *Part 4: Hazards analyses for oxygen systems and components*

— *Part 5: Operational and emergency procedures*

— *Part 6: Facility planning and implementation*

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Introduction

This part of ISO 22538 describes a process to ensure the protection and safety of personnel and equipment associated with oxygen systems and components.

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Space systems — Oxygen safety —

Part 6:
Facility planning and implementation

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1 Scope

This part of ISO 22538 describes a process to ensure the protection and safety of personnel and equipment associated with oxygen systems and components. This part of ISO 22538 applies to ground support equipment, launch vehicles and spacecraft.

2 Normative references

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.

ISO 22538-5, *Space systems — Oxygen safety — Part 5: Operational and emergency procedures*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 22538-5 and the following apply.

3.1.1
revetment
facing of masonry for protecting an embankment

3.2 Abbreviated terms

GOX gaseous oxygen

LOX liquid oxygen

NPSP net positive suction pressure

NTP normal temperature and pressure

TNT trinitrotoluene

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