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Space systems — General test requirements for launch vehicles

Systèmes spatiaux — Exigences générales d'essai pour véhicules lanceurs



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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 Maison 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 applied 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 24917 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 14, *Space systems and operations*.



Introduction

This International Standard provides space launch vehicle customers, contractors and manufacturers with general requirements for test types and programmes for space launch vehicles and rocket units (modules) to be used in the documentation associated with their test activity.

This International Standard is intended to help reduce the development time and cost of space launch vehicles and rocket units, and to enhance their quality and reliability through the use of common, optimized and approved requirements in the space launch vehicle test scope and organization.

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Space systems — General test requirements for launch vehicles

1 Scope

Standard establishes general test requirements for launch vehicles equipped with This International liquid-propellant engine launched from stationary ground-, sea- and air-based launchers, in all phases of their development.

2 Normative refere

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 14302, Space systems — Electromagnetic compatibility requirements

ISO 14303, Space systems — Launch-vehicle to-spacecraft interfaces

Terms and definitions 3

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

3.1

space-rocket complex

set of a space vehicle or space launch vehicles with functional interconnected means and the constructions intended for transportation, storage, maintenance service, preserving and flight control of space launch vehicles on a trajectory of launching of payload

3.2

space rocket

space launch vehicle plus space nose section integration

3.3

space launch vehicle

component of the space rocket designed for payload injection in a pre-assigned trajectory or orbit

3.4

rocket unit

space launch vehicle stage including the upper stage vehicle, body, propulsion system, control systems or control system elements, rocket units separation aids and telemetry hardware

3.5

upper stage vehicle

upper stage of flight vehicle capable of injecting a space vehicle or vehicles into their orbit from the sub-orbital trajectory that resulted from operation of a launch vehicle