

Space product assurance - Quality and safety assurance
for space test centres

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 16602-20-07:2016 sisaldab Euroopa standardi EN 16602-20-07:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 16602-20-07:2016 consists of the English text of the European standard EN 16602-20-07:2016.
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English version

Space product assurance - Quality and safety assurance for space test centres

Assurance produit des projets spatiaux - Assurance de la qualité et de la sécurité pour les centres de test

Raumfahrtproduktsicherung - Sicherstellung von Qualität und Sicherheit in Raumfahrttestzentren

This European Standard was approved by CEN on 22 May 2016.

CEN and CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN and CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN and CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Foreword

This document (EN 16602-20-07:2016) has been prepared by Technical Committee CEN-CENELEC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16602-20-07:2016) originates from ECSS-Q-ST-20-07C.

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of an identical text or by endorsement, at the latest by February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

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.

This document supersedes EN 14736:2004.

The main changes with respect to EN 14736:2004 are listed below:

- new EN number and modified title,
- Reorganization of the content of the document to separate descriptive text and requirements, including clarification, modification of requirements and implementation of change requests,
- Transformation of the informative Annex C "Questionnaire on the use of hazardous items and operations" of the previous version into a Normative DRD in Annex A,
- Removal of all references to ISO 9001 paragraphs, replaced by requirement 5.1a, which makes applicable the complete EN 9100 standard,
- Increased focus on configuration control, traceability of the measurement chain, and dependability and safety of test facilities technical revision of content,

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any EN covering the same scope but with a wider domain of applicability (e.g. : aerospace).

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This standard was developed to ensure that space test centres working for European space projects operate a quality and safety assurance system in line with ECSS requirements, internationally recognised standards and best working practices.

This standard makes applicable the requirements of EN 9100:2009 and provides additional requirements specific to space test centres. The quality management system of the space test centre, or that of the organization of which it is part, is to be in conformance with these requirements.

This standard also incorporates requirements from ISO/IEC 17025:2005 that are considered applicable for space test centres working for space projects.

This standard does not make compulsory Certification of the space test centre against the requirements of the aforementioned standards by a recognised certification authority.

This standard was originally prepared with focus on organisations capable of providing test services for space and launch segment elements and subsystems.

1

Scope

This standard specifies quality assurance and safety assurance requirements for space test centres, applicable to the test process, test personnel (both, of the customer and the space test centre), test facilities, test environment and any operations related to the test specimen under responsibility of the space test centre as requested by the customer.

This standard may be tailored for the specific characteristic and constraints of a space project in conformance with ECSS-S-ST-00.

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Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this ECSS Standard. For dated references, subsequent amendments to, or revision of any of these publications do not apply. However, parties to agreements based on this ECSS Standard are encouraged to investigate the possibility of applying the more recent editions of the normative documents indicated below. For undated references, the latest edition of the publication referred to applies.

EN reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01	ECSS - Glossary of terms
EN 16603-10-03	ECSS-E-ST-10-03	Space engineering - Testing
EN 16602-10-09	ECSS-Q-ST-10-09	Space product assurance - Nonconformance control system
EN 16602-20	ECSS-Q-ST-20	Space product assurance - Quality assurance
EN 16602-20-08	ECSS-Q-ST-20-08	Space product assurance - Storage, handling and transportation of spacecraft hardware
EN 16602-70	ECSS-Q-ST-70	Space product assurance - Materials, mechanical parts and processes
EN 16602-70-01	ECSS-Q-ST-70-01	Space product assurance - Cleanliness and contamination control
	ISO 9000:2005	Quality management systems - Fundamentals and Vocabulary
	EN 9100:2009	Quality Management Systems - Requirements for Aviation, Space and Defense Organisations
	ISO/IEC 17025:2005	General requirements for the competence of testing and calibration laboratories
	ISO 10012:2003	Measurement management systems - Requirements for measurement processes and measuring equipment