SLOVENSKI STANDARD
kSIST-TP FprCEN/TR 17603-20-07:2021

01-oktober-2021

Vesoljska tehnika - Priročnik o elektromagnetni združljivosti

Space engineering - Electromagnetic compatibility handbook

Raumfahrttechnik - Handbuch zur elektromagnetischen Kompatibilität

Ingénierie spatiale - Manuel pour la compatibilité électromagnétique

Ta slovenski standard je istoveten z: **FprCEN/TR 17603-20-07**

ICS:

33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general
49.140	Vesoljski sistemi in operacije	Space systems and operations

kSIST-TP FprCEN/TR 17603-20-07:2021 **en,fr,de**

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

FINAL DRAFT
FprCEN/TR 17603-20-07

August 2021

ICS 49.140

English version

Space engineering - Electromagnetic compatibility handbook

Ingénierie spatiale - Manuel pour la compatibilité électromagnétique

Raumfahrttechnik - Handbuch zur elektromagnetischen Kompatibilität

This draft Technical Report is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/CLC/JTC 5.

CEN and CENELEC members are the national standards bodies and national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a Technical Report. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a Technical Report.

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

Table of contents

Figures

Tables

European Foreword

This document (FprCEN/TR 17603-20-07:2021) has been prepared by Technical Committee CEN/CLC/JTC 5 “Space”, the secretariat of which is held by DIN.

It is highlighted that this technical report does not contain any requirement but only collection of data or descriptions and guidelines about how to organize and perform the work in support of 16603-20.

This Technical report (FprCEN/TR 17603-20-07:2021) originates from ECSS-E-HB-20-07A.

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 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 TR covering the same scope but with a wider domain of applicability (e.g.: aerospace).

This document is currently submitted to the CEN CONSULTATION.

Introduction

The purpose of the present handbook is to support the use of ECSS-E-ST-20-07C. It aims at providing practical and helpful information for electromagnetic compatibility (EMC) in the development of space equipment and systems.

It gathers EMC experience, know-how and lessons-learnt from the European Space Community with the intention to assist project groups and individual implementers.

1 Scope

The objective of this EMC Handbook is to point out all the issues relevant to space systems EMC, to provide a general technical treatment and to address the interested reader to more thorough and in-depth publications.

NOTE It is possible to find fundamental and advanced treatment of many aspects related to EMC: many universities offer courses on EMC and a large number of textbooks, papers and technical documents are available. Therefore replicating in this Handbook the available knowledge is impractical and meaningless.

Emphasis is given to space systems EMC design, development and verification, and specifically to the practical aspects related to these issues.

NOTE This has been possible thanks to the collaboration of space industry, especially on items which are not textbook issues and whose solution needs the widespread experience gained in large number of projects.