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Space engineering - Space environment

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Normcommissie 345030 "Lucht- en ruimtevaart"

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EUROPEAN STANDARD

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FINAL DRAFT
FprEN 16603-10-04

June 2013

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Will supersede EN 14092:2002

English version

Space engineering - Space environment

Ingénierie spatiale - Environnement spatial

Raumfahrttechnik - Raumfahrtumweltbedingungen

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/CLC/TC 5.

If this draft becomes a European Standard, 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.

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Table of contents

Figures

Tables

Foreword

This document (FprEN 16603-10-04:2013) has been prepared by Technical Committee CEN/CLC/TC 5 “Space”, the secretariat of which is held by DIN (Germany).

This document (FprEN 16603-10-04:2013) originates from ECSS-E-ST-10-04C.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 14092:2002.

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

Introduction

This standard forms part of the System Engineering branch (ECSS-E-10) of the Engineering area of the ECSS system. As such it is intended to assist in the consistent application of space environment engineering to space products through specification of required or recommended methods, data and models to the problem of ensuring best performance, problem avoidance or survivability of a product in the space environment.

The space environment can cause severe problems for space systems. Proper assessment of the potential effects is part of the system engineering process as defined in ECSS-E-ST-10. This is performed in the early phases of a mission when consideration is given to e.g. orbit selection, mass budget, thermal protection, and component selection policy. As the design of a space system is developed, further engineering iteration is normally necessary with more detailed analysis.

In this Standard, each component of the space environment is treated separately, although synergies and cross-linking of models are specified. Informative annexes are provided as explanatory background information associated with each clause.

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