SLOVENSKI STANDARD
oSIST prEN 16602-10-09:2018

01-september-2018

Zagotavljanje varnih proizvodov v vesoljski tehniki - Sistem kontrole neskladnosti

Space product assurance - Nonconformance control system

Raumfahrtproduktsicherung - Nichtkonformitäts-/Abweichungs-Kontrollsystem

Assurance produit des projets spatiaux - Instruction et traitement des anomalies

Ta slovenski standard je istoveten z: **prEN 16602-10-09**

ICS:

03.120.99	Drugi standardi v zvezi s kakovostjo	Other standards related to quality
49.140	Vesoljski sistemi in operacije	Space systems and operations

oSIST prEN 16602-10-09:2018 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 49.140

Will supersede EN 16602-10-09:2014

English version

Space product assurance - Nonconformance control system

Assurance produit des projets spatiaux - Instruction et traitement des anomalies

Raumfahrtproduktsicherung - Nichtkonformitäts-/Abweichungs-Kontrollsystem

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/CLC/JTC 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.

This draft European Standard was established by CEN and CENELEC 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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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.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 European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

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European Foreword

This document (prEN 16602-10-09:2018) has been prepared by Technical Committee CEN/CLC/TC 5 “Space”, the secretariat of which is held by DIN (Germany).

This document (prEN 16602-10-09:2018) originates from ECSS-Q-ST-10-09C Rev.1.

This document is currently submitted to the CEN ENQUIRY.

This document will supersede EN 16602-10-09:2014.

The main changes with respect to EN 16602-10-09:2014 are listed below:

- Implementing several change requests to update requirements and align the standard with other documents in the ECSS-system
- Addition of clause 3.4 :"Nomenclature"
- Correction of Figure 4-1
- Deletion of former clause 6 "Special nonconformance control requirements"

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

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

1
Scope

This Standard defines the requirements for the control of nonconformances.

This Standard applies to all deliverable products and supplies, at all levels, which fail to conform to project requirements.

This Standard is applicable throughout the whole project lifecycle as defined in ECSS-M-ST-10.

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

2
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 system – Glossary of terms
EN 16602-20	ECSS-Q-ST-20	Space product assurance – Quality assurance
	ESCC 22800	EEE Nonconformance control system

3
Terms, definitions and abbreviated terms

3.1 Terms from other standards

For the purpose of this Standard, the terms and definitions from ECSS-ST-00-01 and ECSS-Q-ST-20 apply, in particular for the following terms:

alert

corrective action

critical item

customer

deviation

inspection

nonconformance

preventive action

repair

requirement

rework

supplier

technical expert

verification

waiver

3.2 Terms specific to the present standard

3.2.1 major nonconformances

nonconformances which can have an impact on the customer's requirements in the following areas and cases:

- safety of people or equipment,
- operational, functional or any technical requirements imposed by the business agreement,
- reliability, maintainability, availability,

- lifetime,
- functional or dimensional interchangeability,
- interfaces with hardware or software regulated by different business agreements,
- changes to or deviations from approved qualification or acceptance test procedures,
- project specific items which are proposed to be scrapped.

3.2.2 minor nonconformances

nonconformances which by definition cannot be classified as major

NOTE For example, the following EEE discrepancies after delivery from the manufacturer can be classified as minor:

- random failures, where no risk for a lot-related reliability or quality problem exists;
- if the form, fit or function are not affected;
- minor inconsistencies in the accompanying documentation.

3.3 Abbreviated terms

For the purpose of this Standard, the abbreviated terms from ECSS-S-ST-00-01 and the following apply:

Abbreviation	Meaning
CIDL	configuration item data list
CIL	critical-item list
COTS	commercial off-the-shelf
DJF	design justification file
ECSS	European Cooperation for Space Standardization
EEE	electrical, electronic, electromechanical
FMECA	failure mode effect and criticality analysis
NCR	nonconformance report
NRB	nonconformance review board NOTE: Formerly known as MRB (material review board).
PA	product assurance
QA	quality assurance
RAMS	reliability, availability, maintainability, safety
RFD	request for deviation
RFW	request for waiver

SCC	space component coordination

3.4 Nomenclature

The following nomenclature applies throughout this document:

a. The word “shall” is used in this Standard to express requirements. All the requirements are expressed with the word “shall”.

b. The word “should” is used in this Standard to express recommendations. All the recommendations are expressed with the word “should”.

NOTE It is expected that, during tailoring, recommendations in this document are either converted into requirements or tailored out.

c. The words “may” and “need not” are used in this Standard to express positive and negative permissions, respectively. All the positive permissions are expressed with the word “may”. All the negative permissions are expressed with the words “need not”.

d. The word “can” is used in this Standard to express capabilities or possibilities, and therefore, if not accompanied by one of the previous words, it implies descriptive text.

NOTE In ECSS “may” and “can” have completely different meanings: “may” is normative (permission), and “can” is descriptive.

e. The present and past tenses are used in this Standard to express statements of fact, and therefore they imply descriptive text.