

STN	Zabezpečovanie výrobkov kozmického programu. Systém riadenia nezhôd.	STN EN 16602-10-09 31 0542
------------	---	--

Space product assurance - Nonconformance control system

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/15

Obsahuje: EN 16602-10-09:2014

Oznámením tejto normy sa ruší
STN EN 14097 (31 0513) z novembra 2002

120129

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy
rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

English version

Space product assurance - Nonconformance control system

Assurance produit des projets spatiaux - Système de
contrôle des non-conformitésRaumfahrtproduktsicherung - Nichtkonformitäts-
/Abweichungs-Kontrollsystem

This European Standard was approved by CEN on 1 March 2014.

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.

CEN and CENELEC members are the national standards bodies and national electrotechnical committees of 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 United Kingdom.



**CEN-CENELEC Management Centre:
Avenue Marnix 17, B-1000 Brussels**

Table of contents

Foreword	4
1 Scope.....	5
2 Normative references	6
3 Terms, definitions and abbreviated terms.....	7
3.1 Terms from other standards.....	7
3.2 Terms specific to the present standard	7
3.3 Abbreviated terms.....	8
4 Nonconformance control system principles.....	10
4.1 Process and objectives	10
4.2 Detection and immediate actions	10
4.3 Nonconformance review board (NRB)	11
4.3.1 Internal NRB	11
4.3.2 Customer NRB.....	12
4.4 Corrective and preventive actions.....	12
4.5 Implementation of actions and nonconformance close-out.....	13
4.6 Documentation	13
5 Nonconformance processing requirements	14
5.1 Detection and immediate actions	14
5.2 Nonconformance Review Board	15
5.2.1 General.....	15
5.2.2 Processing by internal NRB	15
5.2.3 Processing by customer NRB	17
5.3 Corrective and preventive actions.....	18
5.4 Implementation of actions and nonconformance close-out.....	19
5.4.1 Implementation of actions	19
5.4.2 Nonconformance close-out	19
5.5 Documentation	20
5.5.1 Formats for nonconformance reporting	20
5.5.2 Nonconformance database	20

5.5.3	Analysis of records.....	20
6	Special nonconformance control requirements	22
6.1	EEE components nonconformances	22
6.1.1	Applicability.....	22
6.1.2	Basic requirements	22
6.1.3	Processing requirements.....	22
6.2	Software nonconformances	23
6.2.1	Applicability.....	23
6.2.2	Basic requirements	23
6.3	Operational nonconformances and anomalies	23
6.3.1	Applicability.....	23
6.3.2	Basic requirements	24
6.3.3	Processing requirements.....	25
	Annex A (normative) Nonconformance Report – DRD	26
	Annex B (normative) NCR Status List - DRD.....	31
	Annex C (informative) Nonconformance report template	33
	Bibliography.....	38
Figures		
	Figure 4-1: Nonconformance processing flow chart.....	11
Tables		
	Table C-1 : Description of the NCR data requirements.....	35

Foreword

This document (EN 16602-10-09:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16602-10-09:2014) originates from ECSS-Q-ST-10-09C.

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 March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.

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 14097:2001.

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.

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN