

SLOVENSKI STANDARD SIST EN 16602-40-12:2015

01-januar-2015

Zagotavljanje varnih proizvodov v vesoljski tehniki - Analiza drevesa okvar - Obvestilo o prevzemu (Adoption Notice) ECSS/IEC 61025

Space product assurance - Fault tree analysis - Adoption notice ECSS/IEC 61025

Raumfahrtproduktsicherung - Fehlerbaumanalyse - Adoption notice ECSS/IEC 61025

Assurance produit des projets spatiaux - Analyse par arbre de panne - Notice d'adoption de la norme ECSS/CEI 61025 (standards.iteh.ai)

Ta slovenski standard je istoveten z: EN 16602-40-12:2014

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SIST EN 16602-40-12:2015 en,fr,de

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ICS 49.140

English version

Space product assurance - Fault tree analysis - Adoption notice ECSS/IEC 61025

Assurance produit des projets spatiaux - Analyse par arbre de panne - Notice d'adoption de la norme ECSS/CEI 61025

Raumfahrtproduktsicherung - Fehlerbaumanalyse - Adoption notice ECSS/IEC 61025

This European Standard was approved by CEN on 13 March 2014.

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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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Foreword

This document (EN 16602-40-12:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16602-40-12:2014) originates from ECSS-Q-ST-40-12C.

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of an identical text or by endorsement, at the latest by March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.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 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., raerospace).

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.

EN 16602-40-12:2014 (E)

1 Scope

This Standard defines requirements for the performance of Fault Tree Analysis (FTA) on space projects and incorporates the IEC 61025 standard into the ECSS system.

With effect from the date of approval, this Standard announces the adoption of the external document on a restricted basis for use in the European Cooperation for Space Standardization (ECSS) system.

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 revisions 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 most 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 16602-30	ECSS-Q-ST-30	Space product assurance – Dependability
EN 16602-40	ECSS-Q-ST-40	Space product assurance – Safety
	IEC 61025 (1990-10) T EN	Fault tree analysis (FTA)

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Terms, definitions and abbreviated terms

3.1 Terms defined in other standards

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

dependability

3.2 Abbreviated terms

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

Abbreviation Meaning

ECSS European Cooperation for Space Standardization

IEC <u>SIS International Electro</u>technical Commission

https://standards.iteh.ai/catalog/standards/sist/a928cdbf-8d88-4233-91a2-

6d3996aa0438/sist-en-16602-40-12-2015 FTA fault tree analysis

NUREG U.S. Nuclear Regulatory Commission, Washington, DC

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4 Principles

The standard IEC 61025 (1990-10) titled "Fault tree analysis (FTA)" defines basic principles, provides the steps necessary to perform an analysis, identifies appropriate assumptions, events and failure modes, and provides identification rules and symbols.

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