



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61025:2007

ICS 03.120.01
03.120.99

**FAULT TREE ANALYSIS (FTA) (IEC
61025:2006 (EQV))**

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61025

April 2007

ICS 03.120.01; 03.120.99

Supersedes HD 617 S1:1992

English version

Fault tree analysis (FTA)
(IEC 61025:2006)

Analyse par arbre de panne (AAP)
(CEI 61025:2006)

Fehlzustandsbaumanalyse
(IEC 61025:2006)

This European Standard was approved by CENELEC on 2007-03-01. 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 Central Secretariat or to any 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 56/1142/FDIS, future edition 2 of IEC 61025, prepared by IEC TC 56, Dependability, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61025 on 2007-03-01.

This European Standard supersedes HD 617 S1:1992.

The main changes with respect to HD 617 S1:1992 are as follows:

- added detailed explanations of fault tree methodologies;
- added quantitative and reliability aspects of Fault Tree Analysis (FTA);
- expanded relationship with other dependability techniques;
- added examples of analyses and methods explained in this standard;
- updated symbols currently in use.

Clause 7, dealing with analysis, has been revised to address traditional logic fault tree analysis separately from the quantitative analysis that has been used for many years already, for reliability improvement of products in their development stage.

Some material included previously in the body of this standard has been transferred to Annexes A and B.

The following dates were fixed:

- | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2007-12-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2010-03-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61025:2006 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60300-3-1	NOTE Harmonized as EN 60300-3-1:2004 (not modified).
IEC 60812	NOTE Harmonized as EN 60812:2006 (not modified).
IEC 61078	NOTE Harmonized as EN 61078:2006 (not modified).

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-191	- ¹⁾	International Electrotechnical Vocabulary (IEV) - Chapter 191: Dependability and quality of service	-	-
IEC 61165	- ¹⁾	Application of Markov techniques	EN 61165	2006 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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