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IRISH STANDARD

I.S. EN 60812:2006

ICS 03.120.01
03.120.30
21.020

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ANALYSIS TECHNIQUES FOR SYSTEM RELIABILITY - PROCEDURE FOR FAILURE MODE AND EFFECTS ANALYSIS (FMEA)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60812

May 2006

ICS 03.120.01; 03.120.30; 21.020

Supersedes HD 485 S1:1987

English version

Analysis techniques for system reliability – Procedure for failure mode and effects analysis (FMEA)

(IEC 60812:2006)

Techniques d'analyse
de la fiabilité du système –
Procédure d'analyse des modes
de défaillance et de leurs effets (AMDE)
(CEI 60812:2006)

Analysetechniken für
die Funktionsfähigkeit von Systemen –
Verfahren für die Fehlzustandsart-
und -auswirkungsanalyse (FMEA)
(IEC 60812:2006)

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CENELEC

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

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Foreword

The text of document 56/1072/FDIS, future edition 2 of IEC 60812, prepared by IEC TC 56, Dependability, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60812 on 2006-03-01.

This European Standard supersedes HD 485 S1:1987.

The main changes from HD 485 S1:1987 are as follows:

– introduction of the failure modes effects and criticality concepts;
– inclusion of the methods used widely in the automotive industry;
– added references and relationships to other failure modes analysis methods;
– added examples;
– guidance on advantages and disadvantages of different FMEA methods.

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)	2006-12-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-03-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60812:2006 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 60300-1	NOTE	Harmonized as EN 60300-1:2003 (not modified).
IEC 60300-2	NOTE	Harmonized as EN 60300-2:2004 (not modified).
IEC 61160	NOTE	Harmonized as EN 61160:2005 (not modified).
ISO 9000	NOTE	Harmonized as EN ISO 9000:2000 (not modified).

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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.

Publication	Year	Title	EN/HD	Year
IEC 60300-3-1	2003	Dependability management Part 3-1: Application guide - Analysis techniques for dependability - Guide on methodology	EN 60300-3-1	2004
IEC 61025	- [1]	Fault tree analysis (FTA)	HD 617 S1	1992 [2]
IEC 61078	- [1]	Analysis techniques for dependability - Reliability block diagram and Boolean methods	EN 61078	2006 [2]

[1] Undated reference.

[2] Valid edition at date of issue.

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