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NSAI Standards

Irish Standard
I.S. EN 50126-1:1999

Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) -- Part 1: Basic requirements and generic process

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I.S. EN 50126-1:1999

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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EUROPEAN STANDARD I.S. EN 50126-1:1999 **EN 50126-1**

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English version

Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) - Part 1: Basic requirements and generic process

Applications ferroviaires – Spécification et démonstration de la fiabilité, de la disponibilité, de la maintenablité et de la sécurité (FDMS) - Partie 1: Exigences de base et procédés génériques

Bahnanwendungen –Spezifikation und Nachweis der Zuverlässigkeit, Verfügbarkeit, Instandhaltbarkeit, Sicherheit (RAMS) - Teil 1: Grundlegede Anforderungen und genereller Prozess

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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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 9X, Electrical and electronic applications in railways.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50126-1 on 1998-10-01.

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)	2000-04-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2000-04-01

Annexes designated “normative” are part of the body of the standard.
Annexes designated “informative” are given for information only.
In this standard, annexes A to E are informative.

To assist the user in the application of this standard for safety and for managing RAM performance in the rolling stock procurement process, the following application guides have been produced:

CLC/TR 50126-2 [1] Guide to the application of EN 50126-1 for safety

CLC/TR 50126-3 Guide to the application of EN 50126-1 for rolling stock RAMS

The contents of the corrigendum of May 2010 have been included in this copy.

[1] In preparation.

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Content

Page

Foreword 2
Introduction 5
1 Scope 6
2 Normative references 7
3 Definitions 8
4 Railway RAMS 11
4.1 Introduction 11
4.2 Railway RAMS and quality of service 11
4.3 Elements of railway RAMS 12
4.4 Factors influencing railway RAMS 14
4.4.1 General 14
4.4.2 Categories of factors 14
4.4.3 Management of factors 18
4.5 The means to achieve railway RAMS requirements 19
4.5.1 General 19
4.5.2 RAMS specification: 19
4.6 Risk 20
4.6.1 Risk concept: 20
4.6.2 Risk analysis: 20
4.6.3 Risk evaluation and acceptance 21
4.7 Safety integrity 22
4.8 Fail-safe concept 24
5 Management of railway RAMS 25
5.1 General 25
5.2 System lifecycle 25
5.3 Application of this standard 31
6 RAMS lifecycle 34
6.1 Phase 1: Concept 34
6.2 Phase 2: System definition and application conditions 36
6.3 Phase 3: Risk analysis 39
6.4 Phase 4: System requirements 41
6.5 Phase 5: Apportionment of system requirements 45
6.6 Phase 6: Design and implementation 47
6.7 Phase 7: Manufacturing 50
6.8 Phase 8: Installation 52
6.9 Phase 9: System validation (including safety acceptance and commissioning) 54
6.10 Phase 10: System acceptance 56
6.11 Phase 11: Operation and maintenance 57
6.12 Phase 12: Performance monitoring 58
6.13 Phase 13: Modification and retrofit 59
6.14 Phase 14: Decommissioning and disposal 60
Annex A (informative) Outline of RAMS specification - example 61
Annex B (informative) RAMS programme 66
Annex C (informative) Examples of parameters for railway. 71
Annex D (informative) Examples of some risk acceptance principles 73
Annex E (informative) Responsibilities within the RAMS process throughout the lifecycle 76
Annex ZZ (informative) Coverage of Essential Requirements of EC Directives 77

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Page

Figures

Figure 1: Quality of Service and Railway RAMS 12
Figure 2: Inter-relation of Railway RAMS elements 12
Figure 3: Effects of Failures Within a System 13
Figure 4: Influences on RAMS 14
Figure 5: Factors Influencing Railway RAMS 16
Figure 6: Example of a Cause/Effect Diagram 18
Figure 7: Certified Products in Safety Systems 23
Figure 8: System Lifecycle 26
Figure 9: Project Phase Related Tasks (Sheet 1 of 2) 27
Figure 9: Project Phase Related Tasks (Sheet 2 of 2) 28
Figure 10: The V Representation 30
Figure 11: Verification and Validation 31
Figure 12:RAMS Eng. and Manag't Implemented within a System Realisation Process 33

Tables

Table 1: RAM Failure Categories 19
Table 2: Frequency of Occurrence of Hazardous Events 20
Table 3: Hazard Severity Level 21
Table 4: Frequency - Consequence Matrix 21
Table 5: Qualitative Risk Categories 22
Table 6: Typical Example of Risk Evaluation and Acceptance 22
Table B.1: Example of a Basic RAMS Programme Outline 67
Table C.1: Examples of Reliability Parameters 71
Table C.2: Examples of Maintainability Parameters 71
Table C.3: Examples of Availability Parameters 71
Table C.4: Examples of Logistic Support Parameters 72
Table C.5: Examples of Safety Performance Parameters 72

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Introduction

This European Standard provides Railway Authorities and the railway support industry, throughout the European Union, with a process which will enable the implementation of a consistent approach to the management of reliability, availability, maintainability and safety, denoted by the acronym RAMS. Processes for the specification and demonstration of RAMS requirements are cornerstones of this standard. This European Standard aims to promote a common understanding and approach to the management of RAMS.

This European Standard can be applied systematically by a railway authority and railway support industry, throughout all phases of the lifecycle of a railway application, to develop railway specific RAMS requirements and to achieve compliance with these requirements. The systems-level approach defined by this European Standard facilitates assessment of the RAMS interactions between elements of complex railway applications.

This European Standard promotes co-operation between a railway authority and railway support industry, within a variety of procurement strategies, in the achievement of an optimal combination of RAMS and cost for railway applications. Adoption of this European Standard will support the principles of the European Single Market and facilitate European railway inter-operability.

The process defined by this European Standard assumes that railway authorities and railway support industry have business-level policies addressing Quality, Performance and Safety. The approach defined in this standard is consistent with the application of quality management requirements contained within the ISO 9000 series of International standards.

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