

RAUDTEEALASED RAKENDUSED. RAUDTEEEVEEREMI
HOOLDUS. HOOLDUSKAVA KOOSTAMINE JA MUUTMINE

Railway applications - Railway vehicle maintenance -
Creation and modification of maintenance plan

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Railway applications - Railway vehicle maintenance -
Creation and modification of maintenance plan

Applications ferroviaires - Maintenance des véhicules
ferroviaires - Création et modification du plan de
maintenance

Bahnanwendungen - Instandhaltung von
Eisenbahnfahrzeugen - Erstellung und Änderung von
Instandhaltungsplänen

This European Standard was approved by CEN on 12 October 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword.....	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms, definitions, symbols and abbreviations.....	6
3.1 Terms and definitions	6
3.2 Symbols and abbreviations	6
4 General requirements for maintenance plans	7
4.1 Introduction	7
4.2 Input data.....	7
4.3 Structure of a maintenance plan	9
4.4 Content of a maintenance plan.....	9
4.5 Periodicity table	9
4.6 Maintenance interval limit and step frequency table	10
5 Creation of a maintenance plan	10
6 Modification of maintenance plan	11
6.1 General.....	11
6.2 Project work flow	11
6.2.1 Project steps.....	11
6.2.2 System definition and Interface.....	12
6.2.3 Description of the modification	13
6.3 Impact assessment.....	13
6.3.1 General.....	13
6.3.2 Safety relevance assessment.....	13
6.3.3 Significance analysis	13
6.4 Justification methods.....	14
6.4.1 General.....	14
6.4.2 Risk assessment.....	14
6.5 Update the maintenance plan.....	16
6.6 Verification and validation	16
6.7 Documentation.....	16
7 Verification, validation, documentation.....	16
7.1 General.....	16
7.2 Verification.....	17
7.3 Validation.....	17
7.4 Documentation, justification file.....	17
8 Roles, skills and knowledge	18
8.1 General.....	18
8.2 Roles.....	18
8.2.1 Role A.....	18
8.2.2 Role B.....	19
8.2.3 Role C	19
8.3 Skills and knowledge	19

Annex A (informative) Examples of a process to assess the safety significance of a proposed Maintenance Plan modification.....	20
A.1 General	20
A.2 Example 1	20
A.2.1 Foreword	20
A.2.2 Method used to assess the significance	20
A.3 Example 2	22
A.3.1 General	22
A.3.2 Steps of the method to assess significance	23
A.4 Example 3	24
A.4.1 Methodology for using the criteria.....	24
A.4.2 Choosing an approach.....	25
A.5 Example 4	28
A.5.1 Foreword	28
A.5.2 General	28
A.5.3 Safety relevance	29
Annex B (informative) Safety relevant components, functions and maintenance activities	30
B.1 Introduction.....	30
B.2 Process for addressing safety relevant functions/components and their maintenance activities.....	30
B.3 Process to determine safety relevance of a maintenance plan change.....	31
Annex C (informative) Structured list of the content of a Maintenance Plan.....	33
C.1 General	33
C.2 Cover.....	33
C.3 Approval record	33
C.4 Changes control.....	33
C.5 Table of contents.....	33
C.6 Scope of application for this MP	34
C.7 Step frequency table	34
C.8 Periodicity table and supporting technical documentation	34
C.9 Relevant information	34
C.10 Definitions and abbreviations	34
C.11 List of reference documentation	35
Annex D (informative) Examples showing the representation of a Maintenance Plan.....	36
D.1 Examples of a Step frequency representation.....	36
D.2 Maintenance activities	38
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2008/57/EC aimed to be covered.....	41
Bibliography	43

European foreword

This document (EN 17023:2018) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

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 June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN 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, and supports essential requirements of EU Directive 2008/57/EC.

For relationship with EU Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document.

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Introduction

In the field of railway maintenance, the purpose of this document is to define key processes to create and modify the maintenance plan for railway vehicles.

Each railway vehicle has to be in a safe state of running and achieve performance targets when in service. This is achieved by operating the vehicle under defined conditions, and performing a maintenance system, including corrective and preventive maintenance on certain components/functions at certain periodicities at a maintenance facility.

The maintenance plan is a part of the maintenance system, contains the descriptions of the activities, quality criteria, procedures and intervals to be undertaken during scheduled maintenance with the objective to ensure the vehicle complies with the target condition.

The construction of new vehicles is accompanied by an appropriate set of technical, maintenance and operating documents to support the vehicles along their life cycle.

1 Scope

This document describes the methodology and the elements to be considered for the creation and modification of a vehicle maintenance plan, up to the validation. This document describes general requirements (list of input data, structure and content) of a maintenance plan.

For the creation and modification of a maintenance plan, this document lists:

- preparation and selection of documents and input data;
- analysis of input data and development of the maintenance plan up to its validation;
- process to be followed to create a maintenance plan;
- reasons to check a current maintenance plan;
- risk assessment and process to be followed to modify the maintenance plan;
- monitoring conditions (e.g. justification methods, verification, validation, documentation, roles, skills and knowledge).

This document applies only to preventive maintenance.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 17018, *Railway applications — Rolling stock maintenance — Terms and definitions*

EN 31010, *Risk management — Risk assessment techniques (IEC/ISO 31010)*

EN 50126 (all parts), *Railway Applications — The Specification and Demonstration of Reliability, Availability, Maintainability and Safety (RAMS)*

EN 50128, *Railway applications — Communication, signalling and processing systems — Software for railway control and protection systems*

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions given in EN 17018 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.2 Symbols and abbreviations

For the purposes of this document, the abbreviations given in Table 1 apply.