



CSA R114:22
National Standard of Canada



Canadian method for risk evaluation and assessment for railway systems



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Contents

Technical Committee on Canadian Method for Risk Evaluation and Assessment for Railway Systems 2

Preface 4

1 Scope 5

1.1 General 5

1.2 Terminology 5

2 Reference publications 5

3 Definitions 6

4 Application 9

4.1 General 9

4.2 Organizational changes 9

4.3 Structural subsystems 9

5 Significant changes 9

5.1 General 9

5.2 If changes impact safety 9

5.3 Documentation 10

6 Risk management process 10

6.1 General 10

6.2 Risks introduced by suppliers of goods and services 10

7 Independent assessment 10

7.1 General 10

7.2 Performance of the independent assessment 10

8 Safety assessment reports 10

8.1 Requirements 10

8.2 Safety authority 11

9 Declaration by proponent 11

10 Risk control management and audits 11

10.1 Audit of application of document — Safety management system 11

10.2 Audit of application of document — System of maintenance 11

Annex A (normative) — Risk management process 12

Annex B (normative) — Safety assessment report of the independent safety assessor 23

Annex C (informative) — Other considerations 24

Annex D (informative) — Explicit risk estimation and risk evaluation 30

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Preface

This is the first edition of CSA R114, *Canadian method for risk evaluation and assessment for railway systems*. It replaces CSA EXP-11.

This Standard is adapted from the following:

- a) the European Union's Commission Implementing Regulation No. 402/2013 of April 30, 2013, on the common safety method for risk evaluation and assessment;
- b) Directive 2016/797 of the European Parliament and of the Council of May 11, 2016, on the interoperability of the rail system within the European Union; and
- c) Directive 2004/49/EC of the European Parliament and of the Council of April 29, 2004, on safety on the community's railways.

This Standard was prepared by the Technical Committee on Canadian Method for Risk Evaluation and Assessment for Railway Systems. It has been formally approved under the jurisdiction of the CSA Strategic Steering Committee on Organizational Management and Sustainability.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.
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 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA R114:22

Canadian method for risk evaluation and assessment for railway systems

1 Scope

1.1 General

This Standard applies to proponents making any change to a railway system that is technical, operational, or organizational in nature.

The basic elements of the safety management system covered by this Standard include

- a) procedures for carrying out risk evaluation and analysis; and
- b) implementing risk control measures whenever a change in operating conditions or new material imposes new risks, or changes to existing risks, on the infrastructure or on operations.

1.2 Terminology

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with this Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below.

EC (European Union Commission)

Commission Implementing Regulation (EU) No 402/2013, on the common safety method for risk evaluation and assessment and repealing Regulation (EC) No 352/2009, (2013) OJ, L 121/8, and as amended by the Commission Implementing Regulation (EU) 2015/1136 of July 13, 2015 [2015] OJ, L 185/6, (2013) OJ

Directive (EU) 2016/797 of the European Parliament and of the Council of May 11, 2016, on the interoperability of the rail system within the European Union (recast) (2016) OJ, L 138/87