

TR 113:2023
(ICS 01.040.45)

TECHNICAL REFERENCE

**Mass rapid transit and light rail transit
operations – Terminology for railway operations**

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Foreword

This Technical Reference (TR) was prepared by the Working Group on Mass Rapid Transit and Light Rail Transit Operations – Terminology for Railway Operations set up by the Technical Committee on Railway Systems under the purview of the Transportation Standards Committee.

This TR is a provisional standard made available for application over a period of three years. The aim is to use the experience gained to update the TR so that it can be adopted as a Singapore Standard. Users of the TR are invited to provide feedback on its technical content, clarity and ease of use. Feedback can be submitted using the form provided in the TR. At the end of the three years, the TR will be reviewed, taking into account any feedback or other considerations, to further its development into a Singapore Standard if found suitable.

Permission has been sought from the following organisations for the reproduction of materials from their documents into this standard (refer to the footnotes in the standard):

1. American Public Transportation Association (APTA) – Compendium of definitions and acronyms for rail systems
 2. Institute of Electrical and Electronics Engineers (IEEE) – IEEE 1474.1-2004 IEEE Standard for communications-based train control (CBTC) performance and functional requirements
 3. International Electrotechnical Commission
 - IEC 62425:2007 Railway applications – Communication, signalling and processing systems – Safety related electronic systems for signalling
 - IEC 62267:2009 – Railway applications – Automated urban guided transport (AUGT) – Safety requirements
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4. Land Transport Authority – Signals, communications and control glossary
 5. Rail Industry Safety and Standards Board (RISSB) – Glossary of terms
 6. Singapore Civil Defence Force (SCDF) – Code of practice for fire precautions in rapid transit systems 2022
 7. Singapore Mass Rapid Transit (SMRT)
 - Rule book glossary
 - CCL operating rules – Glossary of terms

Acknowledgement is made for the use of information from the above publications.

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Mass rapid transit and light rail transit operations – Terminology for railway operations

1 Scope

This Technical Reference (TR) covers terms and definitions relating to railway operations such as access to track, station operations, train operations and incident management.

2 Normative references

There are no normative references in this document.

3 Terminology

3.1 Abnormal condition

Any unplanned situation that involves corrective actions.

3.2 Accident

An unintended event or a series of events that results in death, injury, loss of a system or service, or environmental damage¹.

3.3 Approach locking

A function of the computer-based interlocking (CBI) system. It is used to maintain the route ahead of a signal after it is cancelled. The approach locking is released when it proves that one of the following conditions has been met:

- a) No train was detected on the approach zone of the signal.
- b) An approaching train has been proved to have stopped before the signal.
- c) An approaching train has entered the route.

3.4 Approach side

The side of a section of track from which trains approach.

3.5 Approach zone

A certain length of track upstream of the signal.

3.6 Aspect

The appearance of a fixed signal conveying an indication as viewed from the direction of an approaching train².

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² Reproduced with permission from Compendium of Definitions and Acronyms for Rail Systems, American Public Transportation Association, www.apta.com