

TR 126:2024
(ICS 45.060.01)

TECHNICAL REFERENCE

**Maintenance regime for the mass rapid transit
conductor rail system and the overhead contact
line system**

TR 126:2024

(ICS 45.060.01)

TECHNICAL REFERENCE

**Maintenance regime for the mass rapid transit
conductor rail system and the overhead contact
line system**

Published by Enterprise Singapore

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from Enterprise Singapore. Request for permission can be sent to: standards@enterprisesg.gov.sg.

© Enterprise Singapore 2024

ISBN 978-981-5277-23-4

Contents

	Page
Foreword _____	3
1 Scope _____	4
2 Normative references _____	4
3 Terms and definitions _____	4
4 General guidelines _____	5

Annex

A List of critical defects and severity classification _____	11
--	----

Foreword

This Technical Reference (TR) was prepared by the Working Group on Maintenance Regime for the Mass Rapid Transit Conductor Rail System and the Overhead Contact Line System in the Rapid Transit System set up by the Technical Committee on Railway Systems under the purview of the Transportation Standards Committee.

This standard provides guidance for a common approach towards a maintenance regime for the conductor rail system and the overhead contact line system. It covers all mechanical components, but not electrical components, related to the conductor rail system and the overhead contact line system.

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.

In preparing this TR, reference was made to TR 85: 2021, "Maintenance regime for the Permanent Way".

Attention is drawn to the possibility that some of the elements of this TR may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "mature standards". Mature standards will not be subject to further review unless there are requests to review such standards.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

Maintenance regime for the mass rapid transit conductor rail system and the overhead contact line system

1 Scope

This Technical Reference (TR) covers the maintenance regime and replacement of conductor rail and overhead contact line system assets located underground, at grade and on elevated structures.

This TR covers the overhead conductor rail (OCR) system, commonly referred as the rigid overhead line in railways. It does not include the maintenance of permanent way asset, trackside equipment, vehicle gauges and any electrical components of the overhead line or electrical equipment in an electrical power substation.

This TR applies to any person (“the working party”) who is involved partially or entirely in a contract to build and maintain any conductor rail and overhead contact line system assets in a rapid transit system.

2 Normative references

There are no normative references in this document.