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PEOPLE'S REPUBLIC OF CHINA**

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**Specification for operational safety assessment of urban rail
transit-Part 2: Monorail**

城市轨道交通运营安全评估规范 第2部分：单轨

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 2 of GB/T 42334 "Urban Rail Transit Operation Safety Assessment Specification". GB/T 42334 has been published. The following parts.

Part 1: Subway and light rail;- Part 2: Single track;- Part 3: Trams. - Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed by the Ministry of Transport of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee for Standardization of Urban Passenger Transport (SAC/TC 529).

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Introduction

Urban rail transit operation safety assessment is an important means to ensure the safety of urban rail transit operation.

It is very important to carry out safety assessment activities in an orderly manner before operation, before formal operation, and during operation, and to clarify the technical requirements of safety assessment.

GB/T 42334 aims to establish the technical basis for safety assessment of different types of urban rail transit systems and is intended to consist of three parts. composition.

Part 1: Subway and light rail. The purpose is to specify the basic technical requirements for the safe operation of subway and light rail urban rail transit.

The requirements are met and testing methods are provided to support the implementation of operational safety assessment work.

Part 2: Monorail. The purpose is to specify the basic technical requirements for the safety of monorail urban rail transit operations and provide test methods.

The law supports the implementation of operational safety assessment work.

Part 3: Tram. The purpose is to specify the basic technical requirements for the safety of urban rail transit operations of trams.

Develop testing methods to support operational safety assessment work.

Specification for safety assessment of urban rail transit operations Part 2: Single Track

1 Scope

This document specifies the safety assessment of monorail transit projects before initial operation, safety assessment before formal operation and safety assessment during operation. Basic requirements.

This document is applicable to the initial pre-operation safety assessment, pre-formal operation safety assessment and safety assessment during operation of straddle-type monorail transportation projects.

Evaluation, the operational safety assessment of suspended monorail transportation engineering projects can be used as a reference.

2 Normative references

GB/T 39559.2-2020

GB/T 42334.1-2023

GB/T 50458

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 monorail transit

A medium-capacity rail transit system that uses electric traction trains running on a single track beam.

Note. According to the positional relationship between the vehicle and the track beam, monorail transportation is divided into straddle-type monorail transportation and suspended monorail transportation.

3.2 straddle monorail transit

A type of monorail transportation. The vehicle uses rubber wheels to straddle the rail beam. In addition to the running wheels, there are There are guide wheels and stabilizing wheels on the side, which are clamped on both sides of the track beam to ensure that the vehicle runs safely and smoothly along the track.

[Source. GB/T 50458-2022, 2.0.2]

3.3 suspended monorail transit

A type of monorail transportation in which vehicles are suspended from track beams.

3.4 Initial operation

The passenger transportation of newly built urban rail transit lines after the trial operation is completed, the project is accepted and the operation safety assessment is passed. Camp activities.

[Source. GB/T 42334.1-2023, 3.1]