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**NATIONAL STANDARD OF THE
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GB/T 46932-2025

**Technical specification for the civil aviation BeiDou timing
system**

民航北斗授时系统技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Civil Aviation Administration of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Air Transport (SAC/TC464). This document was drafted by: the Central and Southern Regional Administration of the Civil Aviation Administration of China, the Civil Aviation Administration of China, and the Central and Southern Regional Air Traffic Management Bureau of the Civil Aviation Administration of China. Air Traffic Management Bureau, Guangzhou Zhongnan Civil Aviation Air Traffic Control Technology and Equipment Engineering Co., Ltd., China Academy of Civil Aviation Science and Technology, Xi'an Hangguang Satellite Measurement and Control Technology Co., Ltd. Technology Co., Ltd., National Time Service Center of Chinese Academy of Sciences, East China Regional Air Traffic Management Bureau of Civil Aviation Administration of China, and Beijing University of Aeronautics and Astronautics. The main drafters of this document are. Li Jiangchao, Zhang De, Wang Jianfeng, Li Zhisheng, Cai Qi, Xu Jianying, Shen Yang, Zou Yingzhi, Ren Longhao, and Chen Qiangchao. Qiu Zhihao, Chen Wenxiu, Chen Sicong, Tian Yasu, Wu Jianfeng, Cui Lili, Wang Zhipeng, Ying Qi,

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1 Scope

GB/T 46932-2025 is the Chinese national standard covering time in an air traffic system - the surveillance, the recording and the messages all depend on every clock agreeing, and this is how BeiDou is used to hold them together, including what happens when the signal is lost or spoofed. First edition, under the Civil Aviation Administration. It was issued on 31 December 2025 and has been in force since 1 July 2026, as a first edition. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the technical requirements for the BeiDou timing system in civil aviation and describes the corresponding test methods. This document applies to the design, development, production, deployment, and inspection of the BeiDou timing system for civil aviation ground facilities and equipment. use.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.1 Environmental testing of electrical and electronic products - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 A system that uses the timing function of the BeiDou satellite navigation system to provide accurate and reliable time signals for civil aviation users.

3.2 Time reference The confirmed precise timescale.

3.3 A time reference signal transmitted wirelessly.

3.4 A time reference signal transmitted via wired communication.