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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46906-2025

**Technical specification for the marking and lighting of aviation
obstacles**

航空障碍物标志与障碍灯技术规范

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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: China Academy of Civil Aviation Science and Technology, Hubei Provincial Institute of Metrology and Testing Technology, and Shanghai Shidaizhiguang Lighting Appliance Co., Ltd. Testing company, Second Research Institute of Civil Aviation Administration of China. The main drafters of this document are: Zhang Qingchun, Liu Yuhong, Guo Jingcheng, Zhuo Jia, Shen Yang, Wang Ye, Bian Daiquan, and Liu Yiyang. Technical Specifications for Aviation Obstacle Markings and Obstacle Lights

1 Scope

GB/T 46906-2025 is the Chinese national standard covering marking what an aircraft must not hit - the paint schemes and the low, medium and high intensity obstacle lights, their placement on masts, chimneys, cranes and wind turbines, their photometry and their failure monitoring. 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 aviation obstruction lights (hereinafter referred to as "obstruction lights") and markings on obstacles, and the testing and inspection methods. Laws, inspection rules, as well as nameplates, instructions, packaging, transportation and storage. This document applies to obstruction lights installed on fixed buildings, structures, moving objects within airport flight zones, overhead cables, and other obstacles. Research, development, production, and testing of the logo.

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 191 Packaging and Storage Graphic Symbols

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 beam spread angle On a specified plane, the angle between two directions in which the light intensity is equal to 50% of the specified minimum peak light intensity.

3.2 Vertical aiming angle The angle between the direction of maximum light intensity emission and the horizontal plane.

3.3 effective intensity The effective light intensity of a flash is equivalent to that of a constant-color light source that produces the same field of view under the same observation conditions.