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

GB/T 42878-2023

**Weather modification - Requirements for airspace application
and utilization of ground-based operations**

人工影响天气 地面作业空域申请和使用要求

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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 be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by the China Meteorological Administration. This document is under the jurisdiction of the National Weather Modification Standardization Technical Committee (SAC/TC538). This document was drafted by: Henan Provincial People's Government Weather Modification Leading Group Office, China Meteorological Administration Weather Modification Center, National Airspace Management Center, Unit 95028 of the Chinese People's Liberation Army. The main drafters of this document. Bao Xiangdong, Du Chunli, Qian Yao, Sun Rui, Guo Xianlin, Zhu Xiaohui, Chen Tianyu, Meng Xianguo, Ding Jianfang, Zhang Tianhua, Li Ke, Yang Min, Hao Xiaozhen, Gao Jingang, Guo Limei. Weather modification ground operation airspace application and Requirements

1 Scope

China's national requirements for applying for and using airspace in ground-based weather modification operations. Firing rockets and artillery shells into cloud puts projectiles into airspace that aircraft also use, and the coordination between the two is the entire subject. China conducts these operations at a scale that makes the problem continuous rather than occasional: thousands of sites, operating seasonally, often at short notice when a hail-bearing cloud develops, in airspace that is among the world's busiest. The requirements have to cover how an operation is applied for, how it is authorised, how the window is defined in time and space, how it is communicated to air traffic control, and what happens when it must be cancelled because an aircraft has entered the area. It is the procedural counterpart to the safe firing area map, which fixes the geometry - this one fixes the coordination in time.

This document specifies the requirements for airspace application and airspace use for weather modification ground operations (hereinafter referred to as "airspace application and use"). This document applies to the application and use of airspace for weather-modified ground anti-aircraft artillery and rocket-to-air shooting operations. Other types of labor Please refer to the airspace application and use for weather-affected ground operation equipment.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document. QX/T 151 Terminology for artificial weather modification operations QX/T 422-2018 Weather modification ground anti-aircraft artillery and rocket operation airspace declaration information format

3 Terms and definitions

The terms and definitions defined in QX/T 151 and QX/T 422-2018 apply to this document.

4.1 Plan

4.1.1 To carry out weather modification ground operations, an annual airspace use plan for weather modification ground operations (hereinafter referred to as the "annual airspace use plan") should be formulated. "Airspace Usage Plan") and submit it to the aviation control unit for approval/recording.

4.1.2 The annual airspace use plan should include a formal document, annual airspace use application and the Annual Airspace Application for Weather Modification Ground Operations. Please use the Planning Report Form (see Figure A.1 for the format). Among them, the "Annual Airspace Application and Use Plan Report for Weather Modification Ground Operations" The contents of the table include but are not limited to.

- a) Operation year;
- b) Name of the operation site. indicate the name of the township (town) and village;
- c) The county (district, city, banner) to which the operation site belongs;
- d) Operation point code. 9 digits, the coding format complies with the provisions of Appendix C of QX/T 422-2018;
- e) Geographical location of the operating point. in the format of degrees (°), minutes (′), and seconds (″);

- f) Altitude of the operating point. unit is meters (m);
- g) Equipment types. anti-aircraft guns, rockets, etc.;
- h) Maximum shooting altitude. unit. meter (m);
- i) Type of operating point. fixed, mobile, temporary, etc.;
- j) Establishment unit.

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