

ICS 07.060
CCS A 47



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

GB/T 45911-2025

**Weather modification - Safety requirements for operational
ammunition storage**

人工影响天气 作业用弹药存储安全要求

Issued on: June 30, 2025

Implemented on: October 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Hazard Level	2
5 Calculate the dosage	2
6 Site selection conditions	2
7 Safety distance	3
8 Architecture and Structure	3
9 Safety precautions	5
10 stacking	5
11 In and Out of Warehouse	5
12 on duty	6
References	7

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.

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 was proposed by the China Meteorological Administration.

This document is under the jurisdiction of the National Technical Committee for Weather Modification Standardization (SAC/TC538).

This document was drafted by: Weather Modification Center of China Meteorological Administration, Ministry of Industry and Information Technology, Jiangxi Xinyu Guoke Technology Co., Ltd.

Co., Ltd., Beijing North Tianya Engineering Design Co., Ltd., Jiangsu Police College, and Henan Weather Modification Center.

The main drafters of this document are: Qian Yao, Sun Rui, Zhao Zhiqiang, Wei Shuai, Yuan Yougen, Liu Xijing, Yue Jiwei, Zhang Wenyi, Du Chunli, Chen Yu, Hou Sijie, Yao

Jinhua, and Zhang Deyuan.

Safety requirements for storage of ammunition used in weather modification operations

1 Scope

This document establishes the hazard levels of munitions used for weather modification operations and their storage facilities, and stipulates the calculation of explosive quantities and site selection requirements for storage facilities.

Requirements for ammunition storage safety, such as parts, safe distances, buildings and structures, safety precautions, stacking, entry and exit, and guard duty.

This document applies to the safe management of ammunition storage for weather modification operations and the construction and use of ammunition storage warehouses.

2 Normative references

GB 10409-2019

GB 17565-2022

GB 50016-2014

GB 50089-2018

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Weather modification

Under appropriate conditions, artificially influence local atmospheric physical and chemical processes through technical means to implement rain (snow) enhancement, hail prevention, and rain (snow) reduction.

Activities for the purpose of rain removal, fog removal, frost prevention, etc.

[Source. GB/T 42989-2023, 3.1]

3.2 [Weather modification ammunition]

Specialized explosive equipment used for weather modification (3.1) operations, containing explosives, catalysts and other agents.

Note. This includes shells, rockets, flares and flares used in weather modification (3.1) operations (hereinafter referred to as "shells", "rockets", "flares" and "flares").

It is a shell used for 37mm caliber anti-aircraft guns.

3.3 [Weather modification] warehouse

A single-storey, ground-floor building with limited storage capacity used for storing ammunition (3.2) for weather modification (3.1) operations.

3.4 [Source. GB 50089-2018, 2.0.18, with modifications]

The required damage standards under the specified conditions between the storage area (3.3) used for artificial weather modification operations and various targets outside the wall of the storage area Minimum distance.