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

GB 4543-2008

Replacing GB/T 4543-2008, GB/T 3107-2008

Pyrotechnic distress signals

船用烟火信号

(English Translation)

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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:

This document replaces GB/T 4543-2008 "Ship Pyrotechnic Signals" and GB/T 3107-2008 "Self-illuminating floating lights and spontaneous smoke for lifebuoys" "Fog Combination Signal", compared with GB/T 4543-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed classification and labeling examples (see 4.1, 4.2, 4.1, 4.2 of the:2008 version);
- b) Added requirements and test methods for spontaneous smoke signal release of lifebuoys (see 5.2:3 and 6:4:2);
- c) Changed the color requirements for rocket parachute flame signals and handheld flame signals (see 5.3:5, 5:4:3,:2008 version of 5:2:5:5, 5:2:6:3);
- d) Change the smoke shielding rate to smoke concentration (see 5.5:3, 5:2:7:3 of the:2008 version);
- e) Added temperature requirements in the basic performance parameter test of floating smoke signals (see 6.8:1);
- f) The validity period in the change mark is the expiration date (see 8.1, 8:1 of the:2008 version):

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the classification and marking, technical requirements, test methods, inspection rules, and standards of life-saving pyrotechnic signals (hereinafter referred to as pyrotechnic signals):

Logging, packaging, storage and transportation:

This document applies to the design, manufacture and acceptance of pyrotechnic signals configured on life-saving equipment:

2 Normative reference documents

This document has no normative references:

3 Terms and definitions

The following terms and definitions apply to this document:

pyrotechnic signal
pyrotechnic signal A general term that uses the flame or smoke emitted after a chemical mixture (such as gunpowder) is ignited as a communication signal for identification:

flame signal
flame signal the chemical mixture is ignited and burns flamingly and emits light and flame signals:

Note: Usually used as a night contact signal:

smoke signal
smoke signal when the chemical mixture is ignited, it burns flamelessly and emits a smoke signal:

Note: Usually used as a daytime contact signal:

When used, the smoke signal can be generated by itself only with the help of the automatic release device:

4 Classification and tagging

4.1

Classification

Pyrotechnic signals are divided into the following four categories according to how they are used:

- a) RF type---rocket parachute flame signal;
- b) HF type---handheld flame signal;
- c) BS type---floating smoke signal;
- d) LS type---lifebuoy spontaneous smoke signal:

4.2

Marking

The marking of the pyrotechnic signal consists of the document number, usage model,

burning duration, and light intensity sequence: