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

GB/T 47275-2026

**Technical requirements for intelligent lifebuoys for water
emergency rescue**

水上应急救援智能救生圈技术要求

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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 involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed

and is under the jurisdiction of the National Technical Committee on Ship Outfitting Standardization (SAC/TC129). This document was drafted by: Huazhong University of Science and Technology, China State Shipbuilding Corporation Limited Comprehensive Technology and Economic Research Institute, and Beijing Kosum Intelligent Technology Co., Ltd. Technology Co., Ltd., Wuhan Branch of China Classification Society, Shenzhen Xinhongxin Technology Co., Ltd., CNOOC Shenzhen Offshore Engineering Technology Service Co., Ltd. Company, Water Transport Research Institute of the Ministry of Transport, Shanghai Jiao Tong University, Harbin Engineering University, Shanghai Ouxunrui Intelligent Technology Co., Ltd., China Yangtze Power Co., Ltd., Beijing Taipuri Fire Technology Research Institute, Zhejiang Chengshi Robotics Co., Ltd., Wuhan Yangtze River Ship Design Institute Limited Liability Company, Guangdong Huazhong University of Science and Technology Industrial Technology Research Institute, and Yangtze River Navigation Administration Bureau of the Ministry of Transport. The main drafters of this document are. Xiang Xianbo, Xiang Gong, Yang Shaolong, Zhu Sisi, Peng Jingwei, Liu Wei, Xu Xinwei, Yu Caoyang, Gao Lei, and Li Guang. Qin Hongde, Liu Qing, Qu Yang, Zeng Zhiyuan, Li Xinyu, Pan Deng, Zhu Zhongben, Shen Zongqing, Chen Gang, Cui Ning, Wang Jiewen, Lan Ruidong, Cheng Liming, Zhou Qingliang Lao Chengwang, Zheng Yue, Li Xingyu, Li Ying, Fang Shu, Dong Fei, Song Mengdi. Technical requirements for intelligent lifebuoys for water emergency rescue

1 Scope

GB/T 47275-2026 is the Chinese national standard covering the remote controlled rescue buoy - a powered float driven out to a person in the water from the shore or a boat, with its speed and endurance, its buoyancy and towing capacity, its control range and its behaviour in surf. First edition, in force since 1 July 2026. It was issued on 31 March 2026 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 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 classification and labeling, design, requirements, and testing of intelligent lifebuoys for water emergency rescue (hereinafter referred to as "intelligent lifebuoys"). Methods, inspection rules, marking, packaging and storage. This document applies to the design, manufacture, and acceptance of intelligent lifebuoys for emergency rescue in inland rivers, lakes, and coastal waters.

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 4208-2017 Degrees of protection provided by enclosures (IP code)

GB/T 17626.2 Electromagnetic compatibility testing and measurement techniques - Electrostatic discharge immunity test

GB/T 17626.3 Electromagnetic compatibility testing and measurement techniques - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 A surface rescue device that integrates sensing and control, power drive and remote control technologies to enable long-distance search and rescue.

3.2 remote control Navigation using a remote control device to remotely control the propulsion device and various equipment and systems of the intelligent lifebuoy (3.1) for water emergency rescue. model.

3.3 autonomous navigation A navigation mode that ensures safe navigation according to a manually planned route.

4 Classification and Labeling

4.1 Classification Intelligent lifebuoys are classified according to their propulsion method as follows:

a) Type A - Propeller-driven intelligent lifebuoy;