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Approaches to scenario construction for emergency plans

应急预案情景构建方法

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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 Ministry of Emergency Management of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Emergency Management and Disaster Reduction and Relief (SAC/TC307). This document was drafted by: China National Institute of Standardization, Party School of the Central Committee of the Communist Party of China (National Academy of Governance), and China Academy of Safety Science and Technology. Beijing Academy of Science and Technology, Institute of Urban Safety and Environmental Science; Training Institute for Cadres of the Ministry of Emergency Management (Party School of the Ministry of Emergency Management); China University of Mining and Technology (Beijing), Beijing Lianchuang Zhongsheng Technology Co., Ltd., Xinxing Jihua (Beijing) Intelligent Equipment Research Institute Technology Co., Ltd., Beijing Science and Technology University Technical University, State Grid Shanxi Electric Power Company, Sichuan Shuxing Youchuang Safety Technology Co., Ltd., State Grid Shandong Electric Power Company. The main drafters of this document are. Wang Wan, Wang Yongming, Qin Tingxin, Shi Xunxian, Yao Xiaohui, Zhang Chao, Jiao Xinyi, Ni Huihui, Huang Shuai, Qu Ying, and Tan Bo. Wu Xinyu, Mo Li, Yang Yuexiang, Ye Zhoujing, Liu Weisheng, Kong

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Currently, emergency response plans generally suffer from low quality, lack of specificity and practicality. Scenario construction is crucial for the development of an emergency response plan system. Management plays a supporting and guiding role. This paper is formulated to promote scientific and practical methods for developing emergency response plans and improve the quality of such plans. The document covers scenario construction for emergency response plans at all levels and of all types. This document, based on risk assessment and aiming to improve the quality of emergency response plans, uses the "scenario-task-capability" framework as its main thread and proposes general scenarios. Scenario Construction Methodology. This method clarifies the emergency response process, responsibilities, and measures through scenario screening and development, emergency task analysis, and capability assessment. This provides scientific support for the evaluation and revision of emergency response plans. Emergency Response Scenario Construction Methods

1 Scope

GB/T 46791-2025 is the Chinese national standard covering building the scenario an emergency plan is written against - the hazard and its plausible worst case, the cascading failures, the resources unavailable because the same event took them out, and the assumptions written down so they can be challenged. A plan written against a comfortable scenario fails on the day. First edition, under the Ministry of Emergency Management. Issued on 2 December 2025, it has been in force since 1 July 2026.

This document establishes the general principles for emergency response scenario construction, and describes the process including scenario selection and development, emergency task review, and emergency capability analysis. Methods for constructing emergency response scenarios, including analysis, evaluation, and revision of emergency response plans. This document applies to scenario building activities conducted by governments and their departments during the development and revision of emergency response plans. Other organizations conducting emergency response plan development should also be aware of this application. Use this as a reference for scenario-based activities.

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 23694 Risk Management Terminology

GB/T 27921 Risk Management and Risk Assessment Techniques

GB/T 46793.1 Guidelines for the Preparation of Emergency Response Plans for Sudden Incidents Part

3 Terms and Definitions

The terms and definitions defined in GB/T 23694, GB/T 27921 and GB/T 46793.1, as well as the following terms and definitions, apply to this document.

3.1 Scenario A systematic description of the evolution of risks and the consequences of disasters.

3.2 With the aim of supporting the evaluation and revision of emergency response plans, the work includes scenario screening and development, emergency task review, and emergency capability analysis. Activity.

4 General Principles

4.1 The construction of emergency response scenarios follows the principles of being guided by improving the ability to respond to emergencies, being realistic, dynamically improving, and facilitating practical operation.

4.2 Based on a comprehensive risk assessment and a thorough review and analysis of the existing emergency response plan system, determine the needs for emergency response plan development and the specific emergency response plans. Scenario building objectives.

4.3 Emergency Response Scenario Development. This process includes scenario selection and development, emergency task review, emergency capability analysis, and emergency response plan evaluation and revision. The process is carried out, and the flowchart is shown in Figure 1.