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

GB/T 17680.7-2025

Replacing GB/T 17680.7-2003

**Criteria for emergency preparedness and response for nuclear
power plants - Part 7: Functional and physical characteristics of
on-site emergency facilities**

核电厂应急准备与响应准则 第7部分：场内应急设施功能与特性

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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 is Part 7 of GB/T 17680.GB/T 17680 has the following parts published.

---Nuclear Power Plant Emergency Planning and Preparedness Guidelines Part

1.Delineation of Emergency Planning Zones;

---Nuclear Power Plant Emergency Preparedness and Response Guidelines Part

2.Off-site Emergency Organization and Functions;

---Nuclear Power Plant Emergency Preparedness and Response Guidelines Part

3.Functions and Characteristics of Off-site Emergency Facilities;

---Nuclear Power Plant Emergency Preparedness and Response Guidelines, Part

4. Off-site Nuclear Emergency Response Plans and Implementation Procedures;

---Nuclear Power Plant Emergency Planning and Preparedness Guidelines Part

5. Maintaining Off-Site Emergency Response Capabilities;

---Nuclear Power Plant Emergency Preparedness and Response Guidelines, Part

6. On-site Emergency Organization and Functions;

1 Scope

GB/T 17680.7-2025 is the Chinese national standard on criteria for emergency preparedness and response for nuclear power plants - part 7: functional and physical characteristics of on-site emergency facilities, in the field of energy and heat transfer engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 5 October 2025. Classification: ICS 27.120, CCS F 77. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the functional and characteristic requirements for on-site emergency facilities in nuclear power plants. This document applies to on-site emergency facilities at large, stationary land-based nuclear power plants; other nuclear facilities may refer to it for further information.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 emergency facilities Emergency response sites, systems, and equipment are set up in accordance with the principle of positive compatibility and relevant regulations.

3.2 Corrective actions Measures and actions taken at or near the incident site that leads to an emergency in order to control or mitigate the consequences of an accident.

Note. Examples include core damage mitigation and control, emergency repairs, firefighting, flooding control within the plant, and resistance to wind and earthquake disasters.

3.3 Protective action During and after an emergency response, measures are taken to avoid or reduce the expected doses to nuclear power plant workers and the public caused by the accident. Protective measures.

3.4 Habitability It is used to describe whether a certain area meets the criteria for continuous or temporary residence. [Source: HAD002/01-2019, Glossary, modified]

3.5 Main control room habitable area In an emergency, the area where the main control room is located can be isolated from the power plant area and environment outside the habitable zone. Note

1. An emergency ventilation system is used in this area to maintain the habitability of the control room. Note

2. This area includes the main control room and may also include other non-critical areas where personnel do not frequently enter or stay continuously during an incident.

3.6 On-site emergency road Roads within the site are used for emergency evacuation, passage, transfer of personnel, and transport of emergency supplies to emergency response locations.