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

GB/T 47718-2026

**Amusement parks - Management specification for critical
equipment and facilities**

游乐园 重要设备设施管理规范

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Table of Contents

4	General Requirements
5	Setup, Design, and Selection
6	Construction and Building
6.1	Basic Requirements
6.2	Construction
6.3	Debugging and Testing
6.4	Acceptance
7	Operation and Maintenance
7.1	Basic Requirements
7.2	Operation Management
7.3	Inspection, Testing, Maintenance and Upkeep
7.4	Health Monitoring and Diagnosis
7.5	Repair and renovation
7.6	Workers
7.7	Fault Management
7.8	Accident Management

Foreword

GB/T 47718-2026 | Amusement park - Management specification for critical equipment and facilities

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01 State Administration for Market Regulation The State Administration for Standardization issued a statement.

1.Scope This document specifies the general requirements, installation, design and selection, construction, operation and maintenance of important equipment and facilities in amusement parks. Management requirements. This document applies to important equipment and facilities as specified in GB/T 42101. The management of other equipment

and facilities in amusement parks and tourist attractions shall be carried out in accordance with this procedure.

4 General Requirements

4.1 The basic safety requirements for important equipment and facilities in amusement parks shall comply with the provisions of GB/T 42101.

4.2 Amusement parks should comply with the requirements of Appendix B of GB/T 42101-2022 and this document, taking into account the specific characteristics and management requirements of the amusement park itself. The requirement is to establish a list of important equipment and facilities in the park and implement a list-based hierarchical and categorized management system for these important equipment and facilities.

4.3 Amusement parks should effectively manage all relevant elements throughout the entire life cycle of important equipment and facilities to ensure they meet legal and regulatory requirements and mandatory standards. National standards, design implementation standards, and requirements for actual use.

4.4 Amusement parks should establish a safety management system for important equipment and facilities in accordance with GB/T 42104-2022, based on their actual operating conditions. Relevant documents should be effectively implemented, regularly evaluated, and continuously improved.

4.5 Amusement parks should, based on their actual operating conditions, establish equipment and facility management departments or assign dedicated management personnel, and clearly define the safety requirements for each type of equipment and facility. The person in charge of management, and the specific manager of each piece of equipment and facility.

4.6 Amusement parks shall, in accordance with the requirements of this document and GB/T 42103, conduct safety risk identification and assessment of important equipment and facilities, and ensure safety. Comprehensive risk classification management. When significant changes occur in process parameters, safety protection devices, or the on-site environment, a new safety risk assessment should be conducted. Differentiate from assessment. Appendix A provides examples of common failures or accidents in critical equipment and facilities.

4.7 Important equipment and facilities should have operation and maintenance manuals, which should include at least the following.

- a) Overview, structural introduction, and working principle;
- b) Main parameters and technical specifications;
- c) Operating conditions;

- d) The design service life of the entire machine and its main load-bearing components;
- e) List of easily damaged parts, replacement conditions or replacement cycle;
- f) Operating procedures, methods, and precautions;
- g) Inspection items and requirements for daily, weekly, monthly (including quarterly and semi-annual), and annual (including multi-year) inspections, and their corresponding inspection... The self-inspection requirements, including inspection and testing (including non-destructive testing) methods and the proportion of inspections, should be presented in a table format.

5 Setup, Design, and Selection

5.1 The installation of important equipment and facilities shall meet the requirements of GB/T 47726 and GB/T 47727, and the proposed sites for the construction of important equipment and facilities shall be clearly defined. Environment (such as geological conditions, altitude, climate characteristics, temperature, humidity, etc.), power supply and distribution, surrounding power transmission and distribution lines, pipeline layout, residents Information on areas, roads and bridges, flammable and explosive sites, tall plants, and other equipment and facilities. The location of key equipment and facilities in indoor amusement parks. It should also meet the requirements of GB/T 47728.

5.2 The installation of important equipment and facilities, while ensuring personal safety, should also be based on their function, operation and production, visitor flow, and other factors. The spatial layout is determined by factors such as emergency evacuation and rescue, population density, managed animals, and site environment.

5.3 The site layout of important equipment and facilities should facilitate the observation, inspection, testing, and maintenance of their operational status, and avoid interference from geological conditions and other factors. The impact of meteorological disasters.

5.4 Important equipment and facilities should have sufficient clearance from surrounding buildings, structures, roads, bridges, tall plants, public facilities, and other equipment and facilities. Sufficient safe space and distance should be provided; if unavoidable, effective safety protection measures should be taken.

5.5 Important equipment and facilities not intended for tourist use that could cause personal injury to tourists if they malfunction should not be located in tourist activity areas. If this is confirmed... It must be located in an adjacent area, and reliable security measures should be taken.

5.6 Hazardous chemical and flammable medium storage facilities, important power supply and distribution equipment and facilities, and flammable gas pressure regulating or... exposed to outdoor densely populated areas Gas distribution equipment and instrument valves (plugs), etc., should be equipped with reliable safety protection boxes or nets and

monitoring measures.

5.7 The design documents for equipment modification must be approved by the technical head of the design unit. The amusement park should archive the modification documents and the revised usage and maintenance documents. Maintenance instructions.

5.8 When selecting standardized products, ensure that their parameters and specifications are compatible with the system and environment, and address any potential issues arising from mismatches. Safety protection designs should be implemented to address hazards. Applicants should also select equipment that has obtained the relevant certifications (if required), is technologically mature, has stable performance, and is safe. Standardized products that are reliable, have successful engineering applications, and have been validated by the market and engineering practice.

5.9 For non-standard important equipment and facilities, the client and the designer shall respectively follow the following requirements.

a) Design Unit. 1) Safety should be the primary principle; there should be no single, undetectable, or unmaintainable point of failure. If unavoidable, it should be treated as a permanent failure. Lifespan design, and comprehensive quality control measures during manufacturing or construction; 2) Clearly define the functions and key operating parameters of non-standard critical equipment and facilities (e.g., capacity, speed, power, pressure, etc.). Temperature and medium, etc.); 3) The design brief should clearly define its functional requirements, technical parameters, performance indicators, and acceptance requirements; 4) The design should include all calculations, accurate results, a reasonable structure, and complete content; 5) Complete and effective safety protection facilities and devices should be provided; 6) The equipment operation, maintenance, and repair manual should comprehensively cover the key components and parts involved in the safety analysis and design calculations, and should comply with... In accordance with the provisions of 4.7.

b) Design commissioning unit. 1) For projects requiring specific qualifications, the design should be commissioned to a unit with relevant engineering design experience and qualifications; 2) Organize personnel or entrust a third-party technical institution to review the safety and rationality of the design.

5.10 Key fire and explosion prevention equipment and facilities such as oil depots (tanks), gas stations, pressure vessels, pressure pipelines, cable tunnels (trenches), and charging piles should adopt... Effective and reliable safety measures such as monitoring, surveillance, early warning, fire prevention, explosion prevention, and poison prevention.

6.1 Basic Requirements

6.1.1 The construction (including factory manufacturing and on-site manufacturing) and construction (including civil engineering and equipment installation) units of important equipment and facilities shall possess the following qualifications. It possesses the relevant