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

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**General specification for security engineering
(English Translation)**

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1 General

1.0.1

This specification is formulated to standardize the construction of safety protection projects, the operation and maintenance of safety protection systems, improve the level of safety protection, protect personal safety and property safety, and maintain social security and stability.

1.0.2

Safety protection engineering must implement this specification.

1.0.3

Safety protection engineering construction, safety protection system operation and maintenance should follow the following principles.

- 1 Prevention is commensurate with risk;
- 2 Combination of human defense, physical defense and electronic defense, coordination of detection, delay and response;
- 3 Meet the requirements of protection in depth and balanced protection;
- 4 Meet the requirements for safe, reliable and stable operation of the security system.

1.0.4

Whether the technical methods and measures adopted in the project construction meet the requirements of this specification shall be judged by the relevant responsible parties.

Among them, the innovative technical methods and measures should be demonstrated and meet the relevant performance requirements in this specification.

2 Basic regulations

2.0.1

The construction of safety protection projects and the operation and maintenance of safety protection systems should be coordinated and managed throughout the life cycle.

2.0.2

The safety protection system shall consist of a physical protection system and an electronic protection system, and shall meet the following requirements.

1 should choose to use natural barriers, artificial barriers, protective appliances (equipment), etc. to build physical protection systems;

2 Intrusion and emergency alarm system, video surveillance system, entrance and exit control system, parking garage (field) safety management system, safety inspection system, apartment intercom system, electronic inspection system, safety protection management platform, etc. should be selected to construct the electronic protection system.

2.0.3

The equipment and materials used in the safety protection system shall pass the inspection.

2.0.4

The security system and device login passwords should not be weak passwords, and there should be no network security loopholes and hidden dangers. When systems and devices based on different transmission networks are networked, corresponding network border security management measures should be taken.

2.0.5

Safety protection project construction, safety protection system operation and maintenance should implement safety and confidentiality responsibilities, and should have measures to protect state secrets, commercial secrets and personal privacy.

3.1 Arming Design

2 should be equipped with communication equipment for internal and external communication;

3 An emergency alarm device shall be installed and be able to send alarm information to the outside;

4 When the duty area of the monitoring center and the equipment area are two independent physical areas and are not adjacent, protective measures should be taken for the transmission cables between the two areas;

5 In addition to complying with the provisions of paragraphs 1 to 3 of this article, the equipment area of the independent monitoring center shall also be equipped with intrusion detection and entrance and exit control devices.

3.1.10

The protection of the protection target should be based on the site environment and security management requirements, choose to set up physical protection, intrusion detection, displacement detection, video surveillance and other facilities. and should meet the following regulations.

1 Physical protection facilities should meet the requirements of different protection objectives against corresponding risks;

2 Intrusion detection, displacement detection and other devices should be able to detect intrusion behaviors approaching and moving protection targets;

3 The video surveillance area should cover the protection target, and the collected images should be able to clearly show the activities of people in the surveillance area;

4 When the protection target involves confidentiality or privacy protection needs; video surveillance should meet the requirements of confidentiality or privacy protection.

3.1.11

When it is necessary to check the safety of passers-by, objects, and vehicles, a safety inspection area shall be set up at or near the entrance and exit of the protected area, and corresponding safety inspection and disposal facilities shall be equipped.

3.1.12

Before designing the safety protection system for special environments such as flammable and explosive, hazard identification should be carried out, and equipment and deployment locations should be selected according to the type of hazardous location, and pipeline routing should be planned.

3.1.13

When the protected object is determined to be the key target of terrorist attacks, in addition to complying with the provisions of Articles 3.1.2 to 3.1.12 of this specification, one or more of the following protective measures shall be selected.

1 Strengthen perimeter defense measures;

- 2 Carry out security checks on people, objects, vehicles, etc. entering and leaving;
- 3 Pedestrian access gates, vehicle physical barriers, safety buffer zones, isolation areas, etc. are set up at important entrances and exits, aisles and passages;
- 4 Strengthen video surveillance and dynamic monitoring and early warning in densely populated areas;
- 5 The monitoring center and other important parts (areas) jointly set up physical protection and electronic protection facilities;
- 6 Take defensive measures against unmanned aerial vehicles;
- 7 Strengthen the allocation of human resources for prevention.

3.2 System Architecture Design

3.2.1

The subsystem composition, integration/network mode, transmission network, system management, storage mode, system power supply, interface protocol and other elements of the security protection system shall be determined in accordance with the principles of security, controllability, and openness and sharing.

3.2.2

The subsystems of the safety protection system shall be determined according to the site survey and risk prevention requirements and the deployment design.

3.2.3

One or more of the following system integration/networking methods should be selected according to the actual needs of sharing and exchanging various information resources and the complexity of the system.

- 1 Signal drive linkage between subsystem devices;
- 2 Protocol communication linkage between subsystems;
- 3 The security management platform integrates each subsystem;
- 4 Networking among security protection management platforms;
- 5 The security management platform is connected to other systems.

3.2.4

The security protection system for high-risk protected objects should use a dedicated transmission network.