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

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**General technical specification for public safety monitoring of
urban infrastructure**

城市基础设施公共安全监测通用技术规范

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Introduction

With the acceleration of urbanization, production and living factors are highly concentrated, and urban infrastructure such as gas, water supply, drainage, integrated pipelines, bridges, etc.

The scale and types of urban safety risks continue to expand, making them characterized by disaster coupling, accident chain, risk superposition, and loss amplification.

Carry out systematic and comprehensive prevention and control of public safety risks in urban infrastructure.

To comprehensively identify public safety risks of urban infrastructure, accurately monitor and warn, and quickly respond to risk events, and prevent possible Gas explosions, pipe bursts, road collapses and other incidents and their resulting secondary, derivative and coupled accidents, protect the lives and property of the people, maintain This document is formulated to protect social security and stability.

This document proposes the methods and requirements for public safety monitoring of urban infrastructure in China, in order to improve the comprehensive prevention and control of urban public safety risks. Capabilities provide support.

General technical specifications for public safety monitoring of urban infrastructure

1 Scope

This document specifies the overall requirements for urban infrastructure public safety monitoring, the classification of monitoring objects, monitoring procedures and methods, and monitoring networks.

The requirements include network construction, engineering database construction, monitoring system construction, operation monitoring center construction, monitoring early

warning and linkage response, and continuous improvement.

This document is applicable to risk assessment, engineering design, system construction, linkage response, operation and maintenance of public safety monitoring of urban infrastructure. Protection, etc.

2 Normative references

GB 17859

GB/T 22240

GB/T 25058

GB/T 28827.1

GB/T 38209

GB/T 42768

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Urban infrastructure

An important infrastructure that maintains the normal operation of the city and meets the production and living needs of the people.

Note. Urban infrastructure in this document includes systems and facilities such as urban gas, water supply, drainage, integrated pipeline corridors, and bridges.

3.2 process

Starting from the overall safe operation of the city, with public safety technology as the core and supported by information technologies such as the Internet of Things and big data, Real-time monitoring, dynamic early warning, and coordinated disposal of infrastructure operation status to detect and control risks early and ensure the safe operation of urban infrastructure

3.3 important site

Risks that have an impact on the operation of urban infrastructure or have an impact on the operation of infrastructure need to be included in the urban public safety risk monitoring system.

The location of the measurement range.

3.4 risk assessment

Includes the entire process of risk identification, risk analysis and risk assessment.

[Source. GB/T 23694-2013, 4.4.1]

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