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Specification for the operation service of urban utility tunnels

城市综合管廊运营服务规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard was proposed and managed by the National Urban Public Facilities Service Standardization Technical Committee (SAC/TC537). This standard was drafted. Beijing Institute of Standardization, Zhuhai Dahengqin Technology Development Co., Ltd., Shanghai Municipal Engineering Design and Research General Institute (Group) Co., Ltd., Guangzhou Municipal Engineering Design & Research Institute Co., Ltd., China Municipal Engineering Central South Design & Research Institute Co., Ltd. Division, Hubei Provincial Institute of Standardization and Quality, Guangzhou Guangsteel Gold Industry Group Co., Ltd., China Construction Third Bureau Installation Engineering Co., Ltd., Beijing Yuanzhong Branch Technology Co., Ltd., Beijing Municipal Sixth Construction Engineering Co., Ltd., Zhejiang Zheda Zhongkong Information Technology Co., Ltd., Kunming City Underground Space Planning Management Office, Singularity New Source International Technology Development (Beijing) Co., Ltd., Sichuan Junyi Digital Technology Co., Ltd., China Northeast Engineering Research Institute of Municipal Engineering Co., Ltd., Zhengyuan Geographic Information Group Co., Ltd., Nanjing Surveying and Mapping Research Institute Co., Ltd., Hunan Xinguang Intelligent Technology Co., Ltd., Hebei Chengxing Municipal Design Institute Co., Ltd., Hebei Institute of Architectural Engineering, Zhongguan Cunleijia Smart Living District Industry Technology Alliance, Green Building Smart Technology (Beijing) Co., Ltd., Jiangsu Security Technology Co., Ltd. Interest Group Co., Ltd., Shanghai Youzheng Software Co., Ltd. The main drafters of this standard. Liu Xuetao, Ma Liqun, Xu Dapeng, Deng Lianbing, Yu Siyang, Tian Chuan, Li Tong, Xie Zhiqiang, Hou Zhiqun, Chen Yanbo, Liu Nian, Chen Yilong, Zhang Jianliang, Xiao Hongyan, Wang Qinglei, Yang Guoliang, Li Yongfeng, Luo Yulong, Zhao Fuyuan, Wang Bing, Zhang Zhirui, Li Xuejun, Wang Xinliang, Wang Shumin, Shi Yongjiang, Wang Gang, Yao Cuiyou, Yang Hong, Liu Wenwu, Jin Shanchao, Jiao Dawei, Zhang Yiming, Yang Hao. Urban integrated pipeline corridor operation service specifications

1 Scope

China's national specification for operating urban utility tunnels. It specifies the terms and definitions, the general provisions, the basic process, the service requirements and the quality assessment. A utility tunnel is a walkable subterranean gallery carrying water, power, communications, gas and heating together, and China has built them on a scale nobody else has attempted, as a deliberate policy to end the cycle of digging up new roads to lay and repair services. The construction is the easy part; the operation is what this standard addresses, and it is a genuinely new discipline. The tunnel is a confined space containing services owned by different utilities, each of which needs access to its own plant and none of which controls the tunnel. It needs ventilation, drainage, fire detection, gas detection and continuous monitoring, and it needs a single operator who coordinates the access of everyone else and is responsible for the environment they work in.

This standard specifies the general rules, basic procedures, service requirements, and quality evaluation of urban integrated corridor management services. This standard applies to the daily operation services and management of urban integrated corridors.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB 50838 Technical Specifications for Urban Comprehensive Pipe Gallery Projects

GB/T 51274 Engineering Technical Standards for Monitoring and Alarm System of Urban Comprehensive Corridor

GB 51354 Operation and Maintenance and Safety Technical Standards for Urban Underground Comprehensive Pipe Gallery

3 Terms and definitions

The terms and definitions defined in GB 50838, GB 51354 and the following apply to this document.

3.1 Integrated tunnel operation service Operation, operation, management and maintenance activities to ensure the normal operation of the integrated pipe gallery body, auxiliary facilities and pipelines.

3.2 Operation and maintenance management section Units that provide integrated pipe gallery operation services.

4 General

4.1 Systematic Urban integrated corridor operation is a systematic project. It should start from the operation management unit taking over the integrated corridor to the end of the comprehensive corridor operation service. Only by using a systematic management model to standardize the operation services of the integrated corridor, and improve the efficiency of the use of the integrated corridor.

4.2 Normalization Urban integrated pipeline corridor operation services shall regulate the service relationship between pipeline corridor management units and pipeline pipeline units, and provide process services. Services, effectively control the internal environment of the corridor, reduce operational risks, and maintain normal operations of the corridor.

4.3 Wisdom Pipeline operations and provision of services should make full use of big data, cloud computing, the Internet of Things, building information modeling (BIM), and augmented reality (AR), etc. Information technology promotes intelligent management of urban integrated corridors.