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**Smart water saving management system for water users - Part
1: Guidelines**

用水单位智慧节水管理系统 第1部分：导则

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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.

This document is Part 1 of GB/T 45892 "Smart Water Saving Management System for Water Users". GB/T 45892 has been published as follows part.

- Part 1: Guidelines.

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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This document was drafted by: Ningbo Donghai Group Co., Ltd., China National Institute of Standardization, Beijing University of Technology, China Urban Planning and Design Research Institute Research Institute, National Information Center, Tsinghua University, Hengsheng Water Environment Management Co., Ltd., Hangzhou Water Affairs Digital Technology Co., Ltd., Beijing Guorui Zhixin Water Saving Technology Co., Ltd., Shanghai Water Supply Meter Compulsory Inspection Station Co., Ltd., Ningbo Water Meter (Group) Co., Ltd., Qingdao Qiancheng Technology Co., Ltd., Shanghai Weipaige Smart Water Co., Ltd., Shenzhen Huichuan Technology Co., Ltd., Henan Hengan Environmental Protection Technology Co., Ltd., University of Science and Technology Beijing, Fuzhou Water Group Co., Ltd., Huijie Design Group Co., Ltd., Qingdao Haiwei Ci Instrument Co., Ltd., Zhoushan Water Supply Co., Ltd., Beijing Aerospace Weike Environmental Protection Technology Co., Ltd., China Railway Construction Development Group Co., Ltd., Inner Mongolia Agricultural University, Changzhou Changgong Electronic Technology Co., Ltd., Shanghai Municipal

Engineering Design and Research Institute (Group) Co., Ltd., Yellow River China Construction Eighth Engineering Bureau Second Construction Co., Ltd., China Power Construction Municipal Engineering Group Co., Ltd., China Railway Shanghai Haicheng Engineering Bureau Group Co., Ltd., Tonghao Engineering Bureau Group Construction Engineering Co., Ltd., Inner Mongolia Dongyuan Environmental Protection Technology Co., Ltd., China Construction Communications Construction Group Co., Ltd., China Power Engineering Group Environmental Engineering Co., Ltd., China Railway Fourth Engineering Bureau Group Co., Ltd., Anhui Sunyu Water Co., Ltd.

Co., Ltd., China Wuye Group Co., Ltd., Gezhouba Group Ecological Environmental Protection Co., Ltd., Guangdong Water Conservancy and Hydropower Survey and Design Institute Co., Ltd., China Construction Ecological Environment Group Co., Ltd., Beijing Capital Ecological Environmental Protection Group Co., Ltd., Shenzhen Taiborui Technology Co., Ltd.

Shenzhen Environmental Water Group Co., Ltd., Aoli Machinery (Group) Co., Ltd., Jinan Mike Valve Technology Co., Ltd., China Construction Installation Group Group Co., Ltd., China Nuclear Industry Zhongyuan Construction Co., Ltd., China Railway Construction Investment Group Co., Ltd., China Railway Shanghai Engineering Bureau Group Co., Ltd.

Zheng Environmental Engineering Co., Ltd., Shanghai Guanglian Environmental Geotechnical Engineering Co., Ltd., Chongqing Design Group Co., Ltd., Henan Hanyuan Water Co., Ltd.

Co., Ltd., Zhuojing Water Technology (Hangzhou) Co., Ltd., Hunan Water Planning and Design Institute Co., Ltd., Harbin Institute of Technology Water Resources National Engineering Research Center Co., Ltd., Shenzhen Kerong Software Co., Ltd., Shandong Huali Water Supply Equipment Co., Ltd., Shanghai Ruili Water Science and Technology Co., Ltd.

Technology Co., Ltd., Guangzhou Yuandong Information Technology Co., Ltd., Xinjiang Herun Technology Co., Ltd., Hangzhou Wentuo Intelligent Technology Co., Ltd., Jinka Water Technology Co., Ltd., Weizhi Co., Ltd., Wuchan Zhongda (Tongxiang) Water Treatment Co., Ltd., Qingdao Jicheng Electronics Co., Ltd., Zhejiang Leo Information Technology Co., Ltd., Shenzhen Water Technology Service Co., Ltd., Zhejiang Yugong Information Technology Co., Ltd., Anhui Water Service Technology Co., Ltd.

The main drafters of this document are: Bai Yan, Lin Sen, Zhang Zhiguo, Chen Zhijie, Xiao Yang, Jiang Mengchen, Zhao Ruibin, Lan Chengming, Chen Zhenfei, Yang Haoming, Runan, Zhang Cheqiong, Zhou Min, Ni Fei, Liu Liang, Xiang Tao, Quan Xingan, Xue Hao, Sun Mingzhi, Wei Zhongqing, Liu Zhifeng, Niu Jintao, Jin Baodan, Bai Jinchao, Yao Yongsheng, Chen Wei, Chai Lübo, Zhang Xiaohong, Cheng Guodong, Li Ya, Xu Zhensheng, Chen Dongxu, Liu Xiaomin, Yang Yaotian, Li Xinhong, Rui Min, Yan Dengming, Qu Zhen, Ji Qi, Wang Fupeng, Wang Yanhui, Wang Jing, Zhou Zhijian, Shen Zhenglong,

Chen Wenyin, Deng Bangwu, Liao Xingguo, Zhong Chen, Lai Guoyou, Jin Tao, Cai Ran, Li Tao, Wang Yiqiang, Li Shengyong, Yang Haining, Xia Fan, Wang Chenwei, Shen Pengfei, Dong Zhiqiang, Lu Jiansheng, Ao Lianggen, Zhang Longzhu, Liao Longdan, Zhang Wei, Liu Zhiyuan, Fan Xinying, Liu Tiefeng, Meng Qingjie, Chen Xingqin, Xing Yumin, Bai Wenlong, Song Chao, Zhou Wen, Huang Jingxin, Jiang Shuai, Li Peilin, Zhang Yiwei, Deng Panpan, Zhang Gongliang, Wang Hanwei, Lin Feng, Ye Wenzhang, Zhou Zhiwei, Liu Jie, Liao Yijian, Zhang Zixuan, Hu Yang, Fu Li, Jin Junwei, Huang Weibo, Jing Malong, Lin Ming, Wu Chuandong, Zhang Zhaojun, Chen Qianqian, Ma Yue, Huang Peihong, Wang Hongzhi, Yao Junshan, Chen Shijian, Chen Zhimou, Chen Jian, Zhang Jun, Zhang Shanliang, She Kai, Huang Hongjun, Zhou Jishan, Chen Zhifu, Zhang Rengong, and Li Junling.

Introduction

The intelligent water-saving management system for water users is an important means to tap water-saving potential, assist water-saving decision-making, and improve water use efficiency.

The series of standards for smart water-saving management systems for water users are the standards for the system.

Provide unified standards and guidelines for the entire life cycle management of planning, design, construction, acceptance and operation management, effectively improving project quality and management level level, reduce overall costs, guide the innovative application of new technologies, promote the high-quality development of the water-saving industry, and lay a solid foundation for the sustainable development of water resources.

GB/T 45892 "Smart Water Saving Management System for Water Users" is intended to consist of three parts.

- Part 1: Guidelines;
- Part 2: Information coding;
- Part 3: Monitoring system.

Smart water-saving management system for water users Part 1: Guidelines

1 Scope

This document specifies the overall requirements, functions, deployment and architecture, and performance requirements of the smart water-saving management system for water users.

This document applies to the construction and operation of smart water-saving management systems for water-using units.

2 Normative references

GB/T 8566

GB/T 12452

GB/T 18185

GB/T 21534

GB/T 24789

GB/T 25070

GB/T 28827.1

GB/T 37973

3 Terms and Definitions

The terms and definitions defined in GB/T 21534 and the following apply to this document.

3.1 Management model

Based on the water-saving goals of water users, combined with the Internet of Things (IoT), cloud computing, big data, artificial intelligence and other new generation information technologies, Build a water-saving management platform to monitor the operation status of the water system in real time, analyze and process data, and form a fusion of intelligent perception, simulation and Comprehensive operations such as verification, diagnosis, early warning, dispatching and control drive continuous improvement of water use efficiency and benefit levels, and provide support for water-saving decision-making

4 General Requirements

4.1 The principles of scientificity, economic feasibility, technological advancement and scalability should be followed and the water management needs and water conservation goals should be implemented.

The construction of a smart water-saving management system will be planned and implemented in stages.

4.2 The software development and testing of the system shall be carried out in accordance with GB/T 8566, and the operation and maintenance of the system shall be carried out in accordance with GB/T 28827.1.

4.3 The system's network and information security should comply with GB/T 25070 and relevant national information security regulations, and data security management should comply with GB/T 37973 and relevant national information security regulations.