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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HY/T 167-2013

Design code for domestic seawater system

大生活用海水应用系统设计规范

(English Translation)

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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 by the Tianjin Seawater Desalination and Comprehensive Utilization Research Institute of the State Oceanic Administration.

This standard is under the jurisdiction of the National Marine Standardization Technical Committee (SAC/TC283).

Introduction

The seawater technology for large domestic use is a direct seawater utilization technology that uses pretreated seawater as domestic miscellaneous water (mainly used for toilet flushing).

Techniques mainly include seawater intake, pre-treatment, water transmission and distribution, and seawater-containing sewage treatment technologies. Its series of design specifications are determined by it is composed of "Code for Design of Application System" and "Code for Design of Seawater Post-treatment for Large-scale Domestic Use".

Among them, HY/T 168-2013 "Code for Design of Seawater Post-treatment for Large-scale Domestic Use" is divided into four parts.

---Part 1: Activated sludge method;

---Part 2: Contact oxidation method;

---Part 3: Membrane Bioreactor Method;

---Part 4: Ecological pond method.

Design specification for sea water application system for large domestic use

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1 Scope

This standard specifies the engineering design of water intake, pre-treatment, water transmission and distribution pipelines, structures, and pump houses for the design of large-scale domestic seawater systems.

This standard is applicable to the design of large-scale living seawater engineering.

2 Normative references

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

GB 50013 Outdoor Water Supply Design Code GB 50015 Code for Design of Building Water Supply and Drainage GB/T 50265 Design Specification for Pumping Station JTJ275 Technical Specification for Corrosion Prevention of Concrete Structures in Seaport Engineering

3 Terms and definitions

The following terms and definitions defined in GB 50013 apply to this document. For ease of use, GB 50013 is repeatedly listed below Some terms and definitions in.

Domesticseawater

Sea water used for toilet flushing in public and residential toilets.

Seawaterconsumption

The amount of sea water consumed by the user for life.

Unforeseendemand

The amount of water prepared for various factors that are difficult to predict in the design of a large domestic seawater system.

Note: Rewrite GB 50013-2006, definition 2.0.8.

Leakage of pipe network the amount of water lost by seawater in the process of distribution.

Note: Rewrite GB 50013-2006 and define 2.0.10.

Dailyvariationcoefficient the ratio of the highest daily seawater consumption to the average daily seawater consumption in the large domestic seawater system.

Note: Rewrite GB 50013-2006 and define 2.0.12.

Hourlyvariationcoefficient in the design of a large domestic seawater system, the ratio of seawater consumption on the highest day to the average seawater consumption on that

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day.

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