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**PROFESSIONAL STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA**
中华人民共和国石油化工行业标准

SH 3015-2003
Replace SH 3015-1990

**Code of Design for Water & Wastewater in
Petrochemical Engineering**
石油化工企业给水排水系统设计规范

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Foreword

According to the notice of the former State Economic and Trade Commission "Notice on Issuing Development and Revision Project Plan of Petrochemical Professional Standard in 2002" (GJMTHY [2002] No. 36) and Document Jian Biao [2001] No. 141 of Sinopec, Sinopec Ningbo Engineering Company Limited revises the original SH 3015-1990 (SHJ 15-90) "Code of Design for Water & Wastewater in Petrochemical Engineering", and Engineering and Construction Administration Department of SINOPEC organizes to examine and approve this code.

This code comprises 6 chapters with the main contents as follows: scope, terms and definitions, water supply and drainage, water quantity calculation and water supply and drainage unit.

Compared with SH 3015-1990 (SHJ 15-90) "Code of Design for Water & Wastewater in Petrochemical Engineering", this code has the following main changes: chapters are rearranged; partial terms are revised; reuse water and water consumption for flushing tank are supplemented. The classification of water quality and water supply system and the arrangement of firefighting water supply system, etc. are also revised and supplemented.

The provisions in bold in this code are compulsory ones and must be enforced strictly.

During the implementation process of this code, the opinions and relevant data, whenever necessary, can be posted or passed on to the chief development organization (address: No. 1, Fuli West Road, Xigu District, Lanzhou City, Gansu Province, 730060, China) for further reference. The chief development organization is responsible for the explanation of this code.

Chief development organization of this code: Sinopec Ningbo Engineering Company Limited

Participating development organizations: Lanzhou Refining Chemical Design Institute, CNPC

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SH 3015-2003

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1 Scope

This code specifies the requirements for the design for water & wastewater in petrochemical engineering;

This code defines the terms for the design for water & wastewater in petrochemical engineering;

This code is applicable to the design for water & wastewater of new project and the design for extended and renovated project may refer to this code.

2 Terms and Definitions

For the purposes of this code, the following terms and definitions apply.

2.1

Process water

Water supplied by water source or water treatment plant and directly used for production process.

2.2

Reuse water

Water used and recovered for reuse.

2.3

Series use

The use when one system is used up, it is directly connected into the next system.

2.4

Non-polluted wastewater

Wastewater not polluted or lightly polluted and with slight water temperature rise, meeting the emission standard without treatment.

2.5

Polluted industrial wastewater

Industrial wastewater polluted by production process.

2.6

Domestic sewage

General term of domestic sewage and domestic wastewater.

2.7

Plant capacity

Annual plant treatment or production capacity determined through material balance according to design specification.

2.8

Design water consumption of maximum daily

Water consumption of maximum daily all year around.

2.9

Design water consumption of maximum hourly

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