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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

SH3034-2012 Replace SH3034-1999

Specification for design of water supply and wastewater piping in petrochemical industry 石油化工给水排水管道设计规范

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Foreword

According to the requirements of the *2006 Industry Standard Project Plan* (FGBGY [2006] No. 1093) issued by the National Development and Reform Commission General Office, through extensive investigation and study, serious summary of practical experience, by referring to relevant international standards and advanced foreign standards and on the basis of soliciting opinions from all sides, the Specification Preparation Group revised this Specification.

This Specification is divided into 9 chapters.

The main technical contents of this Specification include: Piping, auxiliary structures, hydraulic calculation, piping material selection and connection, piping anti-corrosion and thermal insulation and other provisions.

This Specification is a revision on the basis of SH3034—1999 *Specification for the Piping Design of Water Supply and Drainage in Petrochemical Industry*, and the main revised technical contents include:

- —— Added the chapter of Terms and Definitions;
- —— Added the relevant contents of water hammer calculation;
- —— Added design requirements of piping supports and hangers;
- Made separate provisions for material selection scope of various piping;
- Summarized the past experience fire protection design in the form of water-sealing well and modified fire protection design of water-sealing well.

The articles written in bold-face in this specification are mandatory provisions, which shall be strictly implemented.

The China Petrochemical Corporation (SINOPEC) is responsible for the management of this specification; the Water Supply and Drainage Design Technology Center of SINOPEC is responsible for the daily management; and SINOPEC Ningbo Engineering Co., Ltd is responsible for the interpretation of the specific technical contents. If there are any comments and suggestions during the implementation process, please send them to daily management organization and chief editorial organization.

Daily management organization of this Specification: The Water Supply and Drainage

Design Technology Center of SINOPEC

Contact address: No. 21 of Anyuan Park, North Anhui Lane, Chaoyang District, Beijing

Postal code: 100101

Phone: 010-84876985

Fax: 010-84876990

The chief editorial organizations of this Specification: SINOPEC Ningbo Engineering

Company Limited

Contact address: No. 660 of Shiyuan Road, High-tech Zone, Ningbo City, Zhejiang

Province

Postal code: 315103

Organizations engaged in preparation of this Specification:

SINOPEC Engineering Incorporation

Luoyang Petrochemical Engineering Corporation Ltd. /SINOPEC

SINOPEC Shanghai Engineering Co., Ltd.

Xi'an Chang Qing Technology Engineering Co., Ltd.

PetroChina Lanzhou Petrochemical Company

The main drafters of this Specification: Chen Xin, Shi Huinan, Zhou Lan, Meng Xiaofei,

Guo Zhiqiang, Teng Zongli, Wu Qiangchu, Qiu Jianzhong and Wu Wenge

Main reviewers of this Specification: Li Jiaqiang, Ge Chunyu, Han Hongqi, Zhang Yue,

Zou Zhi, Xu Min and Quan Jianyu

This Specification was first issued in 1991, first revised in 1999, and this time is the second revision.

Specification for the Piping Design of Water Supply and Drainage in Petrochemical Industry

1 Scope

This Code specifies the requirements of the piping design of water supply and drainage in petrochemical industry.

This Specification is applicable to the piping design of water supply and drainage in petrochemical industry.

2 Normative references

The articles contained in the following documents have become this Code when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Code.

GB 50011	Code for seismic design of buildings			
GB 50013	Code for design of outdoor water supply engineering			
GB 50014	Code for design of outdoor wastewater engineering			
GB 50015	Code for design of building water supply and drainage			
GB 50016	Code of Design on Building Fire Protection and Prevention			
GB 50025	Code for building construction in collapsible loess regions			
GB 50032	Code for seismic design of outdoor water supply sewerage gas and heating			
engineering				
GB 50160	Fire prevention code of petrochemical enterprise design			
GB 50233	Code for construction and acceptance of 110~500kV overhead transmission			
line				
CECS 10	For buried steel water pipeline technical standard of cement mortar lining			
SH 3010	Specification for the insulation of equipment and pipe for petrochemical			
industry				
SH 3015	Code of design for water & wastewater in petrochemical engineering			
SH 3024	Design Code for Environmental Protection to Enterprises in Petrochemical			
Industry				
SH/T 3073	Design Specification for Piping Support and Hanger in Petrochemical			



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