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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/T 3053-2002

Replace SH 3053-1993

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**General plot plan design code of  
petrochemical enterprises**

**石油化工企业厂区总平面布置设计规范**

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## Foreword

The Specification comes into being after Sinopec Engineering Incorporation revises the original *General Plot Plan design code of Petrochemical Enterprises-SH 3053-93* according to the notices of No. 088 Paper of JB Zi 「2001」 of Sinopec.

This specification is divided into eight chapters and one normative annex, and the main contents are as follows: scope, terms and definitions, general provisions, process plant, auxiliary production and utility facilities, storage facilities, transportation facilities, production management and service facilities. The main contents revised in this time include: Add the chapter of Terms and Definitions; Split chapter of storage facilities of original specification into two chapters: storage facilities and transportation facilities; modify some parts of main technical and economic indicators; cancel table of space between cooling tower and adjacent facilities and that between large storage yard and protection of buildings and structures.

In revision, conduct relatively extensive investigation, sum up practical experience in general plot plan of petrochemical plant in recent years, solicit opinions of relevant design, production and other units, and finalize after examination of Sinopec Engineering Construction Management Department.

In the implementation of this specification, in case of needing to modify and supplement, please provide opinions and relevant data to chief editorial unit (address: Building 21, Anyuan, Anhui Beili, Chaoyang District, Beijing, Postal Code: 100101), for the reference for future revision. The chief editorial unit is in charge of the explanation.

Chief editorial unit of the specification: Sinopec Engineering Incorporation

Main drafters: Wang Xiuyun

## **General plot plan design code of petrochemical enterprises**

### **1 Scope**

**1.1** This specification unifies design principles and technical requirements for general plot plan of petrochemical enterprises.

**1.2** This specification is applicable to design of general plot plan of newly built, rebuilt and expanded petrochemical enterprises.

**1.3** The implementation of this standard should also comply with the provisions of existing relevant mandatory standard specifications.

### **2 Terms and definitions**

The following terms are applicable to this specification.

#### **2.1**

##### **Works area**

Area is composed of process plant, support facilities, utility facilities, storage facilities, transportation facilities and manages facilities for produce and serve, etc.

#### **2.2**

##### **Process plant**

Complex finishing a complete production process according to technological process, including main production area (including several production units), intermediate storage tanks and sheds, control power distribution room, sewage pretreatment and other facilities;

#### **2.3**

##### **Support facilities**

Facilities that need finishing production process with main process plant, such as tank field, central laboratory, sewage farm, maintenance room, torch, etc..

#### **2.4**

##### **Utility facilities**

Collective name of water, electricity, gas, steam, chilled water and other facilities, such as circulating water system, substation and distribution station, boiler room, air compression station, refrigeration station, etc..

#### **2.5**

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