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**中华人民共和国石油化工行业标准**

SH/T 3032-2002

Replace SH 3032-1992

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**Design specification for site plan in  
petrochemical engineering**

**石油化工企业总体布置设计规范**

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## Contents

<b>Foreword</b> .....	1
<b>1 Scope</b> .....	1
<b>2 Normative References</b> .....	1
<b>3 Terms and definitions</b> .....	1
<b>4 General requirements</b> .....	2
<b>5 Arrangement requirements</b> .....	4
<b>6 Communication and transportation</b> .....	6

## Foreword

The Specification comes into being after Luoyang Petrochemical Engineering Corporation, SINOPEC revises the original *Design Specification for Site Plan in Petrochemical Engineering* SH 3032-92 according to the notices of JB Zi (2001) No. 088 of SINOPEC.

This Specification is divided into six chapters.

Compared with *Design Specification for Site Plan in Petrochemical Engineering* SH 3032-92 (the previous version), this Specification has the following main changes: It has revised the residence area in the original specification, changed the enterprise workers residence area into socialized residence area, thus changing the old concept of regarding residence area as part of the enterprises; added the requirements of the reform of factory design pattern on the regulation, consolidation, and other aspects of the enterprise in-house facilities.

In the implementation process of the Specification, in case any modification and supplement is found necessary, please provide the opinions and relevant data for the chief editorial unit (address: No. 27 West Zhongzhou Road, Luoyang, Henan, 471003) for reference in the future revision.

Chief editorial unit of this Specification: Luoyang Petrochemical Engineering Corporation, SINOPEC

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# Design specification for site plan in petrochemical engineering

## 1 Scope

1.1 This Specification applies to the site planning design of newly constructed petrochemical enterprises. The site planning design of renovation and expansion project can use it for reference.

1.2 The implementation of this Specification shall also comply with the provisions of existing relevant mandatory standard specifications.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

SH 3093 Health protection zone standard for petrochemical industry

GB 50160 Fire prevention code of petro chemical enterprise design

GB 50201 Standard for flood control

JTJ 237 Code for Fire-prevention Design of Oil Loading/Unloading Terminals

## 3 Terms and definitions

For the purpose of this standard, the following terms and definitions shall apply.

### 3.1

#### Site planning

Conduct on the selected proposed enterprise site comprehensive planning on the factory area (functional area), residence area, adjacent enterprises, water source, power source, slag yard, transportation, vertical plane, flood control and drainage, external pipelines, development reservation and construction area, etc.

### 3.2

#### Petrochemical enterprise

The factories that take oil, natural gas and their products as raw materials, such as oil refineries, petrochemical factories, oil and chemical fiber factories or the enterprises jointly

formed by the above factories.

### **3.3**

#### **Process area**

The area that consists of process units and facilities which can emit flammable gases and which can use and produce flammable substances, such as process units, groups of tanks, loading and unloading facilities, filling stations, pumps or pumping stations, warehouses, circulating water yards, sewage treatment factories and flares; or the area formed independently with facilities such as groups of tanks, filling stations and sewage treatment factories within the factory enclosure.

### **3.4**

#### **Residence area**

Residence area refers to the living places, with a certain population and land scale.

### **3.5**

#### **Construction area**

Construction area refers to the construction area required for constructing factories, including a variety of precast yards and administrative and living area of the construction units, which does not include the temporary area within factory enclosure.

## **4 General requirements**

**4.1** Site planning in petrochemical engineering shall conduct a comprehensive consideration and uniform arrangement on the short and long term engineering projects.

**4.2** Site planning in petrochemical engineering shall comply with the following principles:

- a) The requirements of local city (town) planning, regional planning and industrial area planning;
- b) The relevant provisions of environmental protection to protect the environmental quality of the surrounding cities (towns) and residence areas, which is conducive to personal and production safety;
- c) Save land, never occupy or reduce occupation of farmland; explore new land resources where feasible, and reduce demolition;
- d) Meet production requirements, and be conducive to material handling and energy conservation;



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