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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC  
OF CHINA**

**中华人民共和国国家标准**

GB 50160—2008

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**Fire prevention code of petro chemical  
enterprise design**

**石油化工企业设计防火规范**

**Issued on December 30, 2008**

**Implemented on July 01, 2009**

**Issued by the Ministry of Housing and Urban-Rural Construction of the**

## **People's Republic of China**

## Notice on issuance of national standard *Fire prevention code of petro chemical enterprise design*

It is hereby to approve “Fire prevention code of petro chemical enterprise design” as national standard No. GB50160 – 2008 to be effective from July 1<sup>st</sup> of 2009. wherein, Articles (Paragraphs) 4.1.6, 4.1.8, 4.1.9, 4.2.12, 4.4.6, 5.1.3, 5.2.1, 5.2.7, 5.2.16, 5.2.18(2, 3, 5), 5.3.3(1, 2), 5.3.4, 5.5.1, 5.5.2, 5.5.12, 5.5.13, 5.5.14, 5.5.17, 5.5.21(1, 2), 5.6.1, 6.2.6, 6.2.8, 6.3.2(1, 2, 4, 5), 6.3.6, 6.4.1(2, 3), 6.4.2(6), 6.4.3(1, 2), 6.4.4(1), 6.5.1(2), 6.6.3, 6.6.5, 7.1.4, 7.2.2, 7.2.16, 7.3.3, 8.3.1, 8.3.8, 8.4.5(1), 8.7.2(1, 2), 8.10.1, 8.10.4(1, 2, 3), 8.12.1, 8.12.2(1), 9.1.4, 9.2.3(1) and 9.3.1 are compulsory provisions, which must be strictly implemented. The original “*Fire prevention code of petro chemical enterprise design*” No.GB50160 –92 (Edition 1999) shall be abolished at the same.

This Code shall be published China Planning Press organized by the Research Institute of Standards & Norms under our ministry.

Ministry of Housing and Urban-Rural Construction of the People’s Republic of China  
30 – 12 – 2008

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## **Chapter 1 General principles**

- 1.0.1** This Code is formulated to prevent and minimize the fire hazard in petrochemical enterprises, protect the safety of persons and properties.
- 1.0.2** This Code is applicable to the fire protection design of newly-built, expanded and reconstructed petrochemical enterprises.
- 1.0.3** The fire protection design of petrochemical enterprises shall, in addition to complementation of this Code, also conform to the provisions of the active national standards concerned.

## **Chapter 2 Technical terms**

### **2.0.1 Petrochemical enterprise**

It refers to the oil refineries, petrochemical plants, petroleum chemical fiber factories or combined plants thereof that use oil, natural gas and their products as raw materials to produce, store and transport various petrochemical products

### **2.0.2 Plant area**

It refers to the area within a plant enclosure wall or the boundary made up of production area, utility & auxiliary production facilities areas and production management area.

### **2.0.3 Production area**

It refers to the area made up of process equipment and/ or facilities that use and produce combustible materials and give out combustible gases.

### **2.0.4 Utility & auxiliary production facilities**

It refers to the necessary facilities that do not directly participate in petrochemical production process but play an auxiliary role to the production in petrochemical production process.

### **2.0.5 Overall major facility**

It refers to the facilities that would affect the production in the whole plant or may cause severe personal injury in case of fire. The overall major facilities can be divided into two categories: The first category of overall major facility: the fire thereof may cause severe personal injury. The second category of overall major facility: the fire thereof would affect the production in the whole plant.

### **2.0.6 Regional major facility**

It refers to the facilities that would affect the production of partial units in case of fire or may cause personal injury in some areas

### **2.0.7 Fired site**

It refers to the fixed outdoor places where there are exposed flames or hot surfaces.

### **2.0.8 Fired equipment**



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