

Ministry of Housing and Urban-Rural Development of the People's Republic of  
China

National Development and Reform Commission of the People's Republic of  
China

**Construction Standards of Liquefied Natural Gas Station in  
Towns**

**城镇液化天然气厂站建设标准**

JB 151-2011

**Beijing, 2011**

# **Construction Standards of Liquefied Natural Gas Plant and Station in Towns**

**JB 151-2011**

Chief Editorial Department: Ministry of Housing and Urban-Rural Development of the  
People's Republic of China

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The relevant departments of the State Council, the Department of Housing and Urban-Rural (Commission) of each province, autonomous region and municipality, the Development and Reform Commission, Bureau of Xinjiang Production and Construction Corps and Development and Reform Commission,

According to the requirements of Ministry of Construction the *Notice On Issuing (2006 Project Construction Standards, Investment Estimation Indicators, Construction Project Evaluation Method and Parameters Preparation Project Plan)* (JBH (2006) No. 172), the *Construction Standards of Liquefied Natural Gas Plant and Station in Towns* prepared by the Ministry of Housing and Urban-Rural Development has been jointly reviewed by relevant department, now it is approved and issued, and it will be put into force since December 1, 2011.

The examination and approval, design and construction process of the construction project of liquefied natural gas plant and station in towns, shall strictly comply with national standards, the relevant requirements of construction costs shall be future reduced, the construction standard shall be executed strictly and the project costs shall be strictly controlled.

The construction standard is managed by Ministry of Housing and Urban-Rural Development and National Development and Reform Commission, and the Ministry of Housing and Urban-Rural Development shall be responsible for the specific explanation work.

**Ministry of Housing and Urban-Rural Development of the People's Republic of  
China**

**National Development and Reform Commission of the People's Republic of China**

**July 20, 2011**

## Foreword

The *Construction Standards of Liquefied Natural Gas Plant and Station in Towns* is jointly prepared by units such as North China Municipal Engineering Design & Research Institute, etc. according to the arrangement of the *Notice On Issuing (2006 Project Construction Standards, Investment Estimation Indicators, Construction Project Evaluation Method And Parameters Preparation Project Plan)* (JBH [2006] No. 172) which is issued by the Ministry of Construction.

In the preparation process, the preparing group strictly implements various regulations and policies on energy conservation and emission reduction and protection the ecological environment, etc. Extensive and in-depth investigation and study have been carried out on the projects of liquefied natural gas plant and station in towns which are built and under construction in our country of recent years, based on the practical situation of natural gas liquefaction plants and liquefied natural gas vaporizing station construction in towns, conscientiously sum up the practical experience of the project and actively learn from foreign advanced experience. After the completion of exposure draft, it has solicited opinions from the relevant departments, units and experts, after several modifications, the draft has been submitted for approval, Institute of standard quota of the Ministry of Housing and Urban-Rural Development has organized and held the review conference and the draft was finally reviewed and finalized by the relevant departments.

The construction standard is divided into eight chapters: General Principles, Construction Scale and Project Composition, Site Selection and General Layout, Technology and Equipment, Auxiliary Projects, Architectural Standards, Environmental Protection and Health and Safety, Main Technical and Economic Indicators.

During the implement of the construction standard, all relevant units shall sum up experience and accumulated information, if there is any content needing modification and supplement, please send the opinions and relevant information to North China Municipal Engineering Design & Research Institute (address: No. 99, Qixiangtai Road, Hexi District, Tianjin, postal code: 300074,) for reference during modifications in the future.

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## **Chapter 1    General principles**

**Article 1** The construction standard is prepared to adapt to the needs of the rapid development of urbanization in our country and ensure the safety, stability and continuous supply of gas in towns, improve the scientific management level of the decision-making and construction for project of the liquefied natural gas plant and station in towns, to save energy and protect the environment, to promote technological progress, give full play to the benefit of investment, strengthen and standardize the construction of the liquefied natural gas plant and station in towns.

**Article 2** The construction standard can provide the national unified standard for the decision-making for the project of liquefied natural gas plant and station in towns and determining the project construction level reasonably, it is the important basis for examining and approving project of the liquefied natural gas plant and station in towns, it is also the standard of supervising and inspecting the whole process of the project.

**Article 3** The construction standard applies to the new projects of liquefied natural gas plant and station in towns, while the reconstruction and expansion project can be implemented by reference.

**Article 4** The construction of liquefied natural gas plant and station in towns must comply with the relevant national laws and regulations, implement relevant policies on national environmental protection, energy saving, land saving, labor safety and fire fighting, etc. and the development guideline for town's gas industry.

**Article 5** The construction of liquefied natural gas plant and station in towns shall comply with the urban overall planning, town's overall planning and special planning for the gas, it shall meet the demand of current and the future development.

**Article 6** The construction level of liquefied natural gas plant and station in towns shall adapt to the local economic development level, it shall also consider urban economic construction and the development of science and technology, and it shall have advanced technology, reasonable economy, safety and reliability.

**Article 7** The construction of liquefied natural gas plant and station in towns shall use



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