

# GBJ

**National Standard of the People's Republic of China**

GBJ 87-1985

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**Code of Design of Noise Control in Industrial Enterprises**

**工业企业噪声控制设计规范**

GBJ 87-1985

Edited by: Beijing Municipal Capital Construction Commission

Approved by: State Planning Commission of People's Republic of China

Date of Enforcement: June 1, 1986

Beijing 1995

## **NOTICE**

This code is written in Chinese and English. The Chinese text shall be taken as the ruling one in the event of any inconsistency between the Chinese text and the English text.

## Preface

This book is the English translation of Code for Design of Noise Control in Industrial Enterprises GBJ 87-85. It is the official translation of the original in Chinese for general use as examined and approved by the Department of Standards and Norms, Ministry of Construction of the People's Republic of China.

In the event of any inconsistency between the Chinese-language text of the Standard and the present English-language text of the Standard, the Chinese-language text shall be taken as ruling.

Department of Standards and Norms,  
Ministry of Construction of the People's Republic of China

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## **State Planning Commission, P. R. China**

GB (1986) No.07

### *Notice on promulgation of the code for design of noise control in industrial enterprises*

In accordance with the requirement of the Notice (78) JFS No.562 of the former State Capital Construction Commission, the Code for Design of Noise Control in Industrial Enterprises, which is jointly prepared by Beijing Municipal Institute for Labor Protection and other related units, has been jointly checked-up by National Acoustics Standardization Technology Committee, and other departments concerned. Now the Code for Design of Noise Control in Industrial Enterprises GBJ87 - 85 is ratified as the National Standard and will be put into the effect from July 1st 1986. The Concrete explanation and other works of the code will be the responsibility of Beijing Municipal Institute for labor protection.

State Planning Commission

December 17, 1985

## *Explanation of Revision*

This code was jointly prepared by the Beijing Municipal Institute for Labor Protection as the chief editorial unit, together with other 12 related units, and on the basis of the (78) JFS No. 562 document of former State Capital Construction Commission

In the process of the preparation for the code, the preparation group has carried out a relatively extensive surveys and tests and gathered related materials both home and abroad. The group has also done the necessary research work of special subject experiment on the various noise effects, organized and implemented the noise control project for the typical industries. After the soliciting the nation - wide opinions from the related units, the code was examined and finalized by the National Examination Conference and National Acoustics Standardization Technology Committee.

This code falls into seven chapters and three appendixes. The main contents include I Noise control design standards in the various kinds of places in the industrial enterprises, and the measures that should be taken in order to reach these standards in designing.

Since the code was prepared for the first time, it is hoped that in the process of application each unit conscientiously sum up experiences and pay attention to accumulate materials, which should be combined with the engineering practices. If there found any places need amendment and supplement, please submit the suggestion and materials to the Beijing Municipal Institute of Labor Protection.

Beijing Municipal Capital Construction Commission  
December, 1985

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## **1 General**

**1.0.1** This code is formulated for the purpose of prevention of harmfulness by industrial noise, ensuring the health of the workers, guarantee of safe production and normal working conditions and protecting the environment.

**1.0.2** This code is applicable to the noise (except impulse noise) control design of the newly built, rebuilt, extension and technological transforming projects in the industrial plants.

**1.0.3** For the noise resulted from the production process and installation itself, the noise source should be firstly controlled. Technology and installation with high noise should be replaced by the technology and installation with low noise. If the standards are still not be reached, the other noise control measure should be adopted, such as sound insulation, silencers, sound absorption, vibration isolation and other comprehensive control.

**1.0.4** The comprehensive analysis should be made to the production technology, operation, maintenance, and noise reduction effect in the noise control design of the industrial plant. The effective new technique, new materials and new method should be adopted actively in order to reduce cost, increase efficacy and striving to gain optimum economic efficiency.

**1.0.5** For a small number of production workshops and operation places, if their noise levels are still unable to reach the standard of noise control design even after the appropriate noise control measures have been applied, then the personal protection measure shall otherwise be taken.

For above mentioned places, the noise control design shall be carried out based on the noise level in the workshops and insertion loss value of the adopted personal protection devices.

**1.0.6** Besides performing under the requirement of this code, the noise control design in industrial enterprises shall yet be conformed to other related regulations of the standard and codes existing in China.

## **2 Standard for noise control design in industrial enterprises**

**2.0.1** A-weighted sound pressure level of the noise in the various places within the area of industrial and enterprises' plants, according to the different category of the places, shall not exceed the noise limited value listed in the table 2.0.1 below.

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