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

GBZ 2.2-2007

Replacing GBZ 2-2002

**Occupational exposure limits for hazardous agents in the
workplace-Part 2: Physical agents**

工作场所有害因素职业接触限值 第2部分：物理因素

(English Translation)

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Foreword

Chapter 13, Chapter 14 and Chapter 15 of this Part are recommendatory provisions; the remainder are mandatory provisions.

In this revision, GBZ 2-2002 "Occupational Exposure Limits for Hazardous Agents in the Workplace" is divided into GBZ 2.1 "Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents" and GBZ 2.2 "Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 2: Physical Agents". From the date of implementation of this Part, the corresponding contents of GBZ 2-2002 shall be abolished.

Compared with GBZ 2-2002, the main changes in this Part are as follows:

- the classification of work in high-temperature environments and the hygienic evaluation criteria for the meteorological conditions of high-temperature workplaces have been deleted;

- exposure limits for non-ionizing radiation, namely power-frequency electric fields, ultra-high frequency radiation, high frequency electromagnetic fields and microwave radiation, as well as exposure limits for noise, have been added;
- the exposure limits for high temperature and for hand-transmitted vibration have been adjusted;
- the measurement methods for physical agents in the workplace have been revised into an independent standard, GBZ/T 189-2007 "Measurement of Physical Agents in Workplace";
- Chapter 13, Chapter 14 and Chapter 15 have been changed into recommendatory provisions.

Annex A of this Part is a normative annex; Annex B is an informative annex.

This Part was proposed by the Specialized Committee for Occupational Health Standards of the Ministry of Health.

This Part was approved by the Ministry of Health of the People's Republic of China.

The chief drafting organizations of this Part: School of Public Health of Peking University, National Institute of Occupational Health and Poison Control of the Chinese Center for Disease Control and Prevention, School of Public Health of Huazhong University of Science and Technology, School of Public Health of Fudan University, Jiaying Branch Factory of the State-operated Hongsheng Instrument Factory, Hangzhou Aihua Instruments Co., Ltd., and Quest Technologies Inc.

The chief drafters of this Part: Wang Sheng, Liang Youxin, Yang Lei, Wu Weihao, Li Tao, Zhang Min, He Lihua, Xu Bohong, Shu Guohua, Zhang Shaodong and Du Xiexiang.

The previous editions of the standard superseded by this Part were issued as follows:

- GBZ 2-2002.

1 Scope

This Part specifies the occupational exposure limits for physical agents in the workplace.

This Part applies to all types of workplaces in which physical agents are present or generated. It applies to the monitoring, evaluation and management of workplace sanitary conditions, working conditions, the degree of workers' exposure to physical agents, leakage from production installations and the effectiveness of protective measures, as well as to the industrial enterprise sanitary design and occupational health supervision and inspection.

This Part does not apply to non-occupational exposure.

2 Normative references

The provisions in the following documents become provisions of this Part through reference in this Part. For dated reference documents, all subsequent amendments (excluding the contents of corrigenda) or revised editions do not apply to this Part; however, parties who reach agreement on the basis of this Part are encouraged to investigate whether the latest editions of these documents may be used. For undated reference documents, their latest editions apply to this Part.

GBZ 1 Hygienic Standards for the Design of Industrial Enterprises · GBZ 2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace - Chemical Hazardous Agents · GB/T 3947 Acoustical Terminology · GBZ/T 189.1 Measurement of Physical Agents in the Workplace - Ultra High Frequency Radiation · GBZ/T 189.2 Measurement of Physical Agents in the Workplace - High Frequency Electromagnetic Field · GBZ/T 189.3 Measurement of Physical Agents in the Workplace - Power Frequency Electric Field · GBZ/T 189.4 Measurement of Physical Agents in the Workplace - Laser Radiation · GBZ/T 189.5 Measurement of Physical Agents in the Workplace - Microwave Radiation · GBZ/T 189.6 Measurement of Physical Agents in the Workplace - Ultraviolet Radiation · GBZ/T 189.7 Measurement of Physical Agents in the Workplace - High Temperature · GBZ/T 189.8 Measurement of Physical Agents in the Workplace - Noise · GBZ/T 189.9 Measurement of Physical Agents in the Workplace - Hand-transmitted Vibration · GBZ/T 189.10 Measurement of Physical Agents in the Workplace - Classification of Physical Workload Intensity · GBZ/T 189.11 Measurement of Physical Agents in the Workplace - Heart Rate during Physical Work

3 Terms and definitions

The terms and definitions established in 3.1, 3.3 and 3.4 of GBZ 2.1 apply to this Part.