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

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**Technical guidelines for environmental noise and vibration
control engineering
(English Translation)**

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Foreword

To implement the "People's Republic of China Environmental Protection Law" and "People's Republic of China Environmental Noise Pollution Prevention Law," Regulation Fan noise and vibration control project construction and operation management, prevention and control of environmental pollution, protect the environment and human health, the development of this standard quasi.

This standard specifies the general technical requirements for noise and vibration control engineering.

This standard is the guiding document.

This standard is the first release.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

This standard drafting units. China Environmental Protection Industry Association, Beijing Institute of Labour Protection, National Environmental Protect the city noise and vibration control engineering technology center, Shenzhen Ya Electrical and Mechanical Industry Co., Ltd., Beijing Green Year Acoustic Engineering Unit Parts Ltd., Sichuan is or Acoustic Technology Co., Ltd. Shanghai Environmental Protection Engineering Co., Xinhua net.

This standard is approved by the Ministry of Environmental Protection September 26, 2013.

This standard shall be December 1, 2013 implementation.

The standard explanation by the Ministry of Environmental Protection.

Environmental Noise and Vibration Control Engineering Technical Guidelines

1 Scope

This standard specifies the general technical requirements for environmental noise and vibration control engineering design, construction, inspection and operation and maintenance.

This standard applies to environmental noise and vibration control engineering. For the corresponding process specifications or technical specifications of the work focus on pollution Cheng, should the implementation of this standard and the corresponding technology specifications or specifications for key pollution sources simultaneously.

This standard can be used as noise and vibration control engineering, environmental impact assessment, design, construction, operation and management and final acceptance of the technology by according to.

2 Normative references

The standard content of the following documents cited in the articles. Who does not note date reference documents, the effective version applies to this standard.

GB 10070 standard of environmental vibration of urban area GB 10071 Urban Environmental Vibration Measurement GB 50202 foundation engineering foundation construction quality acceptance Construction Quality Acceptance GB 50203 masonry structure specification GB 50204 Construction Quality Acceptance of Concrete Structure Engineering Steel Engineering Construction Quality Acceptance GB 50205 GB 50231 mechanical equipment installation construction and acceptance of universal norms GB 50236 field equipment, industrial pipe welding engineering for construction GB 50254 electrical low-voltage electrical equipment installation engineering construction and acceptance GB 50255 electric equipment installation engineering power converter equipment for construction and acceptance GB 50256 electrical equipment installation engineering construction and acceptance of electric device GB 50257 electrical equipment installation engineering explosion and fire hazard electrical equipment installation and acceptance GB 50258 works of electrical installations and under 1KV wiring construction and acceptance GB 50259 works of electrical installations electrical lighting equipment for construction and acceptance GB 50275 fans, compressors, pumps, installation engineering construction and acceptance GB 50300 Construction Quality Acceptance of uniform standards Isolation design specification GB 50463 GB 50868 standard building works and vibration tolerance GB/T 3947 Acoustics Terminology GB/T 13441.1 Mechanical vibration and impact evaluation of human exposure to whole body vibration - Part 1. General requirements Part of GB/T 13441.2 Mechanical vibration and impact evaluation of human

exposure to whole body vibration 2. Vibration in buildings GB/T 16731 building acoustic
 absorption properties of the product classification GB/T 17249.1 Acoustics Design Guide
 low-noise workplaces - Noise control strategies GB/T 18696.1 acoustic impedance tube
 sound absorption coefficient and impedance measurements Part I. standing wave ratio
 method 18696.2 acoustical impedance tube and the second part of GB/T sound absorption
 coefficient and impedance measurements. Transfer Function Method GB/T 18699.1
 Acoustics sound insulation performance of enclosures - Determination - Part 1.
 Measurements under laboratory conditions (marked with) GB/T 18699.2 Acoustics sound
 insulation performance of enclosures - Determination Part 2. Measurements in situ (for
 acceptance and verification purposes) GB/T 19512 acoustic muffler field measurements
 GB/T 19513 requirements under laboratory conditions Acoustics Measurement of sound
 attenuation barriers Office GB/T 19885 Acoustics sound insulation performance between
 the assay laboratory and field measurements GB/T 19887 Acoustics sound attenuation
 movable barrier field measurements GB/T 19889.3 Acoustics Measurement of sound
 insulation buildings and building elements - Part 3. building elements Laboratory
 measurements of airborne sound insulation GB/T 19889.4 Acoustics Measurement of
 sound insulation buildings and building elements - Part 4. Field measurements of airborne
 sound insulation between rooms GB/T 19889.5 Acoustics Measurement of sound insulation
 buildings and building elements - Part 5. Exterior elements and facades of airborne sound
 insulation site measuring GB/T 19889.8 Acoustics Measurement of sound insulation
 buildings and building elements - Part 8. Heavy standard floor coverings percussion amount
 of improvement Laboratory measurements GB/T 19889.14 buildings and building elements
 Acoustics Measurement of sound insulation - Part 14. Guidelines for special field
 measurements GB/T 20247 acoustic reverberation chamber sound absorption
 measurements GB/T 25516 Acoustics Laboratory measurement pipe muffler duct end unit
 insertion loss, air flow noise and total Pressure loss GB/T 50452 Ancient Architecture
 Industrial anti-vibration technology specification GB J87-85 Industrial Enterprise Noise
 Control Design Specification HJ 453 Technical Guidelines for Environmental Impact
 Assessment of Urban Rail Transit HJ 552 completed construction projects Acceptance of
 Highway HJ 2016 environmental engineering terminology HJ/T 90 sound barrier design and
 measurement specifications HJ/T 403 Construction Project Environmental Protection
 acceptance for Urban Rail Transit JGJ/T 170 urban rail transit and secondary radiation
 caused by building vibration noise limits and methods of measurement standards JJF1034
 acoustic measurement terminology and definitions CJJ/T 191 floating slab track
 specifications JT/T 646 highway sound barrier material technical requirements and test
 methods JTJ/T 006 highway design of environmental protection TB/T 3122 railway sound
 barriers acoustic member technical requirements and test methods 09MR603 "Urban Road
 - sound barrier" National Building Standard Design Atlas "Construction Project
 Environmental Protection design requirements" (State Planning Commission,
 Environmental Protection Commission of the State Council [1987] No. 002) "Architectural
 engineering design to compile the documents" (Housing and Urban Ministry of Construction

Quality [2008] No. 216) "Project (Project) final acceptance approach" (State Planning Committee Building [1990] No. 215) "Construction project completion and acceptance of environmental protection management approach" (SEPA Order No. 13)

3 Terms and Definitions

The following terms and definitions and related content HJ 2016 listed apply to this standard.

3.1 Ambient noise environmental noise

It refers to the sound of industrial production, construction, transportation and social life arising from interference around the living environment. Sometimes by Generating a plurality of different positions of the combined effect of the sound source.

3.2 Traffic noise traffic noise

Tack motor vehicles, locomotives, rail transit, motor vessels, aircraft and other means of transport generated at runtime Voice scrambling around the living environment.

3.3 Industrial noise industrial noise

It refers to the use of fixed equipment in industrial production activities and other interference of ambient sound living environment.

3.4 Building construction noise construction noise

It refers to the sound produced in the course of construction of the living environment of the surrounding interference.

3.5 Social life noise community noise

It refers to the sound business culture and entertainment and business activities generated interference around the living environment.

3.6 Environmental Vibration environmental vibration

It refers to the combined effects of all relevant environmental vibration due to vibration source artificially generated.

3.7 Noise source intensity noise source intensity

That intensity noise sources - reflected radiation intensity acoustic noise sources and characteristics of indicators, usually radiated noise sound power level or OK Under ambient conditions, determine the sound pressure level (inclusive of the spectrum) and directivity characteristics distances to represent.