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

HJ 514-2009

Cleaner production standard. Hotel

清洁生产标准 宾馆饭店业

(English Translation)

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Foreword

To implement the "People's Republic of China Environmental Protection Law" and "People's Republic of China Cleaner Production Promotion Law," to protect the environment, to the hotel industry to carry out clean production to provide technical support and guidance, the development of this standard.

This standard provides the basis to achieve the national and local emission standards, according to current industry technology, equipment and management Horizontal, hotels and restaurants industry clean production - General requirements. This standard is divided into three levels, a representative of the international advanced level of clean production, two representatives Domestic advanced level of clean production, three representatives of the domestic basic level of clean production. As technology continues to progress and development, the standard will be timely Amendments.

This standard is the first release.

This standard was proposed by the Ministry of Environmental Protection Science and Technology Standards Department.

This standard was drafted. China Light Industry Cleaner Production Center, Chinese Research Academy of Environmental Sciences.

This standard MEP November 30, 2009 for approval.

This standard since March 1, 2010 implementation.

The standard explanation by the Ministry of Environmental Protection.

Cleaner production standard hotels and restaurants sector

1 Scope

This standard specifies the general requirements for hotels and restaurants industry cleaner production. This standard hotels and restaurants industry clean production standard indicators divided into four categories, that equipment requirements, resource and energy usage targets, pollutant indicator (prior to the end of the process) and environmental management requirements.

This standard applies to hotels and restaurants business clean production examination, judgment of the potential and opportunities for clean production and clean production performance assessment and cleaner production performance disclosure system for environmental impact assessment, waste discharge permit management, environmental management systems.

2 Normative references

The standard content of the following documents cited in the articles. For undated references, the effective version applies to this standard.

Determination of GB/T 11914 Quality of potassium dichromate method COD GB 18580 interior decoration materials, plywood and their products limited release formaldehyde GB 18581 interior decoration materials, solvent-based coatings of harmful substances GB 18582 interior decoration materials, interior wall paint harmful substances GB 18583 interior decoration materials, adhesives harmful substances GB 18584 interior decoration materials, wooden furniture of harmful substances GB 18585 Wallpaper interior decoration materials harmful substances GB 18586 interior decoration materials, PVC floor sheets harmful substances GB 18587 interior decoration materials, carpets, carpet cushions and adhesives limited release of harmful substances GB 18597 Hazardous Waste Storage Pollution Control Standard GB 18599 general industrial solid waste storage and disposal site pollution control standards GB 50015 Water and Drainage Design Specification GB 50034 architectural lighting design standards GB 50189 public building energy efficiency design standards GB/T 2589 General Principles of comprehensive energy consumption calculation GB/T 12452 Enterprise General water balance and testing GB/T 24001 Environmental management systems - Requirements with guidance for use HJ/T 425 clean production standards Technical Guidelines HJ/T 91 surface water and wastewater monitoring technical specifications Determination of HJ/T 399 Water quality COD rapid digestion spectrophotometry CJ 164 water-saving appliances Life "Clean Production Audit Interim Measures" (National Development and Reform Commission, the State Environmental Protection Administration Order No. 16)

3.1 Cleaner production cleaner production

Refers constantly taken to improve the design and use of clean energy and raw materials, the use of advanced technology and equipment, improve management, utilization and other measures to reduce pollution at source, improve resource utilization efficiency, reduce or avoid production of production, services and products to use during Pollutants Health and emissions, in order to reduce or eliminate human health and the environment.

3.2 Cleaner production standard cleaner production standard

Means in accordance with the principle of life-cycle analysis, resulting from the production process and equipment, the use of energy resources, products, pollutants, waste recycling Six aspects and environmental management, cleaner production level of the industry given the stage of the target, over full guidance cleaner production and pollution Process control.

Note: Quoted from HJ/T 425 clean production standards Technical Guidelines.

3.3 pollutant indicator (prior to the end of the process) pollutants generation indicators (before end-of-pipe treatment) it refers to the amount generated during the operation unit beds pollutants (before the end of the process). This standard is primarily water pollutant indicator. Water Pollution Was produced indicators, including the quantity of sewage wastewater treatment plant inlet and types of pollutants, the unit amount or concentration of pollutants beds.

3.4 Hotels and restaurants hotel

Able to provide guests with a star hotels and catering, accommodation and related services as well as its hardware facilities and service standards equivalent to the star Class standards of hotels, guest houses, resorts and other units.

3.5 Resort holiday village

It can offer its customers with catering, accommodation and related services with a volume equivalent to the star or star accommodation building Rate of 0.55 or less, usually in the resort, Villa, training center named.

4.1 Index rating

This standard gives the total industry operating hotels and restaurants service process cleaner production level three technical indicators.

A. the international advanced level of clean production;

Class 2. domestic advanced level of clean production;

Three. clean domestic production of basic levels.

4.2 Index requirements

Hotels and restaurants industry clean production technical requirements are shown in Table 1.

Table 1 hotels and restaurants industry clean production technical requirements

Cleaner Production Index Level One Two Three First, the equipment requirements Fans, pumps, energy-efficient motor selection; variable condition fan, Pump frequency speed control device Fans, pumps, motors and efficient selection section can type Must be updated when cleaning air conditioning refrigerant, the state banned CFC-11, CFC-12, CFC-113, etc.

Of controlled ozone-depleting substances 1. Air conditioning and heating system Cold heat source unit EER air conditioning heating system in line with GB 50189 and the first 5.4.5, 5.4.8 5.4.9 stipulates pot Furnace thermal efficiency in line with the provisions of Article 5.4.3 Transformer should be used in high efficiency and low power consumption 2. Supply and distribution system means no reasonable power compensation equipment, power factor control in 0.95 the above Reasonable means of reactive power compensation devices, power factor Number of control over 0.9 Office area do not use non-energy-saving lamps (including T8, T12 straight tube Fluorescent and incandescent) Office area do not use non-energy-saving lamps (including T12 linear fluorescent and incandescent) Non-dimming CFL usage area 100% Lighting standards in line with GB 50034 5.2.5 value provisions of Article 3. Lighting system Lighting power density value of each room or place is not higher than GB 50034 Predetermined target value Lighting power density value of each room or place the current value is not higher than the predetermined GB 50034 Saving appliances in line with CJ 164, the installation rate of 100% Sanitary ware water rated flow, minimum working pressure in line with GB 50015 4. Water supply and drainage system construction area of 20,000 m² above Hotels and construction of water facilities, Establish rainwater harvesting systems, and efficient use of water and rain Construction area of 20,000 m² or more hotels and construction of water facilities, and effective Use of water CONTINUED Cleaner Production Index Level One Two Three 5. Fire protection system fire equipment must be clean agent, prohibit the use of halon 1211 or halon-1301 6. Electrical equipment energy efficiency equipment has reached the mark of 2 devices with energy efficiency rating sign reaches Level 3 7. Dry cleaning equipment using a dry-cleaning solvent purification and recovery features fully enclosed dry cleaning machine Second, the use of resources and energy indicators One or two stars ≤ 35 ≤ 37 ≤ 39 Three Star ≤ 37 ≤ 39 ≤ 41 1. Construction Area Comprehensive Energy consumption of a (standard coal equivalent count Operators)/[kg/(m² · a)] four or five-star ≤ 39 ≤ 41 ≤ 43 One or two stars ≤ 280 ≤ 320 ≤ 350 Three Star ≤ 420 ≤ 460 ≤ 500 2. Bed unit quantity of water /[L/(bed · d)] 4 or 5 star ≤ 510 ≤ 550 ≤ 580 3. Indirect cooling water circulation rate /% ≥ 98 Third, pollutant indicator (prior to the end of the process) One or two stars ≤ 250 ≤ 290 ≤ 320 Three Star ≤ 380 ≤ 420 ≤ 450 1. Unit bed volume of wastewater