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

WS/T 688-2020

**Operating rules for vector control
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Drafting organizations of this standard. Liaoning Provincial Center for Disease Control and Prevention, Beijing Municipal Center for Disease Control and Prevention, Chinese Academy of Inspection and Quarantine, China Railway Shenyang Bureau Group Co., Ltd. Shenyang Center for Disease Control and Prevention, Northern Theater Center for Disease Control and Prevention, Liaoning Provincial Patriotic Health Transport Action Committee Office.

1 Scope

This standard specifies the principles and operating procedures for the prevention and control of vector organisms in hotels and restaurants.

This standard applies to the control of rodents, cockroaches, flies, and mosquitoes in hotels and restaurants.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 23795 Monitoring method for vector density of cockroaches GB/T 23796 Vector density monitoring method flies GB/T 23797 Vector density monitoring method for mosquitoes GB/T 23798 Vector density monitoring method Rodent GB/T 27770-2011 Vector density control level rodents GB/T 27771 Vector density control level mosquitoes GB/T 27772-2011 Vector density control level flies GB/T 27773 Vector density control level cockroach GB/T 27777 Guidelines for the Safe Use of Rodenticides Anticoagulants GB/T 31714 Vector Biochemical Control Technology Guide Space Spray GB/T 31715 Technical Guidelines for Vector Biochemical Control GB/T 31721-2015 Vector control terminology and classification

3 Terms and definitions

The following terms and definitions apply to this document.

Vector

Organisms that can transmit pathogenic organisms from the source of infection or the environment to humans through biological and/or mechanical means.

Note 1: The vector organisms involved in this standard are mosquitoes, flies, cockroaches and rodents.

Note 2: Rewrite GB/T 31721-2015, definition 2.1.1.

Hotel

A public building that can provide guests with all or part of services such as accommodation, catering, conferences, fitness, and entertainment.

It consists of a total part and an auxiliary part, also called a hotel, hotel, and resort.

Rodent-proof structure or facilities A device that can prevent rodents from entering indoors or related places.

[GB/T 31721-2015, definition 4.4.3] 3.4 Housefly-proof facilities A device that can prevent flies from entering the room or touching food. Such as screen doors, screen windows, air curtain machines, door curtains, screen covers, etc.

[GB/T 31721-2015, definition 4.4.2] 3.5 Mosquito-proof facilities A device that prevents mosquitoes from entering the environment where people live or activities to prevent mosquitoes from breeding and breeding and people from being bitten or harassed.

[GB/T 31721-2015, definition 4.4.1]

4 Principles of Prevention

According to the industry requirements and environmental characteristics of hotels and restaurants, and under the premise of ensuring personnel and food safety, adopt

environmental management and physical prevention the main control measures are to eliminate the breeding places of disease vectors, establish and improve protective facilities, and use safe and efficient sanitary insecticides when necessary and rodenticide, effectively control the hazards of disease vectors.

5.1.1 Investigation method

5.1.1.1

The rodent density survey shall be conducted in accordance with the rodent trace method in GB/T 23798; the rodent prevention facilities shall be conducted in accordance with GB/T 27770-2011 Appendix A the requirements of A.1 and Appendix A of this standard shall be investigated.

5.1.1.2

The cockroach density survey is carried out according to the visual method in GB/T 23795.

5.1.1.3

The flies density survey shall be conducted according to the visual inspection method in GB/T 23796; the fly prevention facilities shall be conducted in accordance with 4.2 and in GB/T 27772-2011 the requirements of Appendix B of this standard are investigated.

5.1.1.4

The mosquito density survey shall be conducted in accordance with the path method, larvae trapping method and human trapping method in GB/T 23797.

5.1.1.5

When necessary, other appropriate survey methods in the above national standards can be used.

5.1.2 Survey content and indicators

Investigate the damage of rodents, cockroaches, flies and mosquitoes in indoor and outdoor environments. In indoor survey, 15 m² is converted into a standard room Check the number of rooms. An independent room smaller than 15 m² is regarded as a standard room. The specific survey content and indicators are as follows.

a) Rodents. Investigate and record the number of positive rooms with rat feces, rat carcasses, rat holes, rat passages, rodent marks, paw prints, etc., as well as blocking rat the installation of rodent-proof facilities such as boards, rodent-proof fences, floor drains, etc.; recorded in the surroundings of buildings in the external environment, temporary garbage storage, green belts, Check the walking distance and the number of rat tracks found along the water body and other places; fill in the survey results in the survey form (see Appendix C

Table C.1) in accordance with GB/T 23798 to calculate the positive rate of indoor rat trails and the path index of external environmental rat trails, according to GB/T 23798

27770 calculates the pass rate of rodent prevention facilities.

b) Cockroach. There are cockroach (nymph), live egg sheath, cockroach traces (cockroach corpse, empty egg sheath, feces, etc.) in the investigation record room for the number of positive rooms and the number of nymphs or live egg sheaths, fill in the survey results in the survey form (see the table in Appendix C C.2) According to GB/T 23795, calculate the infestation rate and density index of (nymph) or live egg sheath, and the positive rate of cockroach traces.

c) Flies. Investigate and record the number of positive rooms with adult fly activities and the number of adult flies in positive rooms, as well as the number and number of indoor and outdoor flies breeding places the number of positive breeding places where fly larvae (pupa) breed; check fly prevention facilities, such as screen doors, screen windows, air curtains, door curtains, screen covers and other settings. Fill in the survey results into the survey form (see Table C.3 in Appendix C) and calculate it according to GB/T 23796 Fly infestation rate, density and breeding rate of fly larvae; refer to footnote d of Table C.3 in Appendix C to calculate the qualified rate of fly prevention facilities.

d) Mosquitoes. Investigate and record the accumulation of water in indoor and outdoor containers, plants, underground pipe wells, drainage ditches, potholes, etc.

Record the number of stagnant water places where mosquito larvae (pupa) breed; record the number of positive spoons and mosquito larvae (pupa) in large and medium-sized landscape water bodies Total; record the situation of the investigator being harassed by mosquitoes within 30 minutes outdoors. Fill in the survey results into the survey form (see Appendix C in Table C.4), calculate the path index and scoop index of mosquito larvae (pupa) according to GB/T 23797, and the landing index of adult mosquitoes.

5.1.3 Key areas and locations for investigation

5.1.3.1

Outdoor building surroundings, green spaces and gardens, water bodies, garbage storage, water plants and containers, underground pipe wells, drainage ditches (wells), etc.

5.1.3.2

The front lobby service desk, luggage storage, shopping mall, tea (wine) bar, staff duty (dressing) room, toilet, etc. in the lobby.

5.1.3.3

Disinfection room, spare room, staff duty (dressing) room in guest room area, inspection wells (rooms) for power supply and water supply facilities, etc.;