

ICS 65.060
CCS V 53

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

MH/T 1063-2016

**Installation requirements for spraying equipment of aircraft
(English Translation)**

Issued on: January 27, 2016

Implemented on: May 1, 2016

Issued by: Civil Aviation Administration of China

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Foreword

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

This standard was proposed by the Transportation Department of the Civil Aviation Administration of China.

This standard was approved by the Aircraft Airworthiness Certification Department of the Civil Aviation Administration of China.

This standard is under the jurisdiction of the China Academy of Civil Aviation Science and Technology.

Drafting organization of this standard. The Second Research Institute of Civil Aviation Administration of China.

1 Scope

This standard specifies requirements for the installation and test verification of aircraft spraying equipment.

This standard applies to the installation, modification and acceptance of aircraft spraying equipment (hereinafter referred to as spraying equipment). Other aircraft spraying equipment can refer to carried out.

2 Terms and definitions

The following terms and definitions apply to this document.

Medicine box tank

Container for storing spray liquid.

Door box

Located at the junction of the medicine box and the pump, there are devices with openings such as a discharge port and an emergency release door.

Note: Rewrite MH/T 0017-1998, definition 7.25.

Wind driven pump

A device that uses wind as kinetic energy to provide power for the spray system.

Spray control valve

A device installed on the main pipe of the spray system to adjust the spray pressure and flow rate.

[MH/T 1049-2012, definition 2.1] 2.5 Nozzle Parts of spray equipment that generate and

release mist.

[MH/T 0017-1998, definition 7.1] 2.6 Spray boom Fix the nozzle and the pipeline device to transport the spray liquid.

[MH/T 0017-1998, definition 7.4] 2.7 Swath width in the spraying operation, the distance between the center lines of two adjacent spray patterns.

[MH/T 0017-1998, definition 6.2.5.3]

3 Basic requirements

3.1

The spraying equipment shall be approved by the airworthiness department before installation.

3.2

The spraying equipment should have a product qualification certificate and related technical documents.

3.3

Components and sub-components should comply with relevant standards or pass necessary tests.

3.4

The corrosion resistance of the spraying equipment should meet the equipment environment and use requirements.

3.5

The materials of spraying equipment shall meet relevant requirements.

3.6

The equipment should be installed in accordance with the requirements and methods of the technical documents.

3.7

The combination of the self-weight and loading capacity of the spraying equipment should ensure that the weight of the aircraft's center of gravity is within the allowable weight center of gravity envelope.

3.8

After the spraying equipment is installed, the aerodynamic characteristics of the aircraft should not be seriously affected.

3.9

After the spraying equipment is installed, it should not affect the control performance of the aircraft.

4.1 Packaging

4.1.1

The packaging of the new components of the spraying equipment should be intact.

4.1.2

Inventory pipes should be oil-sealed according to relevant technical requirements, and both ends of the pipes should be wrapped after oil sealing.

4.1.3

The inlet and outlet of the spraying equipment pipes that have been disassembled or decomposed when the aircraft is transferred should be blocked or other protective measures.

4.1.4

When the equipment packaging does not meet the above requirements, the reasons should be ascertained and the normal use should not be affected before installation.

4.2.1 Model

The model of spraying equipment shall be certified for airworthiness and the naming shall comply with relevant regulations.

4.2.2 Marking

The markings on the inlet and outlet of the medicine pump and flow meter, the joints of the air-conditioning and hydraulic system, and the operating mechanism should be intact and clear.

4.2.3 Signs

The sprinkler system accessories should generally have signs, and the signs and their fixing methods should comply with relevant regulations.

4.3 Appearance quality

4.3.1

There should be no dirt such as oil and chemicals on the surface of the spraying equipment.