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

GA 545.2-2005

**fire vehicles real-time control devices--Part 2: Transceiver
devices used in fire vehicles real-time managing center**

消防车辆动态管理装置 第2部分：消防车辆动态管理中心收发装置

(English Translation)

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Foreword

Chapters 3, 4, 5, and 6 of this part of GA 545 are mandatory, and the rest are recommended.

GA 545 "Fire Vehicle Dynamic Management Device" is divided into two parts.

--- Part 1. Dynamic terminal for fire fighting vehicles;

--- Part 2. Fire-fighting vehicle dynamic management center transceiver.

This part is the second part of GA 545 "Fire Vehicle Dynamic Management Device".

This part is proposed by the Fire Department of the Ministry of Public Security.

This part is under the jurisdiction of the sixth technical committee of the National Fire Protection Standardization Technical Committee.

This section is responsible for drafting the unit. Shenyang Fire Research Institute of the Ministry of Public Security.

1 Scope

This part of GA 545 specifies the technical requirements, tests, inspection rules and signs of the fire-fighting vehicle dynamic management center transceiver.

Instructions for use.

This section applies to the fire-fighting vehicle dynamic management center transceiver installed and used in the fire communication command center.

2 Normative references

The terms in the following documents become the provisions of this section by reference to this part of GA 545. For dated references, all subsequent amendments (not including errata

content) or revisions do not apply to this section, however, an agreement is encouraged under this section.

The parties are studying whether the latest version of these documents can be used. For undated references, the latest edition applies to this section.

GB 9969.1 General instructions for the use of industrial products GB 12978 Fire Electronic Products Inspection Rules GB 16838 Fire electronic products environmental test methods and severity GB/T 17626.2-1998 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test (idt IEC 61000-4-2) GB/T 17626.3-1998 Electromagnetic compatibility test and measurement technology Radio frequency electromagnetic field radiation immunity test (idt IEC 61000-4-3) GB/T 17626.4-1998 Electromagnetic compatibility test and measurement technology Electrical fast transient burst immunity test (idt IEC 61000-4-4) GB/T 17626.5-1999 Electromagnetic compatibility test and measurement technology Surge (impact) immunity test (idt IEC 61000-4-5) GB/T 17626.6-1998 Electromagnetic compatibility test and measurement technology Conducted disturbance immunity of radio frequency field induction (idt IEC 61000-4-6)

3.1 General

If the fire-fighting vehicle dynamic management center transceiver (hereinafter referred to as the transceiver) is to comply with this part of GA 545, it should first meet this the requirements of the chapter are then tested in accordance with the provisions of Chapter 4 and meet the test requirements.

3.2.1 General requirements

When the AC power supply voltage change amplitude does not exceed +10-15% of the rated voltage 220V, the frequency deviation does not exceed the standard frequency 50Hz when $\pm 1\%$, the transceiver should work normally.

3.2.2 Basic performance

3.2.2.1

The transceiver device shall have a two-way communication interface with the fire alarm receiving station, and shall be able to move the fire fighting vehicles on the vehicles of each duty equipment.

The real-time location information and status information sent by the terminal are transmitted to the fire receiving station through the interface, and the fire geographic information system is passed.

(GIS) visually displays location information and status information from all duty firefighting vehicles in real time.

3.2.2.2

The transceiver shall be capable of dynamically grouping all managed fire vehicle dynamic terminals and enabling them to implement information Mass or group.

3.2.2.3

The transceiver device shall be able to send the fire alarm receiving station to the fire terminal dynamic terminal installed on all the duty equipment vehicles.