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

GA/T 527.6-2018

**Road traffic signal control mode--Part 6: Control rules for bus
signal priority at intersections**

道路交通信号控制方式 第6部分：公交车交叉口优先通行控制规则
(English Translation)

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Foreword

GA/T 527 "Road Traffic Signal Control Method" is divided into the following sections.

- Part 1. General technical conditions;
- Part 2. Accessibility status and control benefit evaluation indicators and methods;
- Part 3. Implementation requirements for single-point signal control methods;
- Part 4. Implementation requirements for trunk line coordination signal control methods;
- Part 5. Variable guide lane traffic control rules;
- Part 6. Priority control rules for bus intersections;
- Part 7. Priority control rules for tram crossings;
- Part 8. The tidal lane traffic control rules;
- Part 9. ramp control rules.

This part is part 6 of GA/T 527.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is proposed and managed by the Ministry of Public Security Road Traffic Management Standardization Technical Committee.

This section is responsible for drafting the unit. Traffic Management Science Research Institute of the Ministry of Public Security.

Participated in the drafting of this section. Wuxi Huatong Intelligent Transportation Technology Development Co., Ltd., Qingdao Hisense Network Technology Co., Ltd., South

Jingles Information Technology Co., Ltd.

1 Scope

This part of GA/T 527 specifies the general rules, implementation conditions, response methods, control strategies, and controls for priority traffic control at bus intersections.

Technical requirements such as system, control scheme, and signal timing.

This section applies to the design and application of priority traffic control at bus intersections.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

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

GB/T 31418 Road Traffic Signal Control System Terminology GA/T 527.1 Road traffic signal control methods - Part 1. General technical conditions

3 Terms and definitions

The terms and definitions defined in GB/T 31418 and GA/T 527.1 apply to this document.

4 General

To implement priority access control at bus intersections, the following principles need to be considered.

- a) Traffic jams at intersections and other motor vehicles, non-motor vehicles and pedestrians should be avoided to ensure safe and orderly traffic;
 - b) It should be combined with other motor vehicles, non-motor vehicles and pedestrians according to the bus mode, operation plan and traffic flow at the intersection.
- In other cases, determine the priority control scheme of the intersection signal to improve the traffic efficiency of the bus;
- c) Consideration should be given to the consideration of the access control of other motor vehicles, non-motor vehicles, pedestrians, etc. at the intersection, minimizing the the impact of non-motor vehicles, pedestrians, etc.

5.1 Signal setting

There is an intersection for the bus-specific import lanes. When the bus priority control is implemented, the following requirements should be met.

- a) If there is an unspecified flow to the bus-specific import lane, special signal lights shall be provided;
- b) There is a designated import lane for the bus, when the bus-only import lane and the adjacent motor vehicle entrance lane are not in the direction of travel when they are consistent, special signal lights should be set;
- c) Priority control of the bus signal at the intersection is to insert a dedicated phase response mode, and a dedicated signal light should be set.

5.2.1 Bus traffic information

The bus traffic status information should be collected in real time, including continuous location information, arrival at a specific point, arrival at the stop line, and departure.