

ASSOCIATION STANDARD

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**Emergency evacuation plan guidelines for electric bus
(English Translation)**

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Foreword

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

Some elements of this standard may involve patents, and the standard issuing authority does not assume responsibility for identifying these patents.

This standard was proposed by the Technical Innovation Alliance of the Electric Vehicle

Industry.

This standard was drafted. Shanghai Fire Research Institute of the Ministry of Public Security, Shanghai International Automobile City (Group) Co., Ltd.

1 Scope

This standard stipulates the precautions, main points and basic requirements for the preparation of emergency evacuation plans for electric buses.

This standard applies to the preparation of emergency evacuation plans for electric bus operators.

2 Normative references

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

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

GB/T 29639 Production and business unit safety production accident emergency plan preparation guidelines

3 Terms and definitions

The following terms and definitions established in GB/T 29639 apply to this standard.

3.1 Emergency

Sudden occurrence of natural disasters, human factors or failure of facilities and equipment, has caused or may cause disruption of electric bus operation services, Personnel casualties, property damage, and other emergencies that endanger public safety.

3.2 Emergency evacuation plan emergency evacuation plan

Pre-made to effectively prevent and control possible emergencies, minimize accidents and the resulting personal injury the staff is responsible for the work plan.

4.1 Preparation for preparation

The following preparations should be made for the preparation of the emergency evacuation plan.

1) Collect various technical materials such as laws and regulations, standards and specifications required for the preparation of relevant evacuation plans.

- 2) Check the type, level and distribution of potential safety hazards of electric buses, determine the source of danger, conduct risk assessment, and determine Responsive measures for response.
- 3) Before the emergency evacuation plan of the operating enterprise is prepared, the evacuation capacity of the unit should be evaluated.
- 4) Fully draw lessons from the experience and lessons of emergency evacuation disposal of bus accidents at home and abroad.

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4.2 Compilation principles

The content of the emergency evacuation plan covers the operating environment requirements of the electric bus system, and the emergency evacuation plan should focus on systemic and Operational and ensure that it is linked to the relevant emergency plan.

5.1 Overview

The preparation procedure for the emergency evacuation plan for electric buses includes the establishment of an emergency evacuation plan preparation working group, data collection, risk assessment, Evacuation capacity assessment, preparation of emergency evacuation plan and emergency evacuation plan review six steps.

5.2 Establishment of the evacuation plan preparation working group

The electric bus operation enterprise shall be combined with the functions and division of labor of the enterprise department to establish the main person in charge of the enterprise (or the person in charge of the charge) Prepare a working group for the emergency evacuation plan for the team leader and relevant department personnel, clarify the job responsibilities and task division, and formulate a work plan.

Organize the preparation of emergency evacuation plans.

5.3 Data collection

The emergency evacuation plan preparation working group shall collect laws and regulations, technical standards related to the preparation of the plan, and domestic and foreign enterprises in the same industry.

The industry evacuation plan, at the same time, collect relevant technical data for the operation of electric buses and charging and replacement stations.

5.4 Risk assessment

The main content should include.

- 1) Analyze the types of accidents that may occur in electric buses, especially during electric bus charging or leakage or driving Electric bus accidents such as electric leakage or fire, abnormal conditions of the power battery.
- 2) Assess the hazard degree and scope of the accident and propose risk prevention and control measures.

5.5 Emergency evacuation capability assessment

Comprehensive investigation and objective analysis of electric bus evacuation channels, evacuation facilities, safety exits, reliability, and operation of enterprises Evacuation capacity assessment based on emergency evacuation status of staff, such as emergency response capacity, and improvement of emergency evacuation based on assessment results safety measures.

5.6 Preparation of emergency evacuation plan

According to the results of risk assessment and emergency evacuation capability assessment of electric bus operators, organize emergency evacuation plans. Emergency See Appendix A for the format of the preparation plan.

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5.7 Emergency evacuation plan review

After the completion of the emergency evacuation plan, the electric bus operation enterprise shall organize the review. The review is divided into internal reviews and external reviews.

The internal review shall be carried out by the main responsible person of the production and operation unit to organize relevant departments and personnel. External review by the outside of the operating organization Experts and personnel are reviewed. After the emergency evacuation plan has passed the assessment, the main person in charge of the electric bus operation enterprise (or the responsible person in charge) Man) is issued and implemented for filing management.

6.1.1 Purpose of preparation

Briefly describe the purpose and role of the emergency evacuation plan.