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Regulations for operation management of urban rail transit

城市轨道交通运营规范

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2 Normative references

The documents listed are indispensable for the application of this document. For dated references only the edition cited applies; for undated references the latest edition, including all amendments, applies.

GB 7588 Safety rules for the construction and installation of lifts; GB/T 7928 General technical specification for metro vehicles; GB/T 12758 General technical specification for signalling systems of urban rail transit; GB/T 16275 Lighting of urban rail transit; GB 16899 Safety rules for the construction and installation of escalators and passenger conveyors; GB/T 20907 Technical specification for the automatic fare collection system of urban rail transit; GB 50157 Code for design of metro; GB 50382 Code for acceptance of the quality of communication engineering of urban rail transit; GB 50490 Technical code of urban rail transit.

3 Terms and definitions

3.1 urban rail transit: urban public passenger transport system running on dedicated guided tracks, including metro systems, light rail systems, monorail systems, tramways, magnetic levitation systems, automated guideway transit systems and suburban rapid rail systems. The definition is taken from GB 50490-2009, definition 2.0.1.

3.2 operation company: enterprise that carries on the business of operating urban rail transit.

3.3 operation management: the work carried out by the operation company, covering train operation organization, passenger transport organization and service, operation and

maintenance of facilities and equipment, management of stations and depots, operation and maintenance of civil engineering facilities, and safety management.

3.4 train operation: activity of organizing the running of trains according to the train diagram, using the facilities and equipment of the urban rail transit system.

3.5 degraded condition: state in which, because of train delay, short blockage of a section, heavy passenger flow, equipment failure or similar causes, trains cannot run normally to the train diagram, but the lives of passengers are not endangered and vehicles and other equipment are not seriously damaged, and the whole system can be kept running to a lowered standard.

3.6 emergency condition: state in which a natural disaster or a public health, public security or operational emergency has caused, or may cause, an accident or serious damage to facilities and equipment, so that all or part of the urban rail transit system cannot be kept running.

3.7 emergency command center: emergency rescue place with communication and command functions, responsible for directing the handling of urban rail transit operating emergencies.

3.8 service period: time during which urban rail transit service is provided to passengers, that is the time between the departure of the first train and the departure of the last train from the originating station in one direction of a line.

3.9 passenger service personnel: personnel responsible within the station for ticketing service, safety patrol, maintenance of order and guidance of passengers.

3.10 train driver: person holding the qualification for driving urban rail transit trains and working in a train driving post.

3.11 controller: person holding the qualification for urban rail transit dispatching work and working in a dispatching post, mainly train controllers, power controllers, environment control controllers and maintenance controllers.

3.12 station administrator: person holding the qualification for urban rail transit station work and engaged in the control of station equipment and the monitoring of train running.

3.13 other personnel: mainly engineering vehicle drivers, special equipment operators, signal box attendants, and personnel engaged in equipment repair and in operation and maintenance.

4 General requirements

4.1 The operation company is to obtain the corresponding operating permit in accordance with the relevant provisions.

4.2 The operation company is to guarantee safe, orderly and efficient operation of the urban rail transit system and to provide passengers with safe, punctual, convenient and comfortable service.

4.3 The operation company is to set up a sound organizational structure with departments for train operation organization, passenger service, maintenance of facilities and equipment and safety management; the duties of each department are to be clear, the division of work reasonable and the interfaces close, and workable operating and management procedures are to be drawn up.

4.4 The operation company is to staff its production, technical and management posts with people holding the corresponding post qualifications, and to establish post responsibility so that staffing levels are reasonable and responsibilities are carried through.

4.5 The operation company is to establish sound rules and operating methods for safety management, train operation organization, passenger transport organization and service, operation and maintenance of facilities and equipment, management of stations and depots, and emergency plans.

4.6 The operation company is to pay attention to environmental and ecological protection and to promote energy saving technology.

4.7 The operation company is to set up an asset management system, to strengthen asset management, to control risk and to reduce cost.

4.8 The operation company is to compile statistics for its principal operating indicators in the following units: annual passenger volume in million passenger trips per year; daily passenger volume in million passenger trips per day; annual operating mileage in train-kilometres per year; daily operating mileage in train-kilometres per day; annual number of train runs in ten thousand train runs per year; annual operating revenue in million yuan per year; annual ticket revenue in million yuan per year; annual business revenue in million yuan per year; annual total operating cost in million yuan per year; annual electricity consumption in ten thousand kilowatt-hours per year.

4.9 The operation company is to compile the above operating indicators and report them to the competent authority.

5.1 Train operation organization - general requirements

5.1.1 Train operation organization is to be centrally managed, uniformly commanded and made the responsibility of each level in turn.

5.1.2 Train operation organization work is to be carried out on a 24 h basis.

5.1.3 The operation company is to draw up train operation organization schemes for normal conditions, degraded conditions and emergency conditions.