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

GY/T 208-2005

**Radio and TV tower maintenance specifications for power
supply, lightning protection, water supply and waste water
treatment, ventilation and fire fighting systems+**

(English Translation)

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Foreword

The radio and television tower is a super-high special building, which is the hub of radio and television transmission and transmission. It is responsible for television, FM radio, microwave, and communication.

Information and other services, some still integrate tourism and tourism as a whole, are extremely important radio and television facilities. China has a considerable number of towers in the past 10 years Completed and put into operation, but in operation and maintenance, there is not a uniform maintenance standard in various places, and the quality of maintenance is difficult to guarantee. To ensure wide the broadcast television tower runs safely to protect equipment safety and personal safety, so that it has rules to follow. This standard is specially formulated.

In China, most of the radio and television towers have been built and put into operation in the past ten years.

The surface has not met the requirements of the current regulations. It is recommended that after the implementation of this standard, conditional tower units should be gradually rectified to ensure high tower safety.

Fully reliable operation.

This standard is under the jurisdiction of the National Radio and Television Standardization Technical Committee.

This standard was drafted. State Administration of Radio, Film and Television Administration of Radio Station, China Radio, Film, Television Design and Research Institute.

1 Scope

This standard specifies the operation and maintenance of the power supply, lightning protection, water supply and drainage, ventilation, and fire protection systems of radio and television towers (hereinafter referred to as towers).

procedure.

This standard applies to the operation and maintenance of power supply, lightning protection, water supply and drainage, ventilation and fire protection facilities for high towers.

2 Normative references

The clauses in the following documents have become the clauses of this standard after being referenced. For dated references, all subsequent documents the amendments (excluding the content of errata) or the revised versions are not applicable to this standard, however, all parties that reach an agreement based on this standard are encouraged to investigate whether the latest version of these files is available. For undated references, the latest version applies to this standard.

GB/T 10228 Dry-type transformer technical parameters and requirements GB/T 13869-1992 Electrical safety guidelines GB 14050-1993 System grounding type and safety technical requirements GB 14821.1-1993 Electric shock protection of electrical installations in buildings DL-408-1991 Electric Power Industry Safe Working Rules

3.1 General provisions

3.1.1

Before the electrical equipment is put into operation, a high-power tower shall establish and improve the power consumption management mechanism, according to the voltage level and power capacity of the electrical equipment.

And the specific conditions of electrical equipment are equipped with electrical equipment operation, maintenance, repair and maintenance professionals.

3.1.2

Electrical professionals of high towers shall comply with the requirements of local electric power industry and labor bureau on the requirements for on-site electrical workers.

Documents, holding a post.

3.1.3

High towers shall establish the operation, maintenance, and overhaul of electrical equipment in accordance with the provisions of this standard and relevant regulations, and

in accordance with the specific conditions of the unit.

And test system; do a good job of safety technical training for electrical staff and improve the level of operation management. Responsible persons at all levels shall implement this standard Monitoring and inspection of the situation.

3.1.4

The tower's electrical department should pay attention to and improve the operation and management of electrical equipment to ensure the integrity of the equipment. Realization of power system the system is safe, reasonable and economical.

3.1.5

Tall towers shall combine the characteristics of the season, the characteristics of the safety broadcast work of the unit and relevant requirements, and organize the electrical staff to make advances in electrical equipment.

Conduct safety inspections, strengthen equipment management, and implement various accident prevention measures.

3.1.6

The selection of electrical equipment for high towers should meet the requirements of relevant national standards and industry standards. And should choose oil-free products.

3.2.1 Operation and maintenance management system of substations

The substation (distribution) power station shall establish the following operation and maintenance management system.

- Duty system;
- The transfer system;
- Inspection system;
- Equipment maintenance management system;
- Technical training system;
- Operating procedures;
- Power system dispatch management system;
- Emergency plan implementation system;
- Site environmental management system;
- Relevant systems that need to be developed according to specific circumstances.

3.2.2 Technical Management of Substations

3.2.2.1

Transformer (distribution) substations shall comply with the electrical safety work regulations, electrical engineering installation regulations, and electrical Equipment operation management regulations, and formulate field work regulations in accordance with specific conditions, and implement them carefully.

3.2.2.2

The substation (distribution) substation shall have the following technical management data according to the needs of on-site production.

3.2.2.2.1 Drawings

- Primary system wiring diagram;
- Secondary wiring diagram of relay protection and automatic equipment;
- Electricity system diagram of substations (including accident lighting systems);
- DC power system diagram;
- Level and section views of substations (distribution) (including power distribution equipment and main equipment layout);
- Vertical cable trunking diagram (including use, path, section, model);
- Completion plans for concealed works;
- Plan of power supply (indicate total capacity of load point) and diagram of power distribution system.

3.2.2.2.2 Information

- Each (group) equipment in the substation (distribution) power station should establish equipment files and be managed by a special person;
- The contents of the equipment file include. manufacturer's equipment manual, equipment card, product qualification certificate when the equipment leaves the factory, test report Sheet and insulation analysis appraisal, maintenance record, defect record, dispatch, order, operation record book, operation work record (value (Shift log), equipment and system operation records, calibration data for relay protection, etc.

3.2.2.3 Utensil and equipment

The following appliances and equipment shall be provided in the transformer (distribution) power station.