

ICS 11.020
CCS C 05

WS

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

WS 434-2013

**Operational management of power supply for hospital
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

**Issued by: National Health and Family Planning Commission of the
People's Republic of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Basic requirements
 - 4.1 General principles
 - 4.2 Management agency
 - 4.3 Duties
 - 4.4 Management System
 - 4.5 Security Management
 - 4.6 Power System Operation Regulations
 - 4.8 Archive management
- 5.1 Basic requirements
- 5.2 High-voltage power distribution system
- 5.3 Transformer
- 5.4 Low-voltage power distribution system
- 5.6 Power cable
- 5.7 Lightning protection and grounding
- 5.8 Emergency power
- 6 Power Management

1 Scope

This standard specifies the requirements for the operation and management of hospital power systems.

This standard applies to the operation and management of the power system of various types of hospitals, and other medical institutions with similar power systems can refer to the implementation.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 12325 Power quality voltage deviation GB/T 12326 Power quality voltage fluctuation and flicker GB/T 14549 Power Quality Harmonics GB/T 15543 power quality three-phase voltage imbalance GB/T 24337 Power quality Inter-harmonics of utility grids GB 50254 Code for Construction and Acceptance of Low Voltage Electrical Apparatus for Electrical Installation GB 50255 Code for Construction and Acceptance of Power Converter Equipment for Electrical Installation Engineering GB 50256 Code for construction and acceptance of electrical installations for cranes for electrical installations GB 50257 Electrical installation work Engineering explosion and fire danger environment Electrical installation work GB 50258 Code for Construction and Acceptance of 1kV and Below Wiring Engineering GB 50259 Code for construction and acceptance of electrical lighting installations for electrical installations DL 408 Electric Power Industry Safe Working Regulations (Power Plant and Substation Section) DL/T 596 Preventive test procedures for electric equipment DL/T 1102 Distribution transformer operation regulations JGJ 16 Code for Electrical Design of Civil Buildings

3 Terms and definitions

The following terms and definitions apply to this document.

Electric power system of hospitals A combination of all devices and equipment for generating, transmitting, distributing and using electricity in a hospital.

Hospital emergency power source for safety services of hospitals in the case of a sudden interruption of mains power, the hospital was used as a power source to immediately supply the hospital's important load.

Emergency power sources mainly include generators, uninterruptible power supply units (UPS), and emergency power supply units (EPS).

4.1 General principles

4.1.1

The hospital shall set up the corresponding electric power operation management department according to its own situation, and configure the corresponding management person in charge and operation staff.

Responsible for the operation, maintenance, inspection and maintenance of electrical equipment and facilities.

4.1.2

The person in charge of power system management should be familiar with the hospital power system, have safety awareness, energy saving awareness, and emergency command capabilities, and should regularly Report the actual status of the power system operation and energy consumption to the hospital director.

4.1.3

The person in charge of power system management and the operating personnel shall possess the "Special Operation Operation Certificate of the People's Republic of China", Verifiable.

4.1.4

The power system operation management department shall establish the basic information, training and assessment files of the person in charge of power management of the hospital and the operating personnel.

4.1.5

Newly-operated operating personnel should receive pre-job safety education and be familiar with the actual operation of the hospital's power system before participating.

Specified work.

4.2.1 Hospitals should specify the power supply system

4.2.2 The hospital shall

4.3 Duties

4.3.4

4.4.2 Power System Operation Management System

"Singing Z

Safety management system, substation (room) safety protection and Management system of power system operation archives.

4.4.3 The inspection system for power equipment facilities shall include the following.

Management system and announced implementation.

Power equipment and facilities maintenance system, electricity Drill system, power safety education, training assessment system, and

- a) Personnel who carry out inspections and inspections of specific posts, determine the content requirements and cycle of inspections and inspections z
- b) the requirements for the contents of the inspection records of electrical equipment and facilities to be filled out during inspections;
- c) In the course of inspections and inspections, violations of laws and regulations shall be corrected immediately; if rectifications cannot be made on the spot, they shall be reported immediately and recorded.

4.4.4 The maintenance system of electric equipment and facilities shall include the following.

- a) The person in charge of the management of power equipment and facilities should be implemented;
- b) stipulate the maintenance intervals and maintenance requirements of electrical equipment and facilities;
- c) stipulate procedures and requirements for handling hidden dangers and accidents of electrical equipment and facilities;
- d) Archives shall be established for the maintenance and management of electrical equipment and facilities.

4.4.5 The power safety management system shall include the following.

- a) Temporary power lines and equipment should not be set up without permission;
- b) regular inspection and maintenance of various electrical equipment, prohibiting operation or use with failure;
- c) New power equipment shall be in accordance with GB 50254, GB 50255, GB 50256, GB 50257, GB 50258 and GB 50259.

Relevant regulations are accepted, and they can be put into use only after passing.

4.4.6 Substation (room > safety protection and duty system shall include the following.

- a) Substations (rooms) that are connected to the outside world should be equipped with metal protective doors and kept locked; windows should be equipped with metal fences;
- b) Substations (rooms) can be installed with intrusion alarm devices and video monitoring devices;
- c) Substations (rooms) should be reasonably staffed on duty according to equipment capacity and a 24-hour duty system should be established;
- d) Establish and maintain relevant records of power supply and distribution equipment operation and fault handling;
- e) Establish a handover system for on-duty personnel and keep records of the handover;
- f) Strictly implement the access control system, and the duty personnel should register the outsiders;
- g) The staff on duty shall stick to their posts, shall not drink alcohol before or during duty, and shall not smoke in substations (rooms);
- h) Upon receiving the fault report and repairing, the person on duty shall immediately take corresponding measures according to the operating procedures.