

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

**CODE FOR DESIGN OF ELECTRICAL EQUIPMENT  
OF  
ELECTROHEAT INSTALLATIONS  
GB 50056 – 93**

Chief editorial department: Ministry of Machinery Industry of P. R. China

Approved department: Ministry of Construction of P. R. China

Date of effect: Feb. 1994

**Beijing 1995**

## Preface

This book is the English translation of *Code for Design of electrical equipment of electroheat installations* GB50056 – 93. It is the official translation of the original in Chinese for general use as examined and approved by the Department of Standards and Norms, Ministry of Construction of the People's Republic of China.

In the event of any inconsistency between the Chinese-language text of the Standard and the present English-language text of the Standard, the Chinese-language text shall be taken as ruling.

Department of Standards and Norms, Ministry of  
Construction of the People's Republic of China

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***Notice on promulgation of the national standard ,  
“code for design electrical equipment of electroheat installations”***

The National Standard 《Code for Design Electrical Equipment of Electroheat Installations》 is based upon the document of State Planning Commission of P. R. C. Jizong [1986] 250, reversed jointly by former Ministry of Machinery and Electronics Industries and relative units, has examined jointly by relative units.

Now approve 《Code for Design Electrical Equipment of Electroheat Installations》 GB50056 - 93 as a forced National Standard. Come into effect from 1st Feb. 1994, abolish former National Standard 《Code for Design Electrical Equipment of Electroheat Installations》 GBJ56 - 83 at the same time.

Present Code manage responsibly by The Ministry of Machinery Industry. Concrete interpretation etc, are responded by The Institute of Project Planning and Research of The Ministry of Machinery Industry. Concrete publish and issue are responded by The Research Institute of Standards and Norms of The Ministry of Construction of P. R. C.

Ministry of Construction of P. R. China  
13 July 1993

## **Explanation of the revision**

The present code is based upon the document of State Planning Commission of P. R. C Jizong [1986] 250, edit in chief by this Ministry. The concrete chief editorial unit is The Institute of Project Planning and Reserch of this Ministry. They organized revision group , revised the old code and turned into present code. In the process of revision, revision group has carried out a lot of investigates, tests , verifications and collected opinions form relative units and persons countrywidely, and checked by mails. Finally, the present code has been examined and approved by this Ministry and relative units.

The present document divides seven charpters and two Appendixes. The main contents include general, basic requirements, main circuit system, selection and layout of equipment, protections, controls, signals and mesurements of arc furnaces, submerged arc furnaces, low-frequency, medium-frequency and high-frequency induction electroheat equipment and resistance furnaces.

In the implementation of present code, if there is somewhere necessary to modify or to add, please mail your openions and relative materials to The Institute of Ploject Planning and Reserch of this Ministry (277 Wang Fujing street Beijing P. R. C Post Code 100740) in order to refer in the next revision.

Ministry of Mechinery Industry of P. R. C .

July 1993



# 1 General

**1.0.1** The object of this code is to promote the design of electrical equipment of electroheat installations must be according with the state economic technical policy. Advanced technique, safety of person, saving electrical energy, rational economy and maintain easily must be realized.

**1.0.2** This code apply to the design of new industrial electroheat installations such as:

- direct arc furnaces.
  - submerged arc furnaces,
  - induction furnaces,
  - equipment for induction heating,
  - resistance furnaces,
- etc.

**1.0.3** Design of electroheat installations must observe the requirements of this code. In addition, the relevant present National Standards and Codes must be complied.



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