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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
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GB 50172-2012

**Code for construction and acceptance of battery
electric equipment installation engineering**

电气装置安装工程

蓄电池施工及验收规范

Issued on May 28, 2012

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Republic of China**

**General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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Chief Editorial Department: China Electricity Council

Approved Department: Ministry of Housing and Urban-Rural Development of the People's
Republic of China

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**Announcement of Ministry of Housing and Urban-Rural
Development of the People's Republic of China
No. 1418**

**Announcement on issuance of the national standard *Code
for Construction and Acceptance of Battery Electric
Equipment Installation Engineering***

Code for Construction and Acceptance of Battery Electric Equipment Installation Engineering is now approved as the national standard, with the number of GB 50172-2012, which will be implemented from December 1, 2012. Among which, Article 3.0.7 is the mandatory provision and shall be strictly implemented. The original *Code for Construction and Acceptance of Battery Electric Equipment Installation Engineering* GB 50112-92 is abolished simultaneously.

The Code is published and distributed by China Planning Press organized by standard rating research institute of our department.

**Ministry of Housing and Urban-Rural Development of the People's Republic of
China
May 28, 2012**

Foreword

The Code is in line with the requirements of the *Announcement on Issuing <2008 Code for the Formulation and Revision Plan of the Engineering Construction Standard (second batch)>* (JB(2008)No.105) issued by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. Hunan Provincial Thermal Power Construction Company together with other relevant units, revise and finish it on the basis of the *Code for Construction and Acceptance of Battery Electric Equipment Installation Engineering* GB 50172-92.

In the revision process of this Code, the revising group conducts extensive investigation and analysis, summarizes the experience from the implementation of the original Code, extensively seeks for opinions of the national relevant units, and finalizes the draft after review.

The Code is divided into 6 chapters and 2 appendixes, which mainly includes the following contents: General rules, terms and signs, basic regulations, valve regulated sealed lead-acid battery, nickel-cadmium alkaline battery, quality acceptance, etc.

Compared with the original Code, the revised contents in the Code mainly include:

1. The applicable range of the Code changes from the fixed type lead-acid battery with the voltage of 24V or above and the capacity of 30A•h or above to the valve regulated sealed lead-acid battery with the voltage of 12V or above and the capacity of 25A•h or above.
2. Two chapters of the terms and signs and basic regulations are added.
3. Relevant contents of the acid-proof lead-acid battery in Chapter II of the original Code are deleted, and the contents of the valve regulation type seal lead acid battery are added.
4. The “End Batter Switcher” in Chapter IV of the original Code is deleted.
5. The Appendix I “Materials and Electrolyte Standard for the Lead-Acid Battery” of the original Code is deleted.

The articles written in bold-face in this Code are the mandatory provisions, which shall be strictly implemented.

Ministry of Housing and Urban-Rural Development of the People's Republic of China is responsible for interpretation of this Code, the China Electricity Council is responsible for daily management, and the Hunan Provincial Thermal Construction Company is responsible for the interpretation of the specific technical contents. During the implementation of this Code, each unit is expected to seriously summarize the experience by combing the engineering practice, and in case of finding parts needing to be modified or supplemented, please send your opinions or suggestions to Hunan Provincial Thermal Construction Company (address: No.356, Middle Jianshe Road, Zhuzhou City, Hunan Province, Post Code: 412000), for the reference of future revision.

Chief editorial units, participated units, main drafters and main examiners of the Code:

Chief editorial units:	Hunan Provincial Thermal Construction Company China Electricity Council		
Participated units:	China Electric Power Research Institute Guangdong Province Transmission and Transformer Engineering Company Tianjin Electric Power Construction Company Huaneng Quality Supervision Center Station		
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1 General provisions

1.0.1 This Code is formulated in order to guarantee the construction quality of the batter installation engineering, promote the improvement of the technical level of the engineering construction, and ensure the safe operation of the battery.

1.0.2 This Code applies to the construction and quality acceptance of the installation engineering of the valve regulated sealed lead-acid battery with the voltage of 12 V or above and the capacity of 25A•h or above and the nickel-cadmium battery with the capacity of 10A•h or above.

1.0.3 Construction and quality acceptance of the installation engineering of battery, in addition to comply with this Code, shall be in conformity with the provisions of the current national relevant standards.

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