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Technical code for safety of temporary electrification on construction site

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Technical code for safety of temporary electrification on construction site

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NOTE

This code is the English translation of Technical code for safety of temporary electrification on construction site JGJ46-2005. In the event of any inconsistency between the Chinese-language text of the Code and the present English-language text of the Code, the Chinese-language text shall be taken as ruling.

Ministry of Construction P. R. China

Bulletin

No. 322

The bulletin of < Technical code for safety of temporary electrification on construction site> for the professional standard published the Ministry Construction

Approving < Technical code for safety of temporary electrification on construction site > to be used for the professional standard, the serial number is JGJ 46—2005, which is carried out from July 1, 2005 . It is forcing articles for the 1.0.3, 3.1.5, 3.3.4, 5.1.1, 5.1.2, 5.1.10, 5.3.2, 5.4.7, 6..16, 6.1.8, 6.2.3, 6.2.7, 7.2.1, 7.2.3, 8.1.3, 8.1.11, 8.2.10, 8.2.11, 8.2.15, 8.3.4, 9.73, 10.2.2, 10.2.5, 10.3.11, which must be carried out strictly. At the same time, it is abolished for < Technical code for safety of temporary electrification on construction site > JGJ 46—88, which the primitive professional standard .

The code is published by the Plan publishing company, which is organized for the Institute of standard and quota of Ministry construction.

Ministry Construction P. R. China

April 15, 2005

Foreword

Based on the demand of Building standard [2001] No.16 for the Ministry construction, The code is established on investigate and research, sum up practice experience seriously, consulted relative international standard, and collected the idea widely.

It is main technical content that 1. General; 2. Terms and code names; 3. Temporary electrification management; 4. Prevention of external circuit and electric installation; 5. Ground and lightning protection; 6. Distribution room and self-repair source; 7. Distributing line; 8. Distributing box and switch box; 9. Electric construction machinery and handhold electric tools; 10. Lighting; three appendixes.

It is revised that main technical contents for this code, 1. Defined for three technical principles in special power supply system on the construction site; 2. Added terms and code name for the main text turn into alone chapter, cut out noun explanation in the appendix; 3. Make up the checking define of temporary electrification on construction site; 4. Changed the “construction site and surroundings environment” for “prevention of external circuit and electric installation”, make up for the define for external circuit to build protective device and the safeguard for inflammable and explosive material, corrosive medium, and mechanical damage; 5. In the ground line protective system, set up protective ground line and defined the color of the insulated line for the phase line, working ground line, protective ground line, and make up for the define determining lightning protection range on bowl method; 6. Added to the define of distribution room lighting; 7. Added to the define of the selective rule, laying mode and method for the cable circuit, and the define of applicative principle for the five cores cable; 8. Added to the define of the box-form construction of the distributing box and switching box, as well as electrical equipment allocation and wiring; 9. Added to the define set up protective device for the second get an electric shock in the welding machine, set up controller in the frequent operating devices, and chick to isolation for handhold electric tools; 10. Make up for the define to employ safety isolation transformer, and the define of safety distance and protective measure between lamps and inflammable and explosive cargo.

The code was managed for the Ministry Construction, and explained for forced terms, and explained for technical contents in chief organization.

The chief organization of the code is ShenYang construction college (HunNan new district of ShenYang city, postal code: 110000)

The joining organizations of the code are:

The construction safety branch of construction association of China

The construction safety association of ShangHai

The construction safety monitors station of ShanDong province

The construction safety and device management association of JiangSu province

The construction professional safety association of AnHui province

The construction engineering safety monitors station of YunNan province

The cities and counties safety production management station of WuHan

The construction engineering quality safety monitors station of ShanXi province

The construction safety monitors station of YanTai city

The Construction Office of LiaoNing province

The construction engineering quality safety monitors station of FuShun city

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1 General

1.0.1 The code , which was established , is carrying out the national laws and statutes for secure production, ensuring the safety of electrification on construction site, preventing get an electric shock and take place fire accident for electrical equipments, accelerating the development of the construction .

1.0.2 The code suit with design, install, employ, maintain and back out low pressure electrical system, which was 220/380V for tri-phase four line and direct to ground of power supply neutral point in the temporary electrification on construction site of industrial and civil construction and basic installation, which was news, reconstructive and expansive.

1.0.3 For special power supply of low pressure electrical system of the temporary electrification on construction site, which 220/380V for tri-phase four line and direct to ground of power supply neutral point, it must be in keeping with following defines:

- 1 employ three level distributing system;**
- 2 employ TN-S ground protective system;**
- 3 employ two level electric leakage protective systems;**

1.0.4 For temporary electrification on construction site, besides carry out the define of the code, it should with suit to relative defines of national forced standard, which was present.



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