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China Compulsory Certification Implementation Rules -
Circuit switching and protection or connection of electrical
installations (electrical accessories)

强制性产品认证实施规则

电路开关及保护或连接用电器装置（电器附件）

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0 Introduction

This Rules is established based on the safety risk and certification risk of circuit switching and protection or connection of electrical installations (electrical accessories). It stipulates the basic principles and requirements for the implementation of China Compulsory Certification for circuit switching and protection or connection of electrical installations (electrical accessories).

This Rules can be used with other general rules issued by Certification and Accreditation Administration (CNCA), such as “China Compulsory Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination”, “China Compulsory Certification Implementation Rules - Utilization of Manufacturing Enterprise Test Resource and Other Certification Results”, “China Compulsory Certification Implementation Rules - Factory Inspection General Requirements”.

The certification body shall make principles for certification according to the general implementation rules and this Rules and implement them accordingly.

Manufacturing enterprise shall ensure that their certified products are capable of sustaining the compliance with the certification and are compatible with the requirements of the standards.

1 Application scope

This Rules applies to circuit switching and protection or connection of electrical installations (electrical accessories), including wire assembly, plugs and sockets (household and similar, industrial use), switches for household and similar fixed electrical installations, appliance couplers (household and similar, industrial use), accessory enclosures for household and similar fixed electrical installations, thermal links, cartridge fuses for miniature fuses.

Due to the changes in the laws, regulations or related product standards, technology, industry policies and other causes which may change the applicable scope, the announcement released by CNCA shall be final and conclusive.

2 Standards for certification

(1) Wire assembly

GB 15934, *Electrical accessories - Cord sets and interconnection cord sets*

GB/T 26219, *Electrical accessories - Y-splitter cord sets and Y-splitter interconnection cord sets*

(2) Plugs and sockets for household and similar purposes

GB 2099.1, *Plugs and socket-outlets for household and similar purposes - Part 1: General requirements*

GB 2099.2, *Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for socket-outlets for appliances*

GB 2099.4, *Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for switched socket-outlets without interlock for fixed installations*

GB 2099.5, *Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for switched socket-outlets with interlock for fixed installations*

GB 1002, *Single phase plugs and socket-outlets for household and similar purposes - Types, basic parameters and dimensions*

GB 1003, *Three phases plugs and socket-outlets for household and similar purposes - Types, basic parameters and dimensions*

(3) Switches for household and similar fixed electrical installations

GB 16915.1, *Switches for household and similar fixed-electrical installations - Part 1: General requirements*

(4) Industrial plug sockets and couplers

GB/T 11918.1, *Plugs, socket-outlets and couplers for industrial purposes - Part 1: General requirements*

GB/T 11918.2, *Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional compatibility and interchangeability requirements for pin and contact-tube accessories*

GB/T 11918.4, *Plugs, socket-outlets and couplers for industrial purposes - Part 4: Switched socket-outlets and connectors with or without interlock*

(5) Household and similar appliance couplers

GB 17465.1, *Appliances couplers for household and similar general purposes - Part 1: General requirements*

GB 17465.2, *Appliance couplers for household and similar general purposes - Part 2: Interconnection couplers for household and similar equipment*

GB 17465.3, *Appliance couplers for household and similar general purposes - Part 2: Appliance couplers with a degree of protection higher than IPX0*

GB 17465.4, *Appliance couplers for household and similar general purposes - Part 2-4: Couplers dependent on appliance weight for engagement*

(6) Thermal link

Certification body shall agree with the CLIENT on the relevant responsibilities and arrangement of various aspects of certification implementation. And according to the situation of manufacturing enterprise and classification management AND the requirements of this Rules and certification implementation detailed-rules, DETERMINE the specific program of certification implementation and INFORM CLIENT.

6 Certification implementation

6.1 Type test

6.1.1 Type test plan

Certification body shall formulate the type test plan, after auditing the materials. And INFORM the CLIENT.

Type test plan includes the information all samples' requirements and quantity, test standard items, laboratory information etc.

6.1.2 Sample requirements of type test

The certification body shall specify the relevant requirements for sending/sampling of certified products in the implementation rules. In general, according to the requirements of certification body, samples of type test shall be submitted by the CLIENT with representative samples for test. When necessary, certification body may adopt on-site sampling / seal-samples method to obtain the samples.

CLIENT shall guarantee that all the samples provided are consistent with actual products. Certification body and/or laboratory shall inspect the authenticity of the samples. If laboratory has any doubt on the authenticity of the samples, it shall explain the situation to certification body and handle accordingly.

According to relevant regulations and documents issued by CNCA, certification body shall specify the list of critical components and materials used in the product and relevant requirements in the certification implementation rules.

For critical components and materials within the scope of compulsory product certification purchased in China, the manufacturer shall provide a compulsory product certification certificate. For critical components and materials within the scope of non-mandatory product certification, the certification body shall specify the conditions and specific requirements for acceptable or recognized voluntary certification certificates or type test reports in the certification implementation rules.

6.1.3 Test items of type test

In principle, it shall include all applicable items specified in product safety standards.

When there are some adjustments to the test items in the standards, it shall be

executed based on the provisions and documents issued by CNCA.

6.1.4 Implementation of type test

In principle, type test shall be conducted in the laboratory designated by CNCA. Laboratory shall conduct the type test to the samples, integrally record the whole test and archive for retaining, so that the test process and results are traceable.

On the premise of not affecting the validity of certification results, certification body may, according to "China Compulsory Certification Implementation Rules - Utilization of Manufacturing Enterprise Test Resource and Other Certification Results", formulate the corresponding management procedure. The designated laboratories delegate the testing personnel, according to the standard's requirements, to utilize the manufacturing testing resource to conduct test or witness test; and the designated laboratories issue the test reports. The designated shall ensure the authenticity, accuracy, and traceability of the test conclusion. Certification body shall clearly define the specific requirements and procedure in certification implementation detailed-rules.

6.1.5 Type test report

Certification body shall specify a unified form of the type test report.

After the type test is completed, the laboratory shall, in time, provide the type test reports to certification body and CLIENT. The test report shall contain a description of all products and certification-related information in the application unit. CLIENT shall ensure that it is able to provide the complete and valid type test report to certification body and laws enforcement authorities during the after-certification supervision.

6.2 Certification evaluation and approval

Certification body shall make a comprehensive evaluation to the type test, factory inspection results and relevant information / materials. If the evaluation is PASS, the certificate will be granted according to certification unit. If not, the certification body will not approve the certification entrustment, and the certification will be terminated.

6.3 Time limit of the certification

Certification body shall make specific provisions on each step of the certification, and determine all relevant work to be done within the time limit. CLIENT shall cooperate with the certification body actively. In general, certificate will be granted to CLIENT within 90 days, since the certification entrusting is accepted.

7 After-certification supervision

After-certification supervision refers to the supervision implemented to the certified product and manufacturing enterprise. Certification body shall consider the classification management and actual situation of the manufacturing enterprise and clarify the specific requirements for selecting the method of after-

7.3 Market (and/or user) sampling test or inspection

7.3.1 Principles for market (and/or user) sampling test or inspection

Market (and/or user) sampling test or inspection should cover certified products in a certain proportion.

If it adopts market (and/or user) sampling test or inspection to implement the supervision, CLIENT, manufacturer and manufacturing enterprise shall cooperate; and confirm the samples that are sampled from market (and/or user).

7.3.2 Contents of market and/or user sampling test or inspection

Certification body shall formulate the contents and requirements of market and/or user sampling test or inspection in the certification implementation detailed-rules.

7.4 Frequency and duration of after-certification supervision

Based on manufacturing enterprise classification management, certification body shall adopt different frequency of after-certification supervision to different types of manufacturing enterprises. The supervision time shall be made in a reasonable way. Detailed requirements shall be specified in the certification implementation detailed-rules.

7.5 Records of after-certification supervision

Certification body shall appropriately record and archive the process of after-certification supervision, so that the process and results are traceable.

7.6 Evaluation on after-certification supervision

Certification body shall comprehensively evaluate the conclusion of follow-up inspection; conclusion of sampling test; and relevant materials / information. If the evaluation is PASS, it may continue to maintain the certificate and use of certification mark. If the evaluation is Not-PASS, certification body shall suspend or revoke the certificate according to the corresponding situations; and announce it publicly.

8 Certificate

8.1 Maintenance of the certificate

This Rules covers the 5 year valid period of product certificate. Within the valid period, the validity of the certificate is maintained by depending on the after-certification supervision of the certification body.

Before the certification is expired, if it needs to continue to use, CLINET shall put forward the certification entrusting within 90 days before the expiry date. If the newest after-certification supervision, within the certificate validity, is PASS, then certification body shall directly renew the certificate.

8.2 Change of contents of the certificate

After the product is certified, if there is change in critical components and materials, the design and electrical structure that involve the product safety; or there occurs the change of other items as specified by certification body in certification implementation detailed-rules, then CLINET shall put forward the Change Entrusting to the certification body. And only after the filing is approved / completed, may it implement the change.

8.2.1 Change entrusting and requirements

Certification body shall clarify the specific requirements of certification change in certification implementation detailed-rules, including the scope and procedure of certification change.

For the changes of same-product and same-content that are belonged to same-manufacture but different manufacturing enterprises, CLIENT shall only submit once for change entrusting. Certification body shall associate the involved change with the certificate.

8.2.2 Evaluation and approval of change

Based on the content changes, certification body shall evaluate the information provided, to determine whether it can approve the changes. If it requires sample testing and/or factory inspection, it shall approve the change after the testing and/or inspection is PASS. In principle, it shall base on the original representative-model samples that were conducted for type test AS the basis of change evaluation.

8.2.3 Change filing

For change of critical components and materials, under the condition that it does not need to provide sample for test, it may be determined and approved by the certification technical responsible person of the manufacturing enterprise who has been recognized by the certification body. The relevant records shall be preserved and filed to the certification body. Certification body shall conduct the verification when it conducts after-certification supervision; if necessary, conduct the verification test.

The certification body shall clearly clarify the relevant requirements to certification technical responsible person in certification implementation detailed-rules.

8.3 Expansion of products that are covered in certificate

When CLIENT needs to extend the product scope that are covered by the obtained certificate, it shall put forward the certification entrusting of product expansion to certification body.

According to the relevant technical information of extended products provided by CLIENT, certification body shall verify the differences between the original

Certification body and laboratory shall base on the national provisions of China Compulsory Certification Fees to charge the fees.

Certification body shall, based on the initial factory inspection fees, after-certification supervision re-inspection man-day fees in national provisions of China Compulsory Certification fees, reasonably determine the specific man-day fees.

11 Certification responsibility

Certification body shall be responsible for the certification results.

Laboratory shall be responsible for the test results and test reports.

Certification body and its inspectors shall be responsible for the factory inspection conclusion.

CLIENT shall be responsible for the submitted materials, and samples' authenticity and legality.

12 Certification implementation detailed-rules

Certification body shall formulate scientific, reasonable and feasible certification implementation detailed-rules, according to the principle and requirements of this Rules. Certification implementation detailed-rules shall be publicly announced, after filed to CNCA. Certification implementation detailed-rules shall at least include the following contents:

- (1) Certification procedure and time limits;
- (2) Certification mode and relevant requirements;
- (3) Details and relevant requirements of unit division;
- (4) Classification management requirements of manufacturing enterprise;
- (5) Certification entrusting materials and relevant requirements;
- (6) Requirements for sample testing (including requirements for sampling testing at the production site/market (and/or users), and requirements for testing using the testing resources of the manufacturer);
- (7) Initial factory inspection and after-certification supervision requirements (including coverage requirements of factory inspection (including the division of product categories), requirements of enterprise quality assurance capability and product conformity inspection, manufacturing enterprise quality assurance control testing requirements, critical components and materials quality control testing requirements, ODM/OEM factory inspection requirements, supervision frequency, sampling inspection or inspection requirements, etc.);
- (8) Requirements for certification change (including change version of

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