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China Compulsory Certification Implementation Rules -
Explosion-proof Electrical Products

强制性产品认证实施规则

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0 Introduction

This Rules is established based on the safety risk and certification risk of explosion-proof electrical products. It stipulates the basic principles and requirements for the implementation of China Compulsory Certification for explosion-proof electrical products.

This Rules is used with other general implementation 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 Quality Assurance Capability Requirements”, and “China Compulsory Certification Implementation Rules - Factory Inspection General Requirements”.

The certification body shall, according to the general implementation rules and the requirements of this Rules, prepare the certification implementation detailed-rules; and, implement it together with the general implementation rules and this Rules.

Manufacturing enterprise shall ensure that the certified products produced can continue to meet the certification requirements.

1 Application scope

This Rules applies to Class I, Class II, and Class III explosion-proof electrical products. The product categories include: explosion-proof motors; explosion-proof electric pumps; explosion-proof power distribution device products; explosion-proof switch, control and protection products; explosion-proof starter products; explosion-proof transformer products; explosion-proof electric actuator and solenoid valve products; explosion-proof plug-in devices; explosion-proof monitoring products; explosion-proof communication and signal devices; explosion-proof air conditioning and ventilation equipment; explosion-proof electric heating products; explosion-proof accessories and Ex components; explosion-proof instrument and meter products; explosion-proof sensors; safety barrier products; explosion-proof instrument box products; explosion-proof lighting and controlling devices.

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 Certification standards

Explosion-proof electrical products are certified in accordance with the standards applicable

4 Division of certification units

In principle, according to the equipment classification, explosion-proof type, product type, explosion-proof structure, and safety parameters of explosion-proof electrical products, the application unit is divided.

For the same product that is of same manufacturer but of different manufacturing enterprises, or for the same product that is of different manufacturers and of same manufacturing enterprise, it is possible to only conduct the type test on the samples of 1 unit. The products of other manufacturing enterprises / manufacturers shall provide documents for conformity inspection.

In accordance with the relevant documents issued by the CNCA, the certification body shall specify the specific requirements for the division of units in the certification implementation detailed-rules.

5 Certification entrusting

5.1 Application and acceptance of certification entrusting

The certification client puts forward the certification entrusting to the certification body. Certification body shall process the certification entrusting; and feedback the acceptance or rejection according to the time limit in the certification implementation detailed-rules.

When it does not comply with national laws and regulations and relevant industry policies, the certification body must not accept the certification entrusting.

5.2 Application materials

The certification body shall, in accordance with the laws and regulations, standards, and the needs of certification implementation, specify the checklist of application materials in the certification implementation detailed-rules. (They shall include at least the certification application or contract, registration certificates of CLIENT / manufacturer / manufacturing enterprise, etc.)

CLIENT shall provide the required materials according to the requirements of application material checklist in certification implementation detailed-rules. Certification body is responsible for auditing, managing, preserving and keeping confidential of the relevant materials, and shall inform the CLIENT of the material auditing results.

5.3 Implementation arrangement

The certification body shall agree with CLIENT on the relevant responsibility and arrangement of both parties in each link 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.

The type test plan includes the requirements and quantity of samples for the type test, test standard items, laboratory information, etc.

If the CLIENT submits a type test report that meets the requirements when submitting the certification entrusting, the certification body shall accept it.

6.1.2 Sample requirements of type test

In general, for the sample of type test, representative samples are selected and sent by the CLIENT according to the requirements of the certification body for testing. When necessary, certification body may adopt on-site sampling method to obtain the samples. In the implementation detailed-rules, the certification body shall specify the relevant requirements for sample sending / sampling of certified products.

CLIENT shall ensure that the samples provided by it are consistent with the products actually produced. Certification body and / or laboratory shall inspect the authenticity of the samples provided by the CLIENT. 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 documents issued by CNCA, certification body shall, in the certification implementation detailed-rules, define the “product critical components and materials checklist” AND relevant requirements.

For critical components and materials within the scope of China Compulsory Certification purchased in China, the manufacturing enterprise shall provide a China Compulsory Certification certificate. For critical components and materials not within the scope of China Compulsory Certification, the certification body shall, in the certification implementation detailed-rules, specify the conditions and specific requirements for voluntary certification certificate or type test report that can be accepted or recognized.

6.1.3 Test items of type test

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

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

6.3 Certification evaluation and decision

The certification body conducts a comprehensive evaluation of the type test and initial factory inspection conclusions, as well as relevant materials / information, and makes a certification decision. For those that meet the certification requirements, a certificate will be issued. If there is an unqualified conclusion, the certification shall be terminated; the certification body shall not issue the certificate.

6.4 Time limit of the certification

Certification body shall make specific provisions on the time limit of each link of the certification; ensure that relevant work is done according to the time limit requirements. The CLIENT must actively cooperate with the certification activity. In general, within 90 days since the certification entrusting is accepted, certificate will be granted to CLIENT.

7 After-certification supervision

After-certification supervision refers to the supervision carried out by the certification body on the certified product and its manufacturing enterprise. Certification body shall consider the classification management and actual situation of the manufacturing enterprise; clarify the specific requirements for selecting the method of after-certification supervision in certification implementation detailed-rules.

7.1 After-certification follow-up inspection

7.1.1 Principles for after-certification follow-up inspection

Based on manufacturing enterprise classification management, certification body shall implement the effective follow-up inspection to the certified product and its manufacturing enterprise, so as to validate that the quality assurance capability of the manufacturing enterprise continuously complies with the certification requirements; and ensure that the certified products are continuously in accordance with standards' requirements; and maintain the conformity with type test samples.

The after-certification follow-up inspection shall be carried out in the normal production of the manufacturing enterprise, preferably by way of not notifying the party to be inspected in advance. For those products that are not continuously manufactured, CLIENT shall provide the relevant production plan to certification body, so that the after-certification follow-up inspection can be conducted effectively.

7.1.2 Content of after-certification follow-up inspection

Certification body shall, according to “China Compulsory Certification Implementation Rules - Factory Quality Assurance Capability Requirements”, formulate specific content such as after-certification follow-up inspection requirements, product conformity inspection requirements, and manufacturing enterprise quality control test requirements; and clarify them

clearly in certification implementation detailed-rules.

7.2 Factory on-site sampling test

7.2.1 Principles of factory on-site sampling test

In principle, factory on-site sampling test shall cover the explosion-proof type and product category involved in the certified product.

If it adopts “factory on-site sampling test” to implement the after-certification supervision, then CLIENT, manufacturer and manufacturing enterprise shall cooperate.

7.2.2 Contents of factory on-site sampling test

Certification body shall specify the specific contents and requirements of factory on-site sampling test in the certification implementation detailed-rules. The manufacturing enterprise shall send the samples to be tested to the designated laboratory.

Certification body may also, according to “China Compulsory Certification Implementation Rules - Utilization of Manufacturing Enterprise Test Resource and Other Certification Results”, formulate the corresponding management procedure; utilize the manufacturing enterprise testing resource to conduct sampling test (or witness test); and the designated laboratories issue the test reports.

Certification body shall clearly define the specific requirements and procedure in certification implementation detailed-rules.

7.3 Frequency and time 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 principles shall be specified in the certification implementation detailed-rules.

7.4 Records of after-certification supervision

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

7.5 Evaluation on after-certification supervision results

Certification body shall comprehensively evaluate the conclusion of after-certification supervision 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.

parameters related to explosion-proof safety, under the condition that it is unnecessary 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 Extension of products covered by the 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 extension to certification body.

According to the relevant technical information of extended products provided by CLIENT, certification body shall verify the differences between the original certified product and extended products; determine the validity of the original certification results to the extended products; conduct the supplementary test for the differences or check the factory on-site products. If the verification is PASS, certification body shall issue the independent certificate or change-issue a certificate, according to the requirements of CLIENT.

In principle, it shall use the original representative-model samples that were conducted for full type test AS the basis of extension evaluation.

8.4 Certificate's cancellation, suspension and withdrawal

The suspension, cancellation and withdrawal of certificates shall be implemented in accordance with "China Compulsory Certification Management Regulations", "Compulsory product certificate cancellation, suspension and withdrawal implementation rules", and relevant regulations of the certification body. Certification body shall determine the classification and scope of the product that does not comply with the certification requirements; and adopt appropriate way to publicly announce the certificate which is cancelled, suspended, or withdrawn.

8.5 Use of the certificate

Use of the certificate shall comply with the requirements of "China Compulsory Certification Management Regulations".

9 Certification mark

The management and use of certification marks shall comply with the provisions of "China Compulsory Certification mark management method".

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