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Detailed Implementation Rules for China Compulsory Certification

Safety-Belts of Motor Vehicles

强制性产品认证实施细则

汽车安全带

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China Certification Centre for Automotive Products

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Preface

This Detailed-Rules is formulated and issued by China Certification Centre for Automotive Products (CCAP) according to China *Compulsory Certification — Safety-Belt of Motor Vehicle* (CNCA-C11-04:2014).

Drafting organization: China Certification Centre for Automotive Products

0 Introduction

In order to ensure the standardization and effectiveness of compulsory certification, "*Detailed Implementation Rules for China Compulsory Certification — Safety-Belts for Motor Vehicles"* is formulated according to "*Compulsory Product Certification Implementation Rules - Car Seat Belts"* (CNCA-C11-04:2014) (hereinafter refers to as *the Implementation Rules*) and CNCA Compulsory Product General Implementation Rules, including *"Compulsory Product Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination"* (CNCA-00C-003), *"Compulsory Product Certification Implementation Rules – Utilization of Manufacturing Enterprise Test Resources and Other Certification Results"* (CNCA-00C-004), *"Compulsory Product Certification Implementation Rules – Factory Quality Assurance Capability Requirements"* (CNCA-00C-005), and *"Compulsory Product Certification Implementation Rules - Factory Inspection General Requirements"* (CNCA-00C-006) and quality manuals, procedure documents and operation instructions of China Certification Centre for Automotive Products (CCAP). It is used to support the *"Implementation Rules"* as a supportive document.

Application scope and certification basis of this Detailed Implementation Rules [Translator note: Hereafter abbreviated as Detailed-Rules] are consistent with the provisions of *"Implementation Rules",* and it changes along the CCC product catalogs and the announcements on adjustment and definition of the product certification scope released by CNCA. It will be adjusted and implemented synchronously with the *"Implementation Rules".*

0.1 Terms and Definitions

0.1.1 Testing at Manufacturer's Premises (abbreviated as TMP mode)

It means that the engineers of designated laboratory use the testing equipment in the factory laboratory to conduct testing. The factory shall dispatch test personnel to provide assistance. The designated laboratory will examine, approve and issue the test report.

0.1.2 Witnessed Manufacturer's Testing (abbreviated as WMT mode)

It means that the engineer of designated laboratory witnesses the factory laboratory's test conditions and all tests completed by using the laboratory's equipment or according to the test plan submitted; or witnesses part of the test conditions and the test items. Test personnel of the factory laboratory shall provide the original records and draft up the test report together with the engineer of designated laboratory according to relevant provisions. The designated laboratory shall audit, approve and issue the test report.

0.1.3 Safety-belt of motor vehicle

It refers to an internal connector that is fixed in the motor vehicle and composed of strap, buckle and adjustable part. The assembly is used when the car brakes suddenly or collides, movement of human body can be limited so as to reduce the injury degree. It includes an energy-absorbing device or strap-furling device.

Definitions of safety-belts of all kinds of motor vehicles are shown in GB 14166-2013.

0.2 Manufacturing Enterprises Classification Management Requirements

CCAP conducts risk assessment and classification to the certification enterprises, according to information of the certification enterprises collected from various channels, and according to *Compulsory Product Certification Implementation Rules — Manufacturing Enterprises Classification Management, Certification Mode Selection and Determination* (CNCA-00C-003). And CCAP adopts differentiation management modes and risk control measures to different kinds of enterprises in order to ensure effectiveness of CCC certificate.

CCAP assesses the certification enterprises as 4 categories - A, B, C and D for classification management.

0.2.1 Information sources of classification management

(1) Findings from factory inspection and the inspection conclusion (including initial factory inspection, follow-up supervision inspection, and other special checks);

(2) Results of type tests AND supervision sampling (production on-site sampling or market sampling);

(3) Conclusions of CCC special supervision sampling check AND state and provincial quality supervision sampling check;

(4) Information of administrative supervision inspection conducted by departments of governments-at-all-levels and relevant handling records;

(5) Credit record and compliance record of certification behavior of he enterprise in the process of certification application, item-expansion, change, etc.;

(6) Public opinion and risk information that are related to the enterprise product quality and certification, such as complaints, product recall, public & social information exposed by governments-at-all-levels, the public and the medias;

inspection AND market sampling test or inspection.

3.2 Applicability of Certification Mode

CCAP will discretionally increase/decrease the certification elements according to requirements of "*Certification enterprises Classification Management Method*" based on the basic certification mode, including:

Class A: After-certification follow-up inspection, or production on-site sampling test or inspection, or market sampling test or inspection, or any combination of the 3 methods can be taken as after-certification supervision methods.

Class B, C and D's manufacturing enterprises: After-certification supervision shall adopt after-certification follow-up inspection and supervision sampling test (one of or the combination of production on-site sampling or market sampling).

For maintenance parts of the vehicle-models out of production, certification mode selection of manufacturing enterprise may be conducted according to Attachment 3 of the *"Implementation Rules".*

CCAP determines the applicable certification mode for the certification client, according to features of the certification products, principles of certification risk control, and classification management result of the manufacturing enterprise.

4. Classification of Certification Unit

In principle, the safety-belt products produced by the same-producer (manufacturer) and same manufacturing enterprise (location), and having no significant difference in the following aspects could be classified as one certification unit:

(1) rigid parts (retractor, buckle, connectors, etc.);

(2) strap material, weaving method, size and color etc.;

(3) the geometry of the safety-belt assembly.

Same-unit may include multiple "models (or specifications)" products. Same-model refers to those products of which the design has no impact to standard compliance.

For the same product that is of same manufacturer but of different manufacturing enterprises, or for the same-model product that is of different manufacturers and of same manufacturing enterprise, it may consider 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.

include name, model, specification and supplier of the critical components (material). See Attachment 2 of this Detailed-Rules for details.

6.1.3 Type test inspection items and inspection basis

See Attachment 3 of this Detailed-Rules for the mandatory terms and items in the based standards.

6.1.4 Selection and confirmation of the designated lab

The certification client can select a lab among the designated inspection labs provided by CNCA for the certification products. According to the client's confirmation, CCAP will give inspection commission to the selected lab to conduct type test.

6.1.5 Implementation of type test

6.1.5.1 Type test shall be completed by CNCA designated lab entrusted by CCAP. The designated lab shall complete the sample testing within the stipulated time according to CCC requirements and relevant stipulations of CCAP. The lab shall make a complete record of the whole test process and put it on file in order to ensure traceability of the inspection process and result.

6.1.5.2 If there is unqualified item, the lab shall inform the situation to CCAP. If the client wants to continue applying for certification, it shall complete rectification within 3 months and submit the rectification material to CCAP. CCAP will reconfirm the test plan. In principle, samples that are same-specification as previous samples shall be selected to conduct all-items test. If it passes the re-test, type test is PASS. Otherwise, it is NOT-PASS; and certification is terminated. If rectification is not completed within the required time and/or samples are not provided for retest, this certification will be terminated. The certification client can also apply for cancelling the certification entrusting; after the rectification is completed, it can re-apply for certification entrusting and conduct type test.

6.1.5.3 Type test shall not be longer than 20 working days (from the date when the samples are reached to the designated lab). The time spent on rectification and retest due to unqualified samples or inspection items is not counted.

6.1.6 Type test report

After the type test finishes, the lab shall issue a type test report to CCAP. The report shall include product description within the application unit, and relevant certification information. After the certification completes, CCAP will send the type test report, together with the certificate, to the certification client (or certification decision). The certification client shall ensure to provide the complete and effective type test report to the certification body and law-enforcement agencies during after-certification supervision.

PASS, the certificate will be granted according to certification unit. If not, the certification is terminated.

6.4 Time-limit of the Certification

Time-limit of certification refers to the period FROM the date when the certification body accepts the entrusting TO the date when the certificate is issued.

Usually, FROM the date when CCAP accepts the entrusting TO the date when the certificate is issued (or certification decision is made), the time is not more than 90 days. In which, it includes type test time, factory inspection time, test report submission time, evaluation and approval time of the certification result, and the certificate-making time; but it excludes the preparation time needed by the certification client, such as the time needed by the client for preparing materials and test samples, rectification of non-conformity items, and re-test time.

Other certification procedure time-limit shall follow relevant provisions of CCAP. Each department of CCAP shall control the certification time-limit according to the requirements of relevant documents. The certification client and the manufacturing enterprise shall actively cooperate in order to complete all the activities within the time-limit required by CCAP.

If the certification activities are not completed within the specified time-limit due to reasons of the client and the manufacturing enterprise, it will not be counted in the certification time-limit.

6.5 Maintenance Parts of Vehicle-Models Out of Production

See Attachment 3 of *"Implementation Rules"* for requirements of certification implementation.

7. After-Certification Supervision

After-certification supervision refers to that the certification body conducts supervision to the certification-products and the manufacturing enterprise. The supervision method is one of or combination of the following three modes - after-certification follow-up factory inspection, production on-site sampling test, and market sampling test.

CCAP will select applicable certification mode for the certification enterprise based on the basic certification mode, according to requirements of *the "Implementation Rules"* and the manufacturing enterprise classification management; formulate the after-certification supervision plan. Selection of the mode of differentiation supervision method is specified in Table 2.

Table 2 Selection Principles of the After-Certification Supervision Method

situation; and an announcement shall be issued.

8. Certificate

8.1 Maintenance of the Certificate

This Detailed-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 CCAP.

Before the certification is expired, if it needs to continue to use, entrusting client 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 Content of the Certificate

If the certified product and selling package are printed with the content contained in the certificate, it shall be consistent with the content in the certificate. For change of certificate, it shall indicate the version of change so as to clearly display the number of change for this product.

8.3 Change of the Certificate

8.3.1 Change of certification requirements (including standard change-version)

When the certification requirements is changed, CCAP will issue the above-mentioned certification requirements on the public website. At the same time, CCAP shall notify the certification enterprises by fax, email or other methods.

After the certification enterprises receive the notice, it shall submit “*Certification Change Application Form”* and the required materials to CCAP within the stipulated time-limit. CCAP will draw up a plan on whether it needs to arrange a product supplementary inspection and/or factory inspection according to the result of the material review, and conduct assessment on the result. If the supplementary inspection/document review/factory inspection assessment is “PASS”, then CCAP will approve the change, and the certificate will be renewed. If the certification enterprise does not submit change application within the stipulated period or the result of the supplementary inspection/factory inspection assessment is not qualified, then CCAP will suspend the certificate for relevant range of products from the expiry date of the stipulated time-limit. If the enterprise does not submit the “certificate recovery application” within the suspension time-limit OR the rectification measures are not taken OR the rectification is not qualified, then CCAP will withdraw the certificate or shrink the relevant certification range.

8.3.2 Certification change of certification enterprise

9.2 Use Requirements

The compulsory product certification marks shall be printed or molded with non-standard specification.

The certification mark shall be sewn on strap where is near to the fixing-point of safety-belt, or it shall be directly printed / molded on safety-belt assembly (including buckle) at where it is not under stress. The marks shall be preserved permanently. The mark shall be easily seen without damaging the vehicle and the certified products.

According to the characteristic of the product and process, the printing or molding marks can be completed in any stage of the product production.

10. Charges

CCAP and/or laboratory shall base on the national provisions of compulsory product certification fees to charge the fees.

CCAP shall, based on the initial factory inspection fees, after-certification supervision re-inspection man-day fees in national provisions of compulsory product certification fees, reasonably determine the specific man-day fees.

11. Certification Responsibilities

Certification body shall be responsible for the certification results.

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

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

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

12. Process and Time-limit Requirements related to Technical Disputes, Complaints and Appeal

It shall be conducted according to the requirements specified in CCAP/CP21 "*Handling Procedure of Appeal, Complaint and Dispute*".

(3) Control plan of the critical manufacturing process, the critical assembling process and the critical inspection process

Identify the critical manufacturing process, the critical assembling process and the critical inspection process according to characteristics of the products and the production process. And determine the control requirements of the technical parameters and features of the products.

For components, materials and assemblies that are not manufactured in the factory; and the manufacturing process, the assembling process and the inspection process that are not conducted in the factory, they are all deemed as critical components or critical processes and shall be listed specially in the plan.

1.3 Provisions and requirements, on product inspection or relevant inspection devices and personnel, conducted by the factory

It includes model and specification, precision, verification or calibration requirements of the inspection/test equipment; and capacities and training requirements of the tester/inspector.

1.4 The factory's provisions on change, declaration and execution of the production conformity control plan

When the manufacturing enterprise changes the production conformity control plan, it shall report to CCAP in advance and fill out "*Certification Change Application"* to explain the change situation. After it is approved by CCAP, it can only be implemented. When explaining the change, the enterprise shall provide a new version of production conformity control plan.

1.5 CCC certification and CCC mark control provisions

1.6 When there is non-conformity found in the products of the factory, relevant measures shall be taken under supervision of the certification body based on provisions on traceability and handling measures in order to recover the production conformity as soon as possible.

For all management requirements specified in the above 1.1 and 1.3~1.6, the enterprise can form documents independently or cover the above-mentioned requirements in other management documents.

The certification client shall ensure the control requirements according to its production and management features. CCAP will make no uniform compulsory requirements on format and content of the production conformity control plan. In order to help the enterprise to formulate the production conformity control plan, CCAP provides a recommended format of production conformity control plan (see Annex 1). In which, content and requirements of production

Annex 2 (Informative) Product COP Test and Inspection Plan

Table 4 Safety-Belt of Motor Vehicle - COP Inspection/Test Items

No.	Inspection item	Reference clause	Frequency
1	Locking performance of emergency locking-type retractor	According to Annex C.2.1 a) (according to 5.6.2.1 or 5.6.2.2, the test result shall meet requirements of 4.2.5.3.1 and 4.2.5.3.3) Or according to Annex C.2.1 b) (according to 5.6.2.3, the test result shall meet requirements of 4.2.5.3.1d))	According to Annex C.2.1, conduct 100% inspection.
2	Durability of emergency locking-type retractor	GB 14166-2013 Annex C.1.1	Not lower than standard specified in Annex C.2.1
3	Durability of self-locking retractor	Annex C.1.2	Not lower than standard specified in Annex C.2.1
4	Strap strength after standard-state treatment	Annex C.1.3	Not lower than standard specified in Annex C.2.1
5	Micro-slip test	Annex C.1.4	Not lower than standard specified in Annex C.2.1
6	Rigid pieces test (buckle, adjustment device, connector, etc.)	Annex C.1.5	Not lower than standard specified in Annex C.2.1
7	Dynamic test	Annex C.1.6	At least once for each unit; not lower than the provisions specified in Annex C.2.2
8	Combustion characteristic test of strap	GB 8410-2006	At least once a year for each type of strap

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